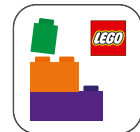




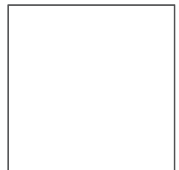
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LEGO® Builder



# A MATCH MADE IN SPACE

Our most important LEGO® mission is to inspire the builders of tomorrow. And why settle for the sky if we can push our limits into space? For more than 50 years, NASA has inspired new generations of creative, brave and groundbreaking explorers. Now, with the first Artemis mission successfully completed (in 2022), and more to follow in years to come, NASA returns to the Moon to establish a long-term human presence and scientific exploration on and in the orbit of the Moon. To begin this journey of discovery, NASA, in collaboration with international space agencies and experts in the field, has spearheaded the Space Launch System (SLS) and Orion spacecraft – their most powerful rocket and most capable spacecraft to date. Inspired by NASA's Artemis Block 1 rocket with the Orion spacecraft, this model replicates authentic details to land you in the front seat to as many imaginary rocket launches and thrilling space missions as you can imagine. Get ready to build your way to the Moon and beyond.



## HISTORY IN THE MAKING

As part of the Artemis missions, NASA will land the first woman and first person of colour on the Moon.

At 4 million kg (8,818,490 lbs.) of thrust, the NASA SLS is the most powerful rocket built to date.

The Orion spacecraft travelled 69,000 kilometres (42,874.6 miles) beyond the Moon during the Artemis I mission, farther than any other spacecraft built for humans.

# THE ARTEMIS I JOURNEY



## 1 LIFTOFF

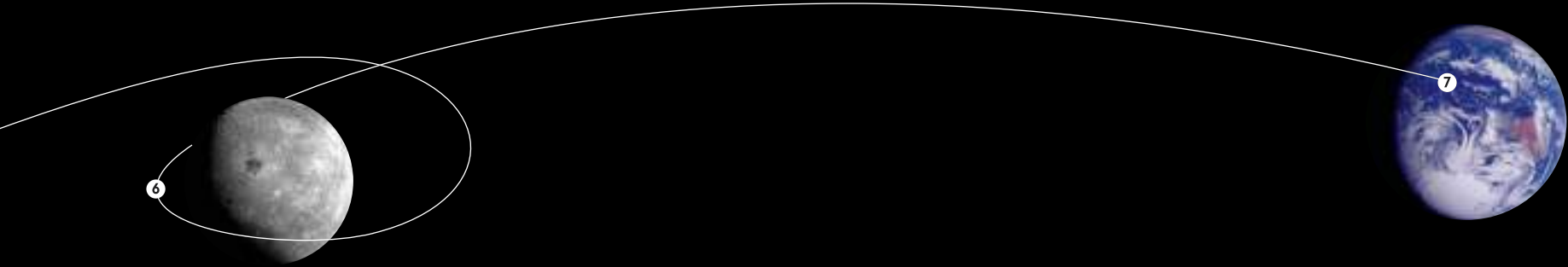
To overcome the pull of Earth's gravity, the NASA SLS produced nearly 4 million kg (8,818,490 lbs.) of thrust.

## 2 CORE STAGE AND BOOSTERS

Core stage and boosters broke off after their fuel had been used.

## 3 LOW-EARTH ORBIT (LEO)

The upper part of the rocket, the interim cryogenic propulsion stage and Orion, accelerating at more than 28,000 km/h (17,398 mph), began a circular orbit around Earth. Orion journeys out of LEO without completing a full orbit of Earth!



#### 4 TRANS-LUNAR INJECTION (TLI)

*The interim cryogenic propulsion stage accelerated the vehicle to overcome the pull of Earth's gravity, propel Orion out of low-Earth orbit and get it close enough to be captured by the Moon's gravity.*

#### 5 TO THE MOON

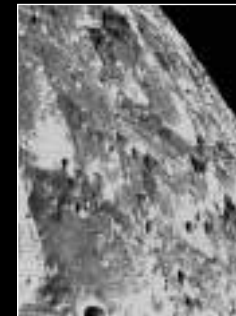
*The interim cryogenic propulsion stage separated from Orion. Orion headed to the Moon for its three-week mission, while the CubeSats that deployed from the OSA/ICPS continued on a similar path to study the Moon and deep space.*

#### 6 SYSTEMS AND ENVIRONMENT TESTING

*Orion fired the manoeuvring engines on its service module to bring the spaceship around the far side of the Moon. NASA tested critical systems in the environment of deep space.*

#### 7 RETURN TO EARTH

*Upon Orion's re-entry to Earth, the heat shield endures temperatures up to 2,760° C (5,000° F, or half as hot as the surface of the Sun!) and is recovered from the Pacific Ocean off the coast of California.*





# ARTEMIS I-V

▼ Honouring the Apollo missions (1961-1972), the name of NASA's Artemis missions also draws inspiration from Greek mythology, which revered Artemis as the goddess of the Moon and twin sister to Apollo. With its first flight test completed successfully, four additional Artemis missions have been confirmed for the coming years. Each mission aims to test and optimise SLS and Orion performance, lunar re-entry velocities, deep space operations and deployment of payloads. Ultimately, the goal is to expand the potential for crewed missions to Mars – and beyond.

I

FIRST MISSION  
(UNCREWED FLIGHT TEST)

II

FIRST CREWED FLIGHT TEST

III

CREWED LANDING AND  
SURFACE EXPEDITION

IV

FIRST LUNAR SPACE STATION  
ASSEMBLY MISSION

V

CREWED MOBILE SURFACE  
EXPLORATION AND  
GATEWAY EXPANSION

# FROM THE LEGO® DESIGNER



“Every LEGO® set based on reality has a history. With the NASA SLS, we can’t even begin to imagine its role in future space exploration! A little bit of LEGO rocket science was required when designing this model, as we wanted to have different functional stages of the rocket. The launch tower required a special way of building, using sticks and LEGO Technic connectors to make and stack the latticework sections. Just like in real life, a vehicle safety system secures the rocket to the launch tower, and retractable service umbilicals can be disengaged prior to launch by turning a small wheel. Details like staircases and doors help demonstrate the scale of the model. The rocket itself can be removed from the pad. Both boosters can be detached and, after removing a panel, the upper rocket stage is released. When opened, it reveals the Orion spacecraft, featuring deployable solar panels. The rocket can also be separated into smaller pieces just like a real launch rocket, and the Orion spacecraft can be displayed outside the model.”

- Hans Burkhard Schlömer, LEGO® Model Designer

## EACH MAJOR ELEMENT OF THE NASA SLS SERVES A UNIQUE PURPOSE

### ORION SPACECRAFT

The Orion spacecraft is made of three primary elements – the launch abort system, the crew module and the service module.

### CORE STAGE

The SLS core stage is the tallest rocket stage NASA has ever built. At approximately 64.6 m (211.9 ft.) tall and 8.4 m (27.5 ft.) in diameter, its fully fuelled weight, excluding engines, is 1,088 metric tons (2.4 million pounds)!

### ENGINE SECTION

The engine section houses the four RS-25 main engines, thrust structure, propellant ducts, avionics systems and thrust vector control systems.

### NOZZLE

The aft skirt contains the thrust vector control (TVC) system that steers the booster exhaust nozzle based on commands from the booster avionics.



### LAUNCH ABORT SYSTEM (LAS)

In the case of an emergency during launch, three solid rocket motors work together to propel the Orion and its crew away from the rocket for a safe landing in the ocean.

### CREW MODULE

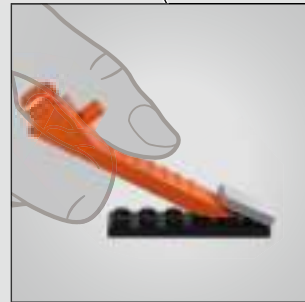
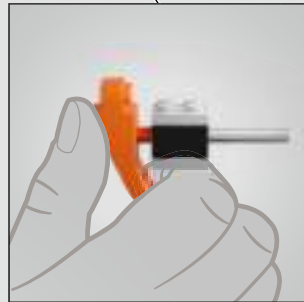
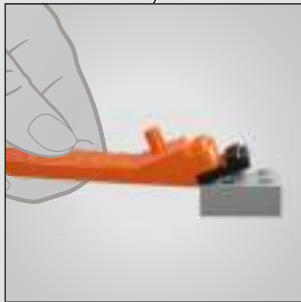
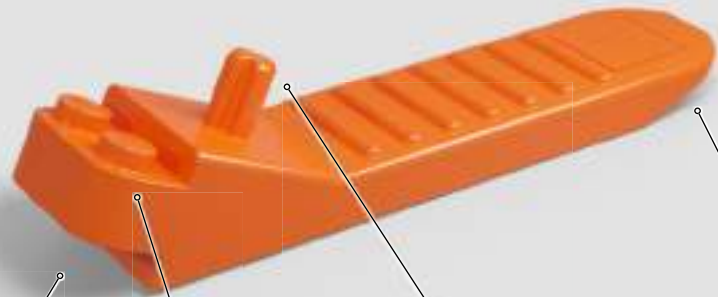
The Orion crew module will serve as the habitat for the crew while travelling to the Moon, and provide astronauts with food, water, oxygen and protection from hazards like space radiation.

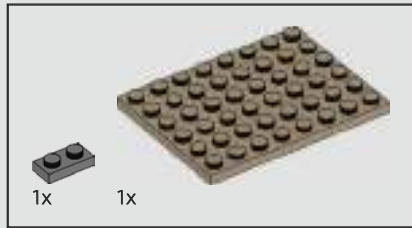
### EUROPEAN SERVICE MODULE

Orion's service module is the powerhouse of the spacecraft, supplying it with electricity, propulsion, thermal control and the air and water astronauts need in space. For more information please visit: [esa.int/esm](https://esa.int/esm)

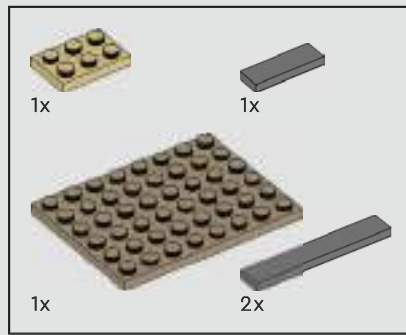
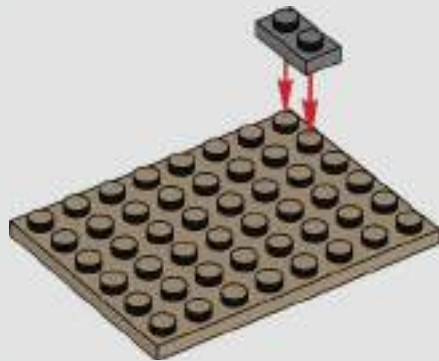
### SOLID ROCKET BOOSTERS

In real life, the SLS solid rocket boosters are the first element to be installed on the mobile launcher. When loaded with propellant, each booster weighs 726 metric tons (1.6 million pounds)!

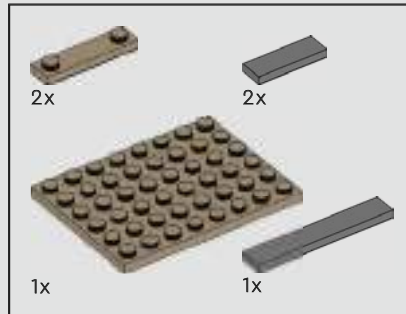
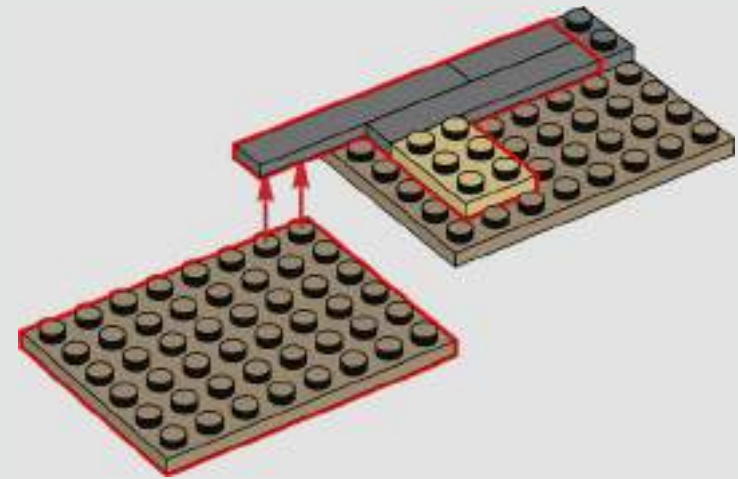




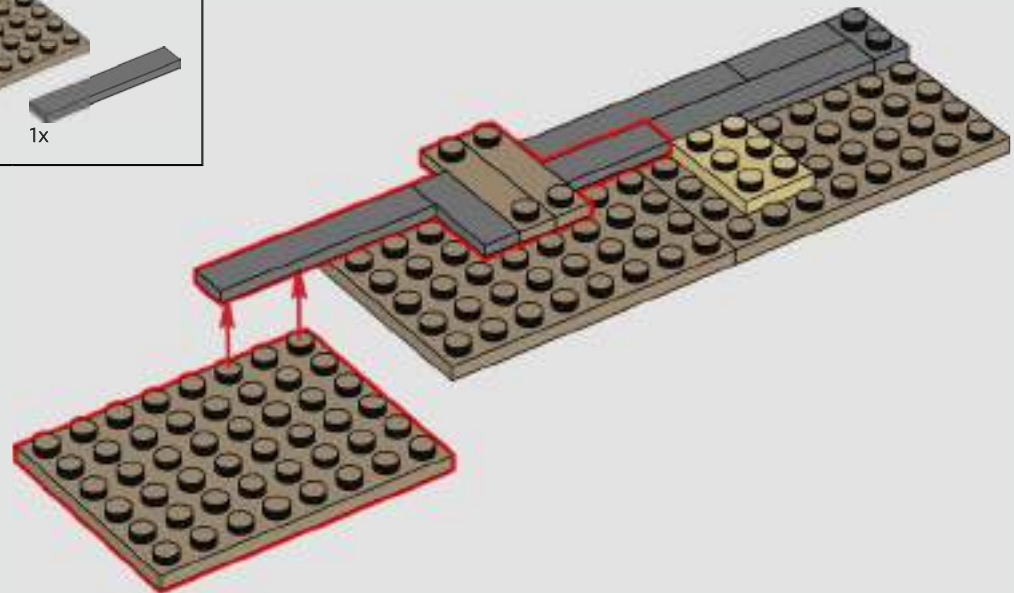
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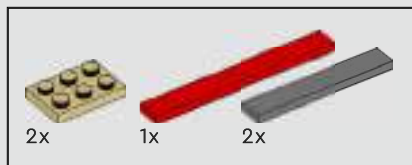


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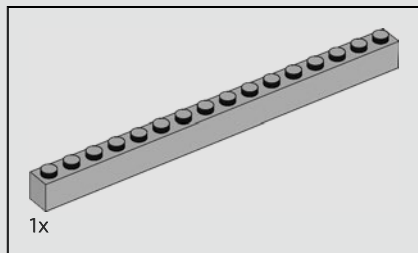
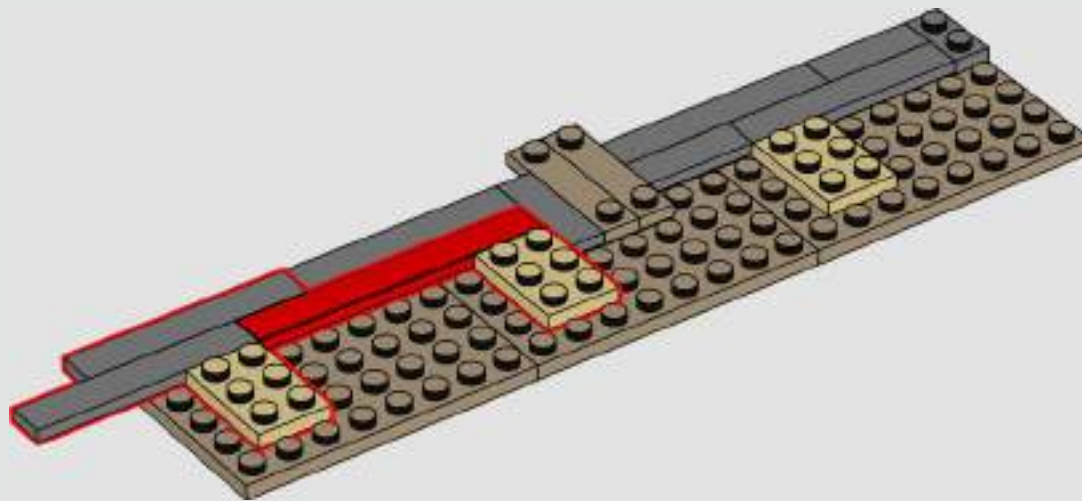


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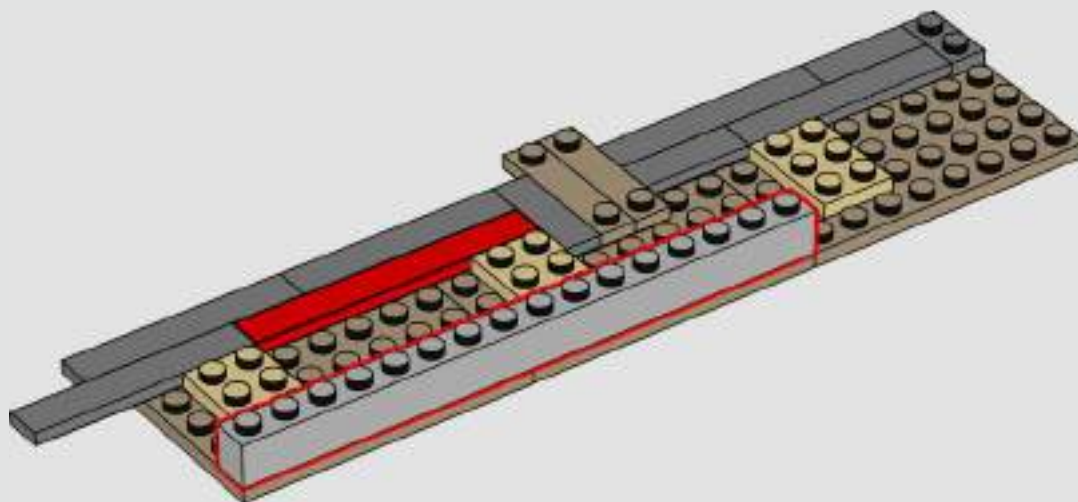




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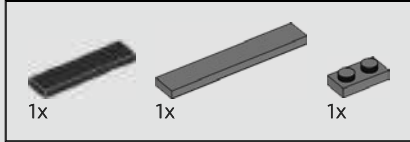
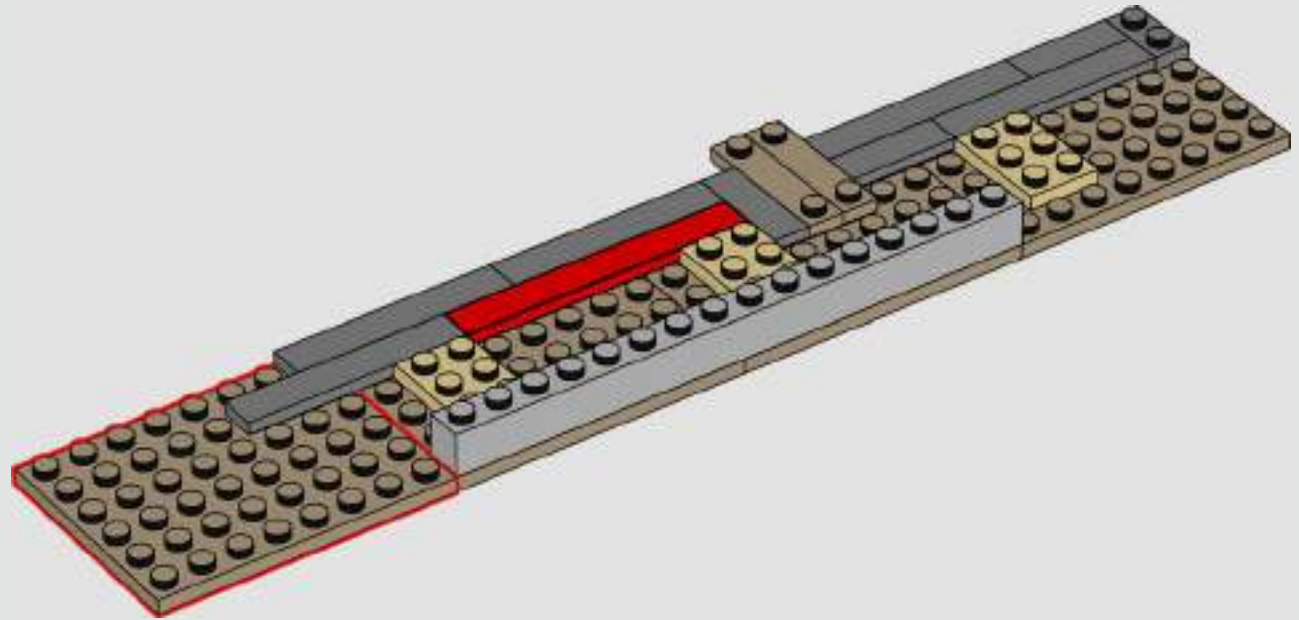


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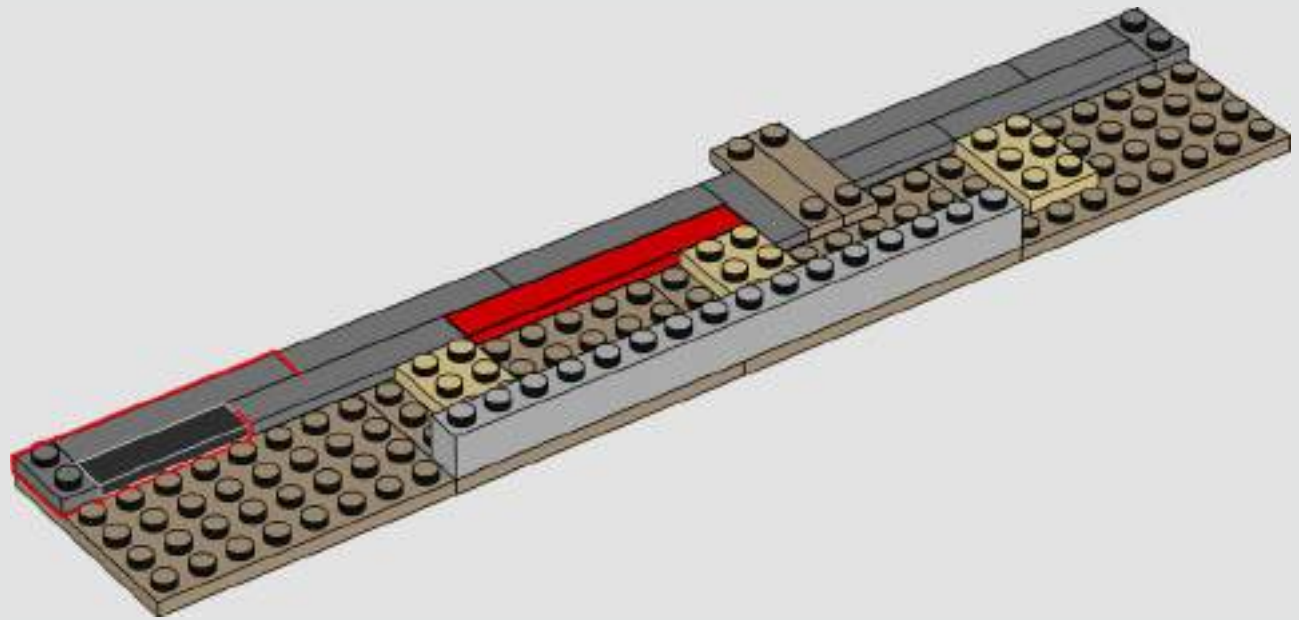


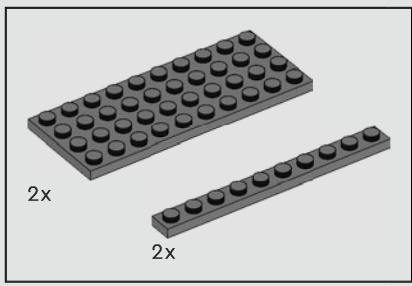


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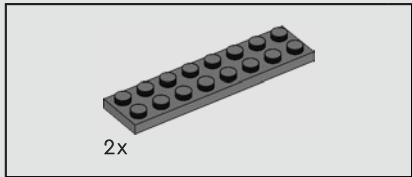
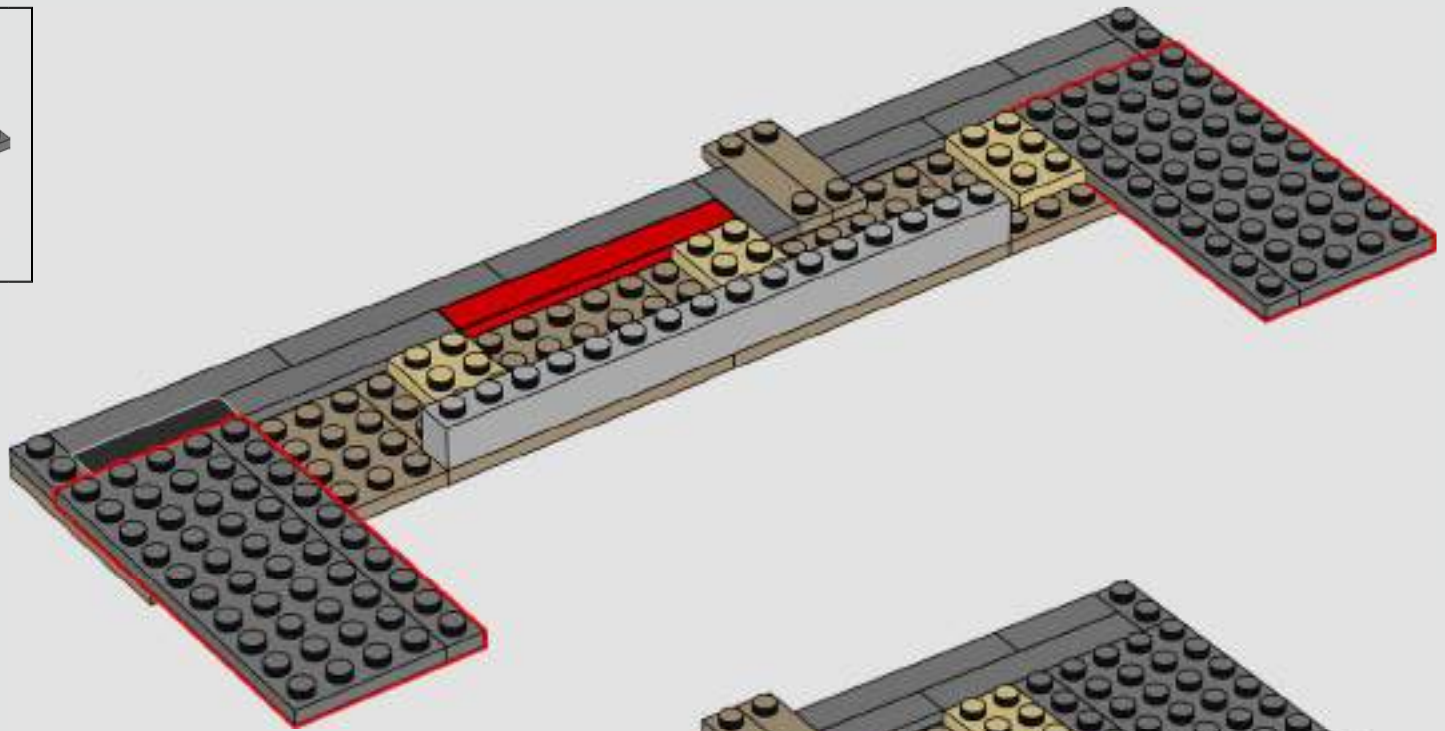


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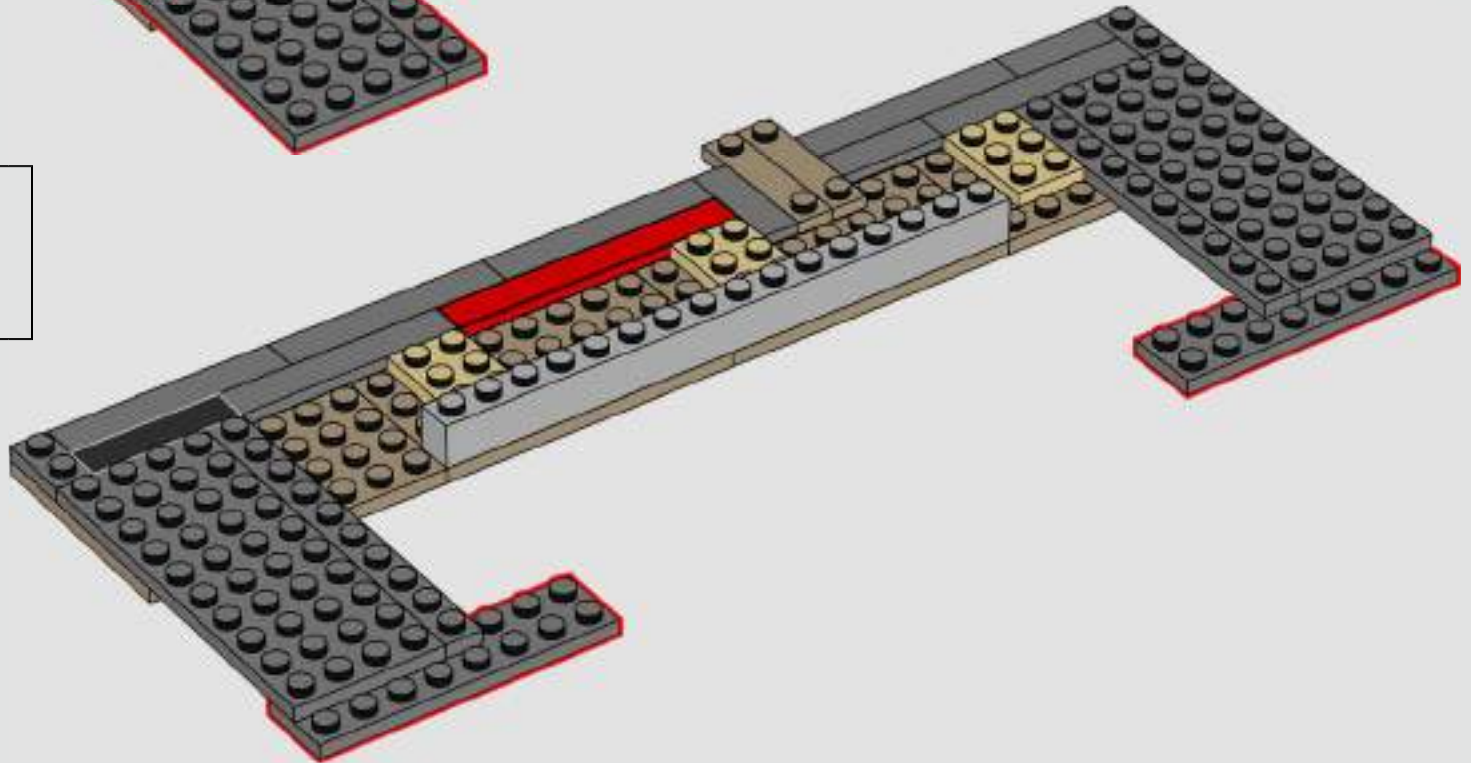


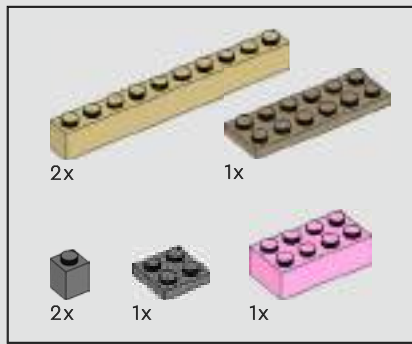


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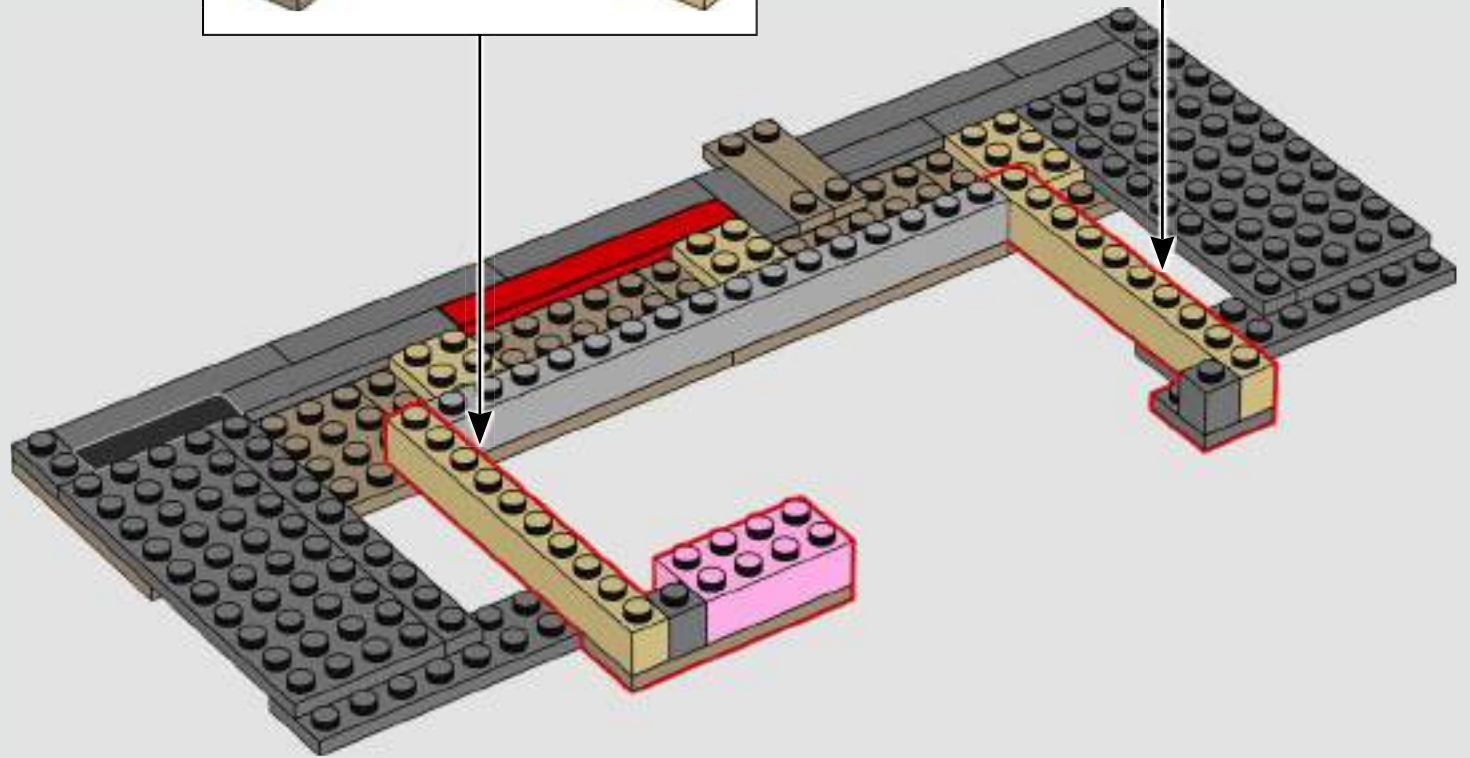
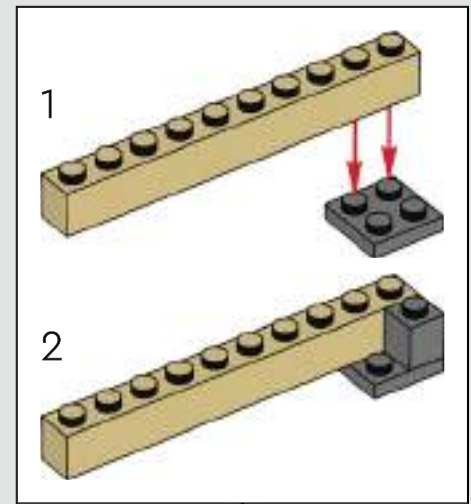
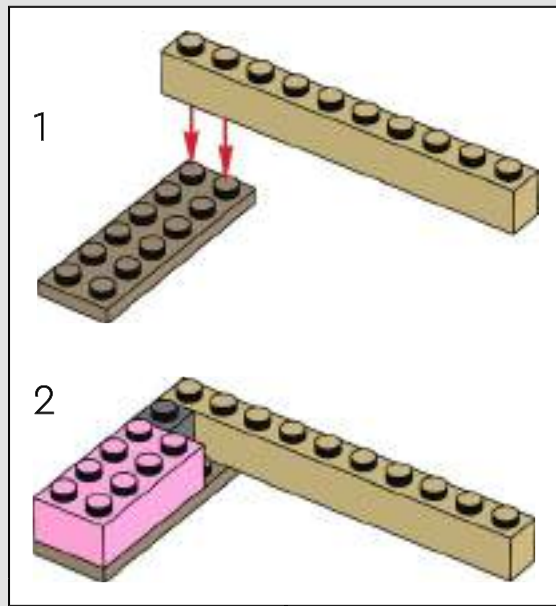


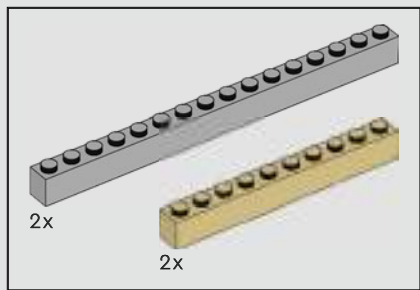
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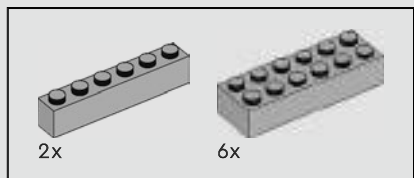
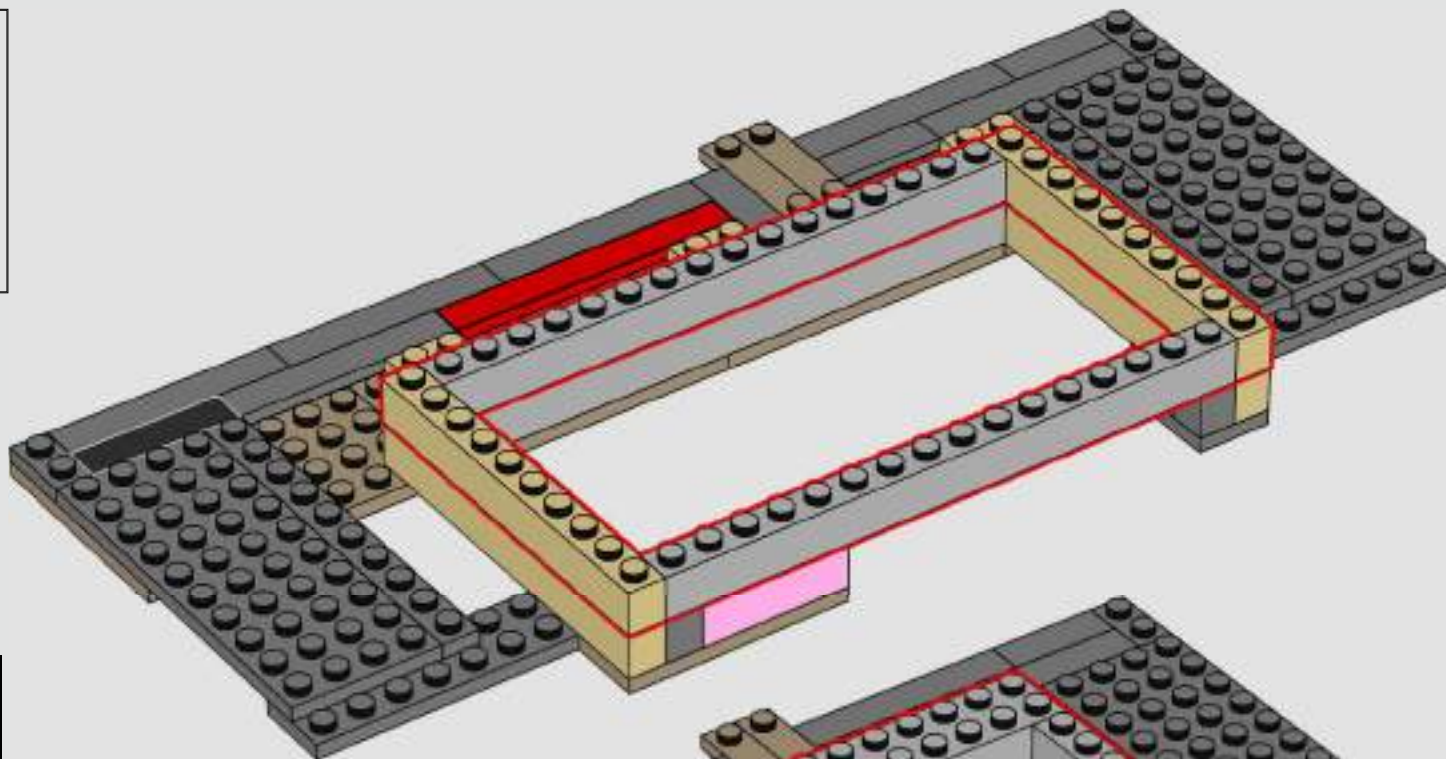


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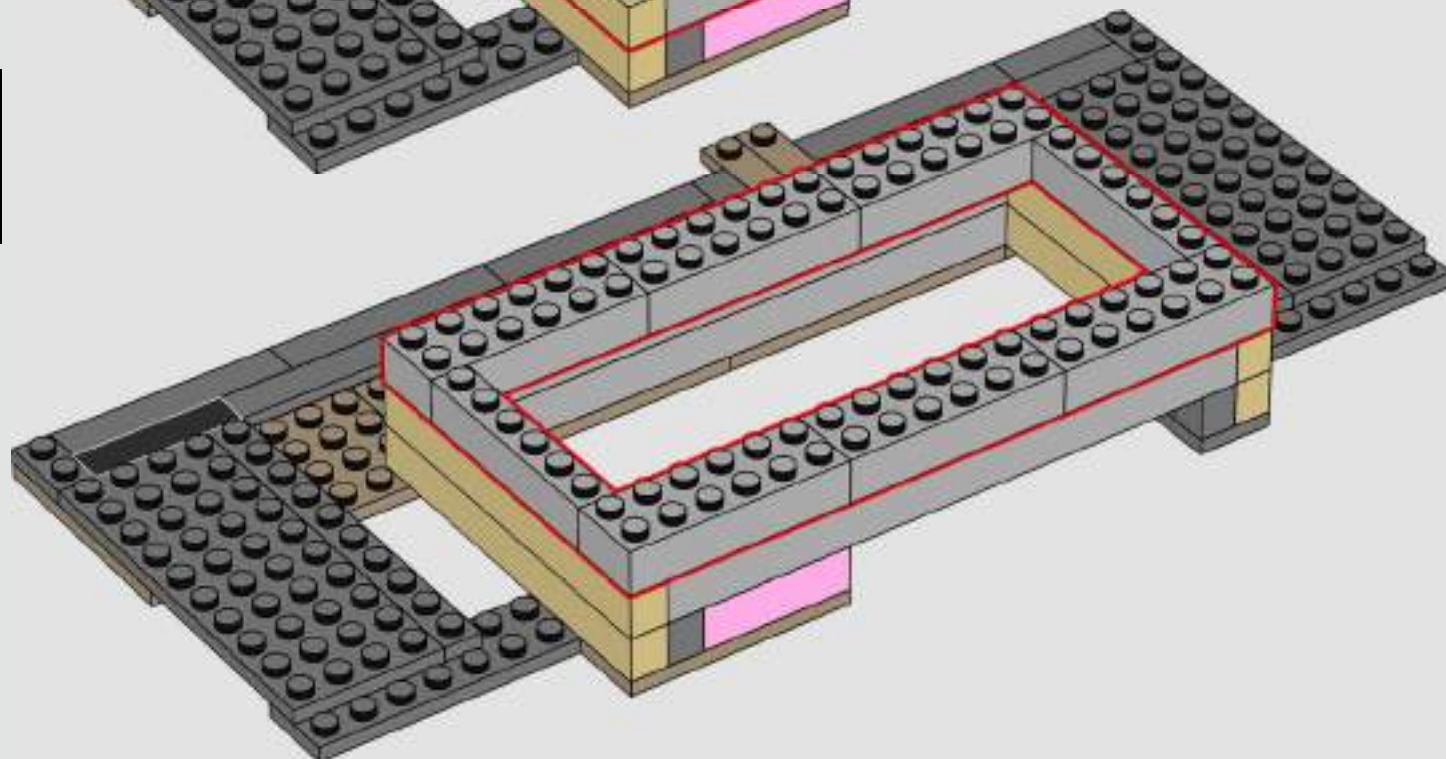


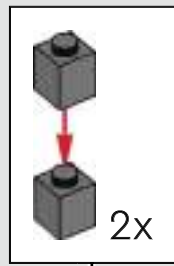
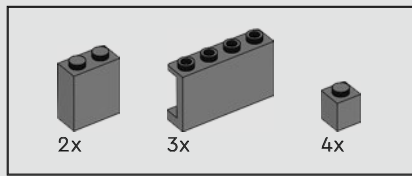


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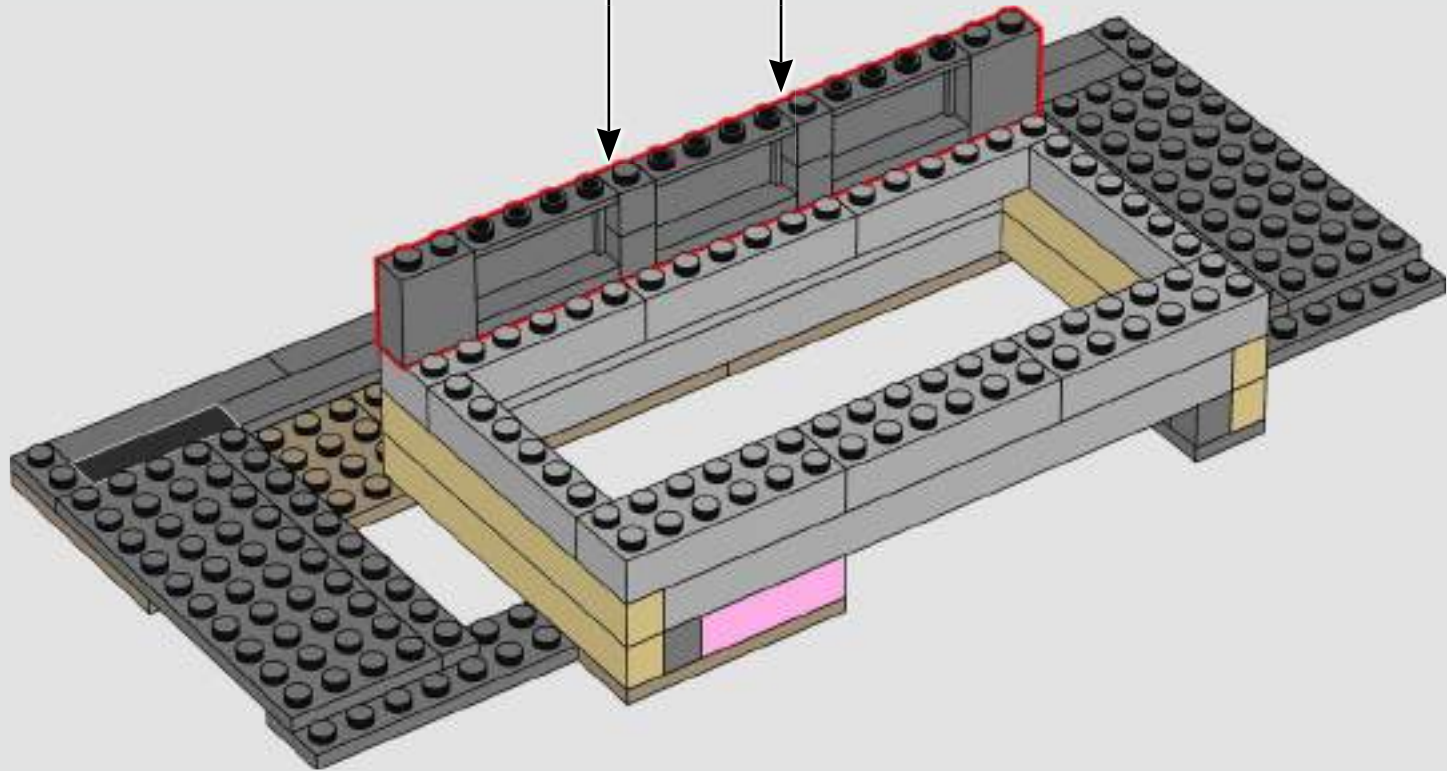


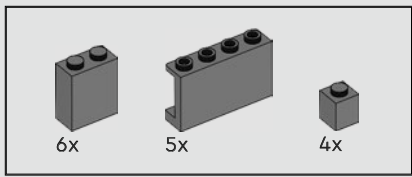
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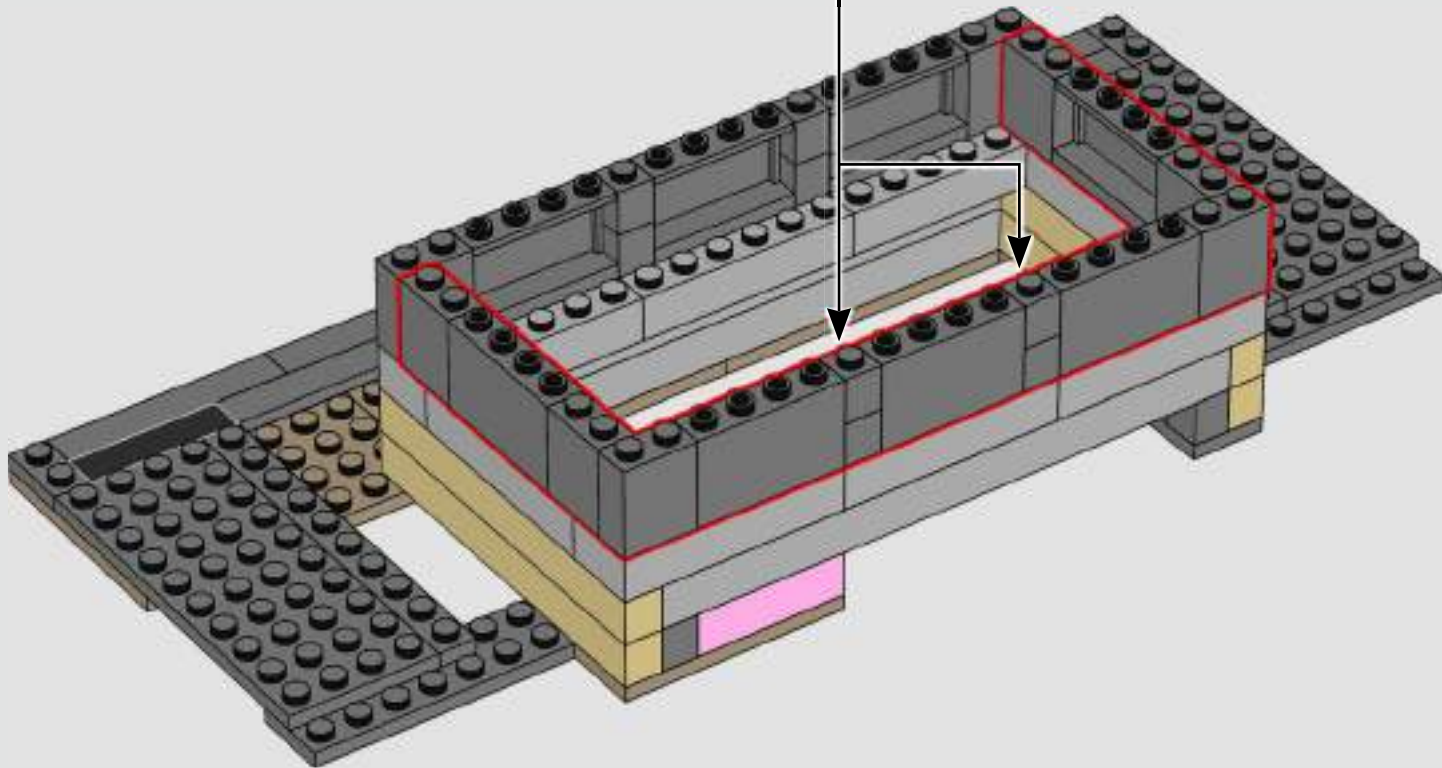
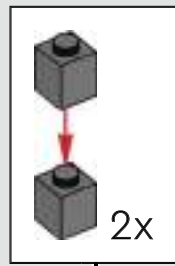


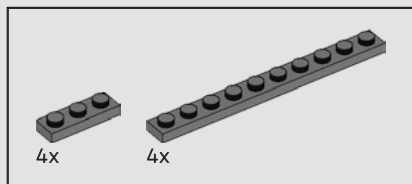
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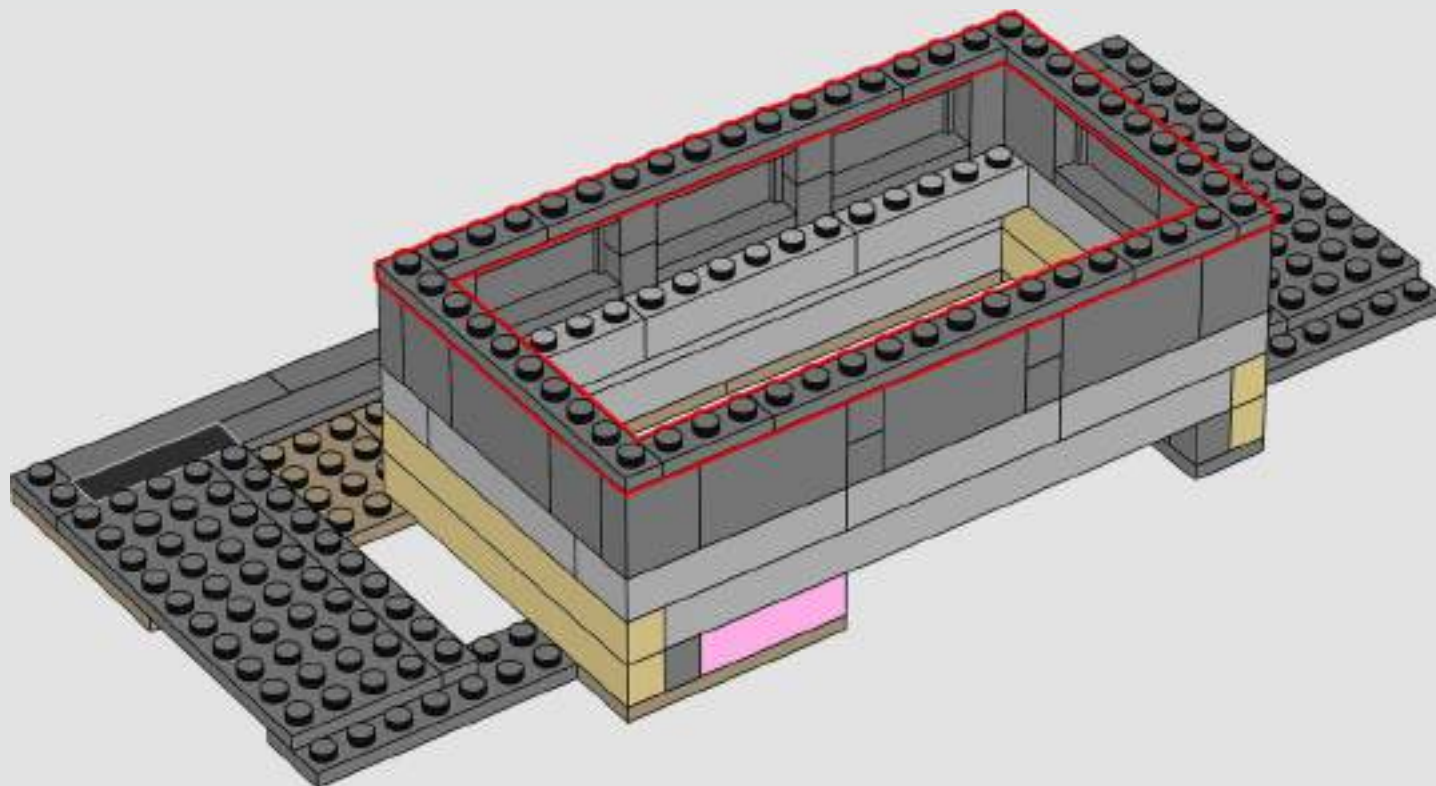


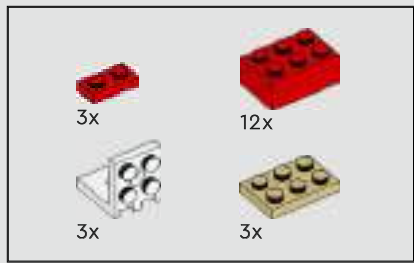
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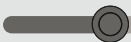
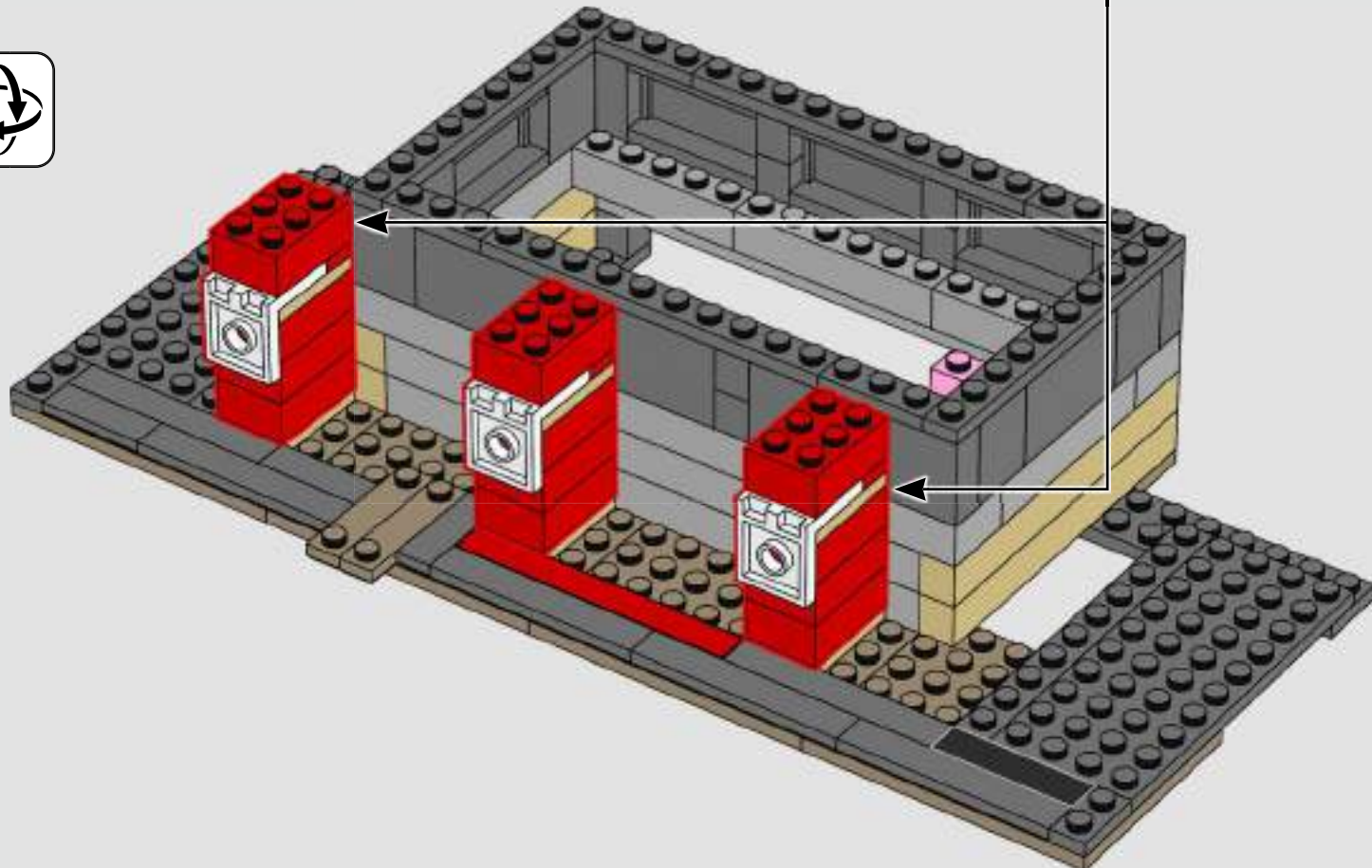
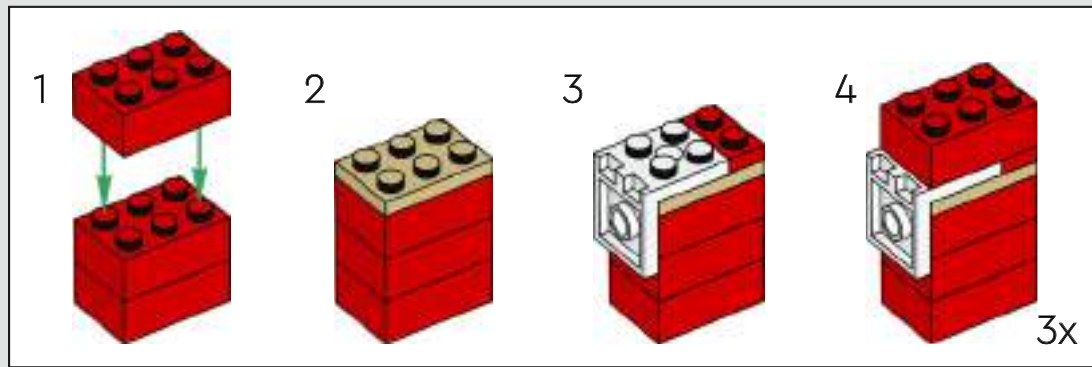


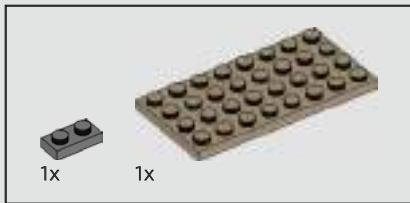
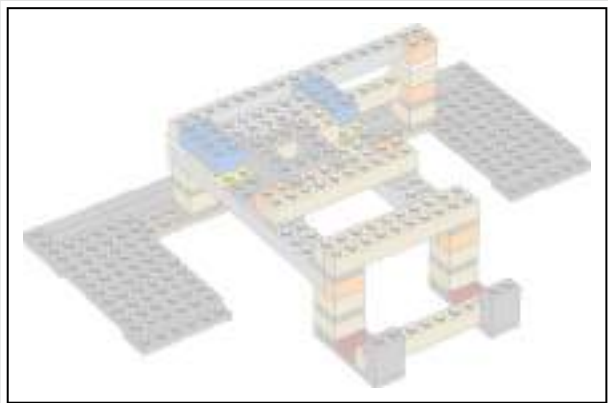
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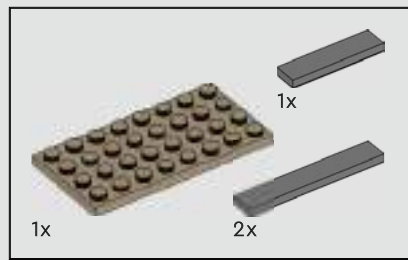
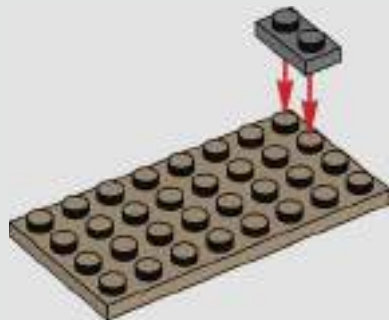


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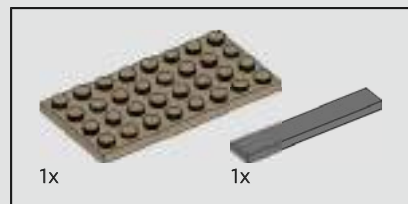
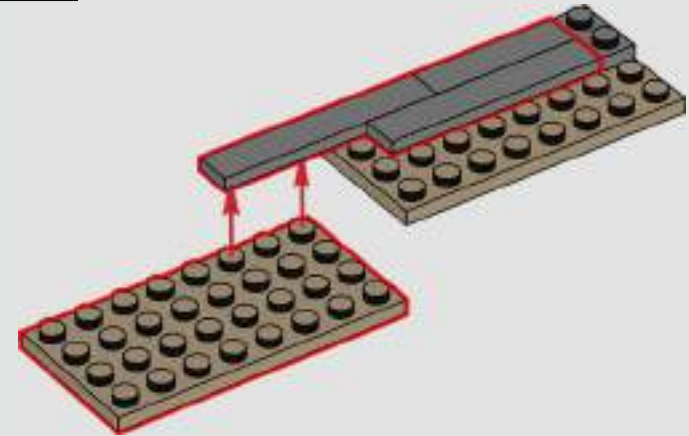




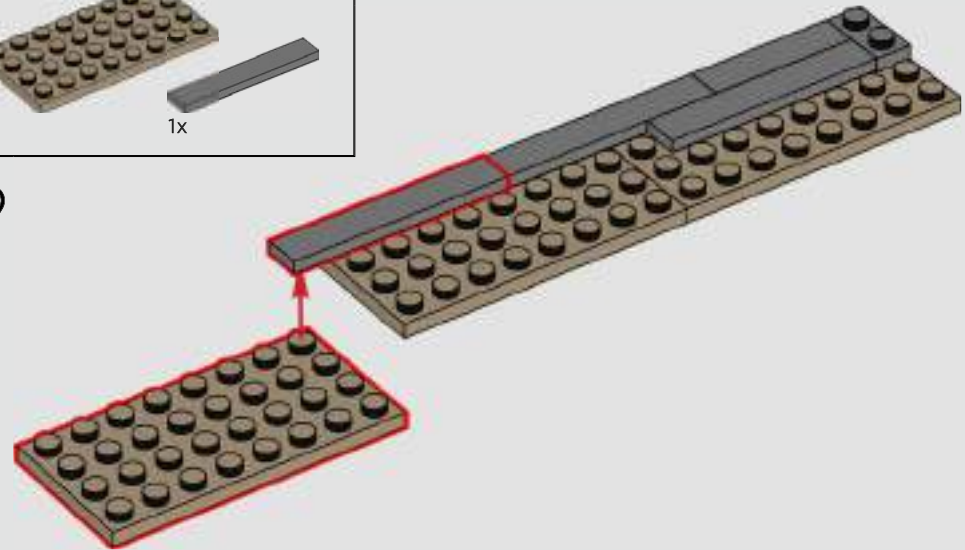
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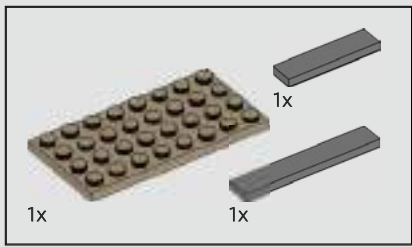


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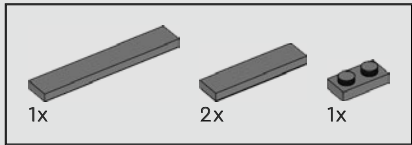
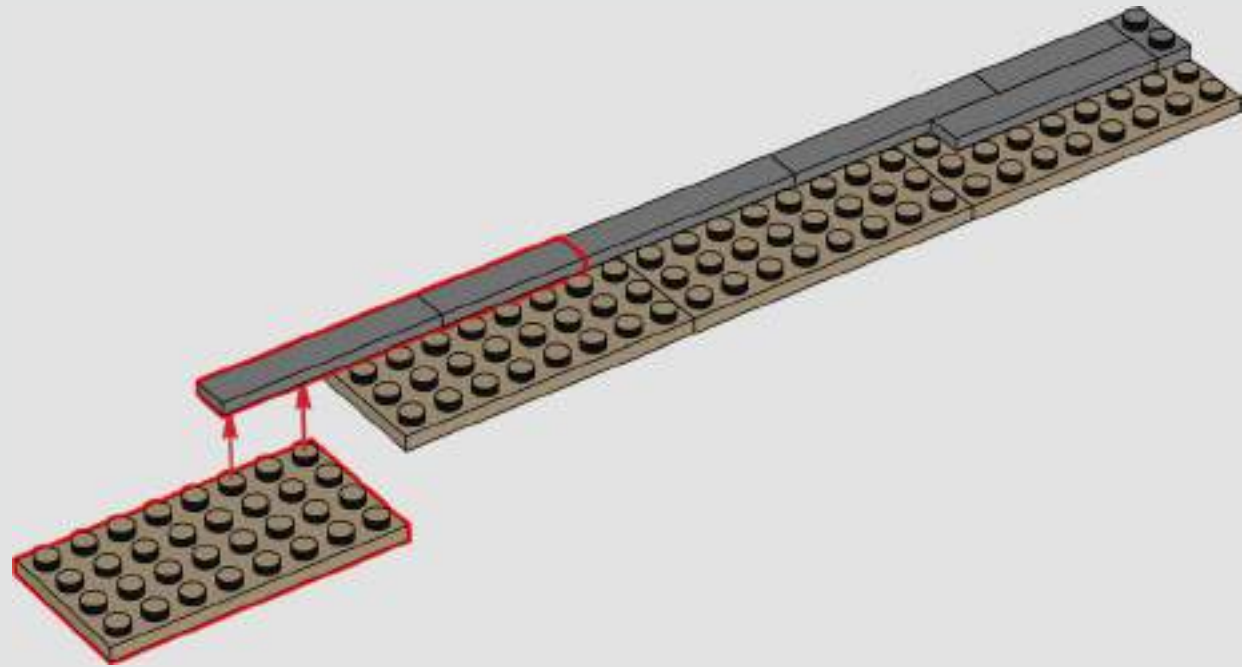


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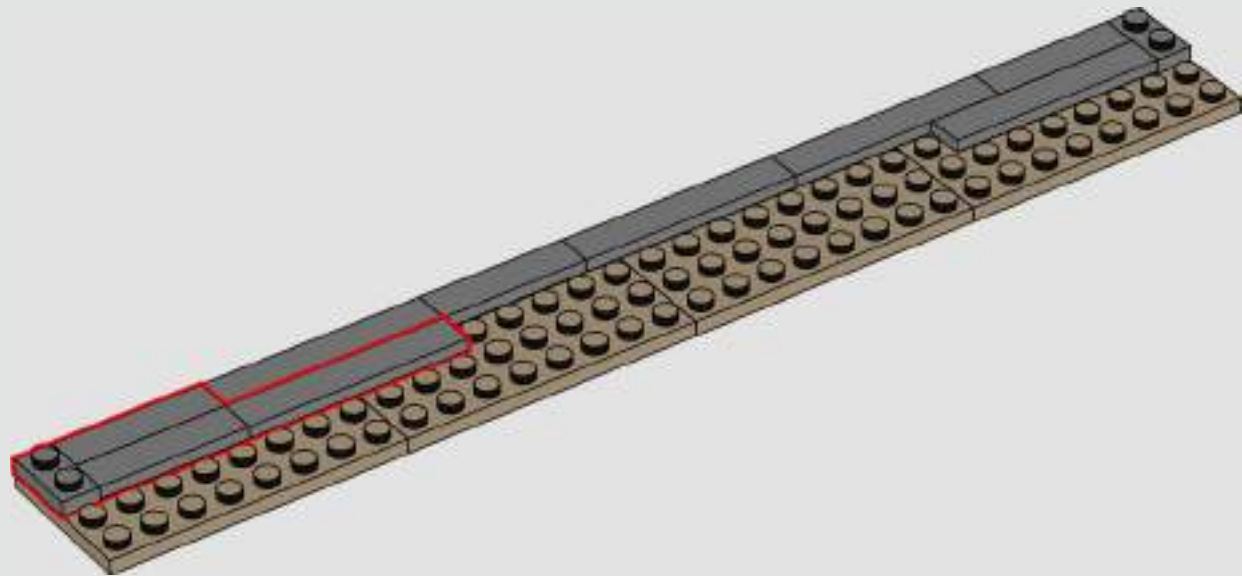


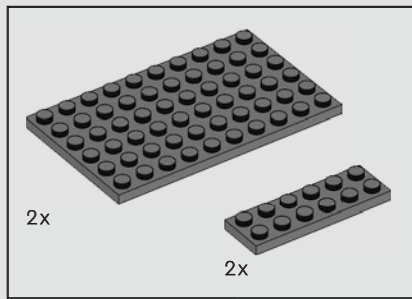


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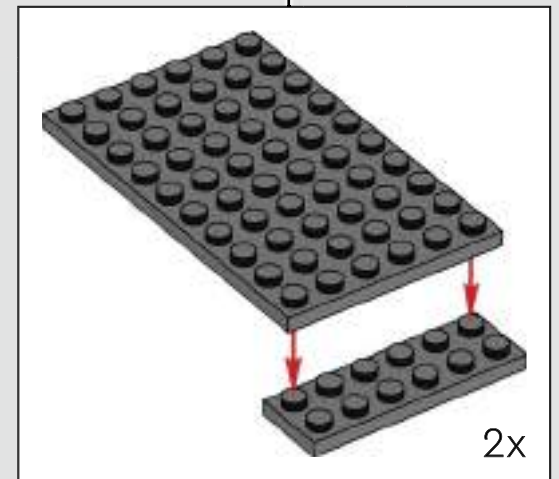
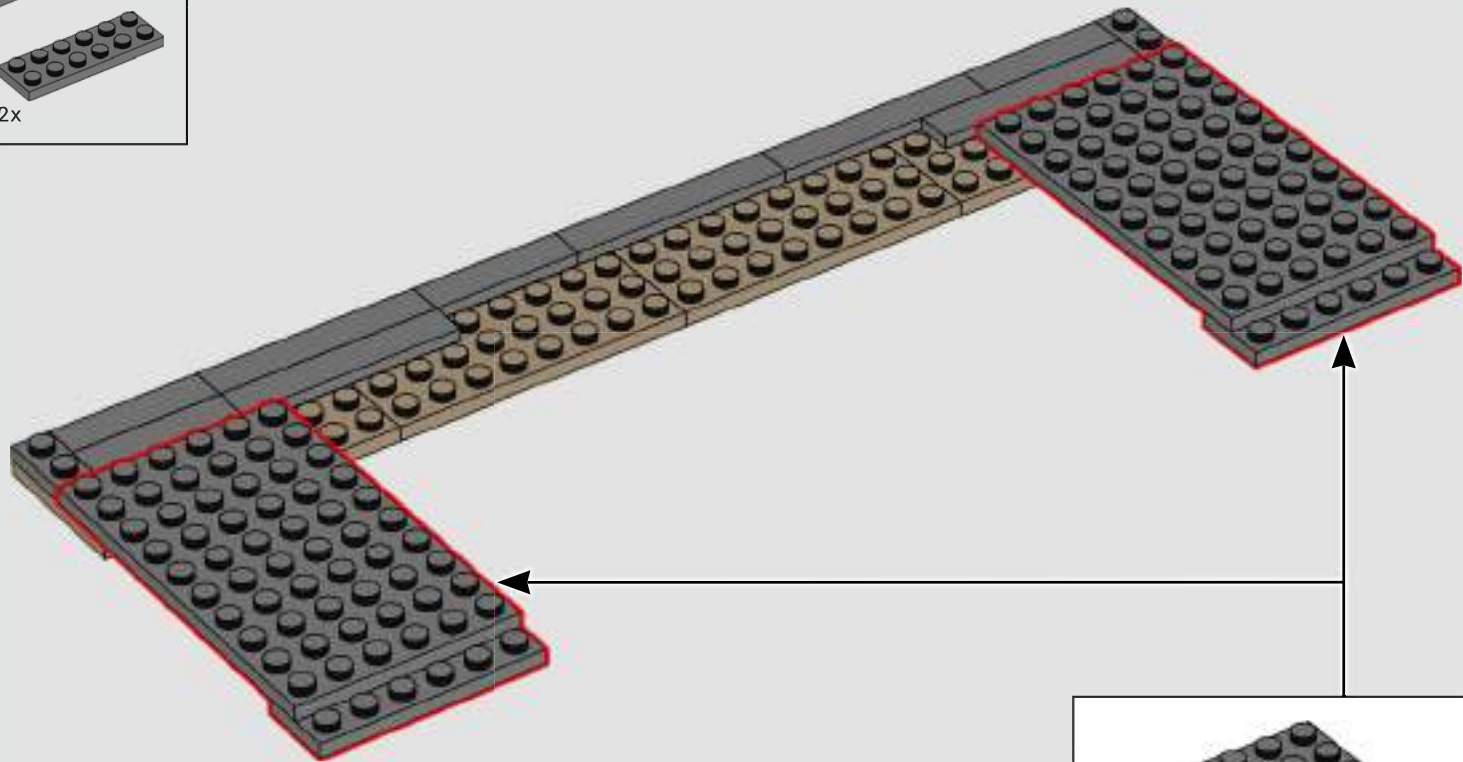


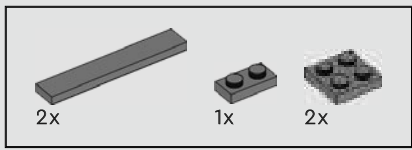
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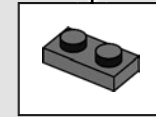
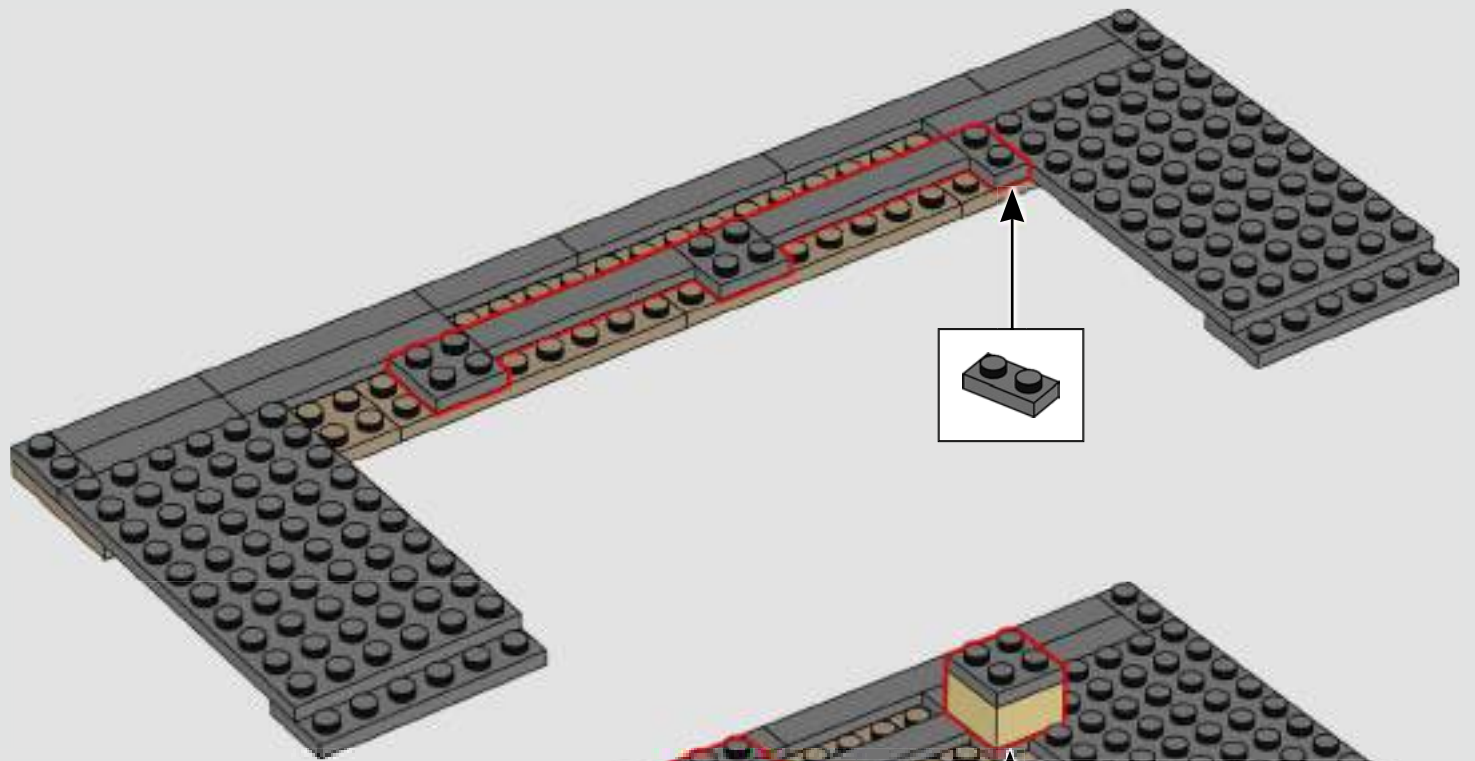


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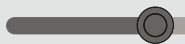
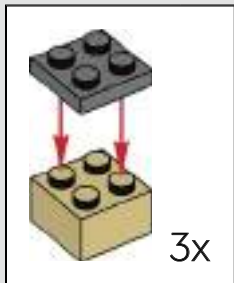
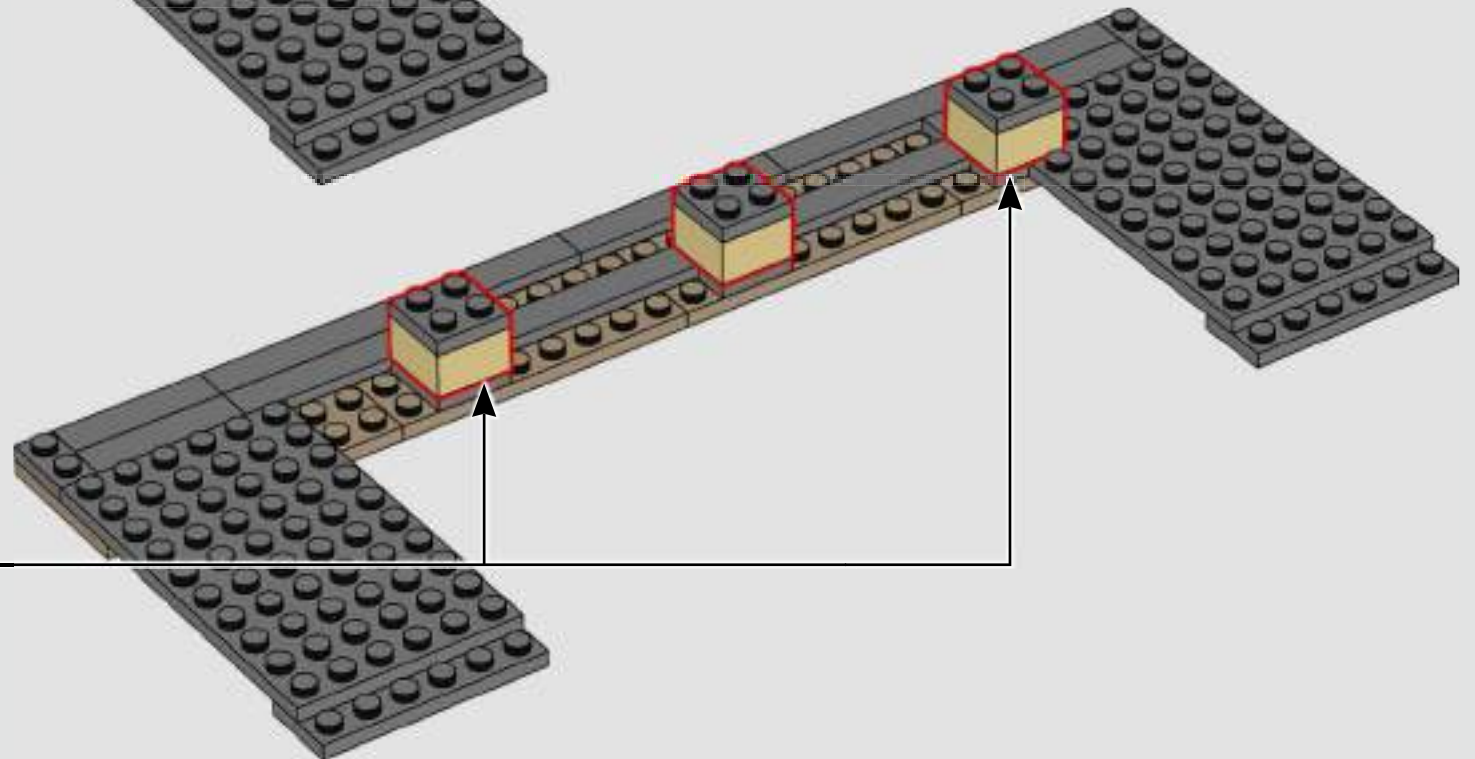


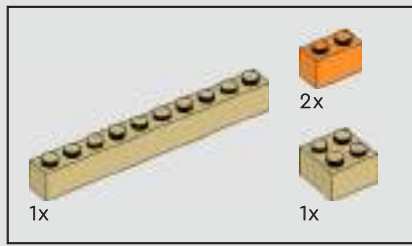


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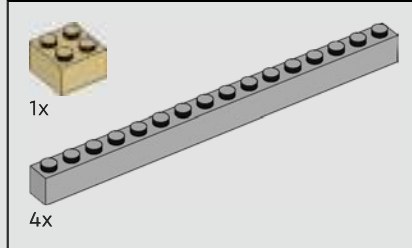
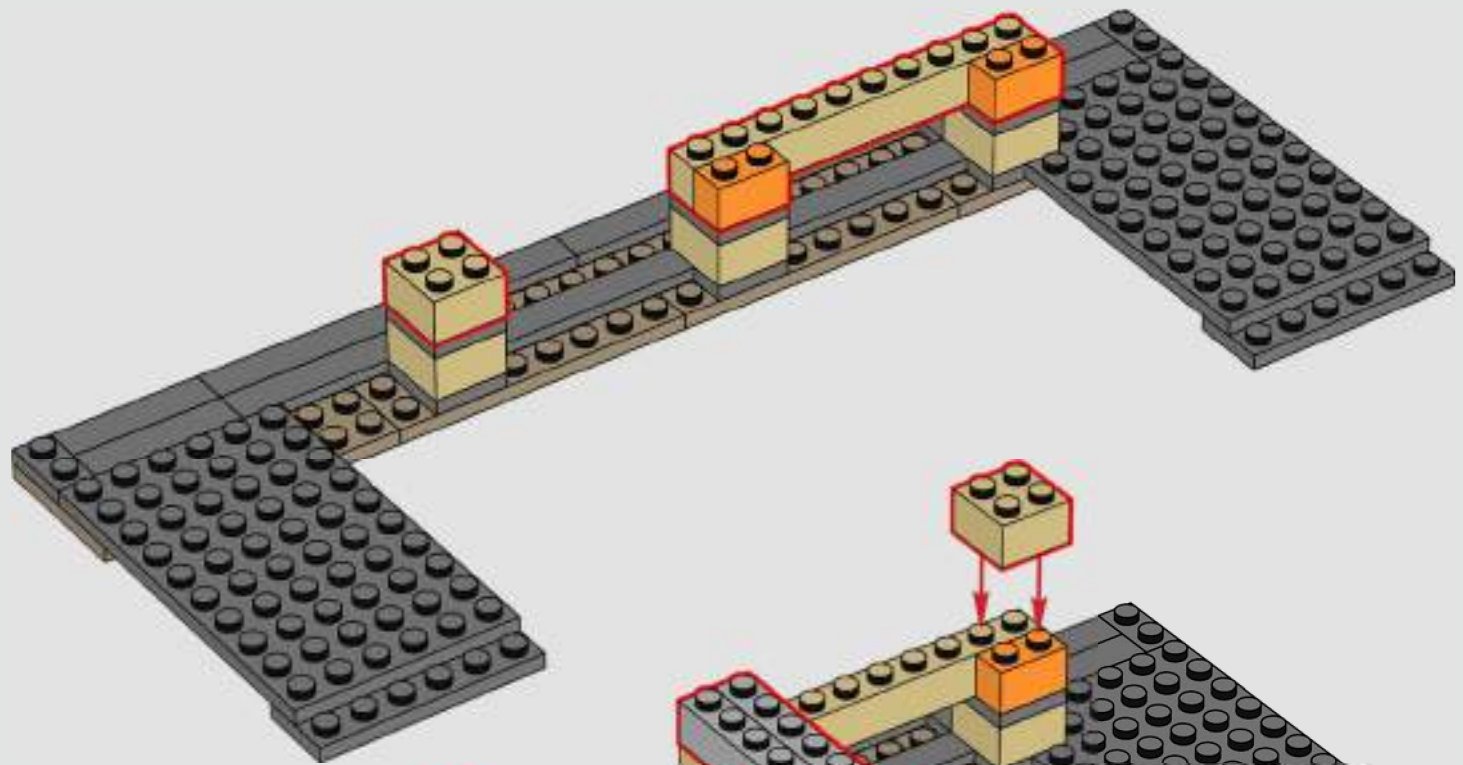


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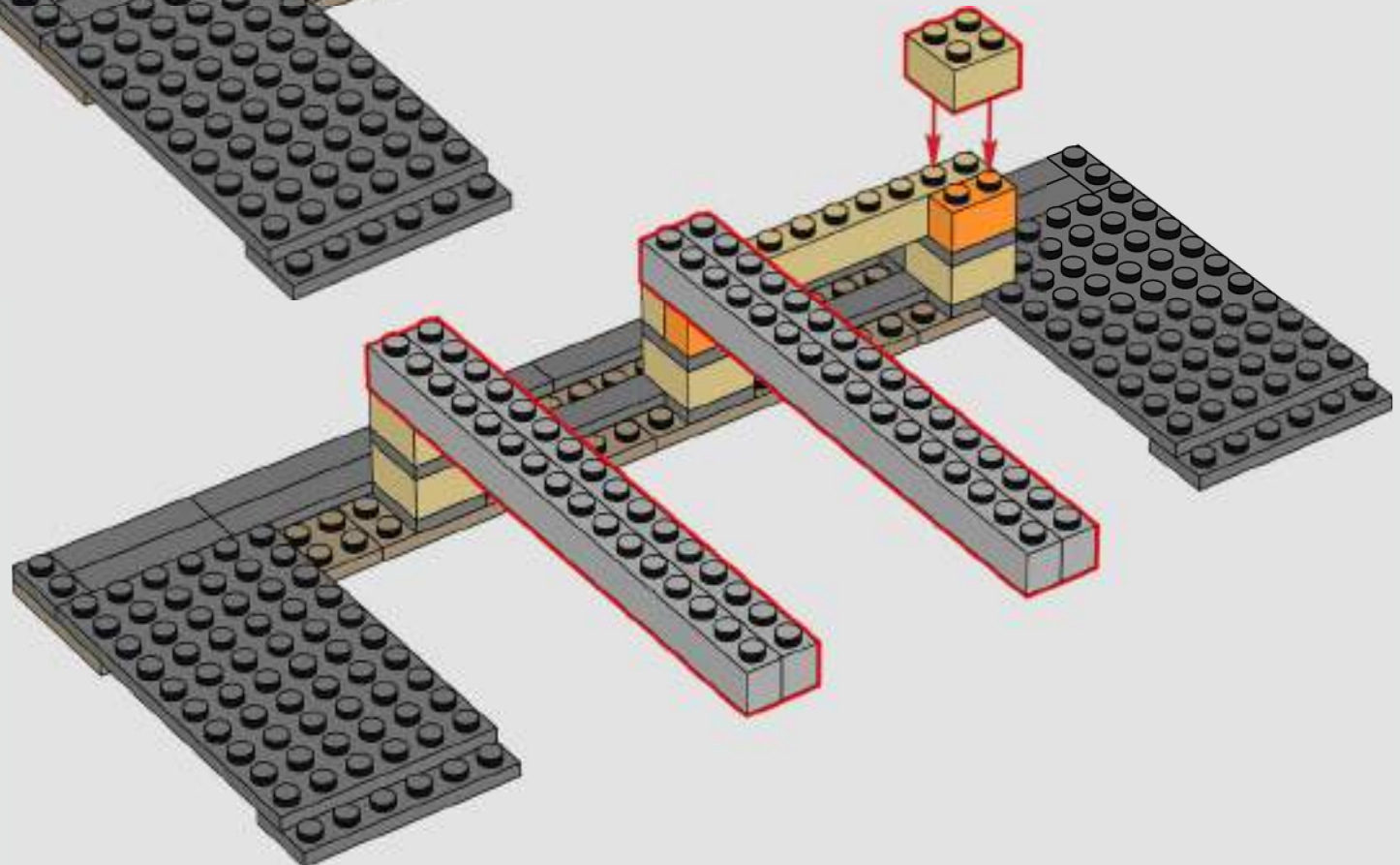


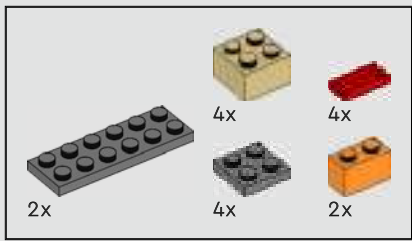


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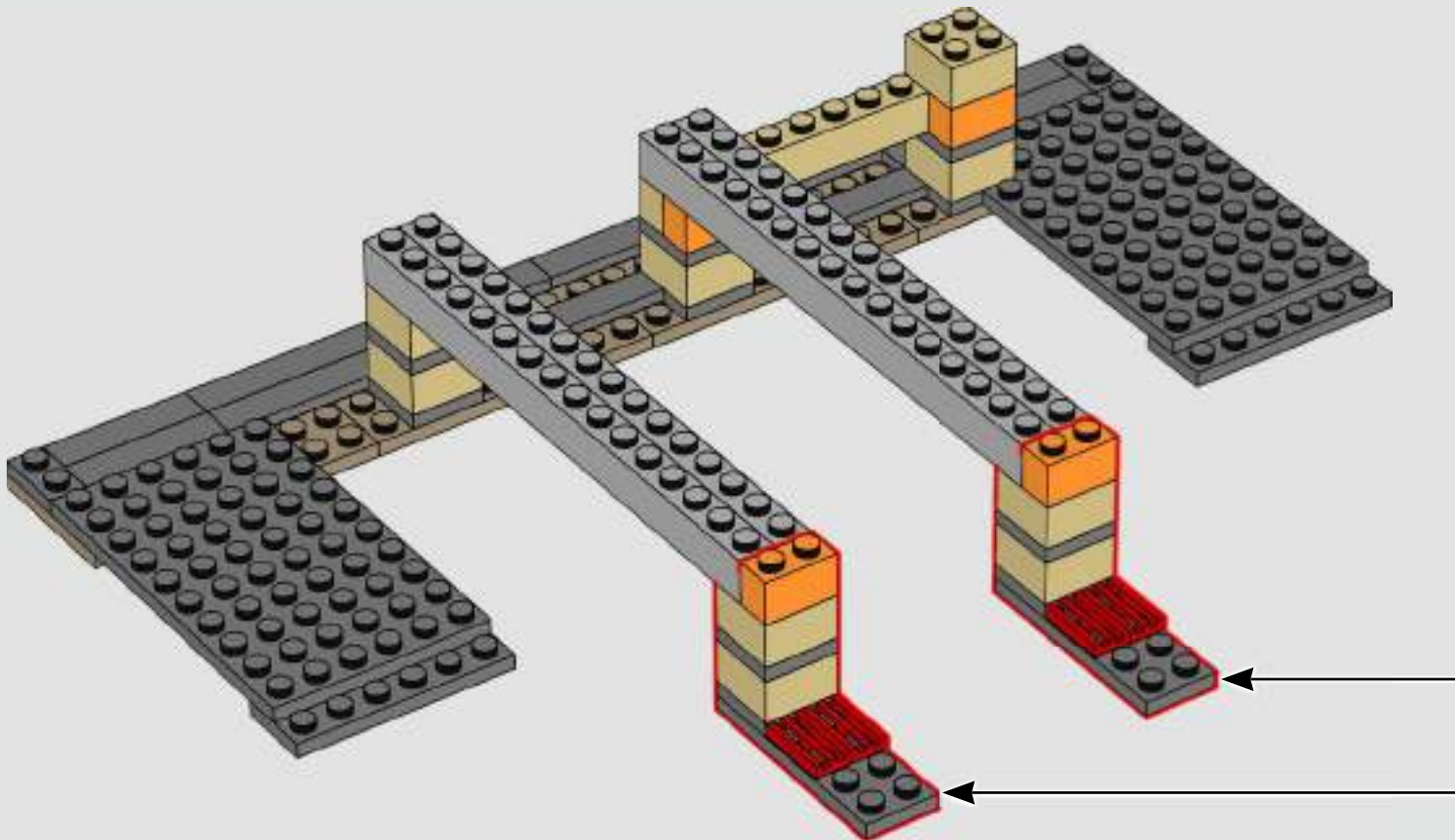
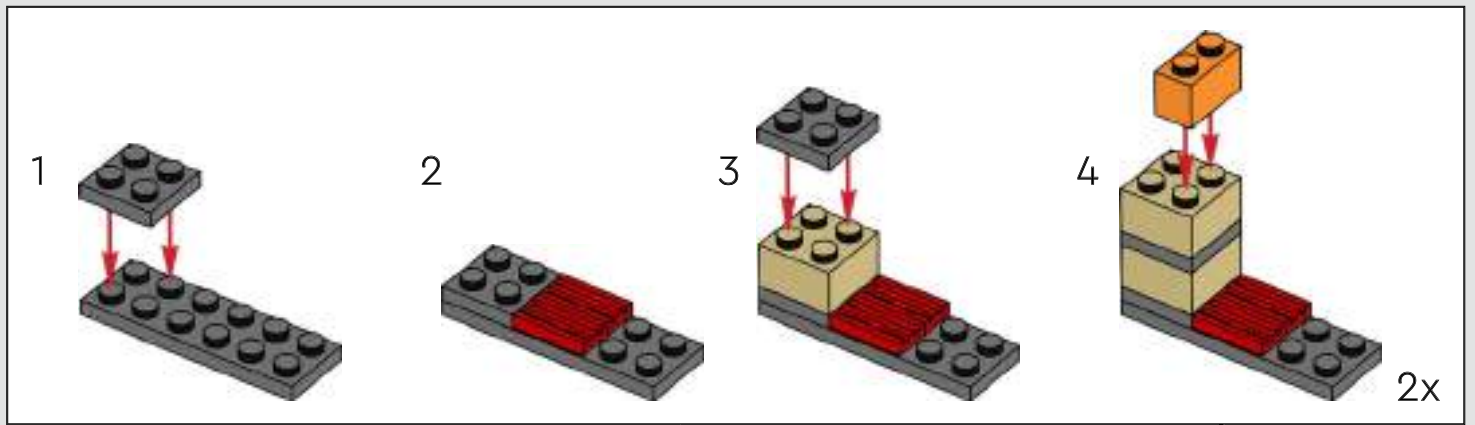


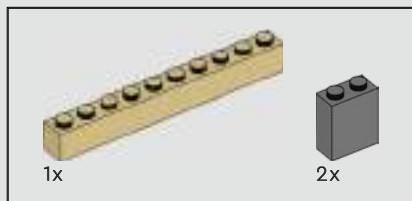
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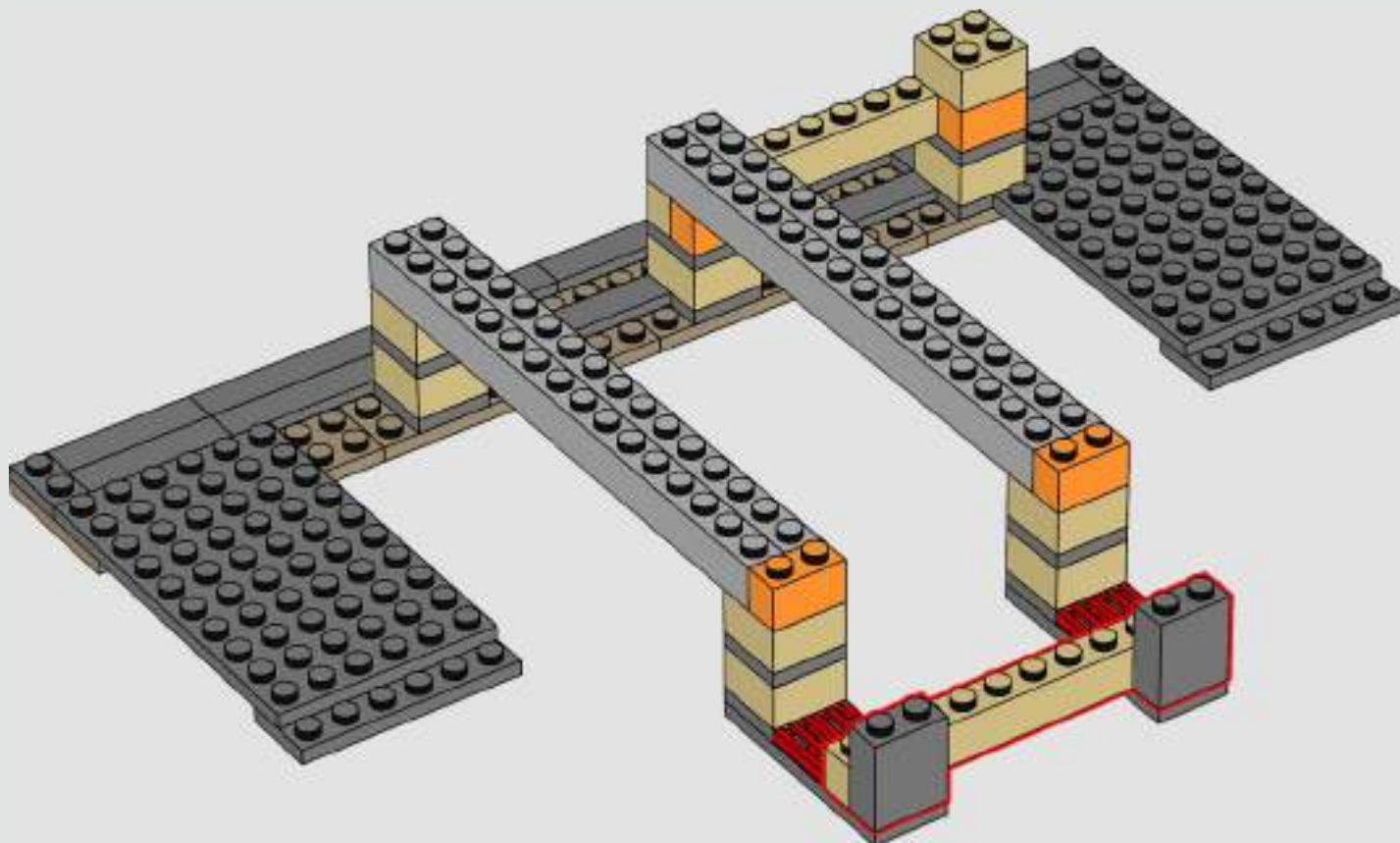


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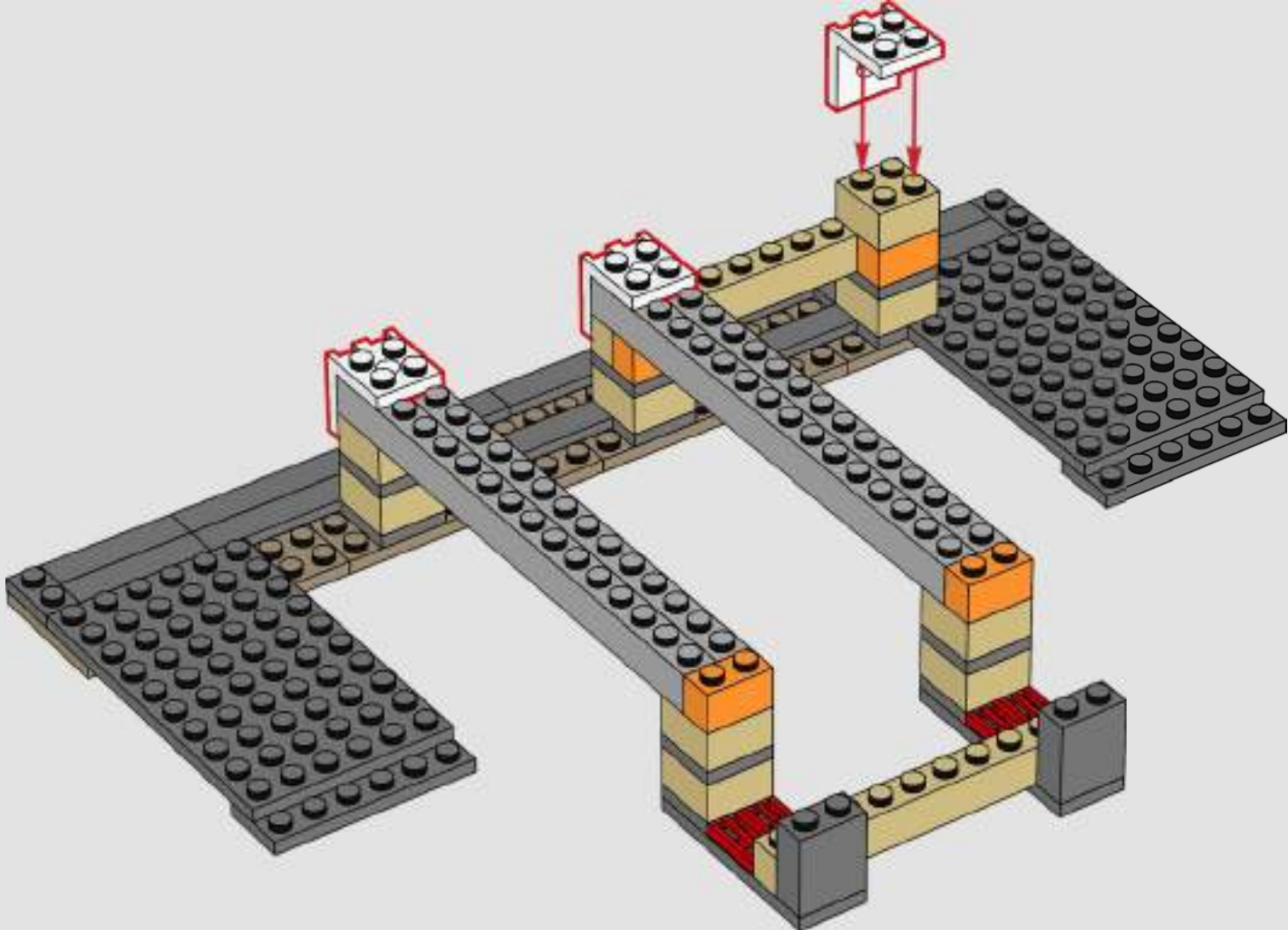


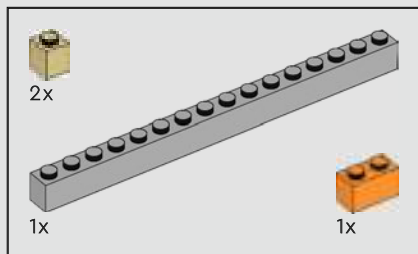
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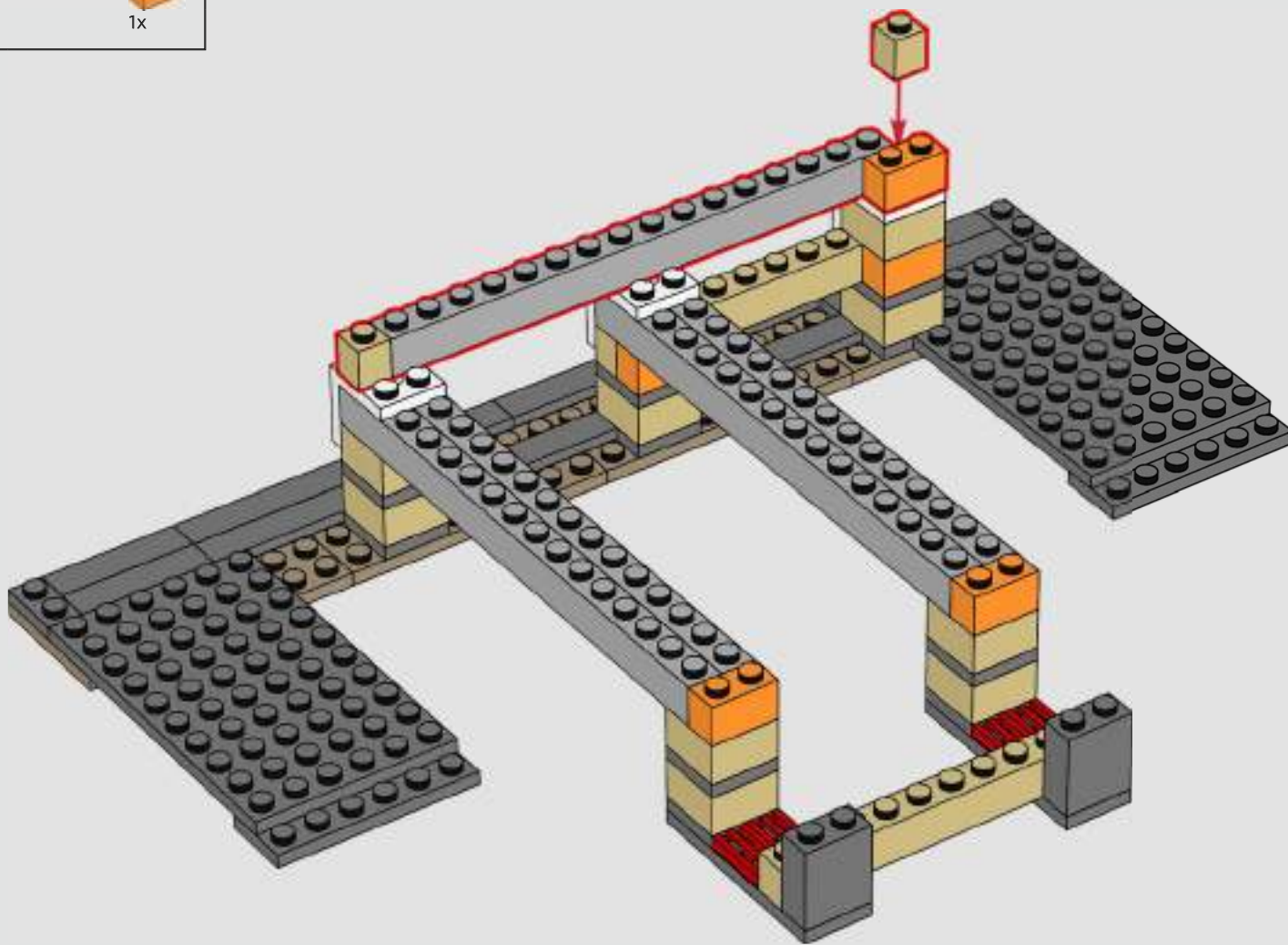


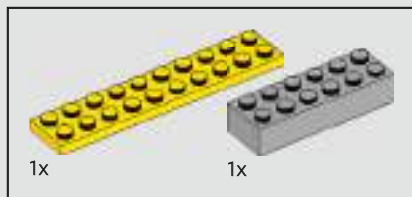
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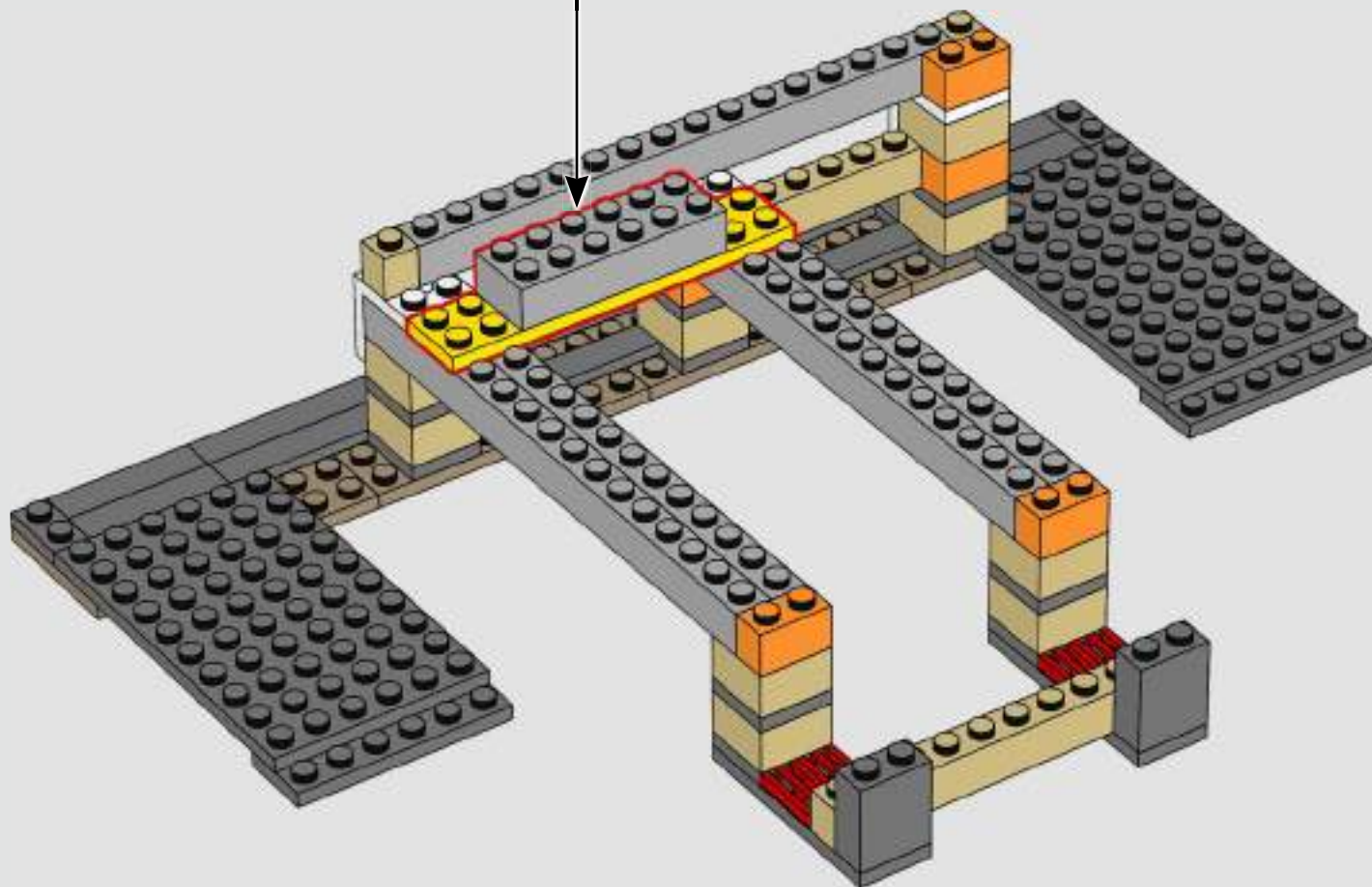
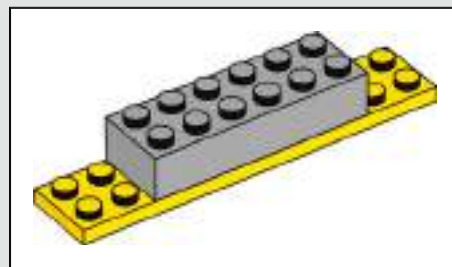


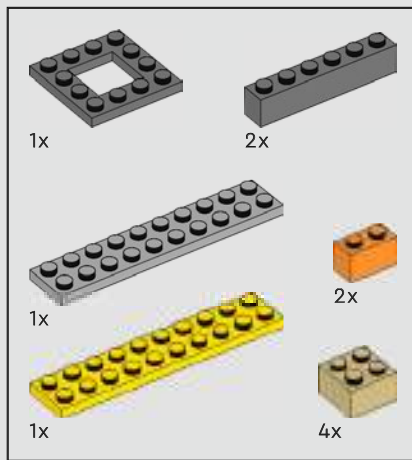
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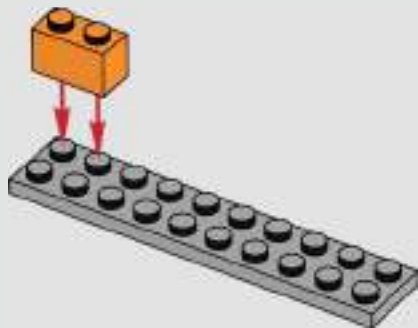
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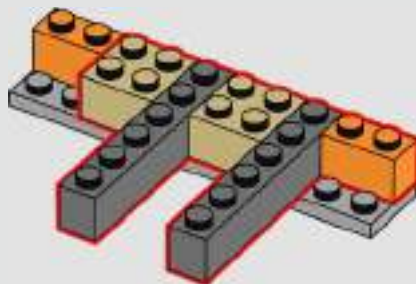


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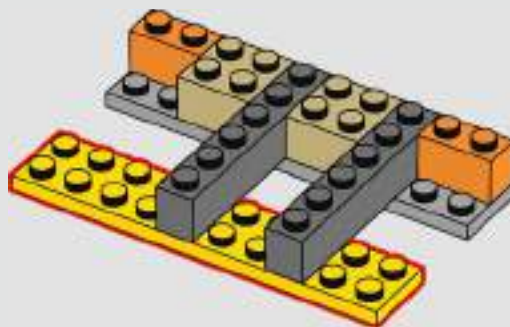
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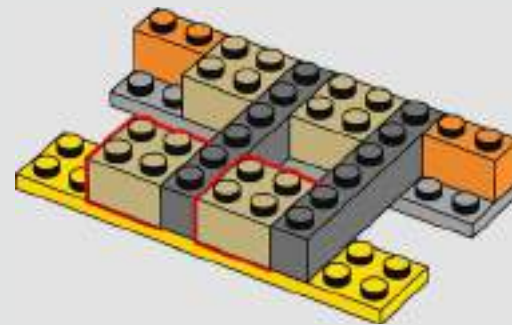
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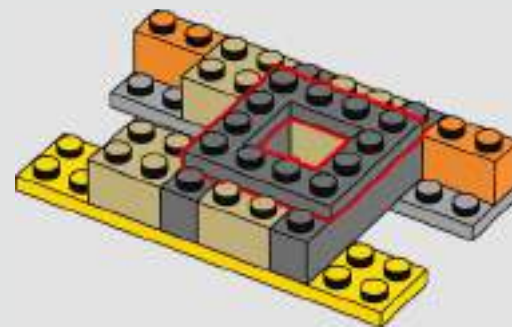
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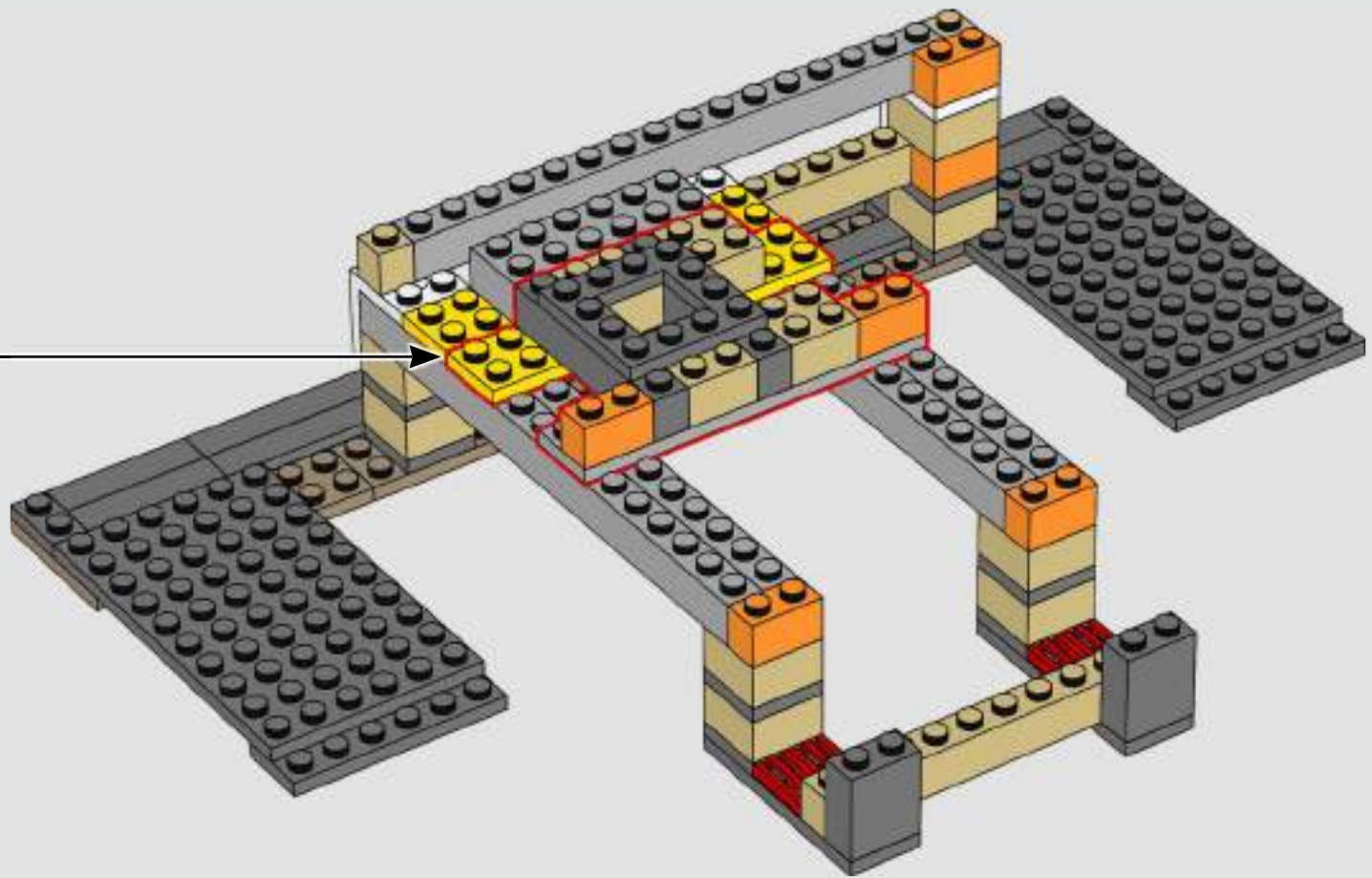


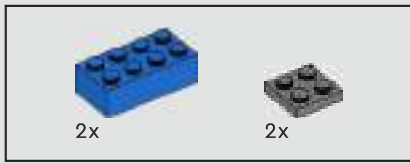
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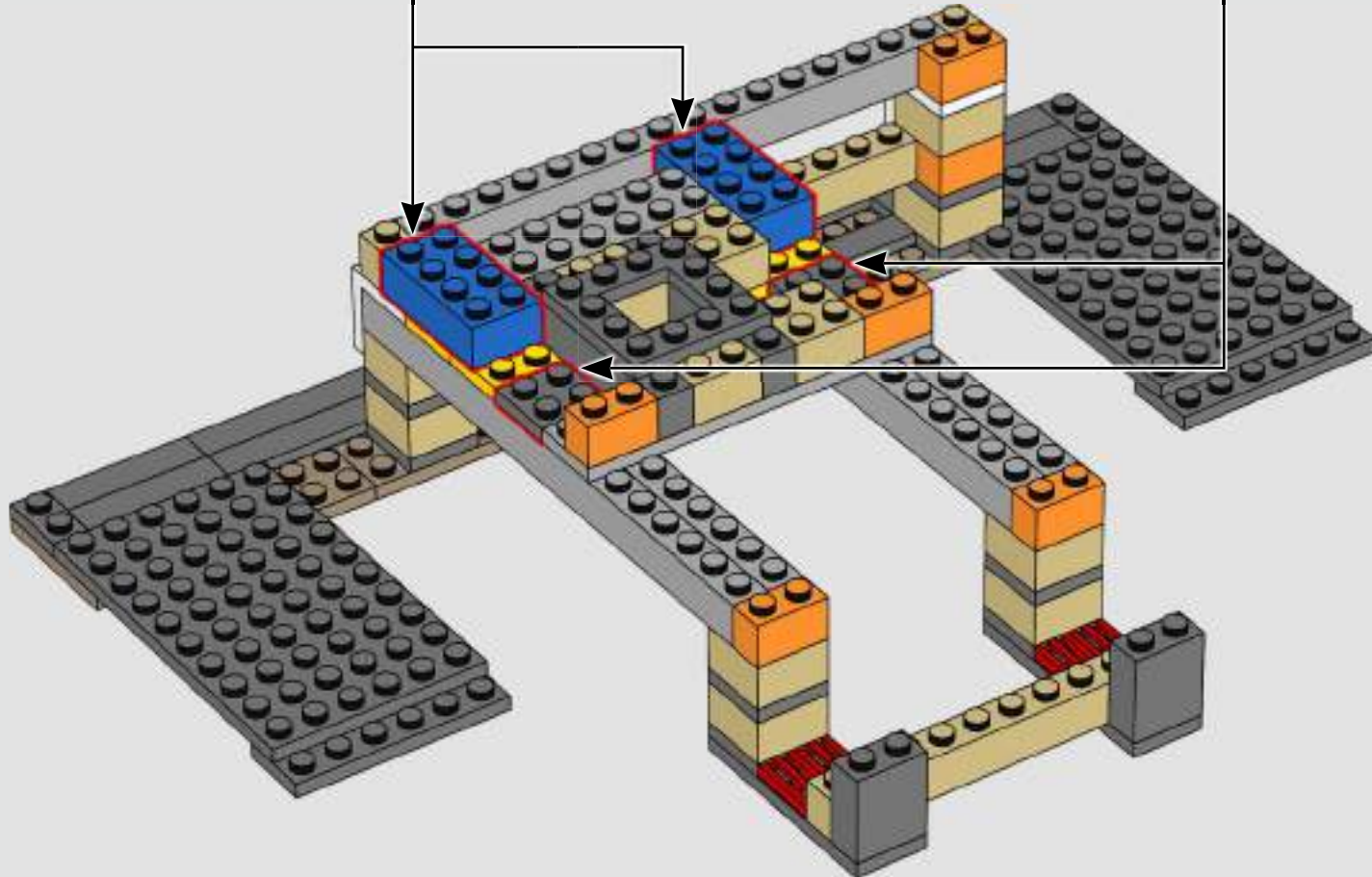
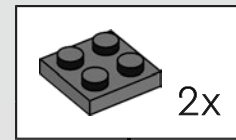
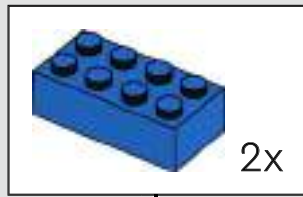
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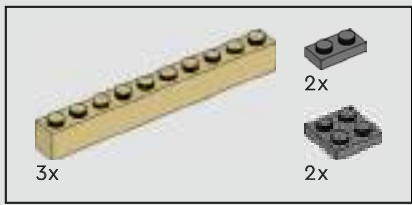




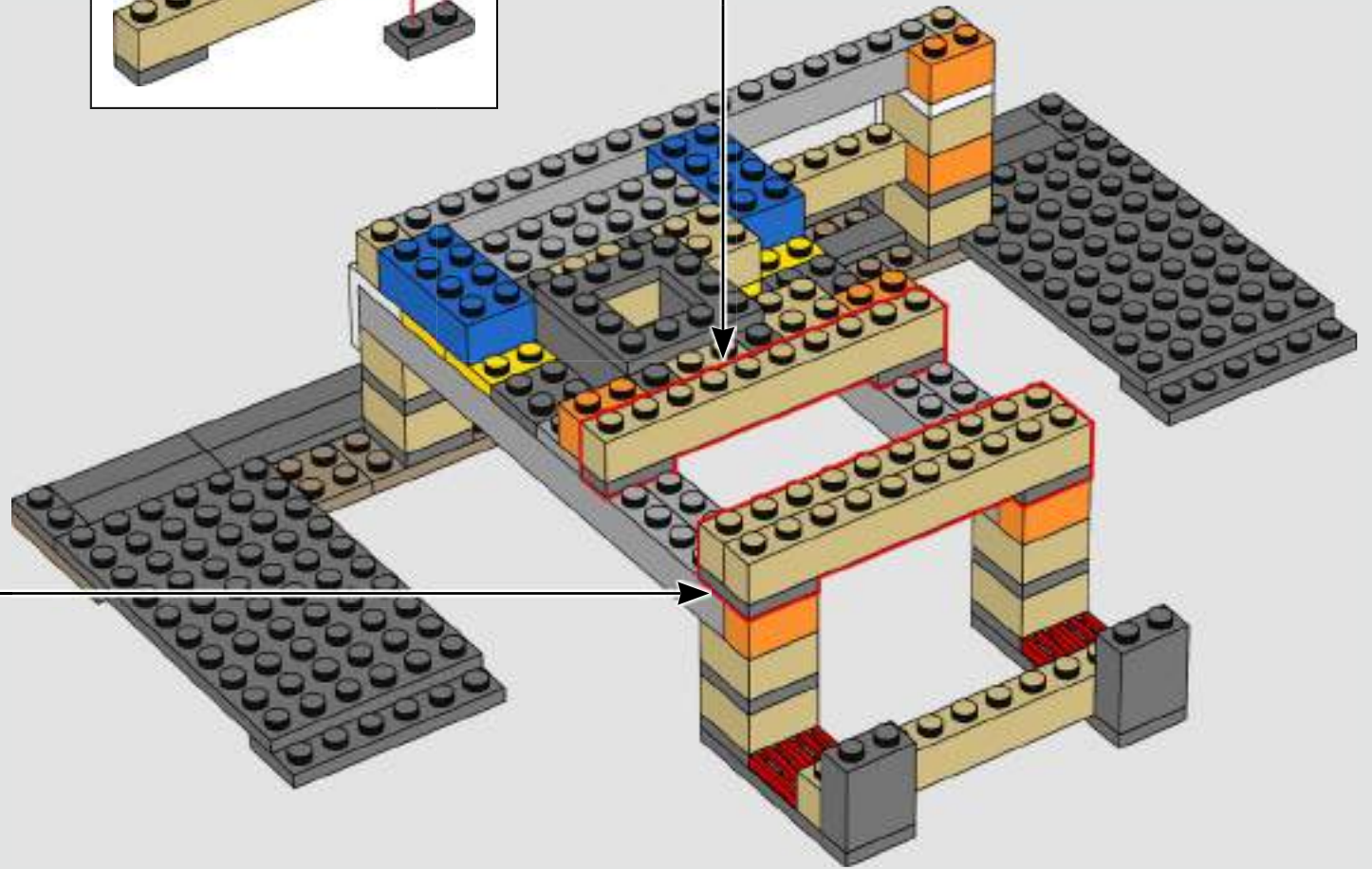
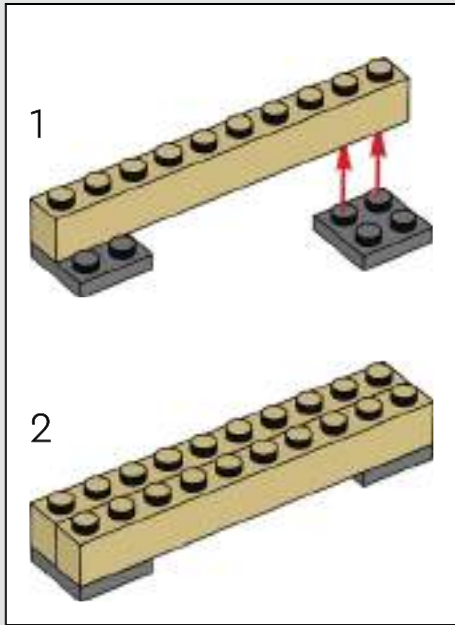
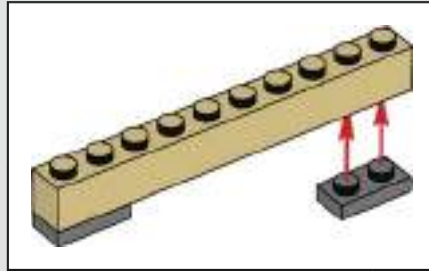


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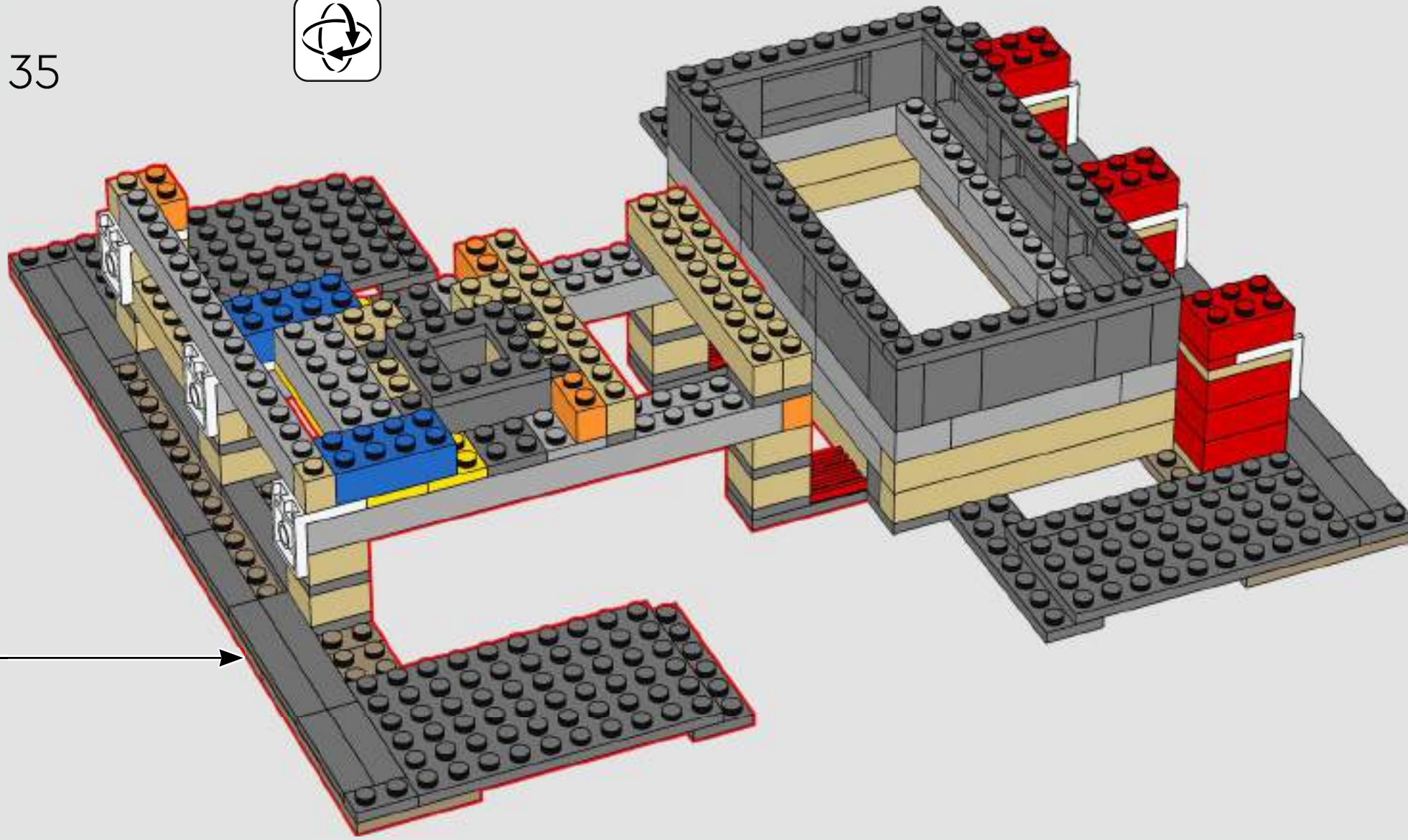


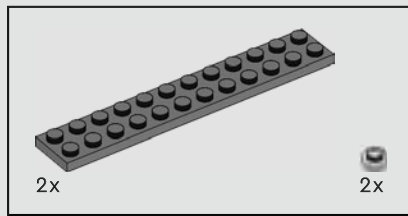


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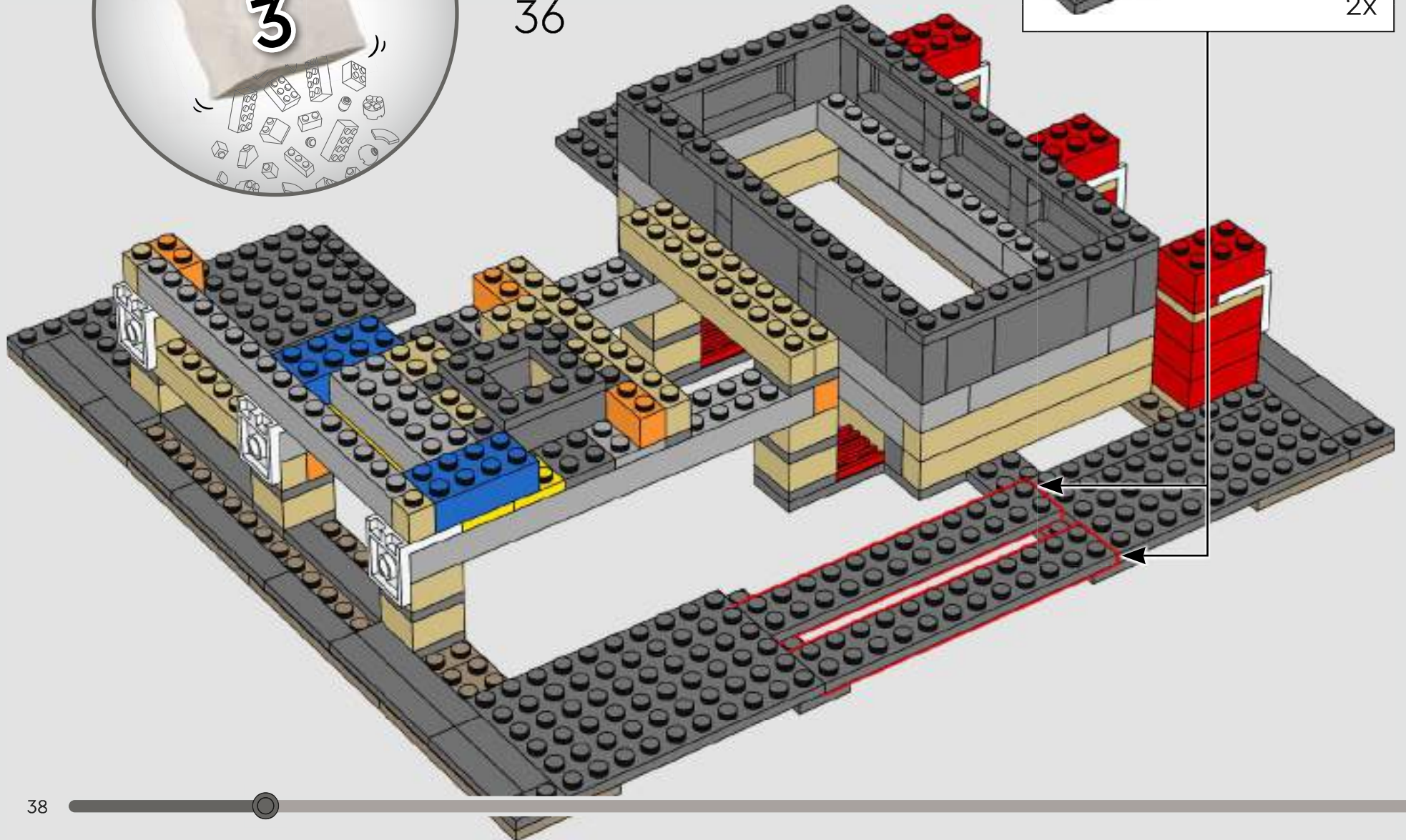
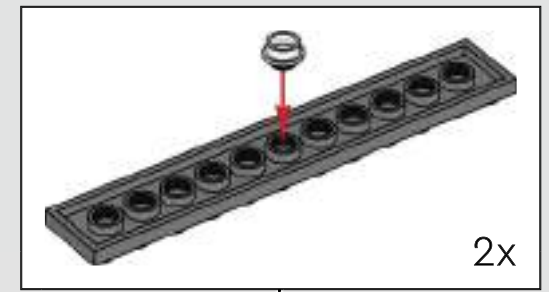


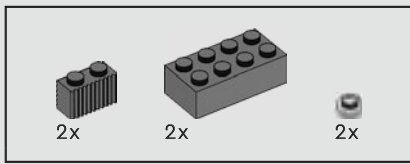
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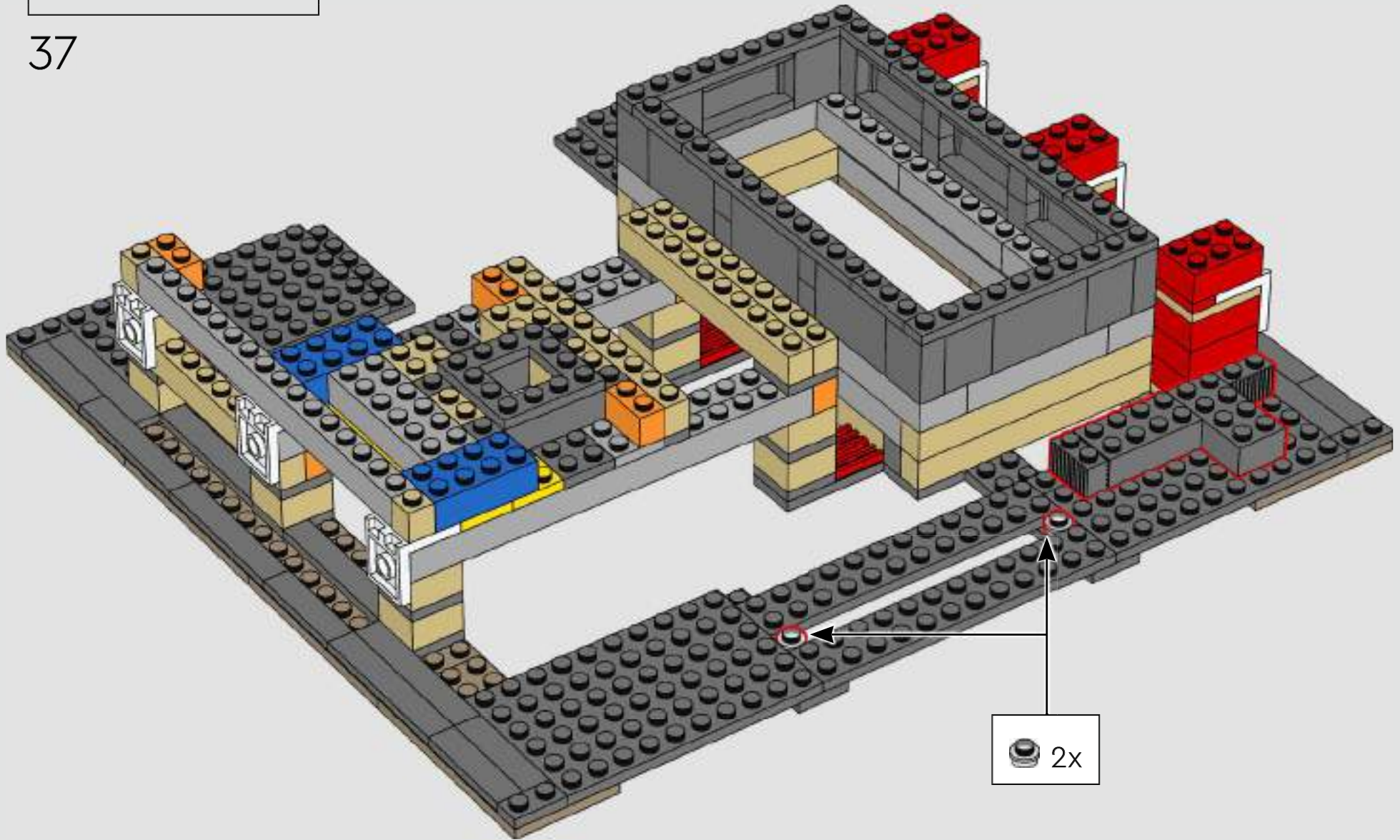


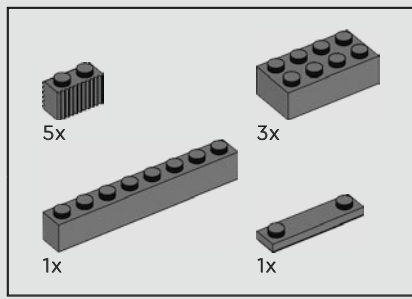
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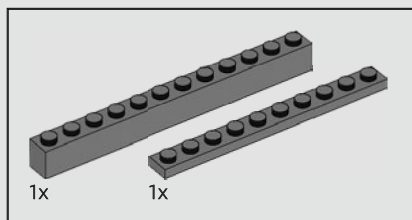
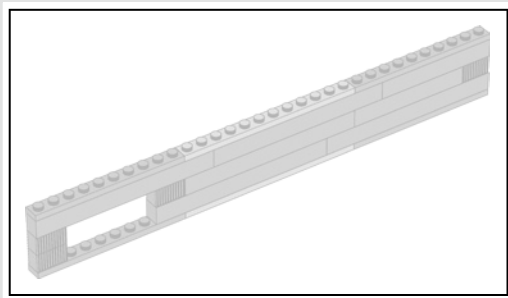
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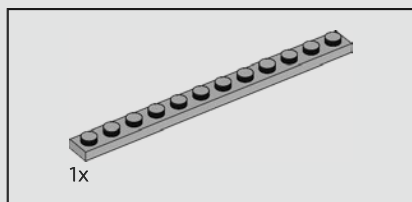


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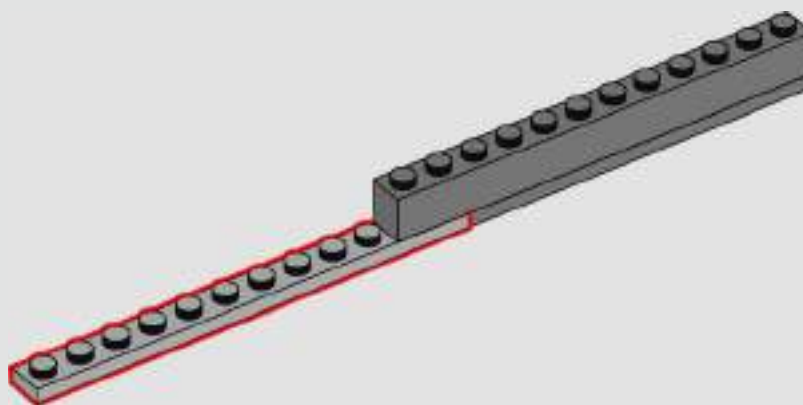
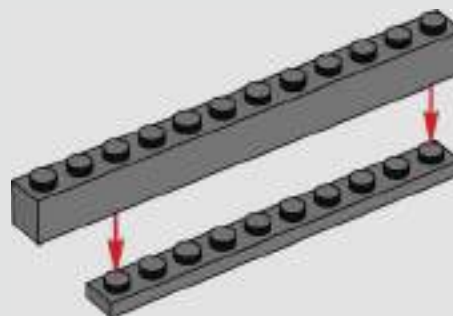


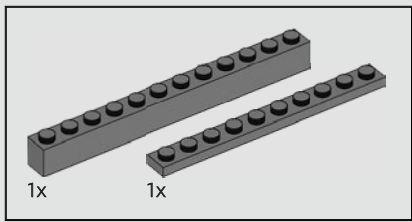


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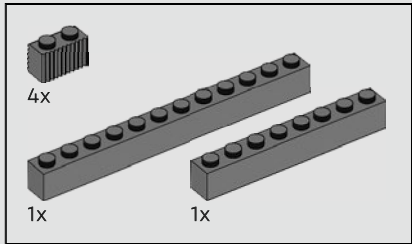
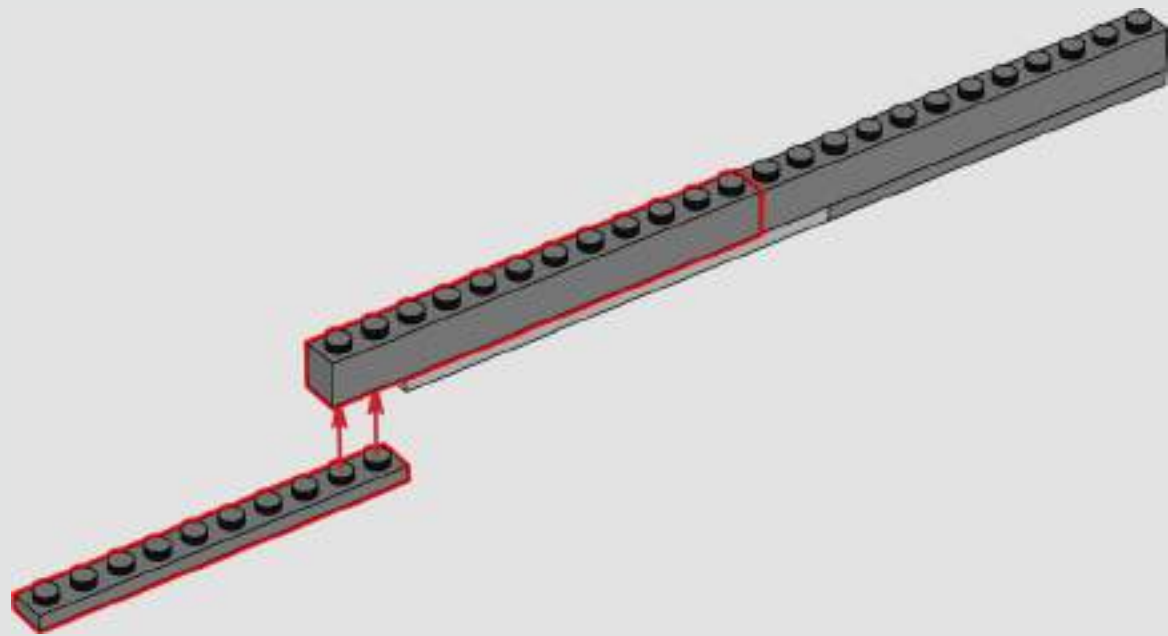


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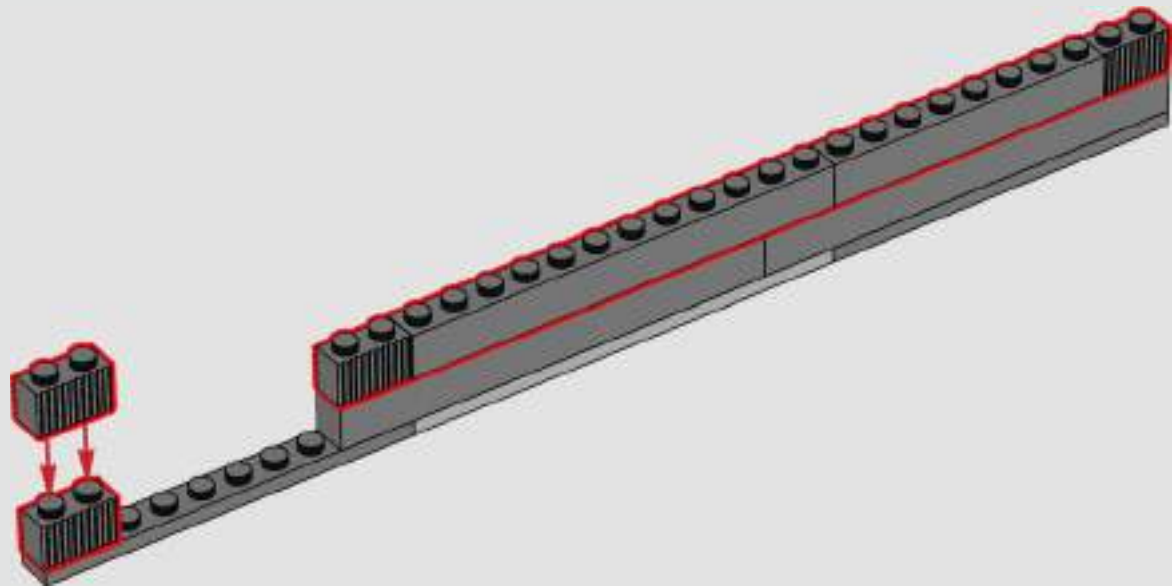


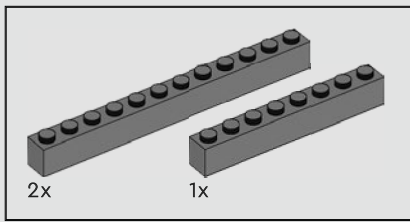


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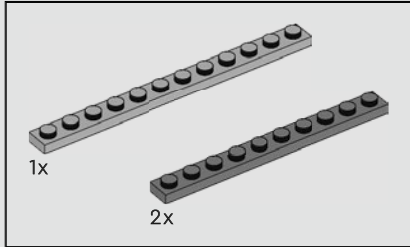
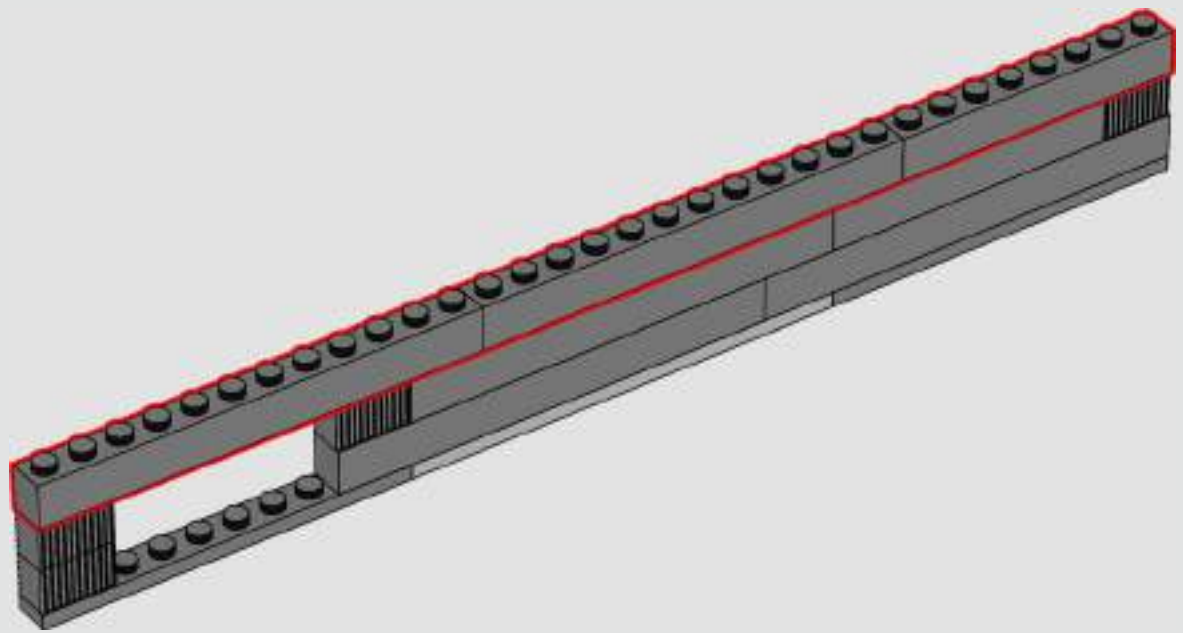


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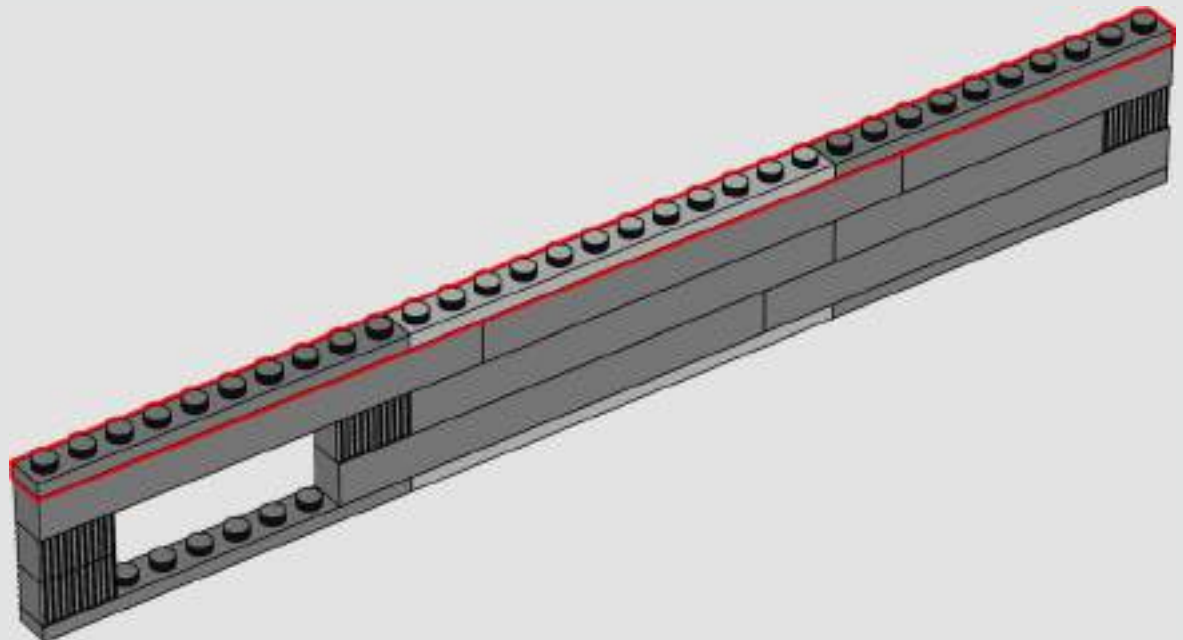




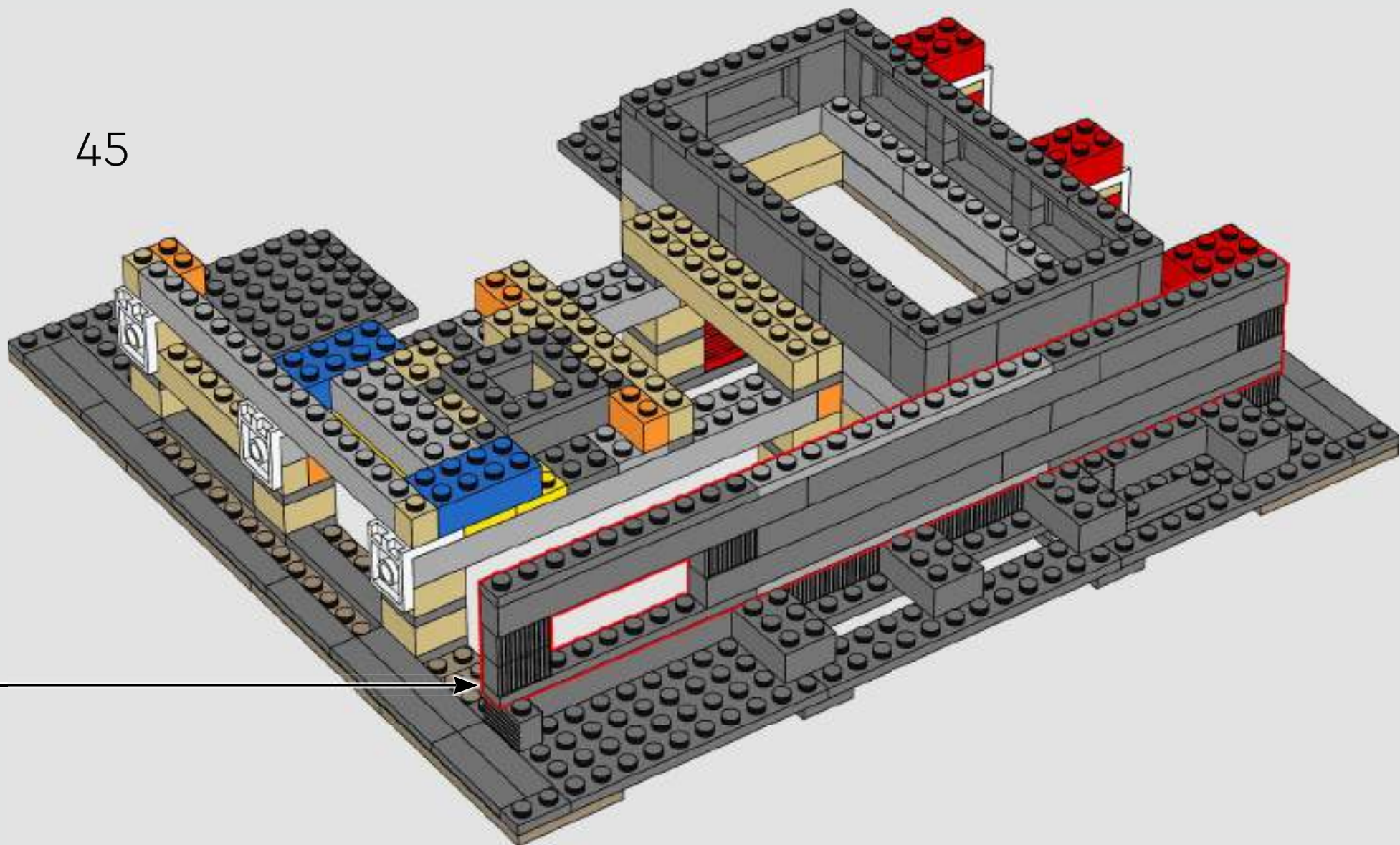
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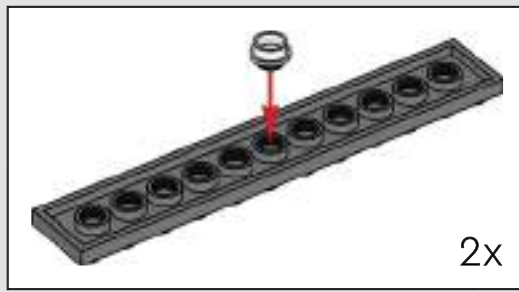
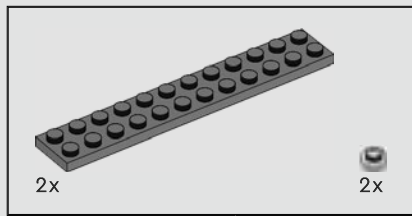


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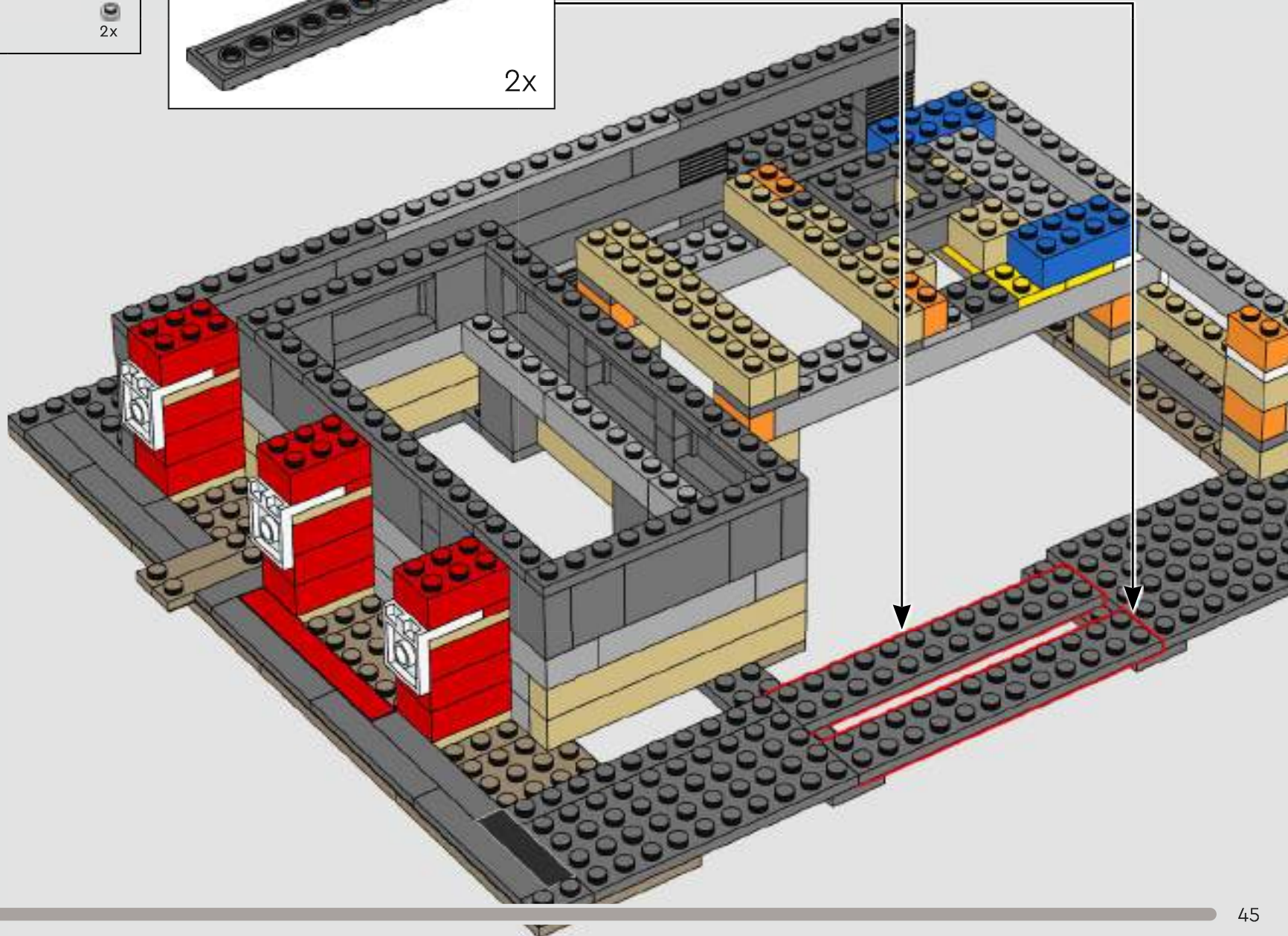


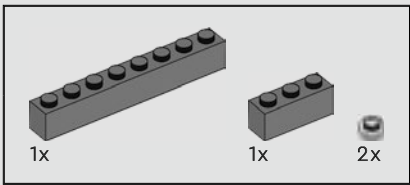
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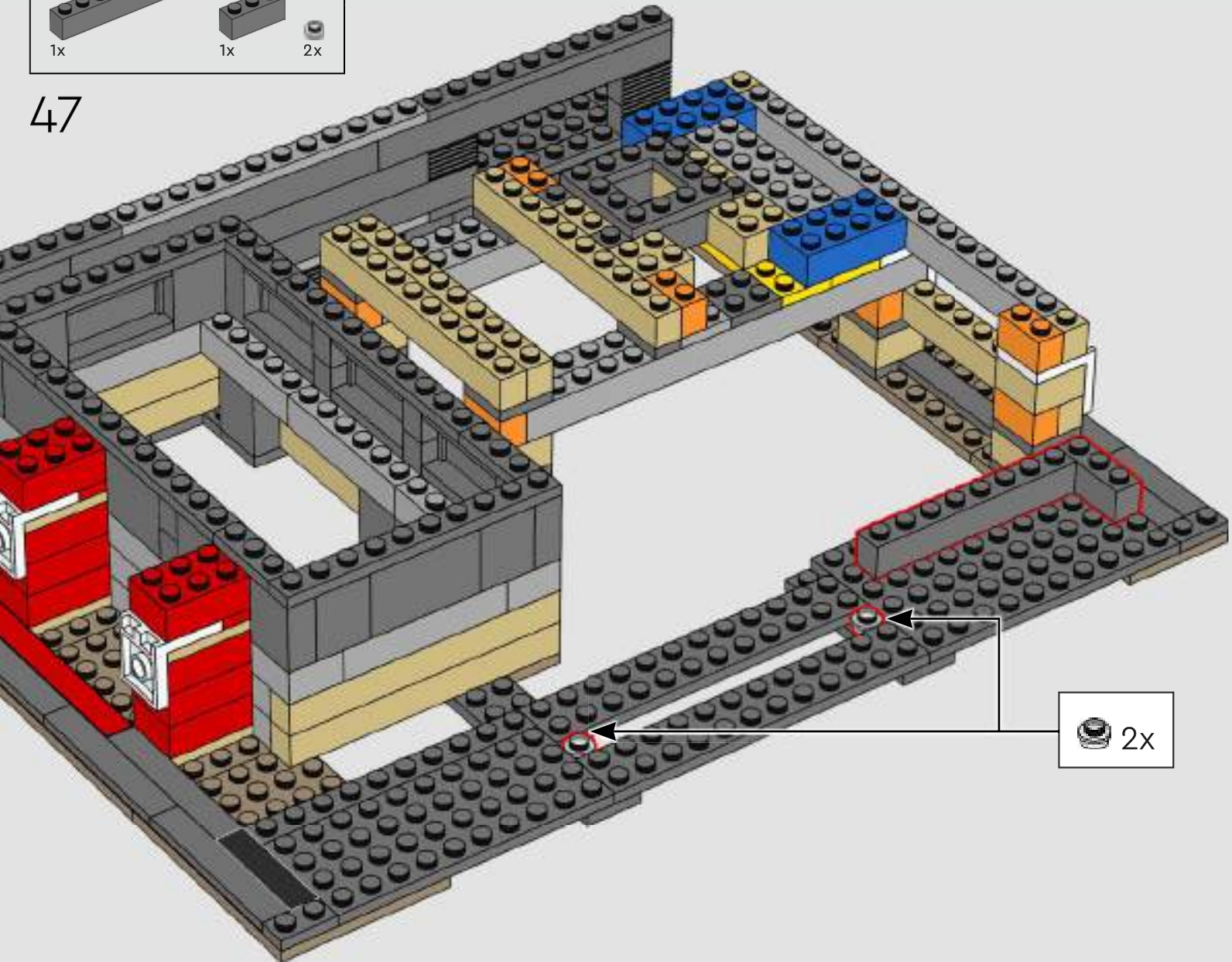


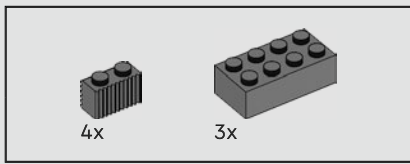
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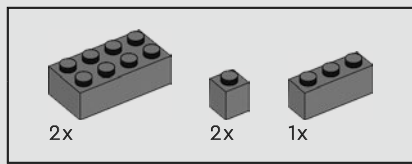
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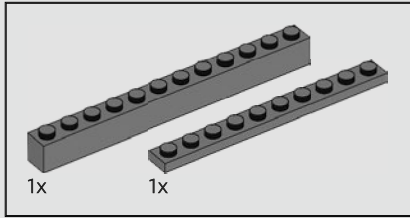
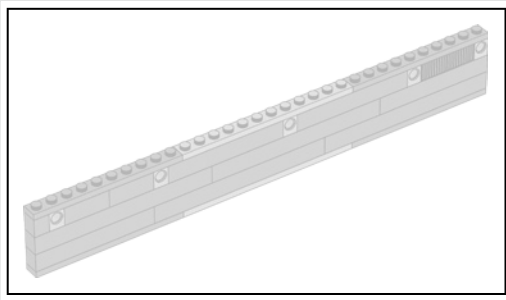
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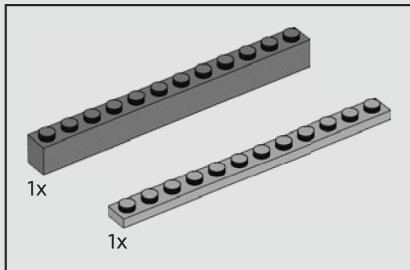
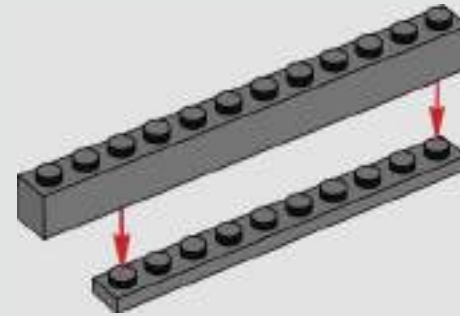


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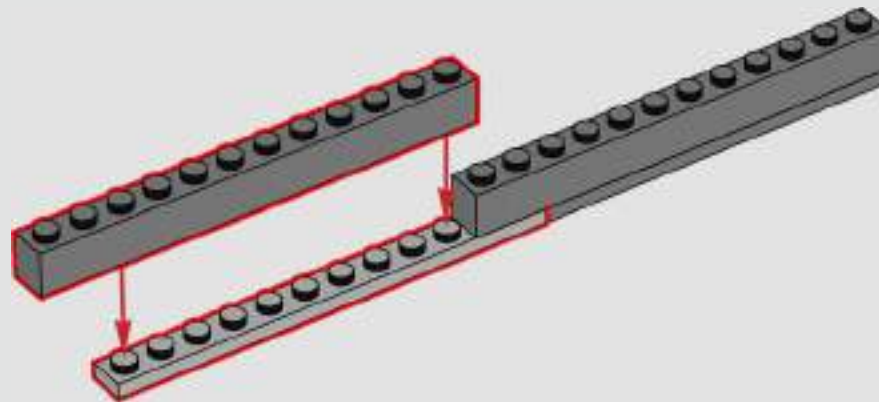


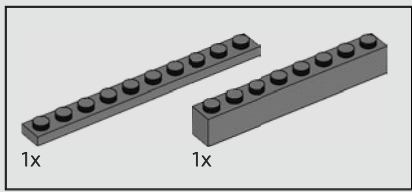


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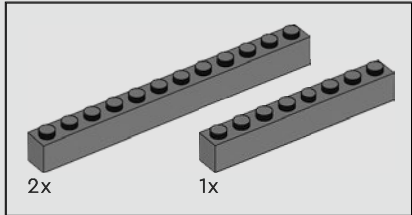
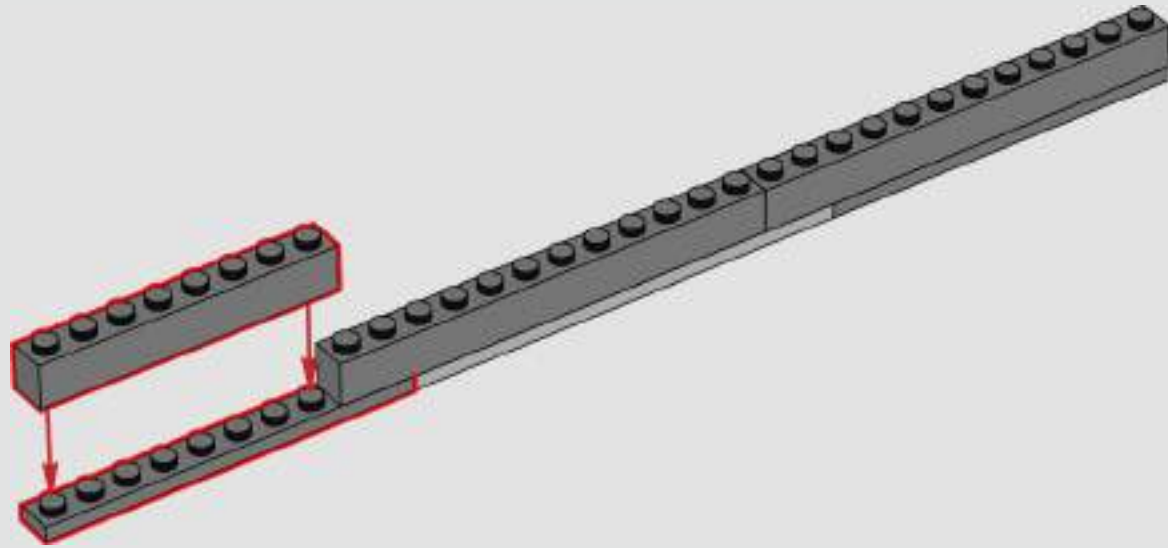


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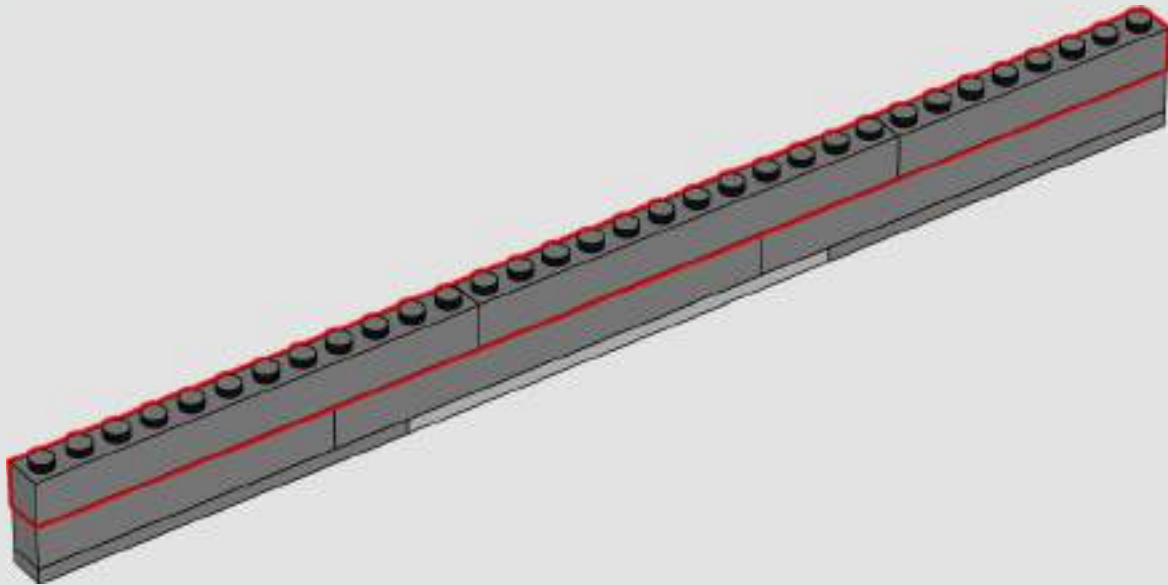


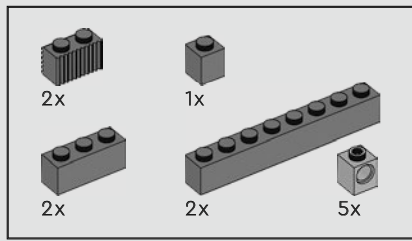


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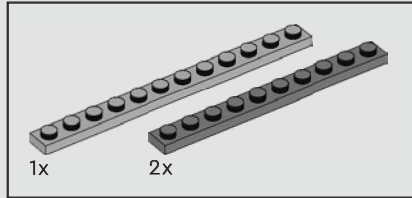
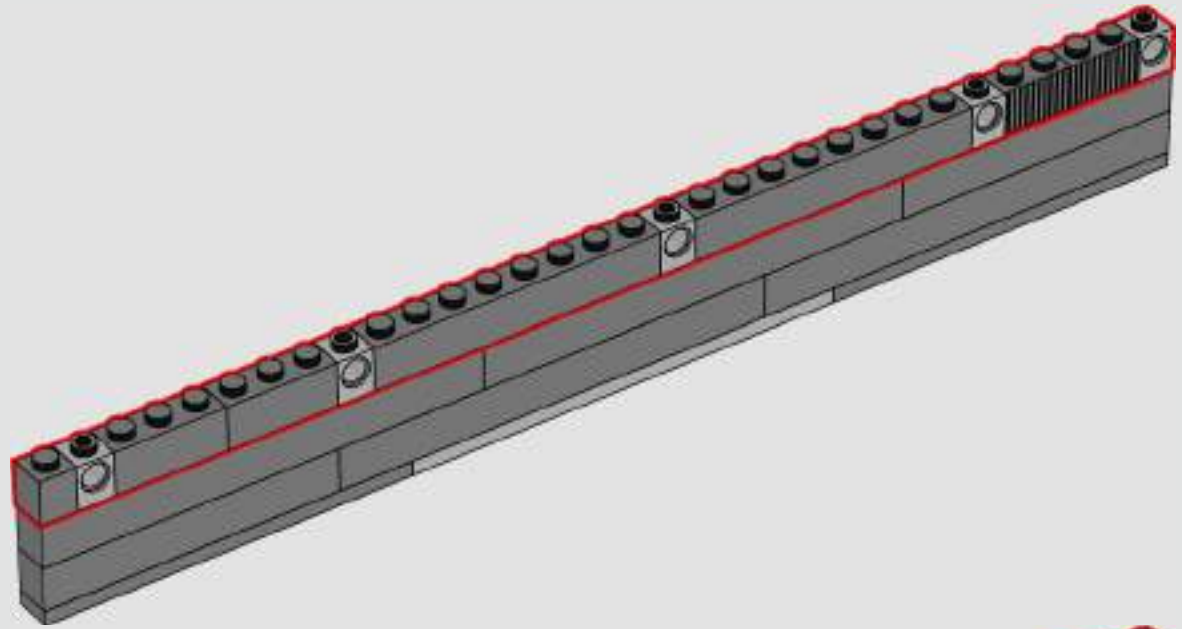


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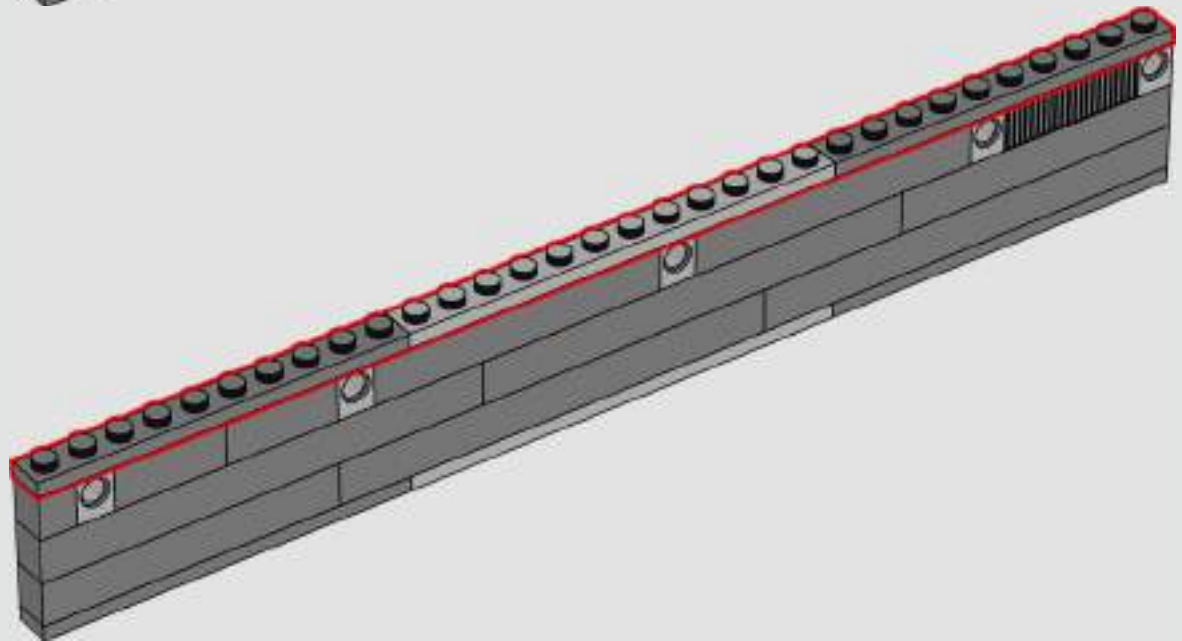




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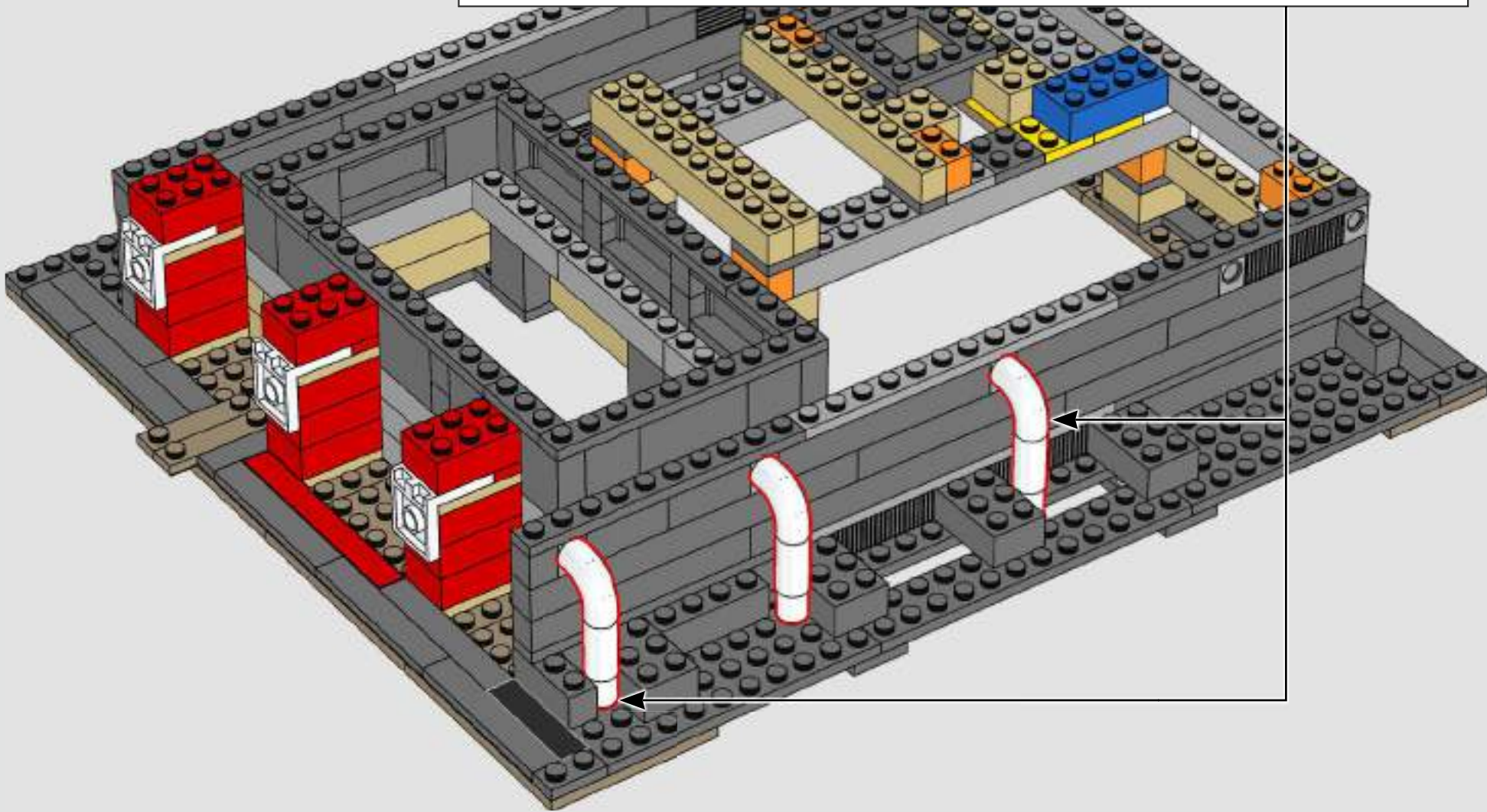
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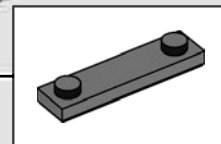
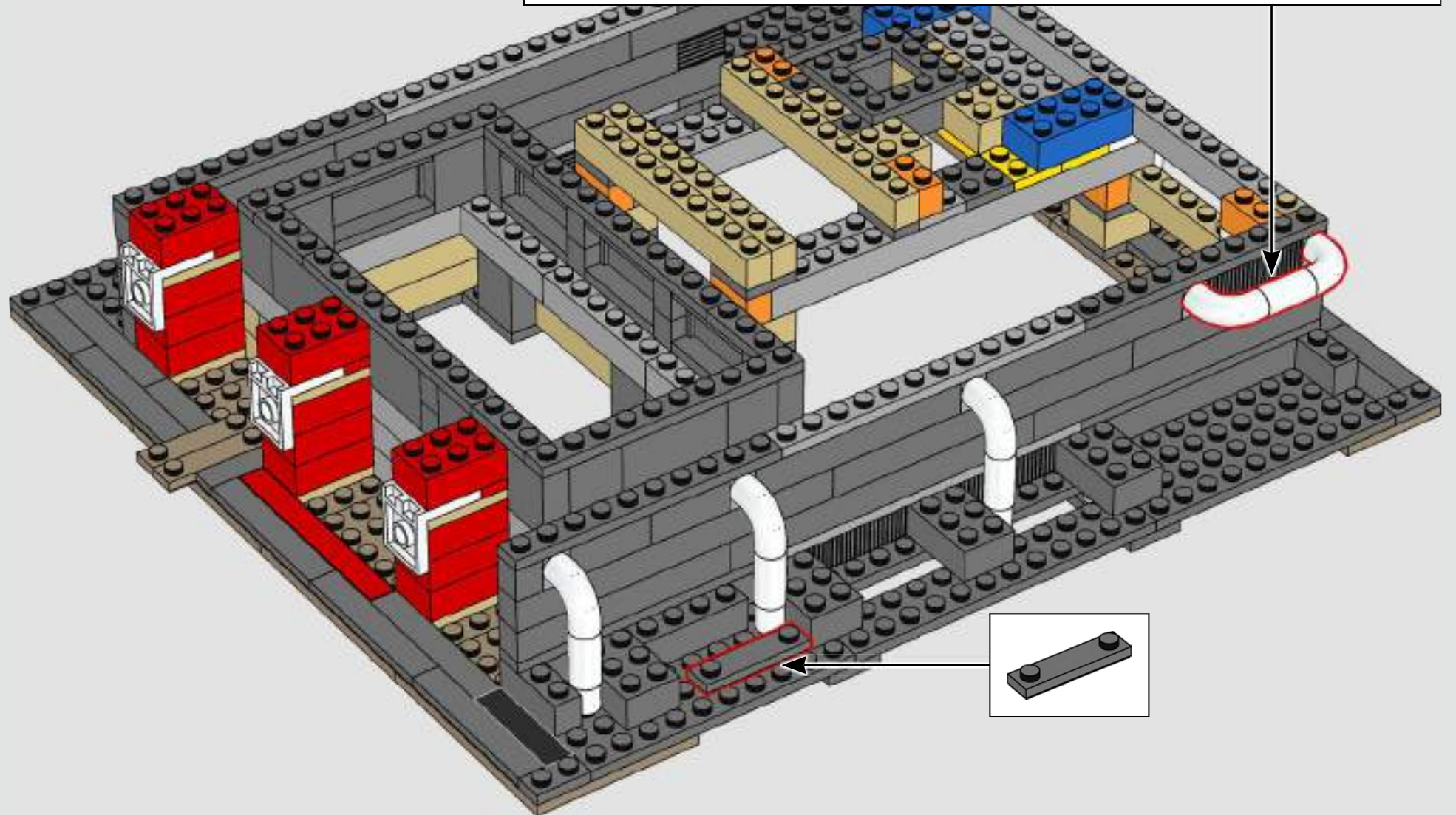
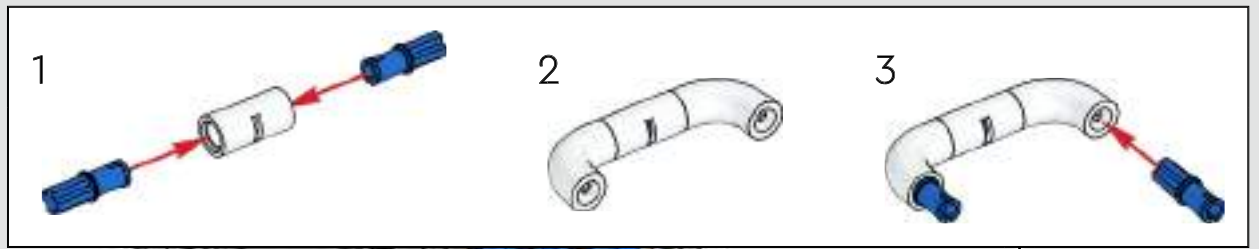


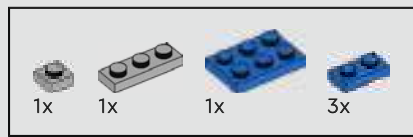
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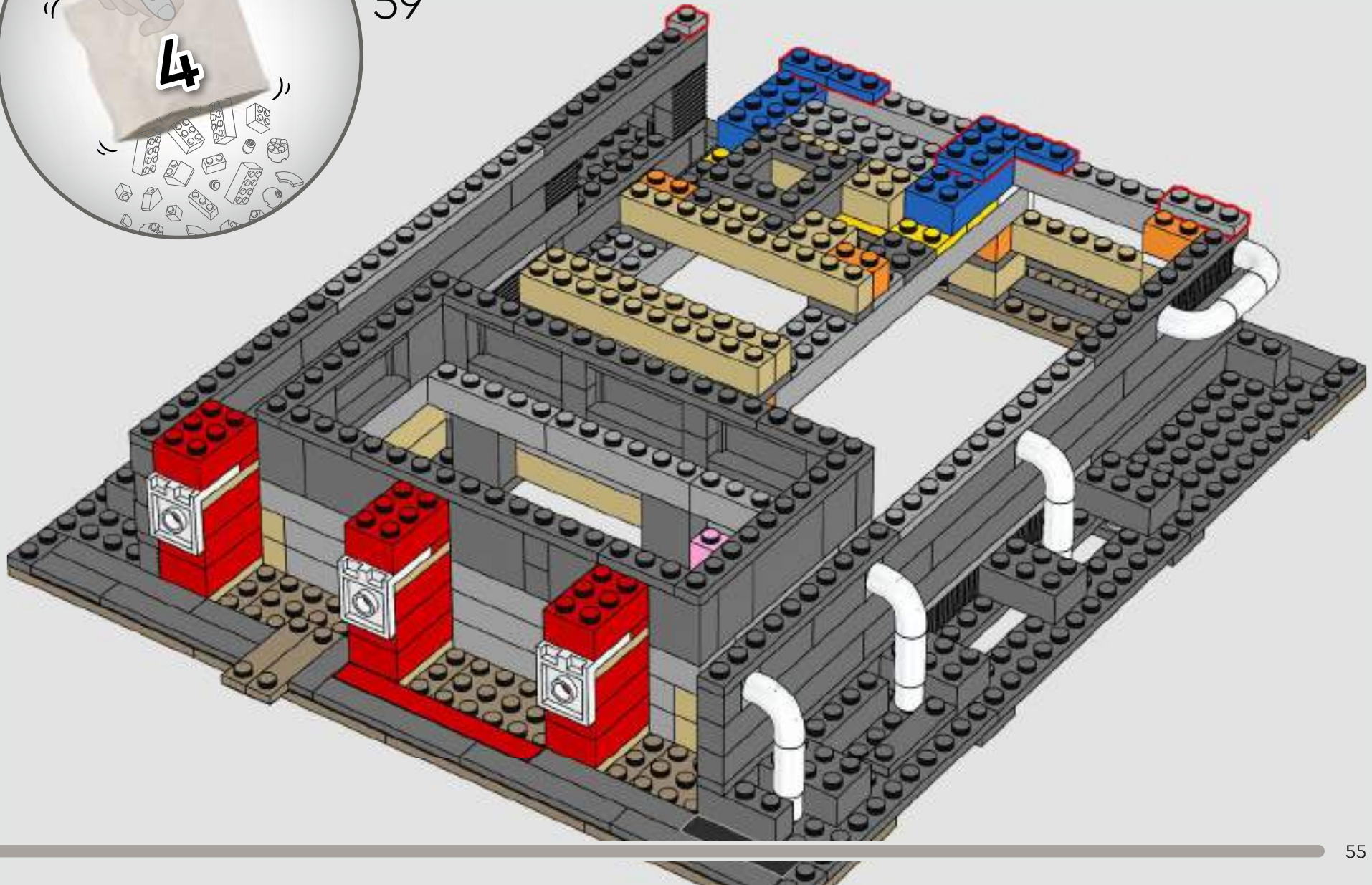


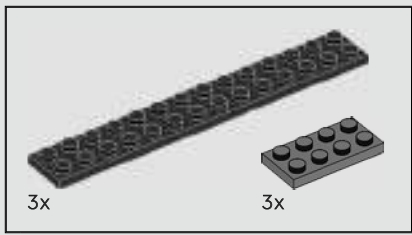
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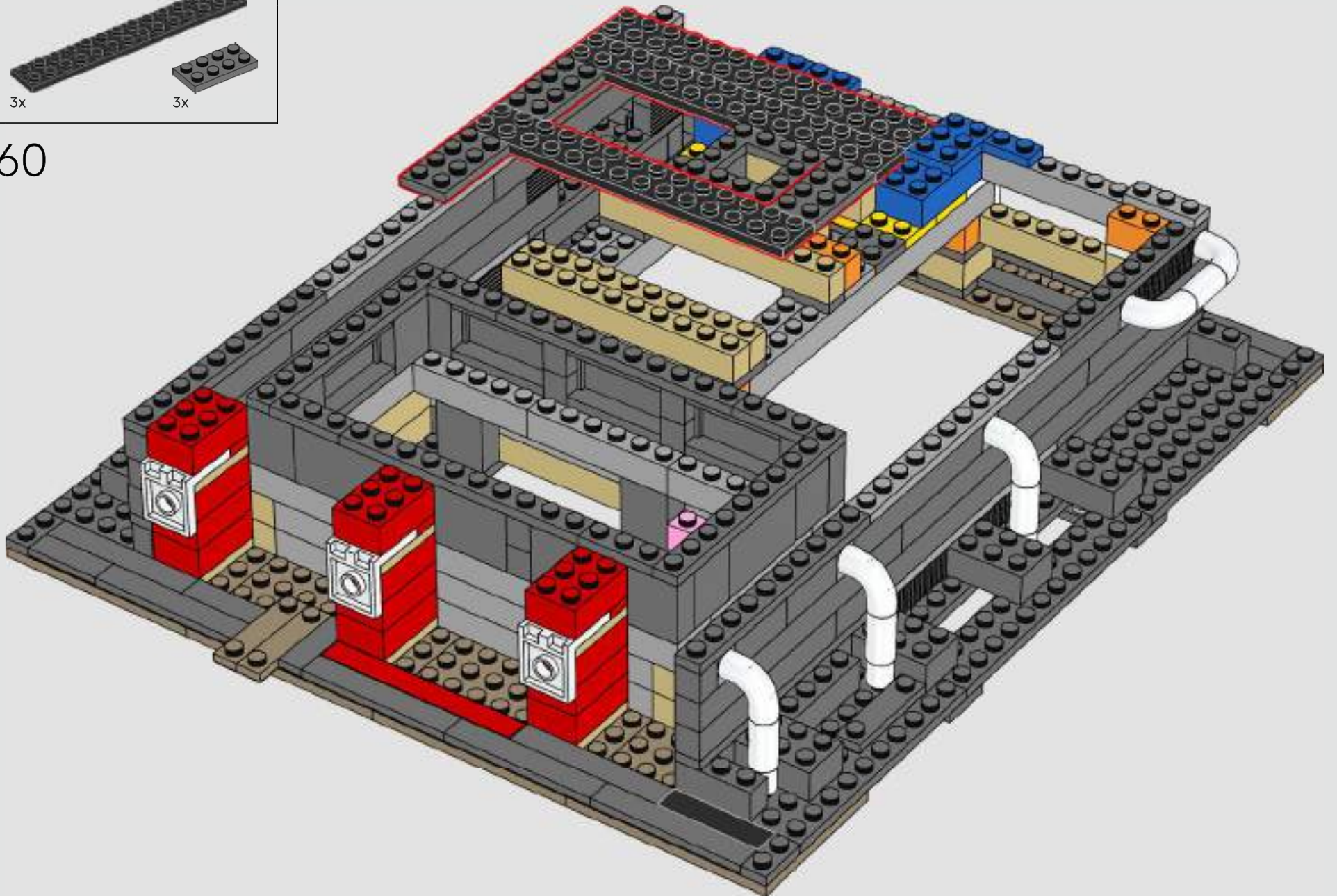


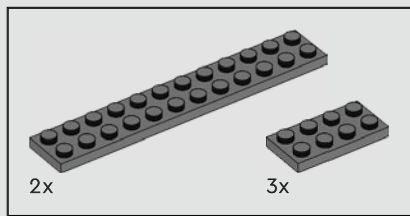
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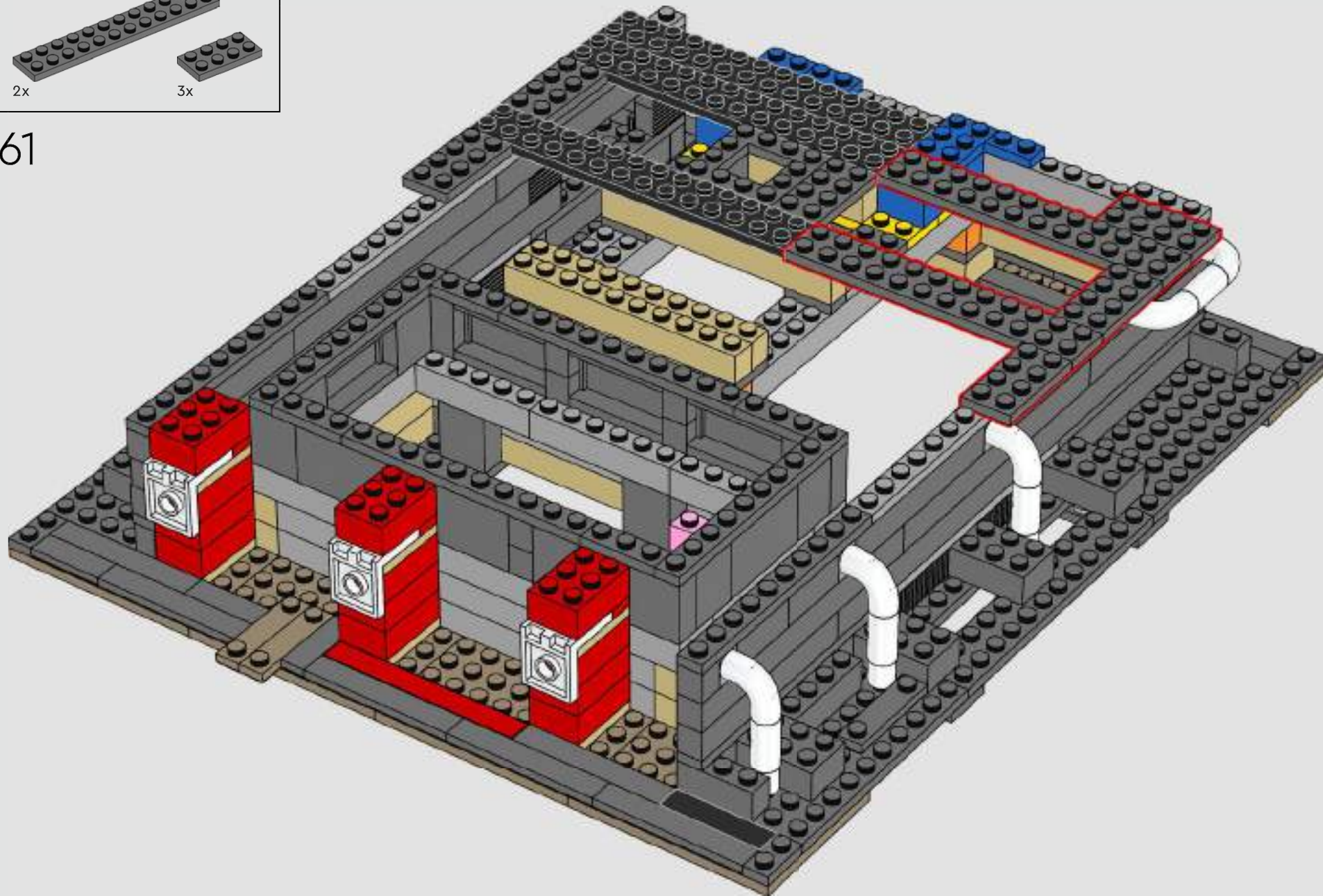


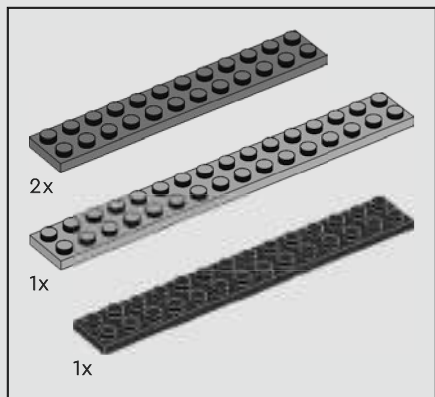
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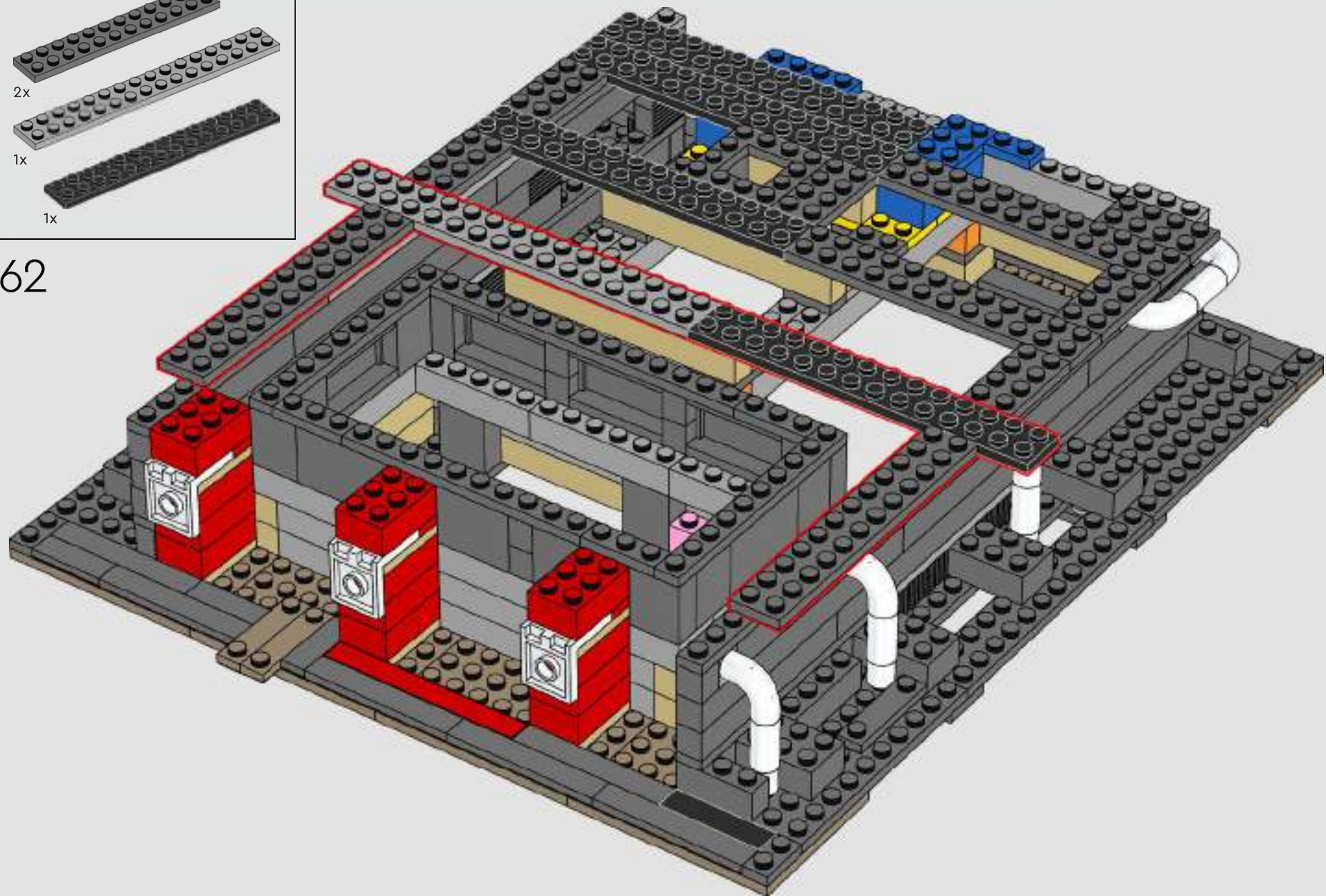


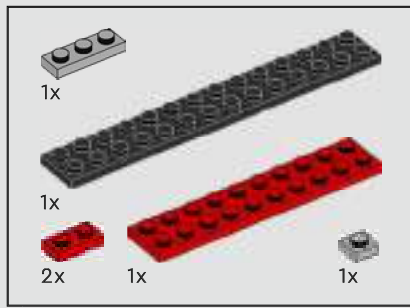
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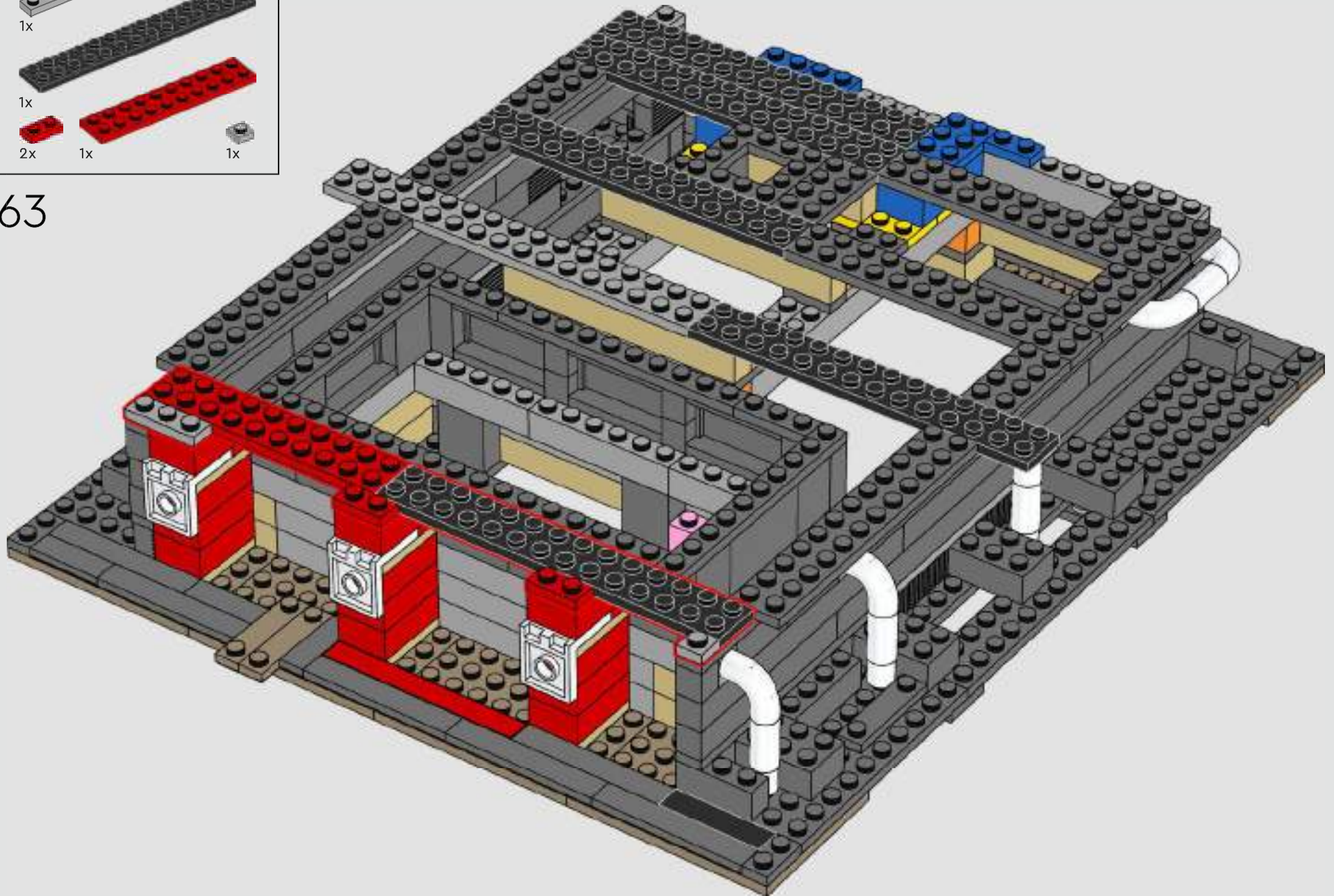


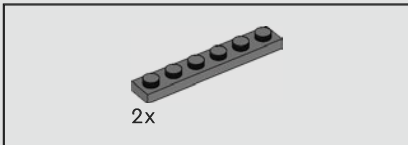
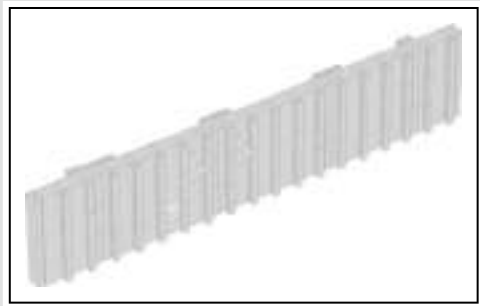
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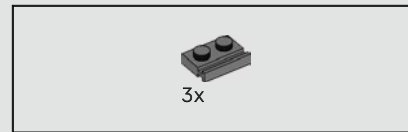
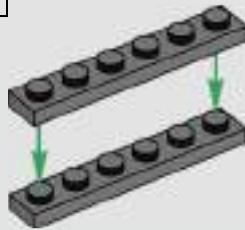


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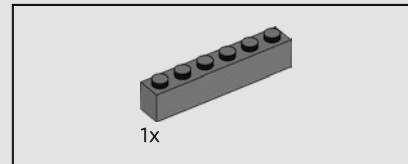
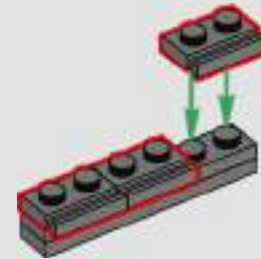




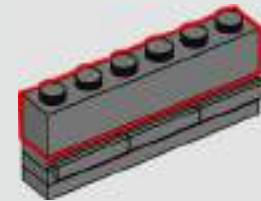
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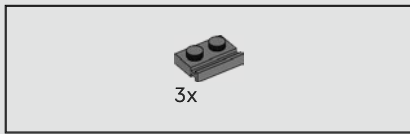


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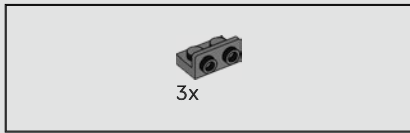
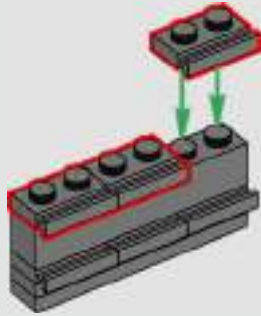


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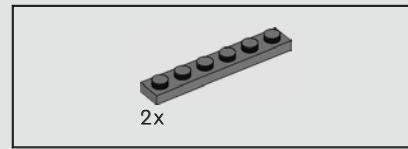
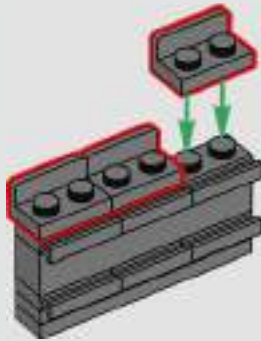




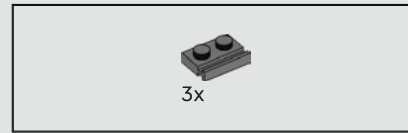
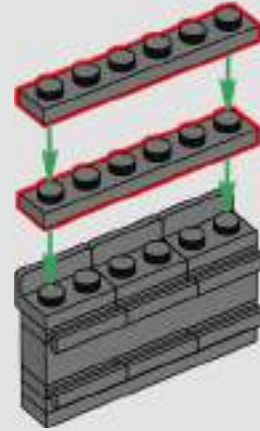
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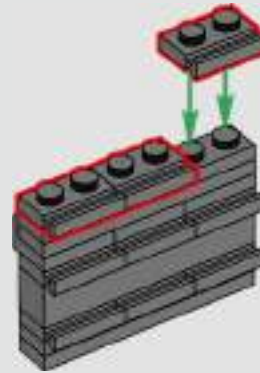
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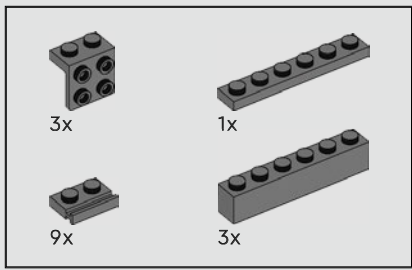


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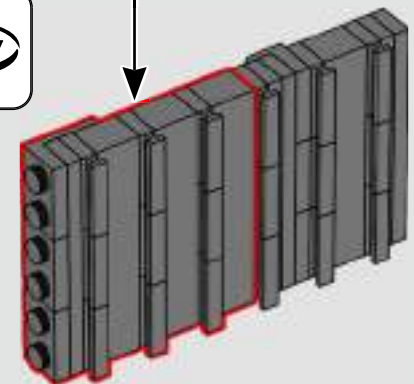
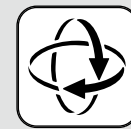
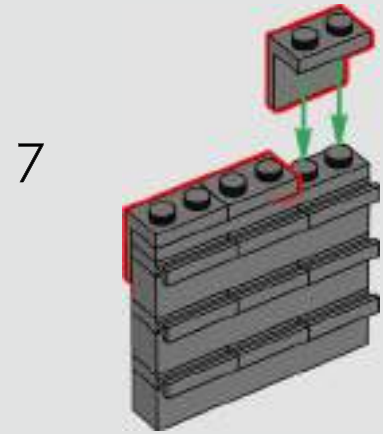
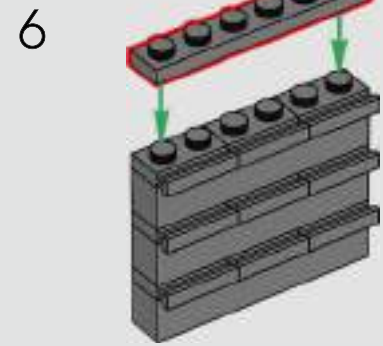
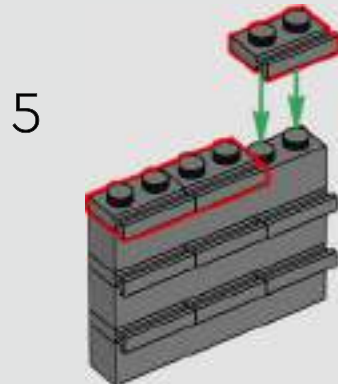
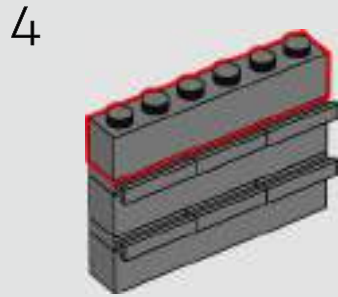
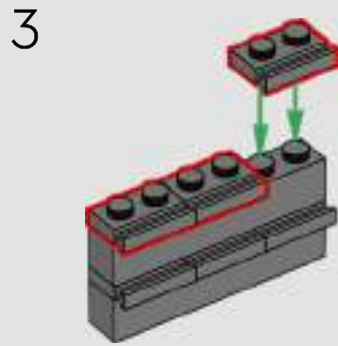
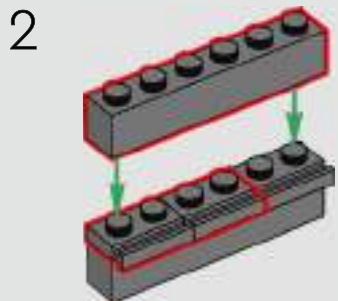
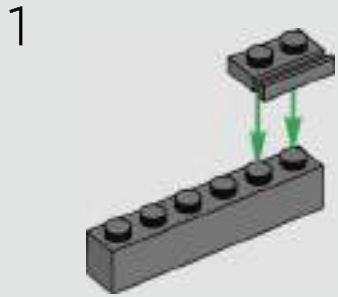


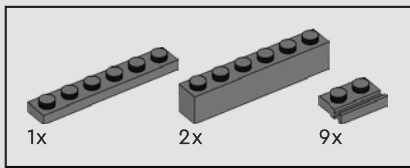
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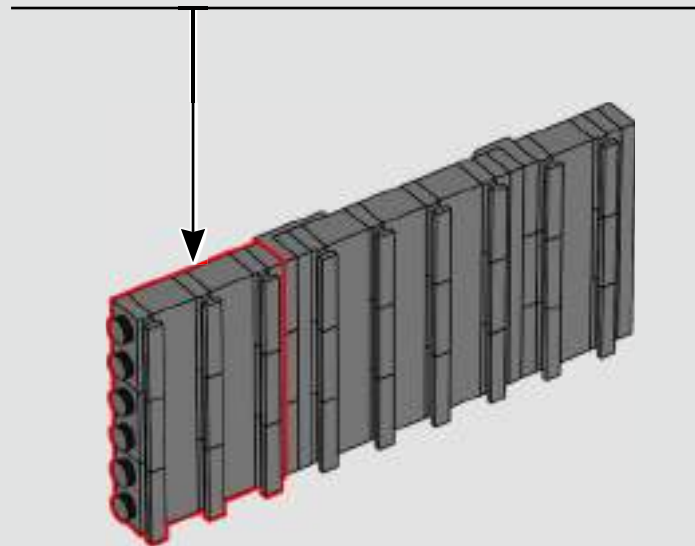
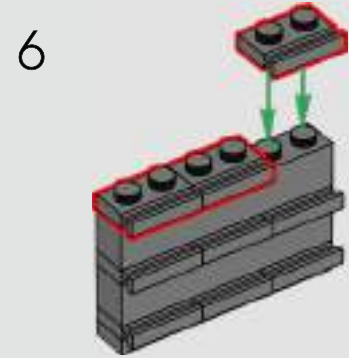
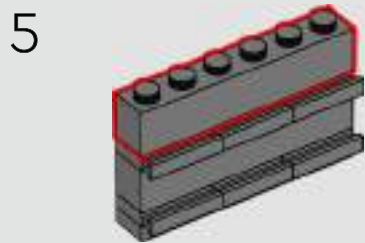
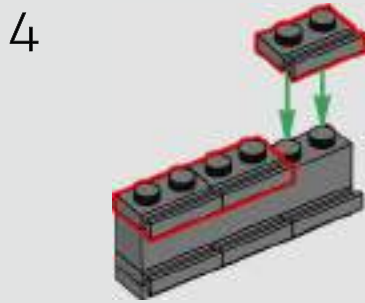
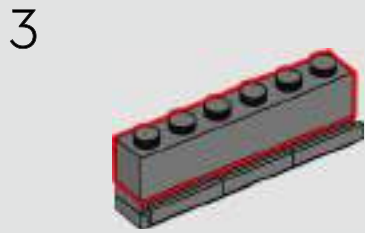
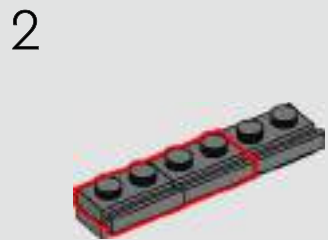
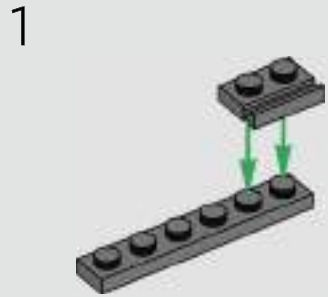


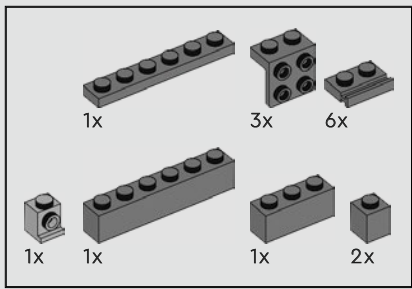
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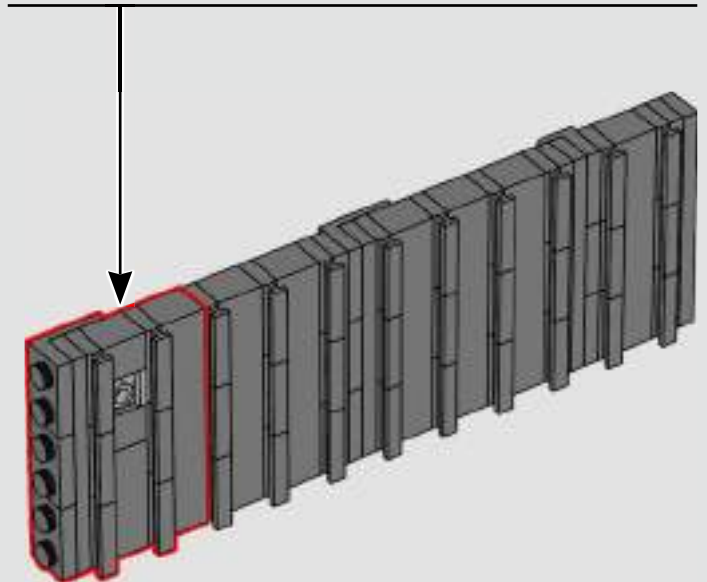
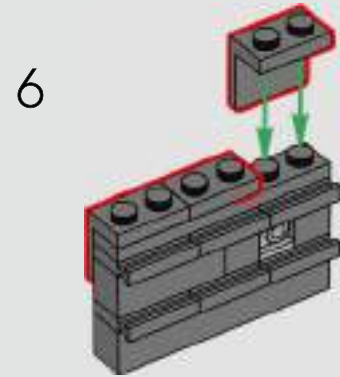
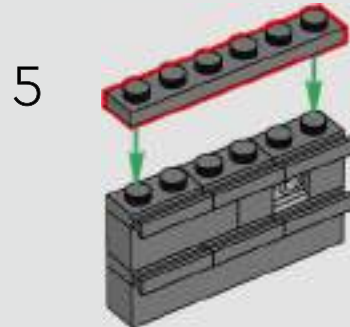
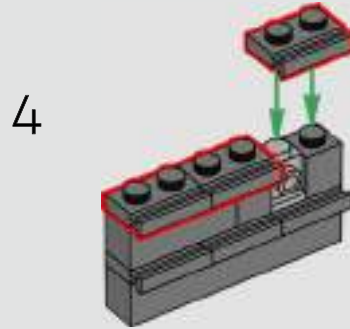
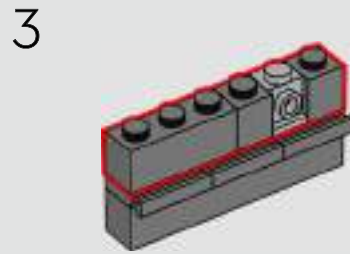
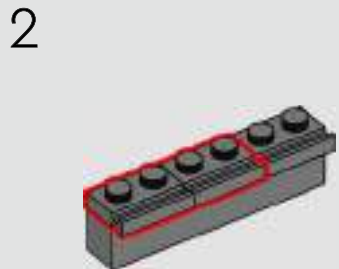
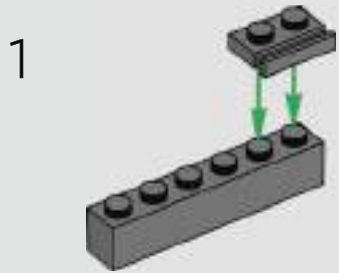


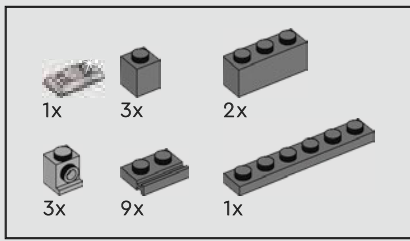
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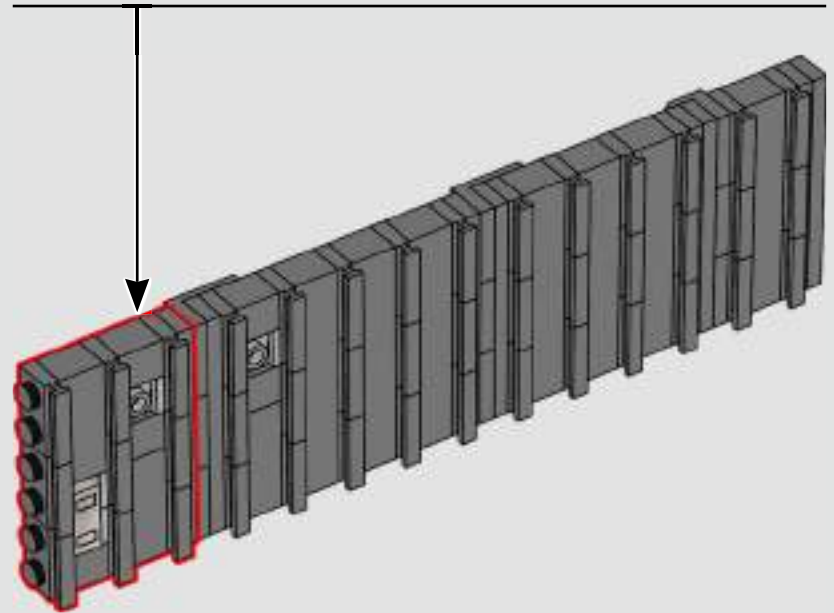
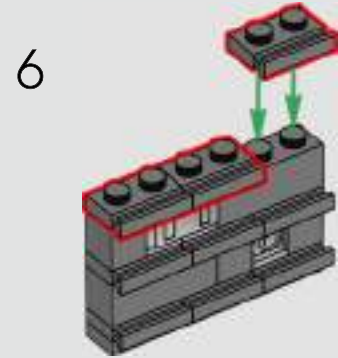
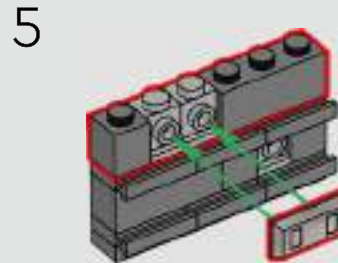
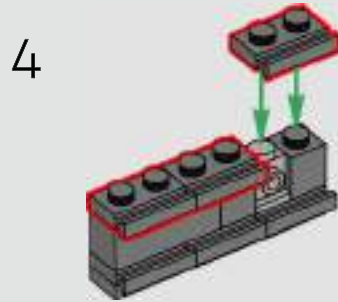
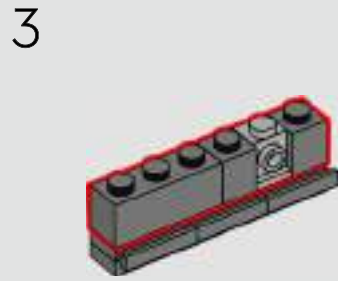
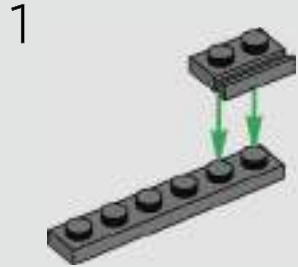


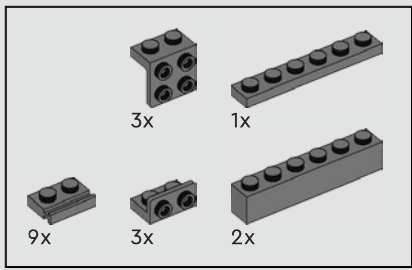
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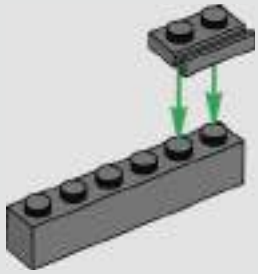
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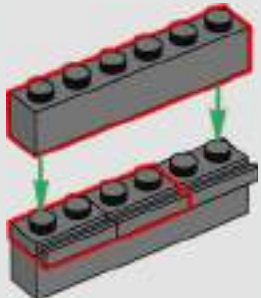


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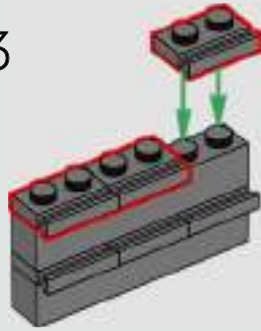
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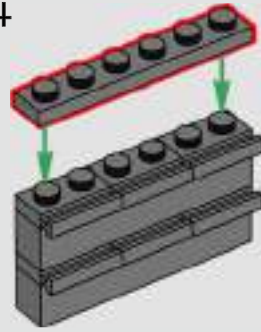
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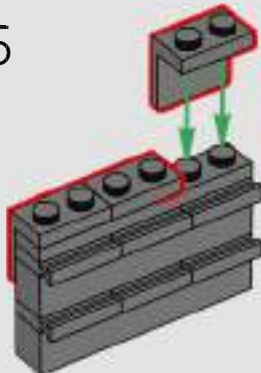
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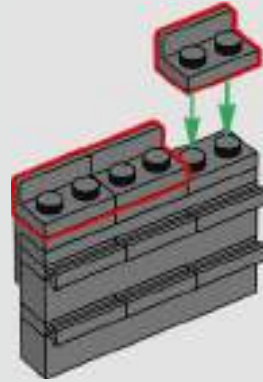
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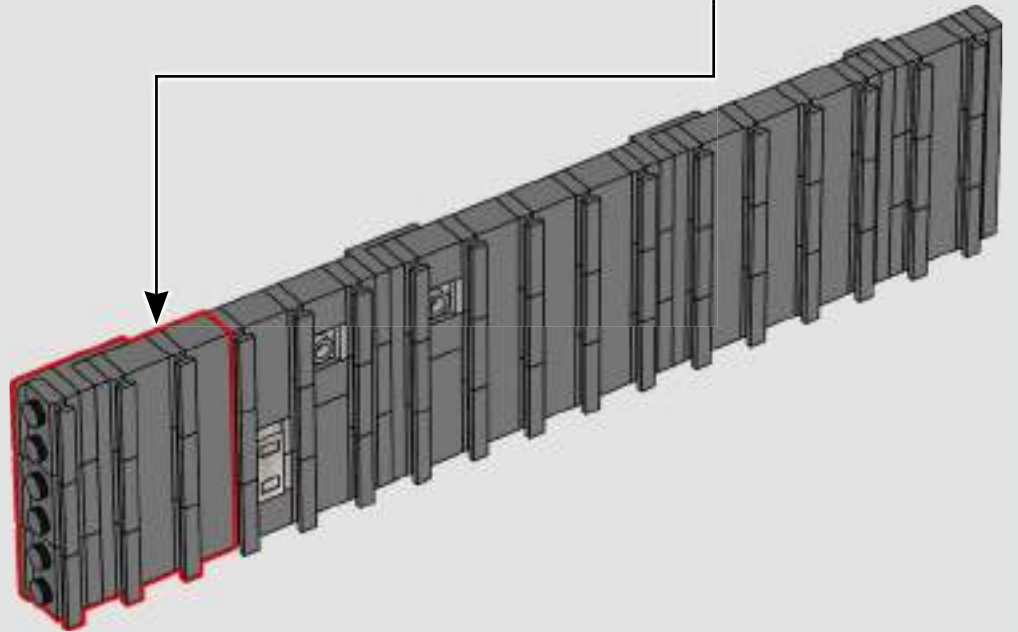
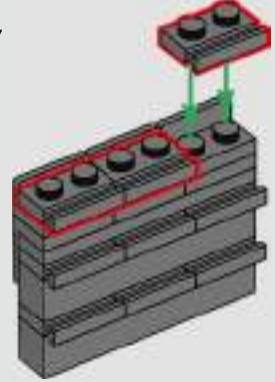
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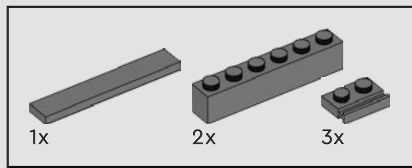


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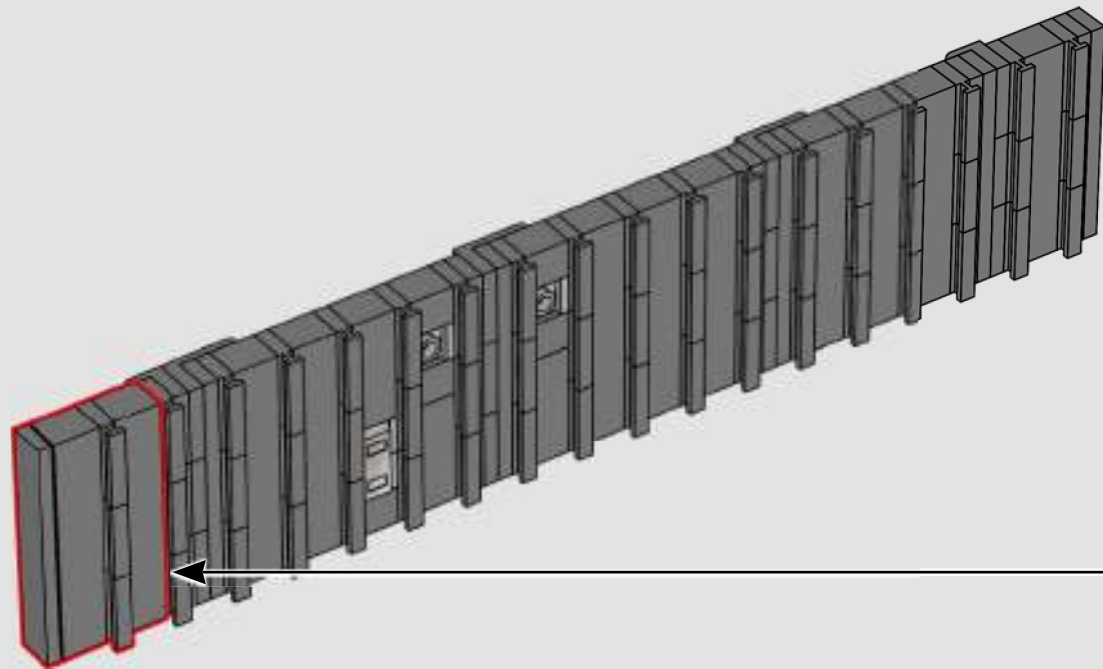
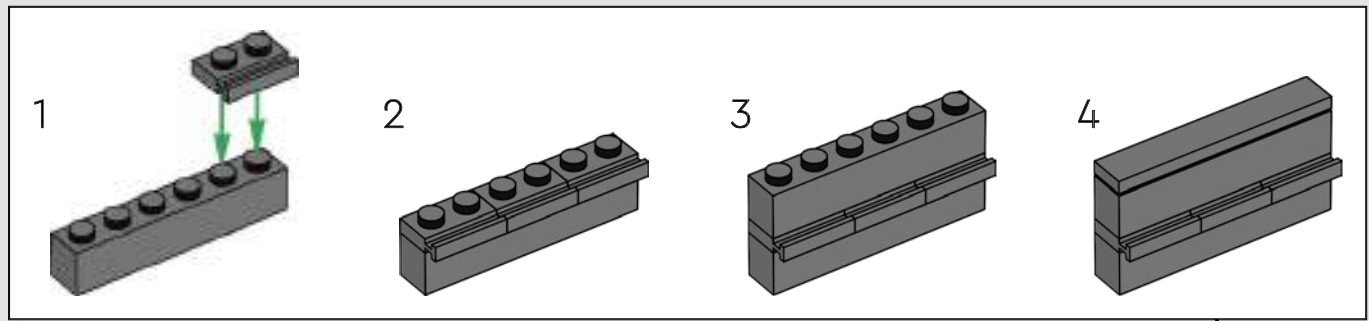


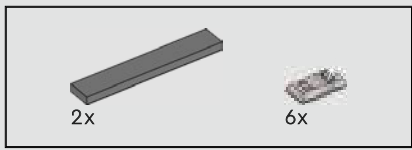
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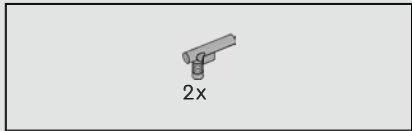
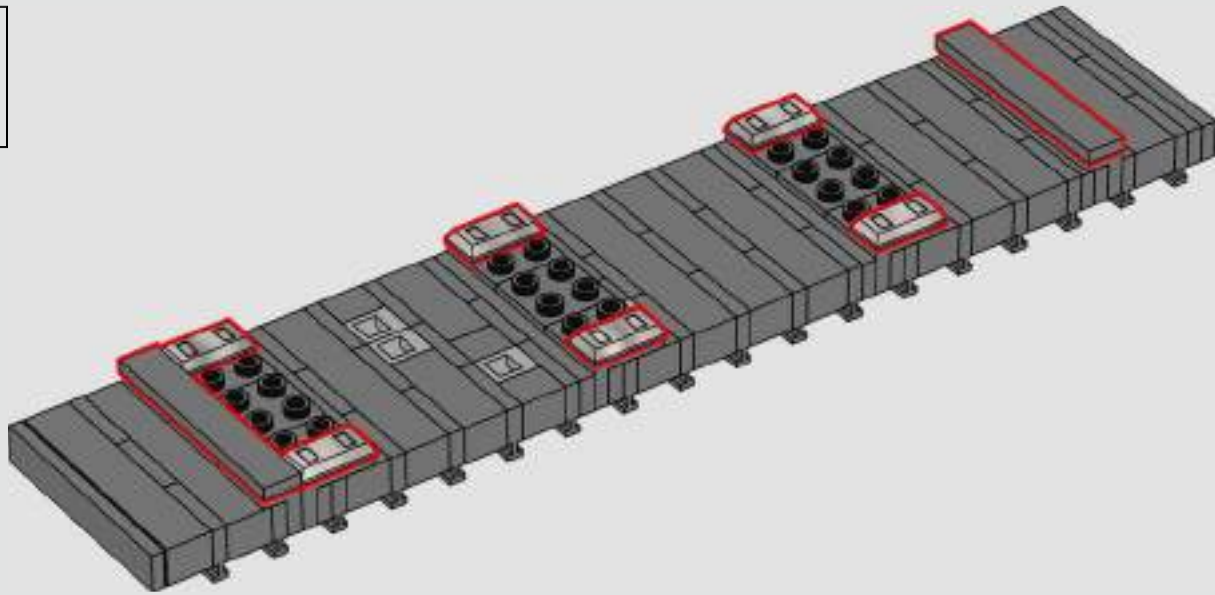


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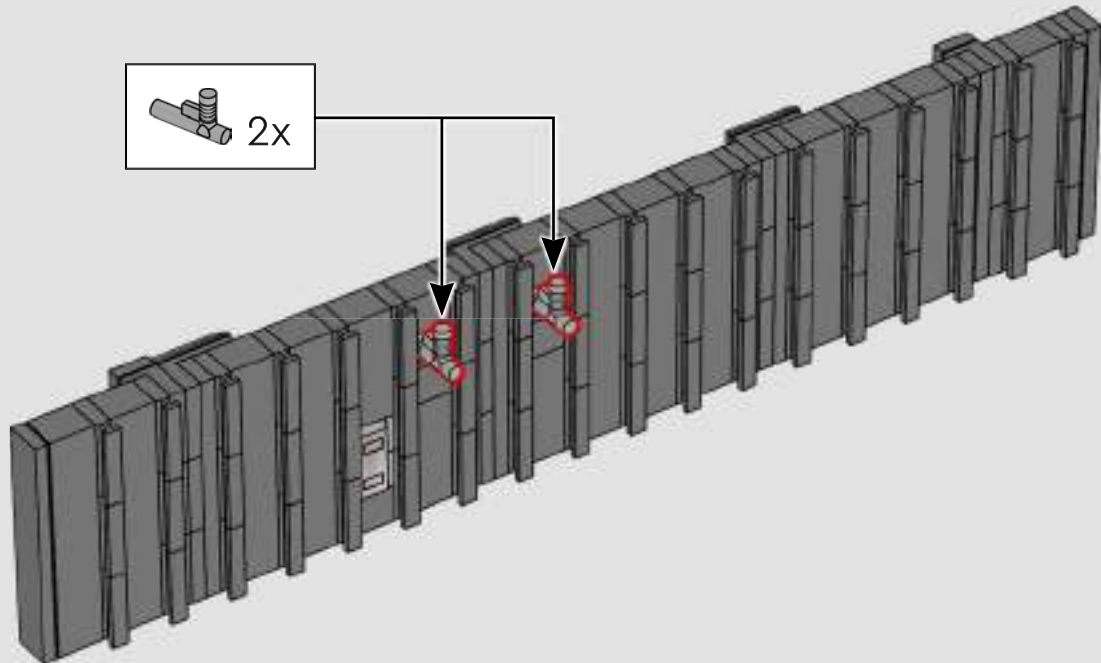
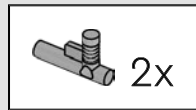




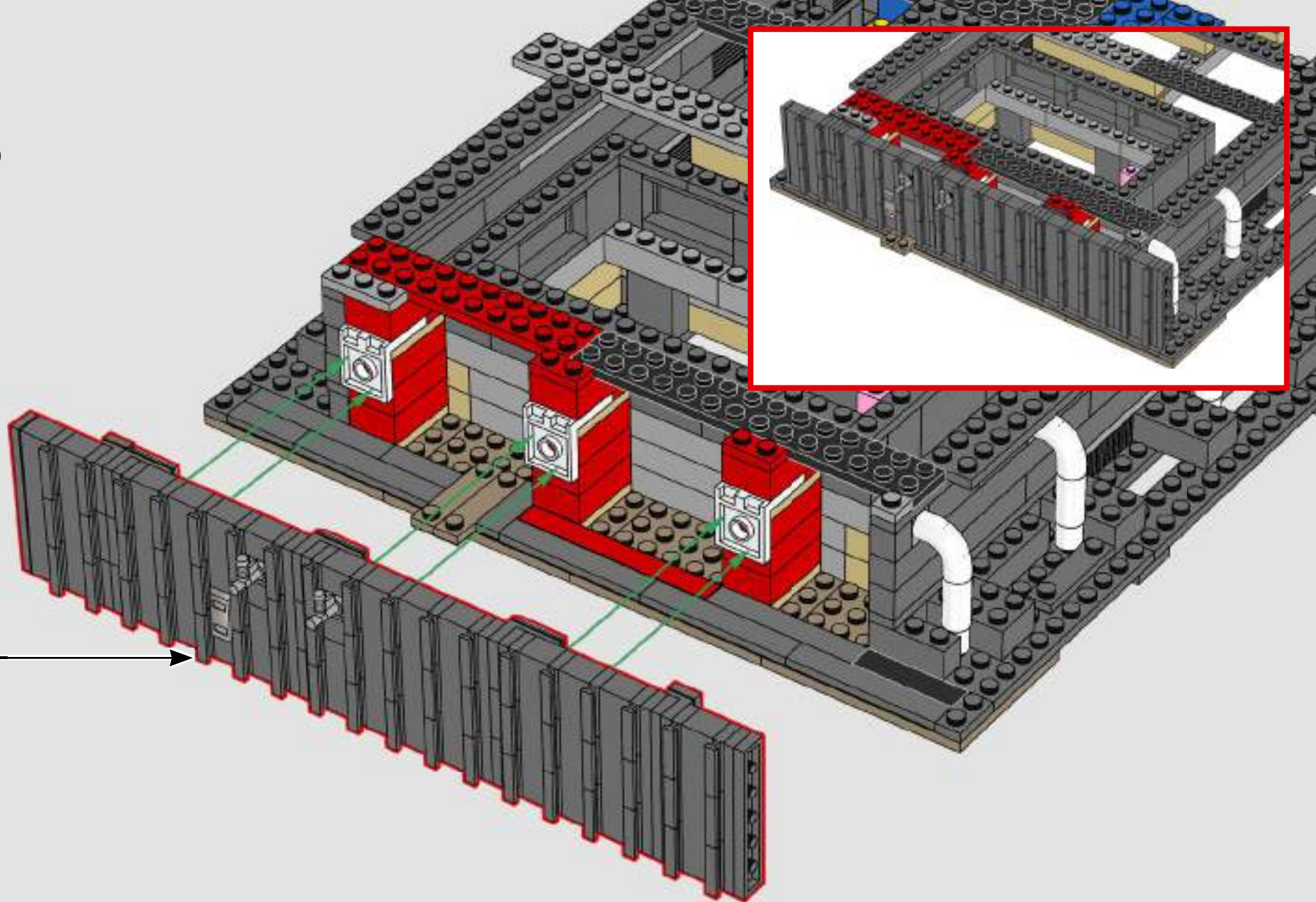
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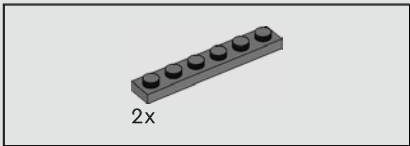
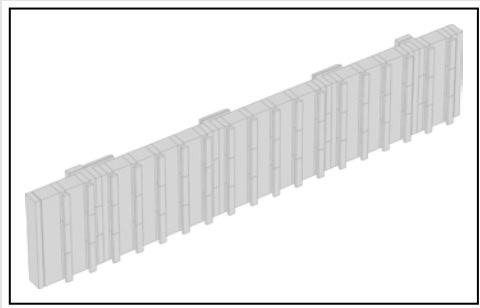


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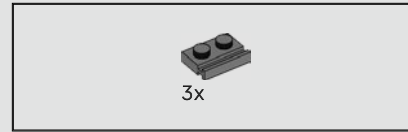
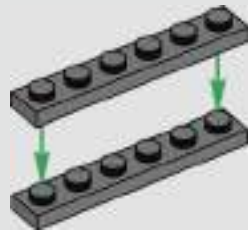


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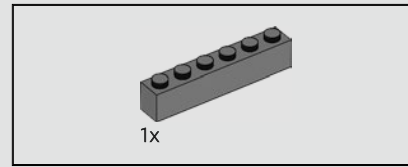
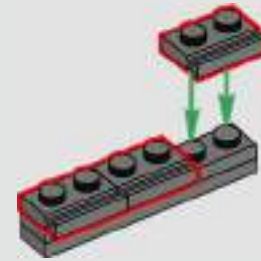




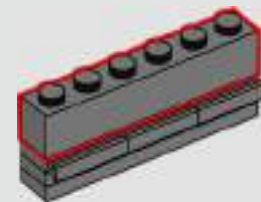
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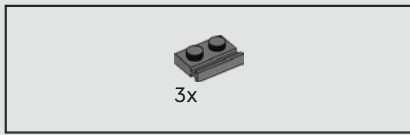


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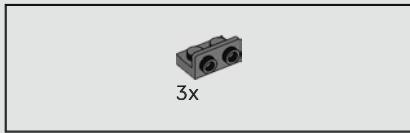
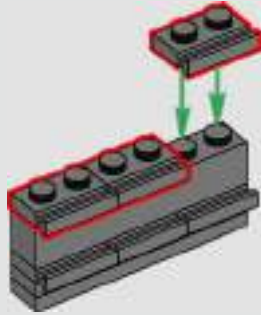


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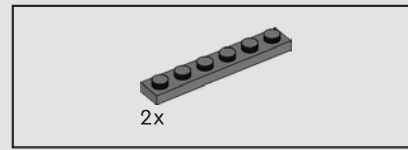
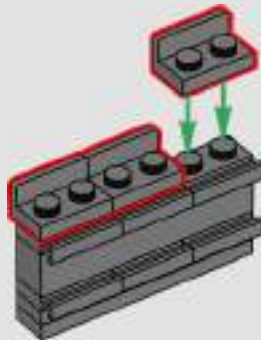




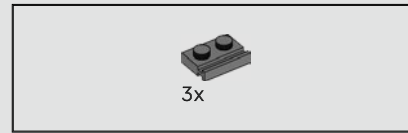
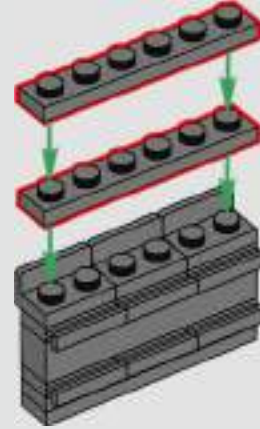
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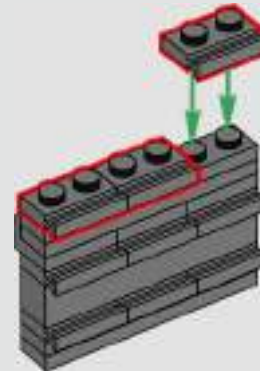
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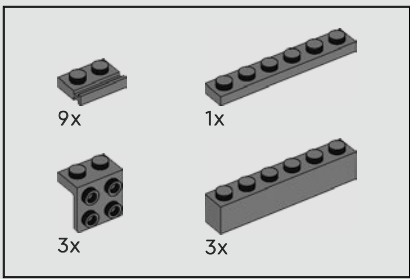


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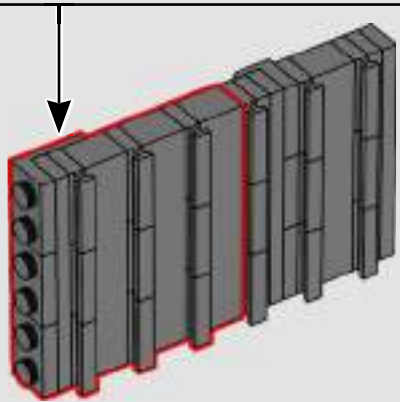
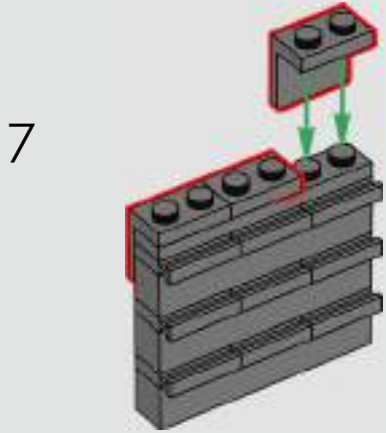
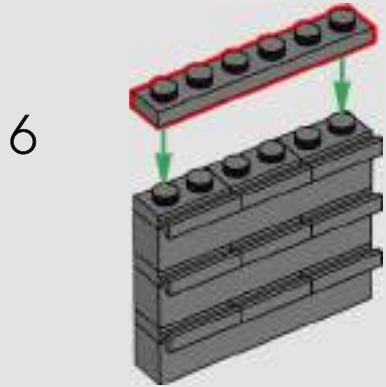
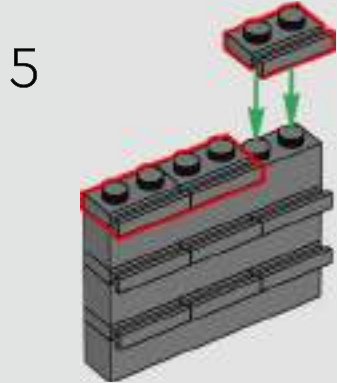
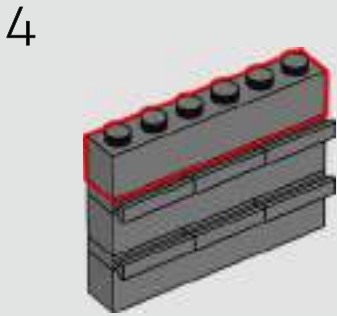
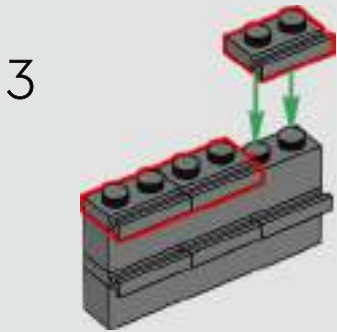
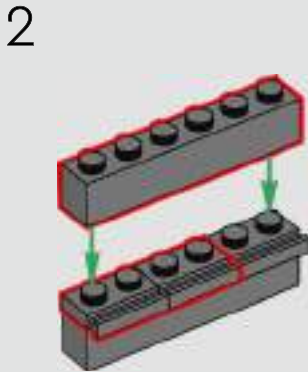
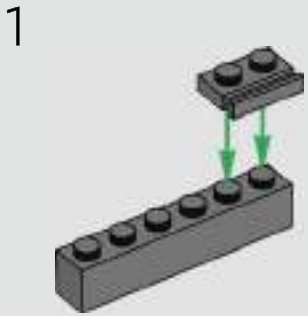


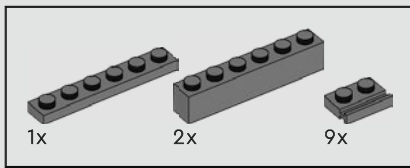
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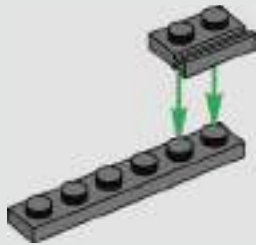
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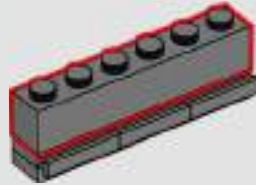
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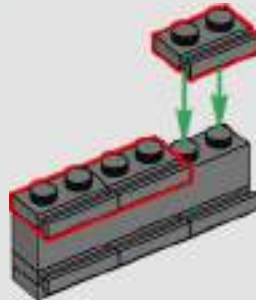
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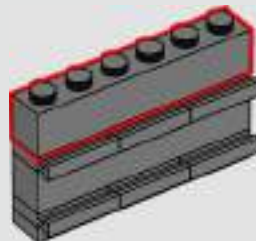
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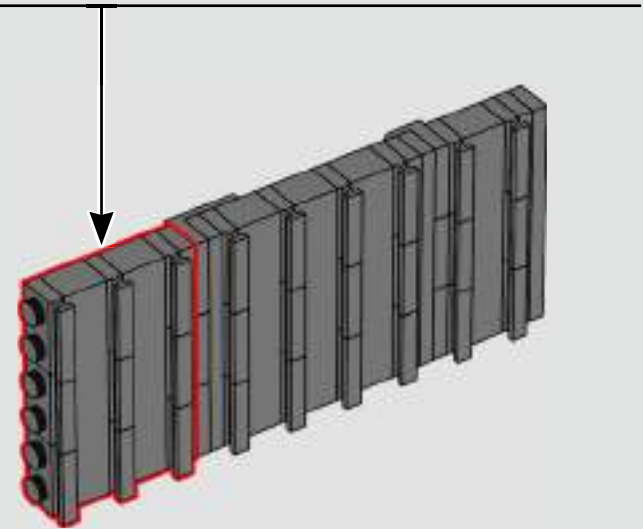
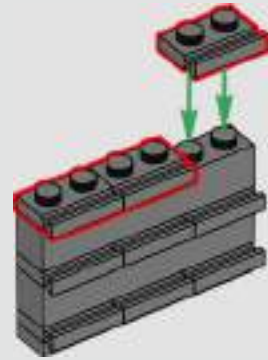
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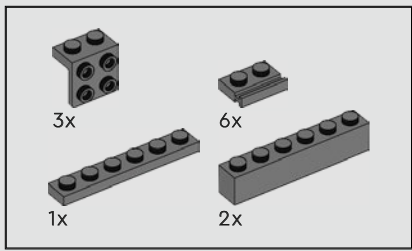


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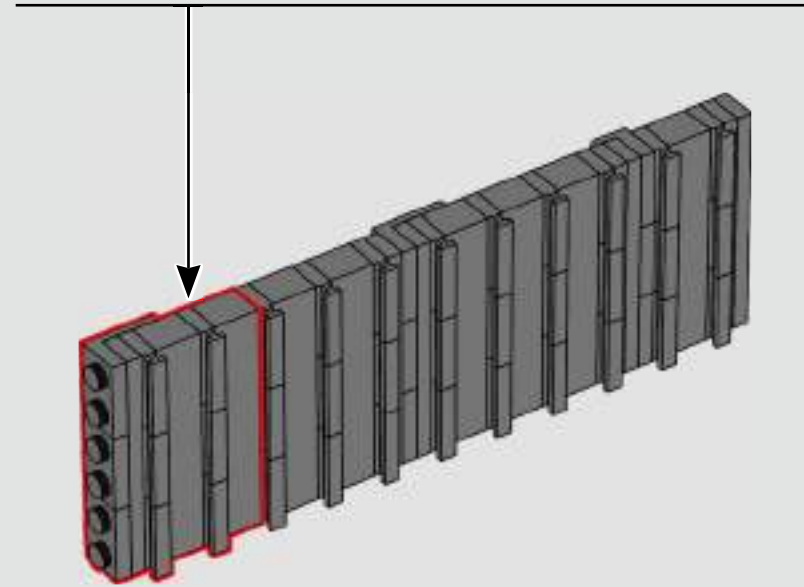
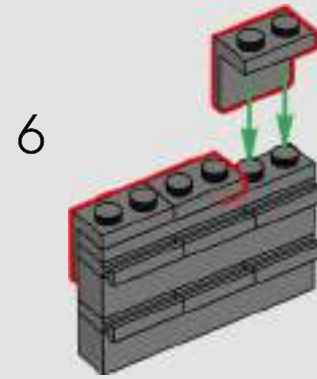
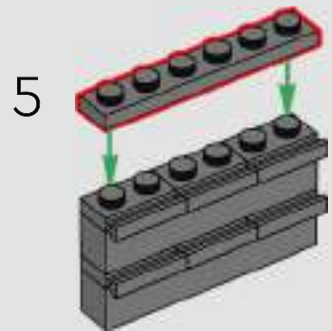
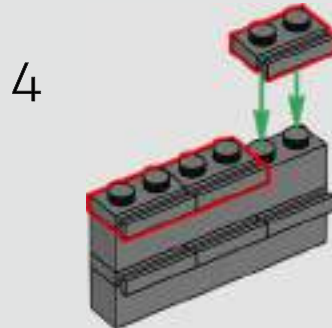
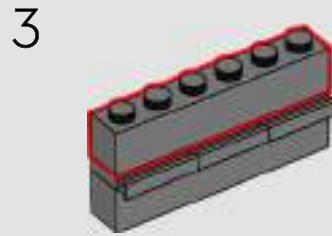
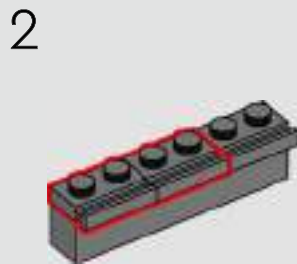
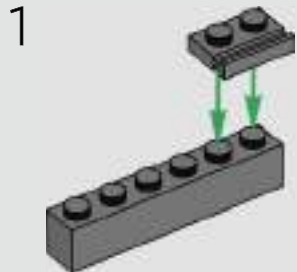


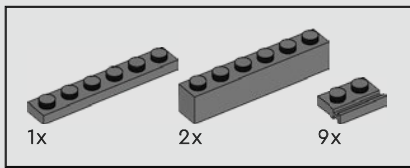
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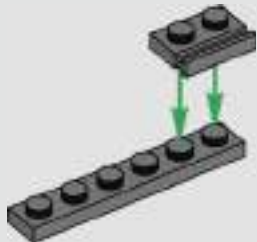
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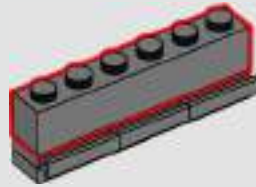
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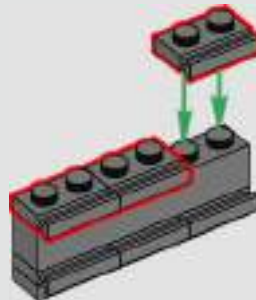
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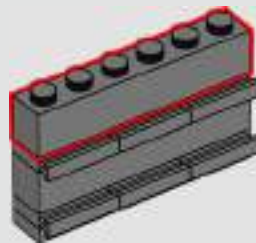
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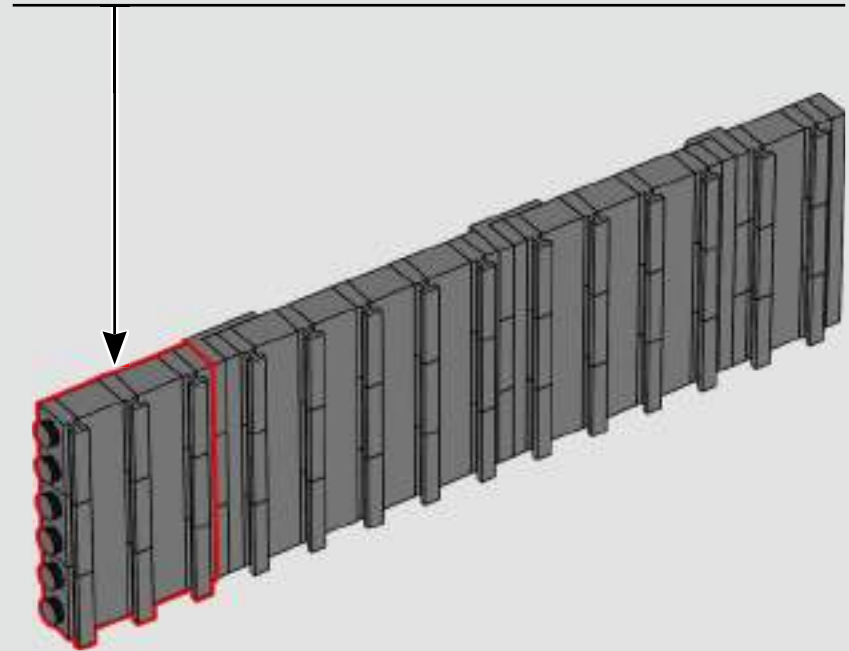
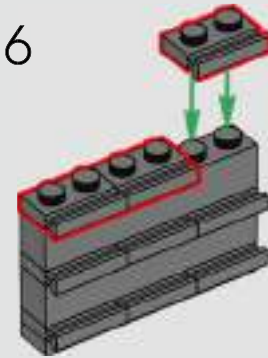
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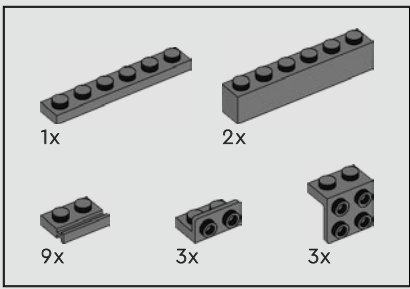


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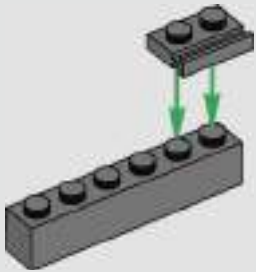
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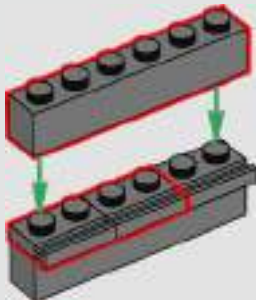


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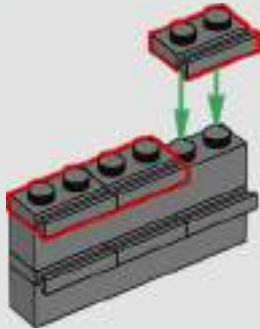
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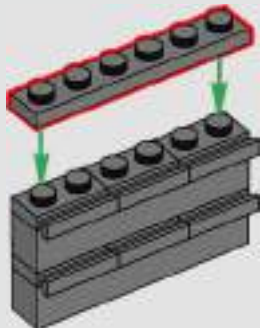
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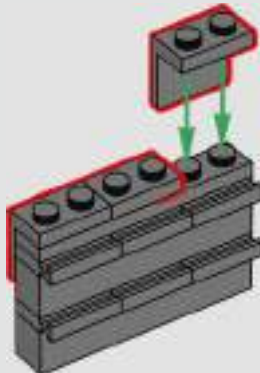
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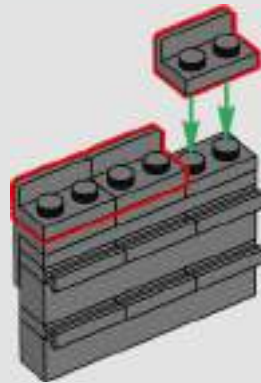
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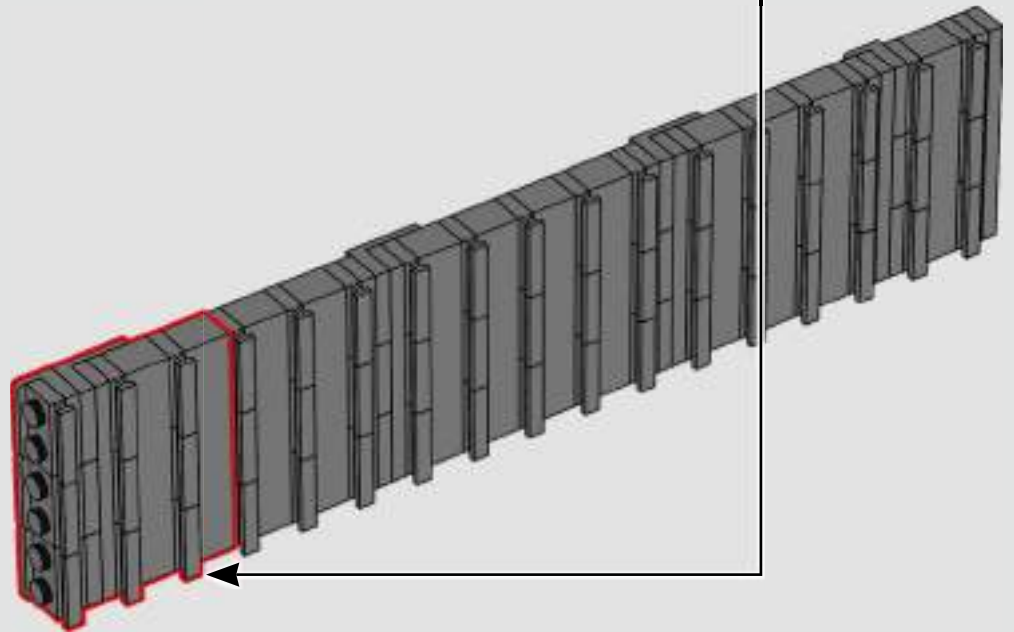
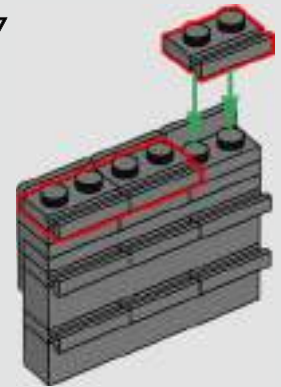
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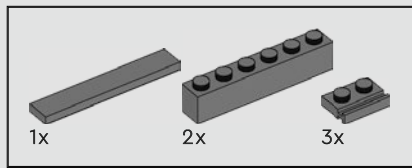


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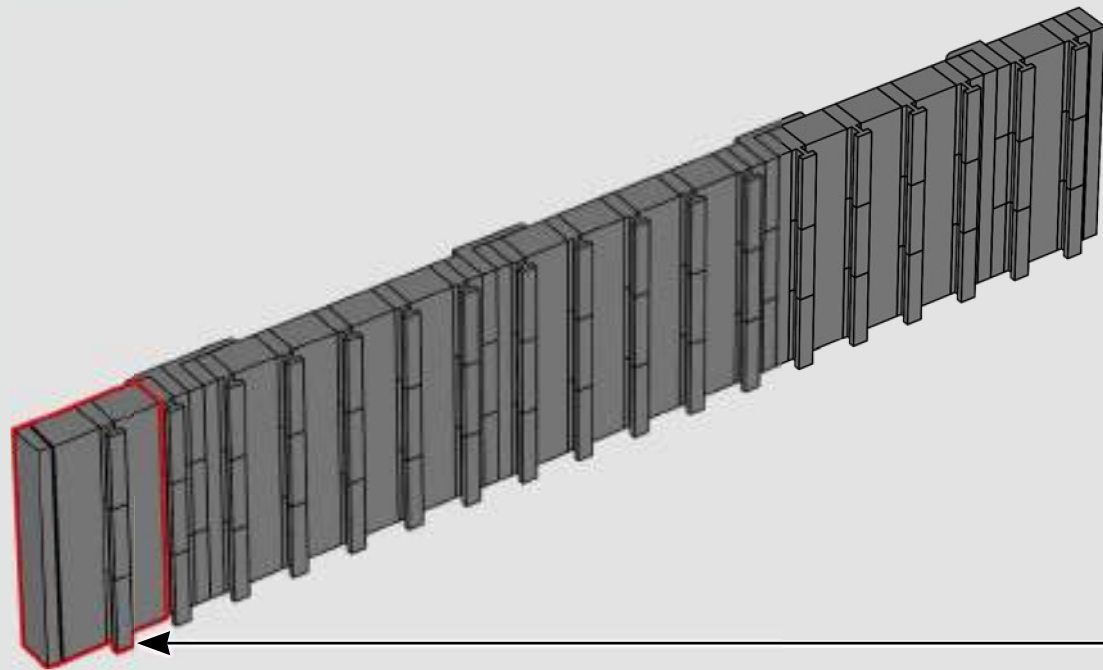
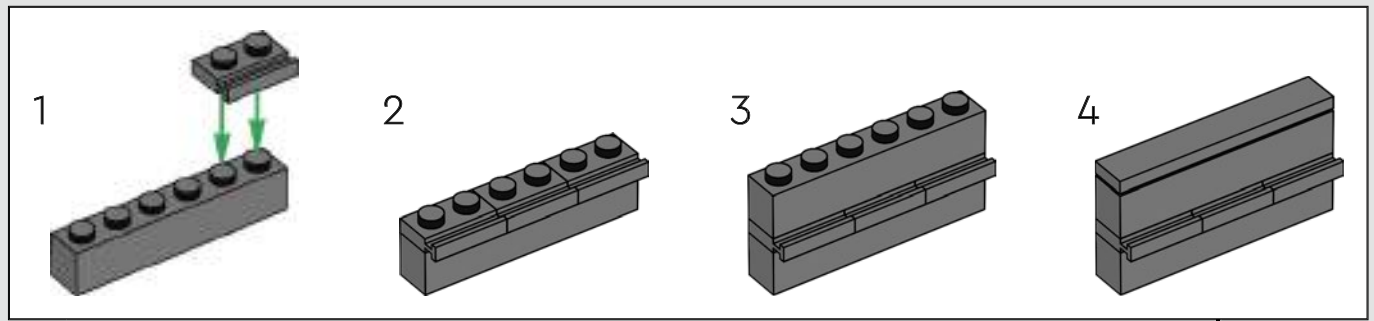


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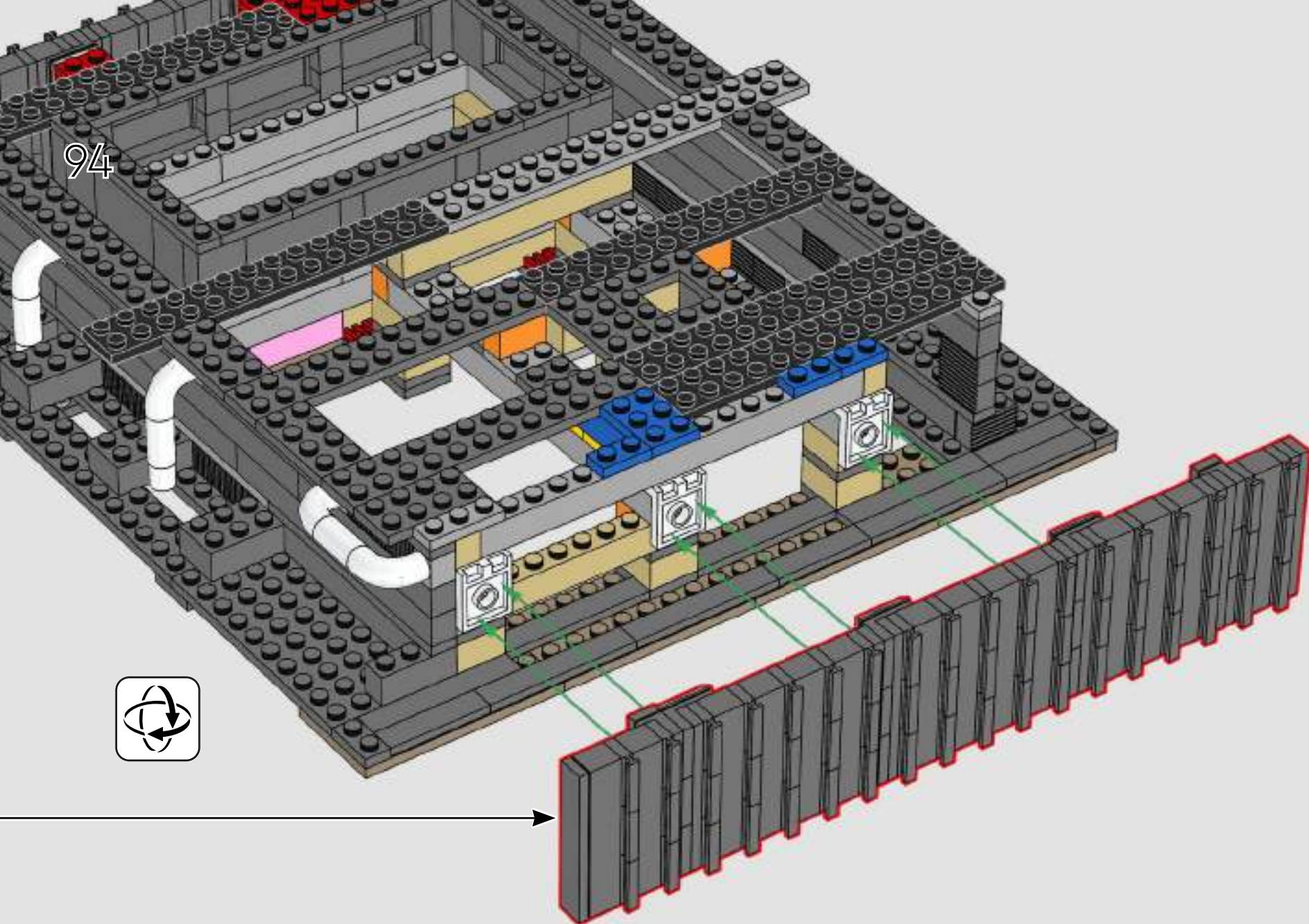


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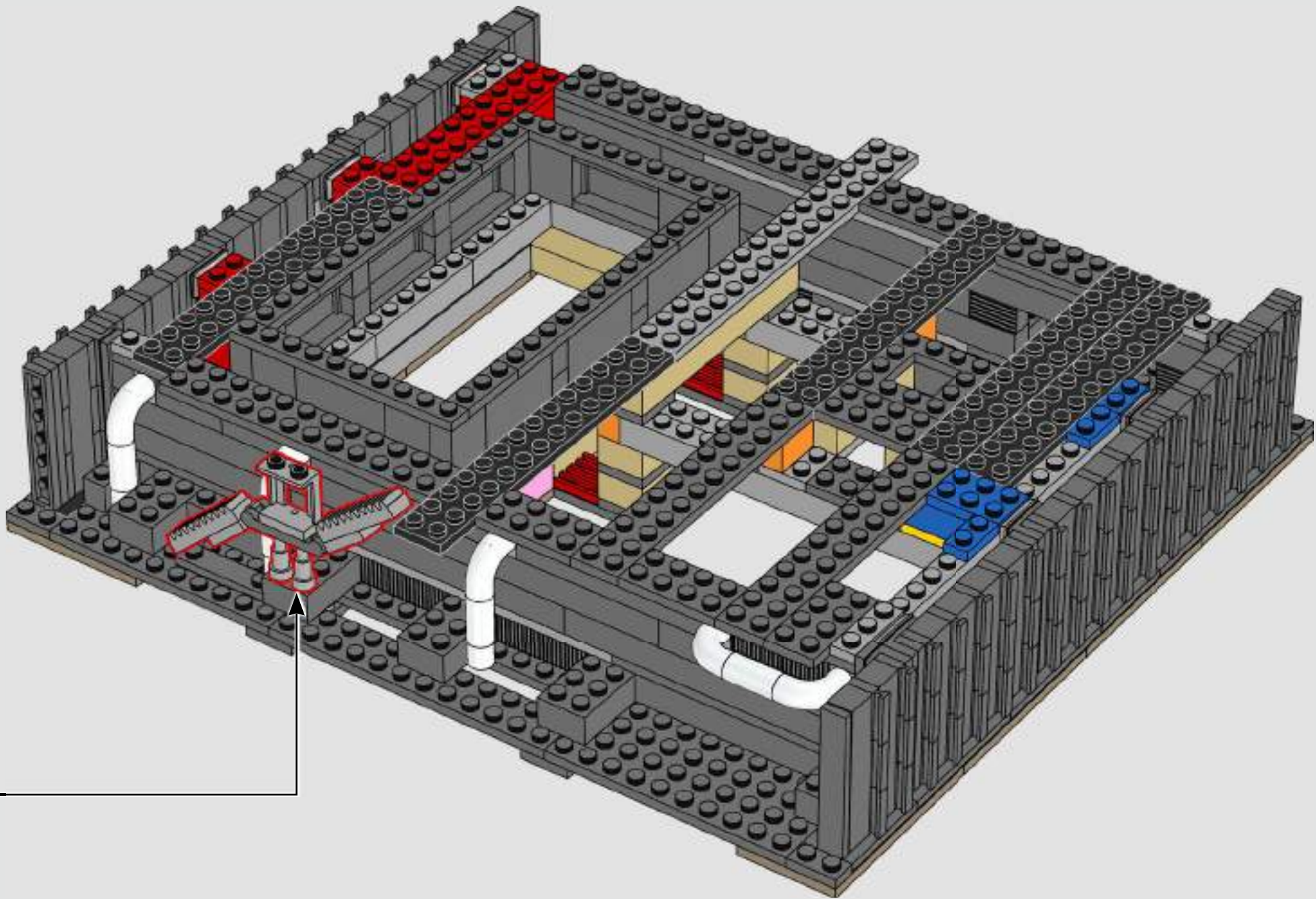


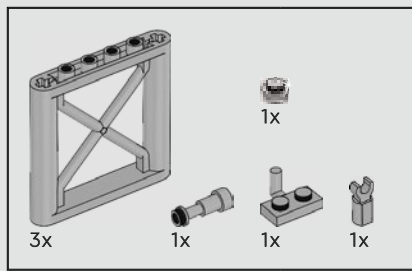


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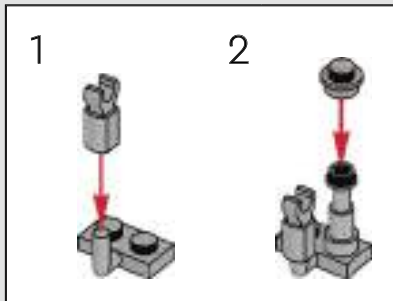
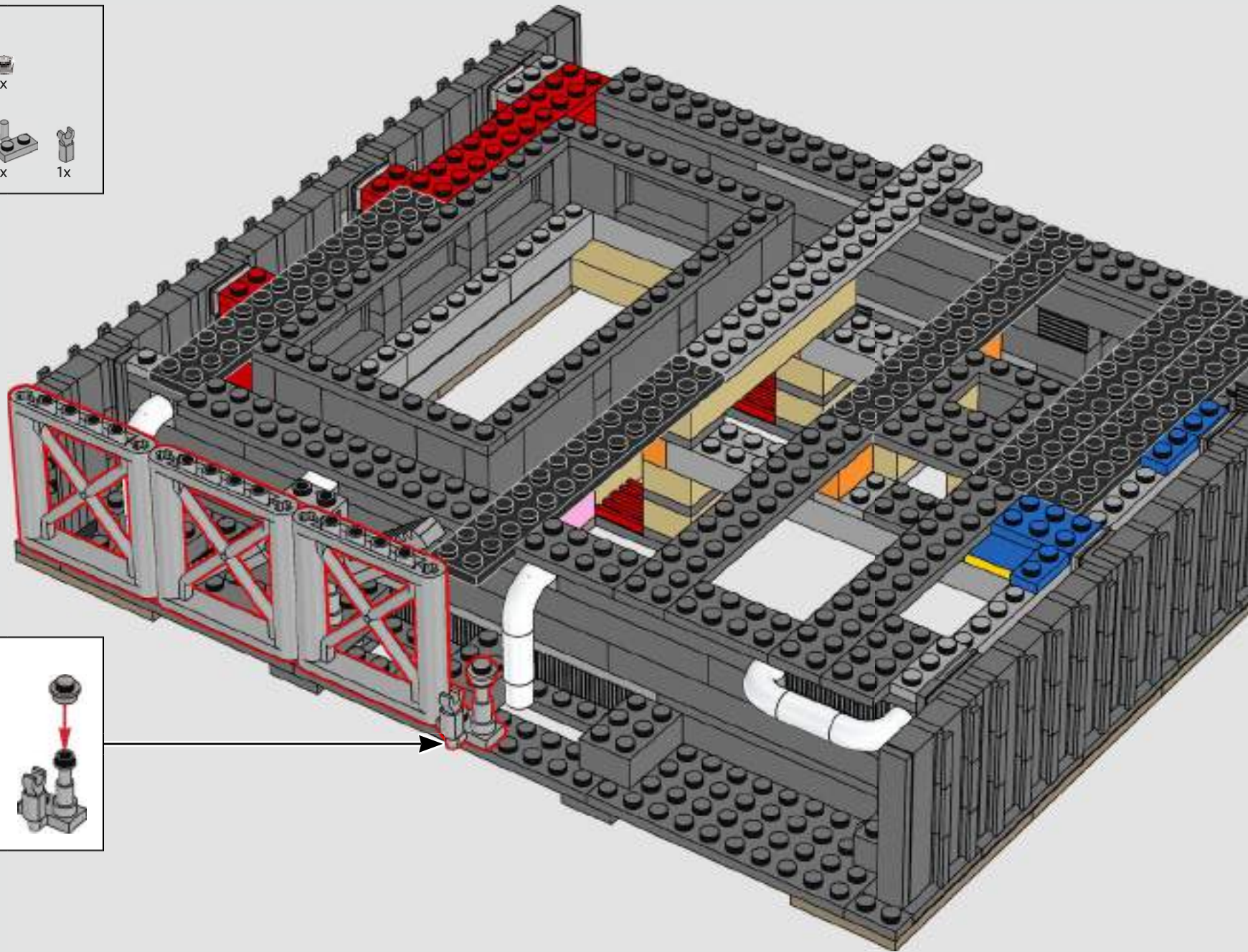


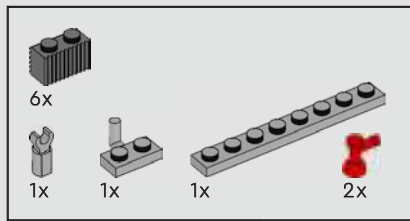




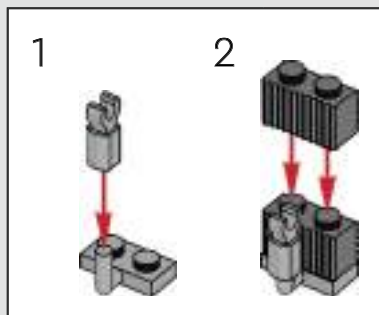
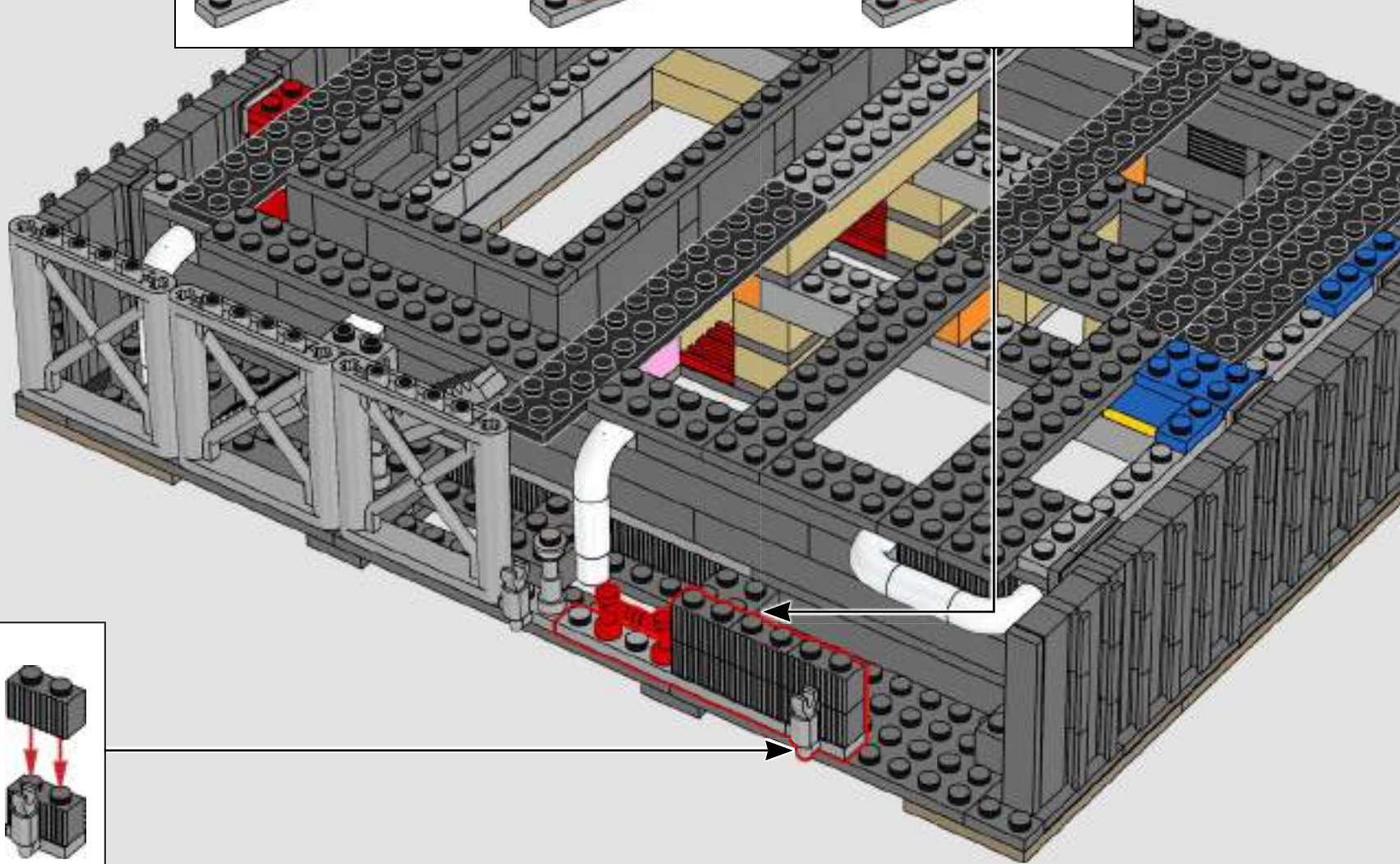
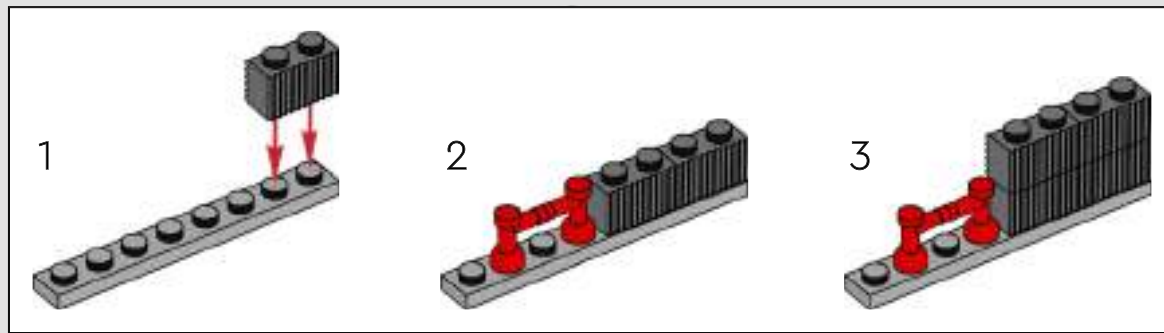


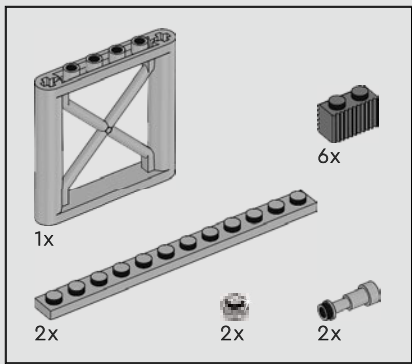
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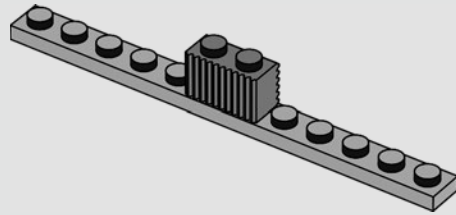
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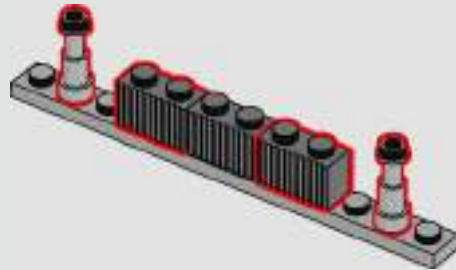


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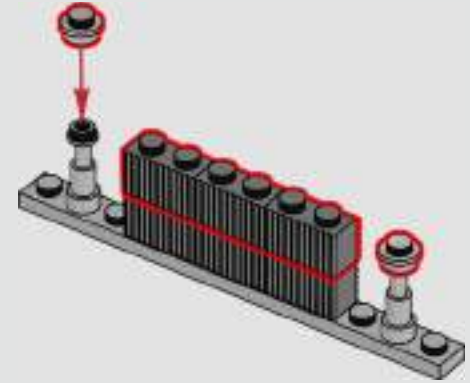
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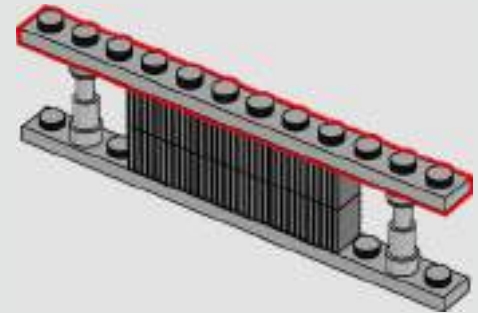
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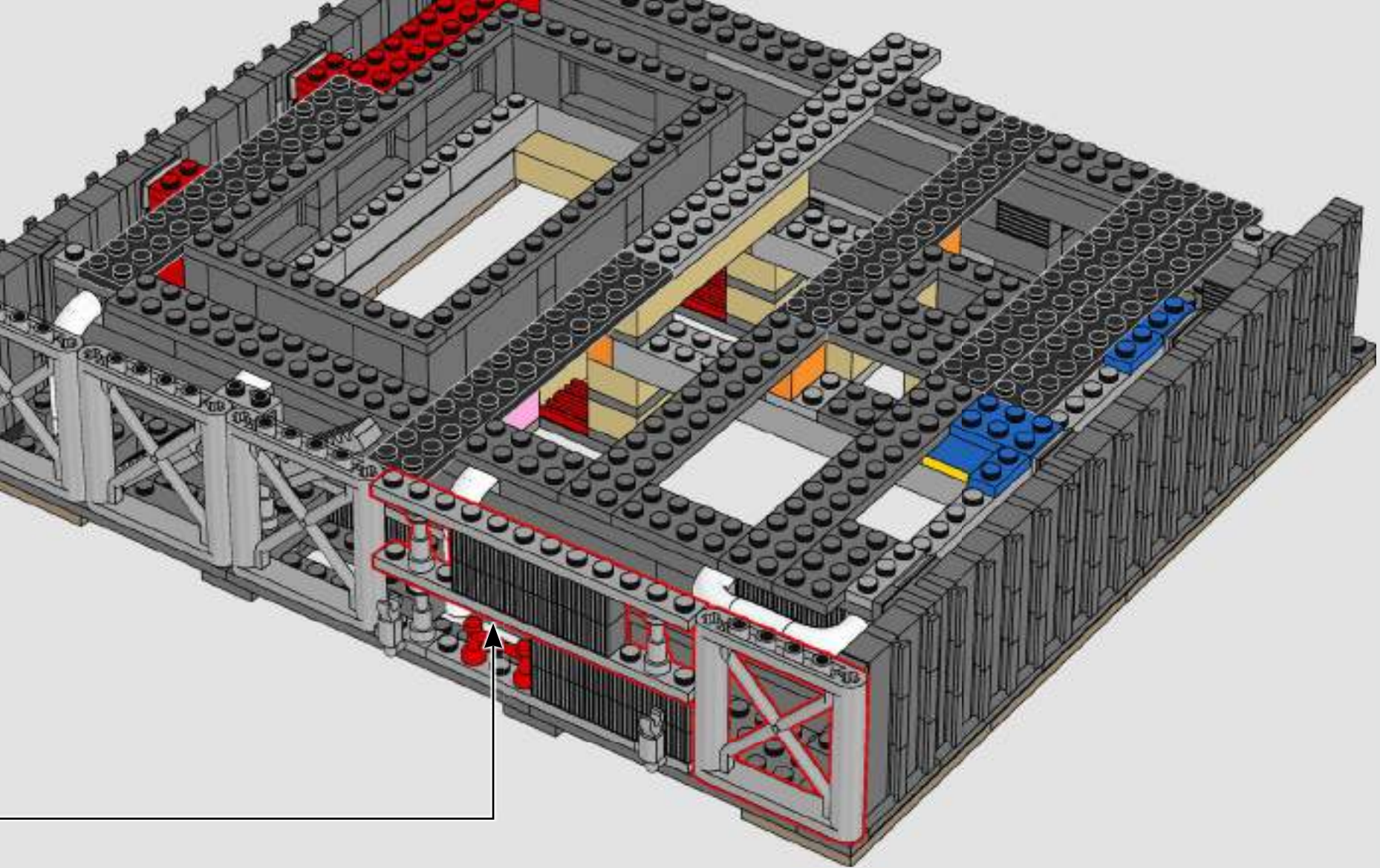


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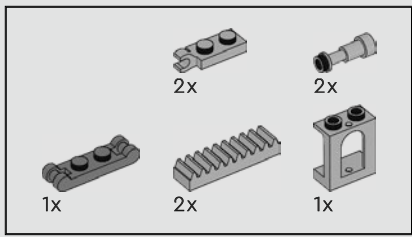


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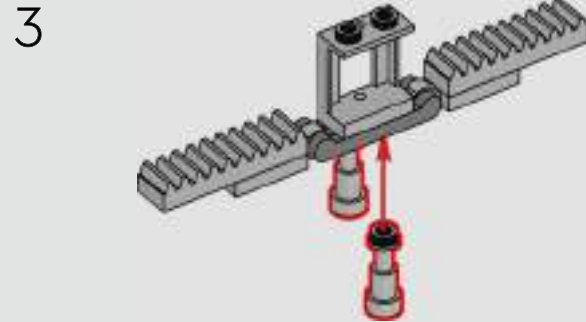
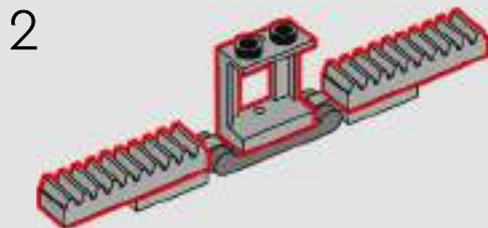


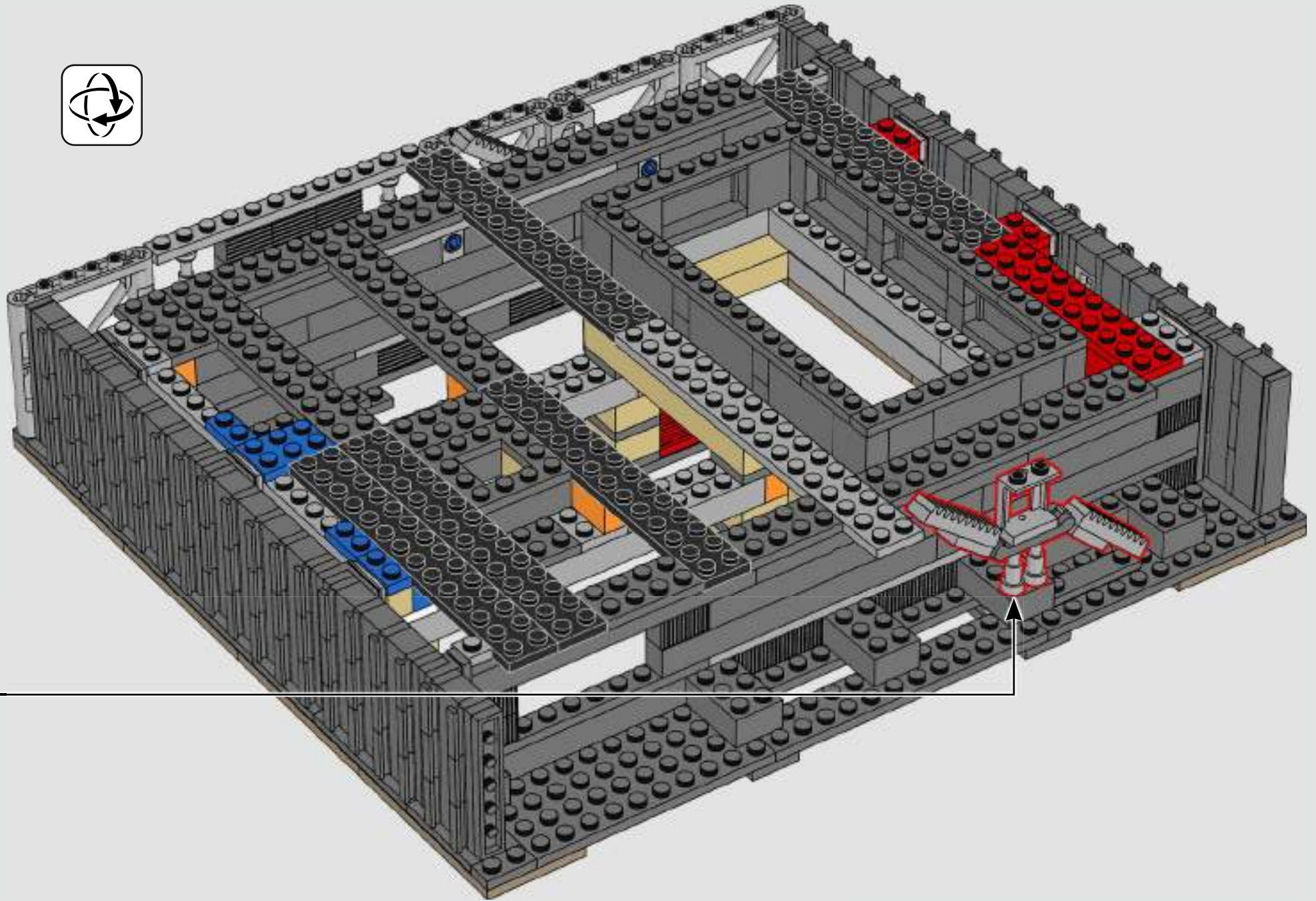


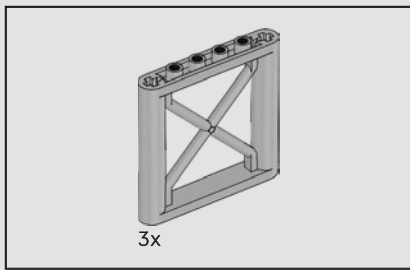
Unlike the real-life Space Shuttle launch pad, the LEGO® SLS platform has partly open sides showing interior details like pipes and staircases.



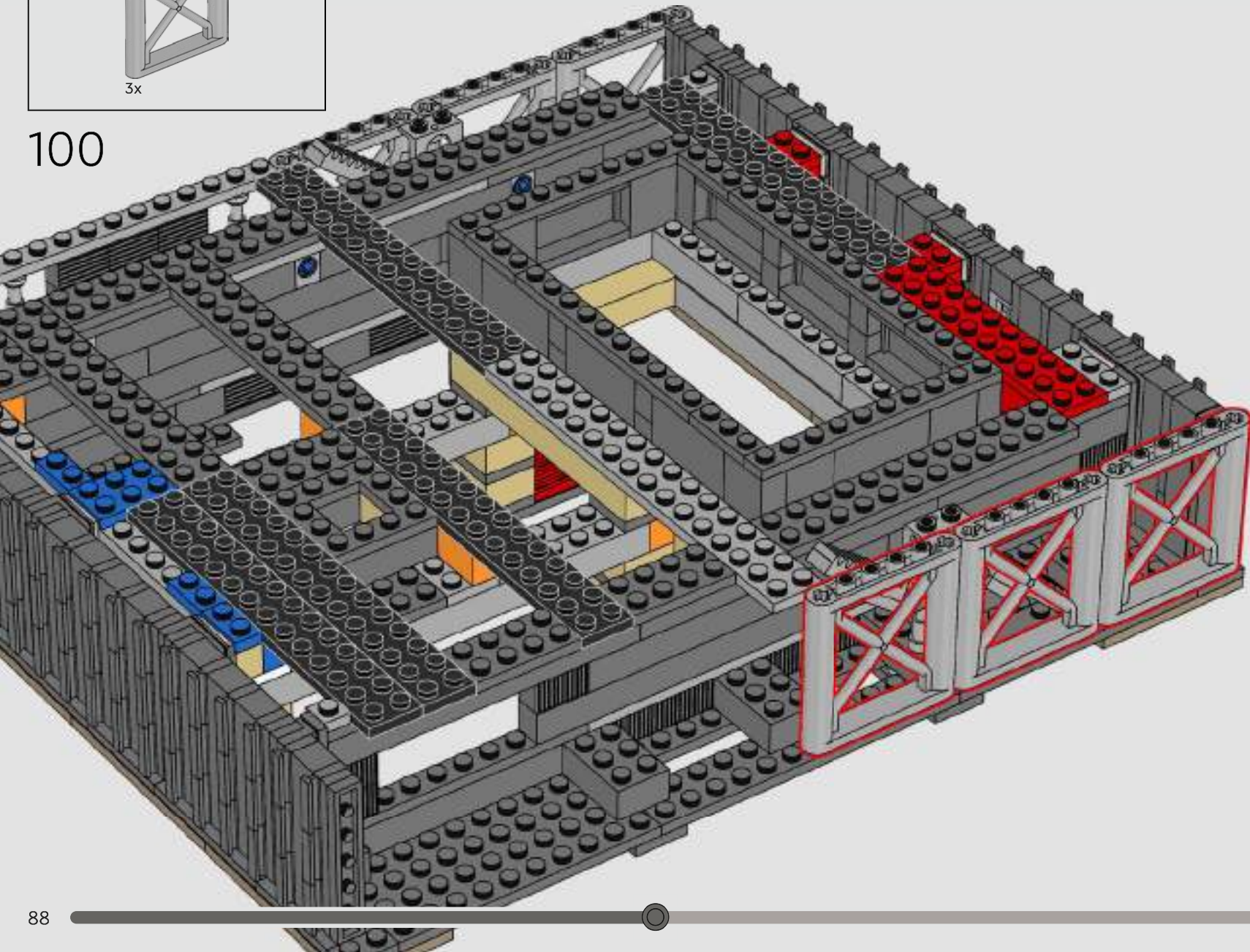
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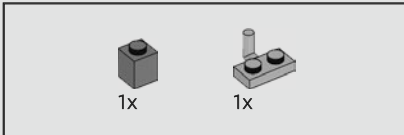
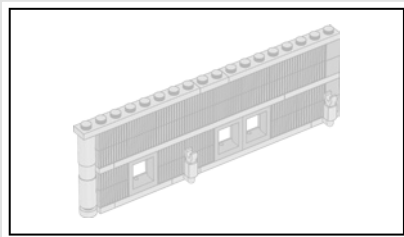






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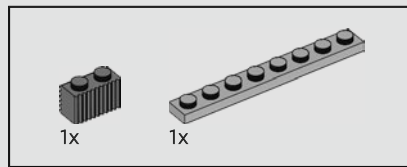




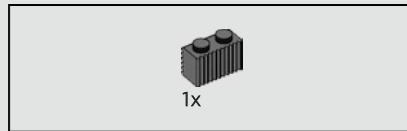
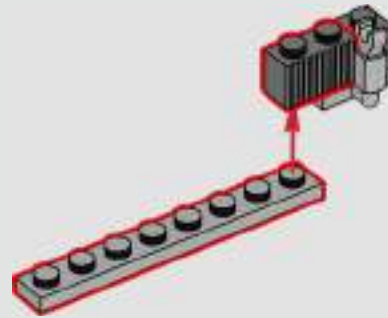
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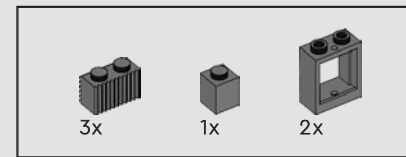
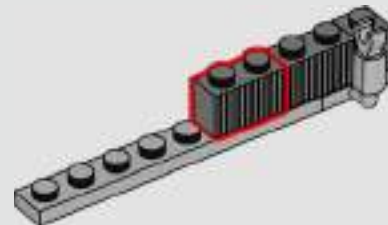
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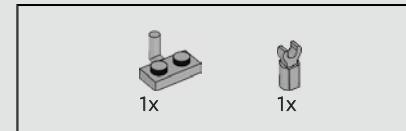
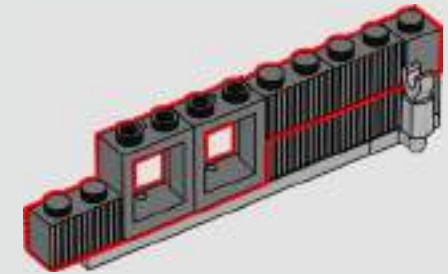
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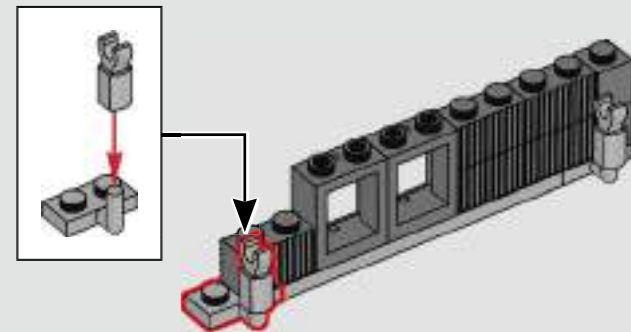
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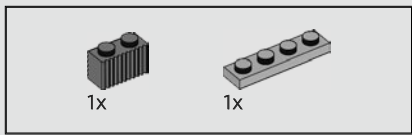


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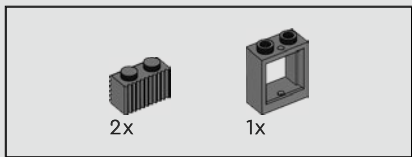
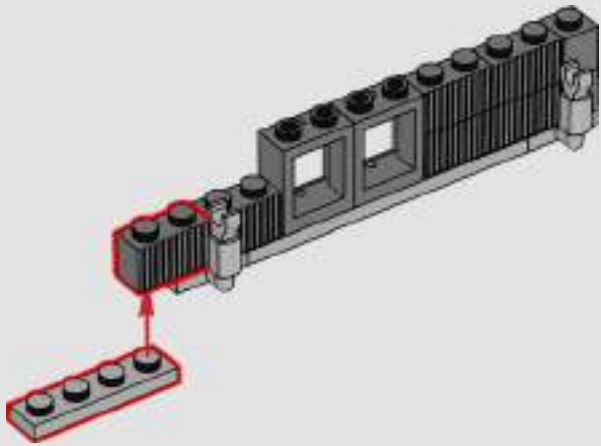


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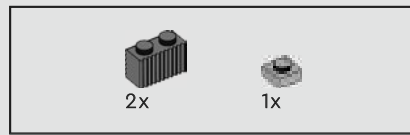
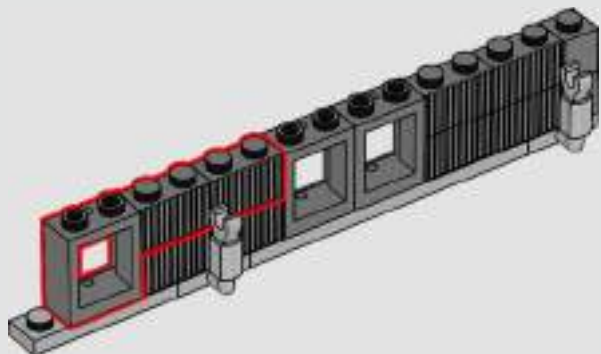




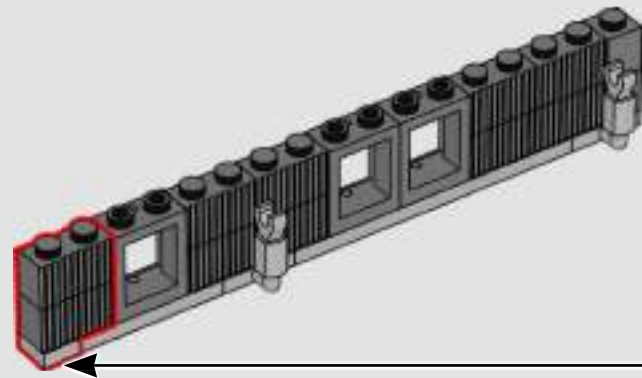
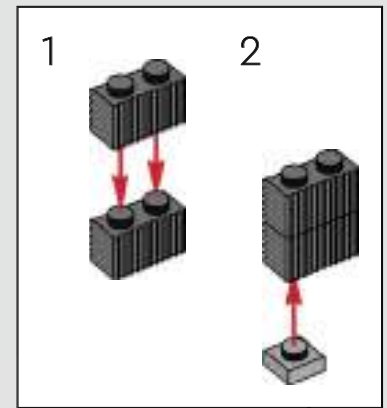
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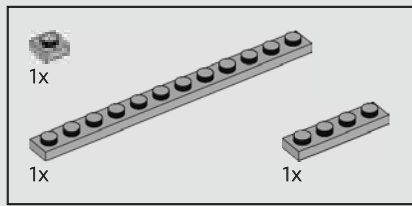


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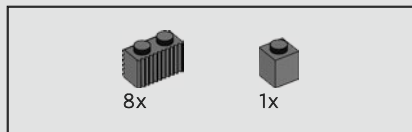
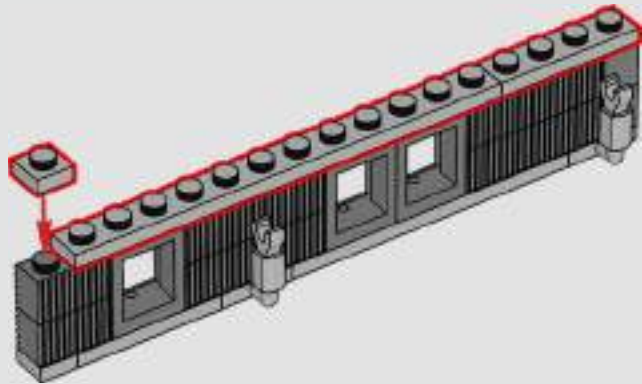


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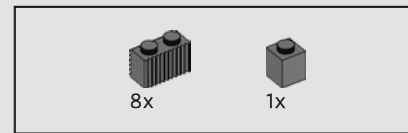
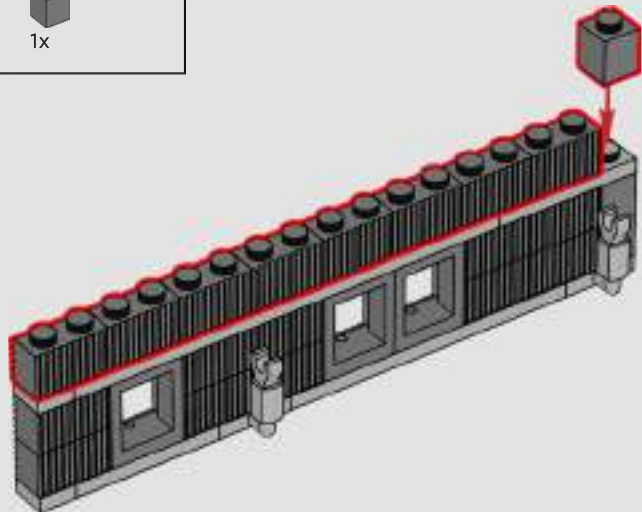




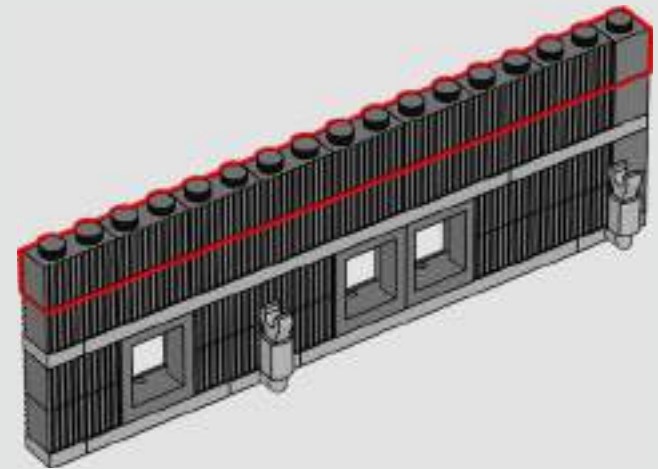
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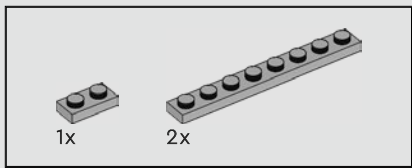


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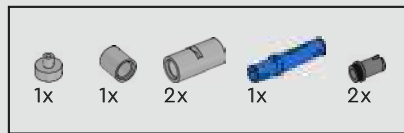
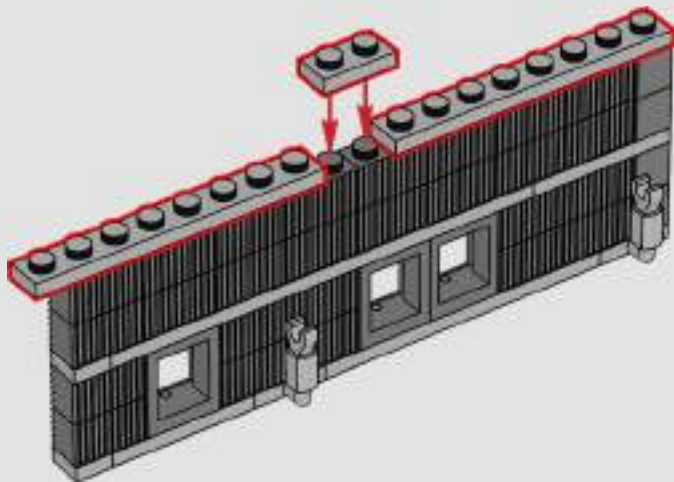


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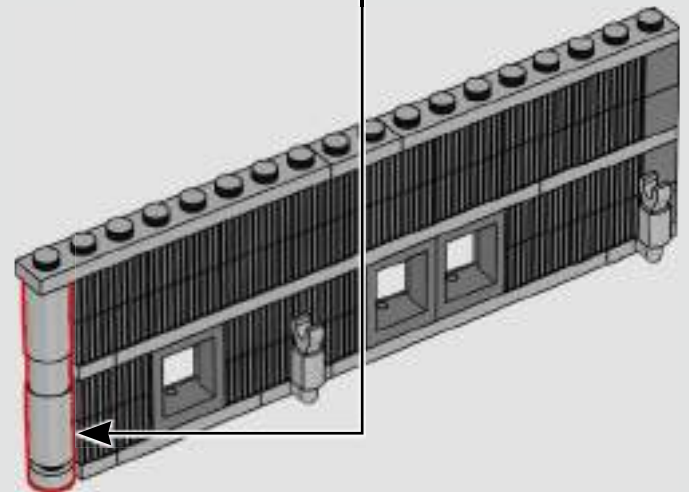
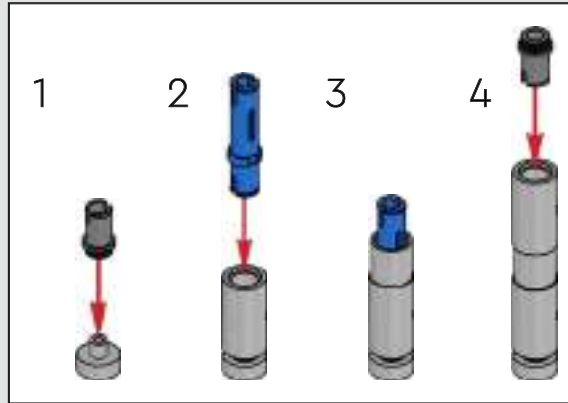




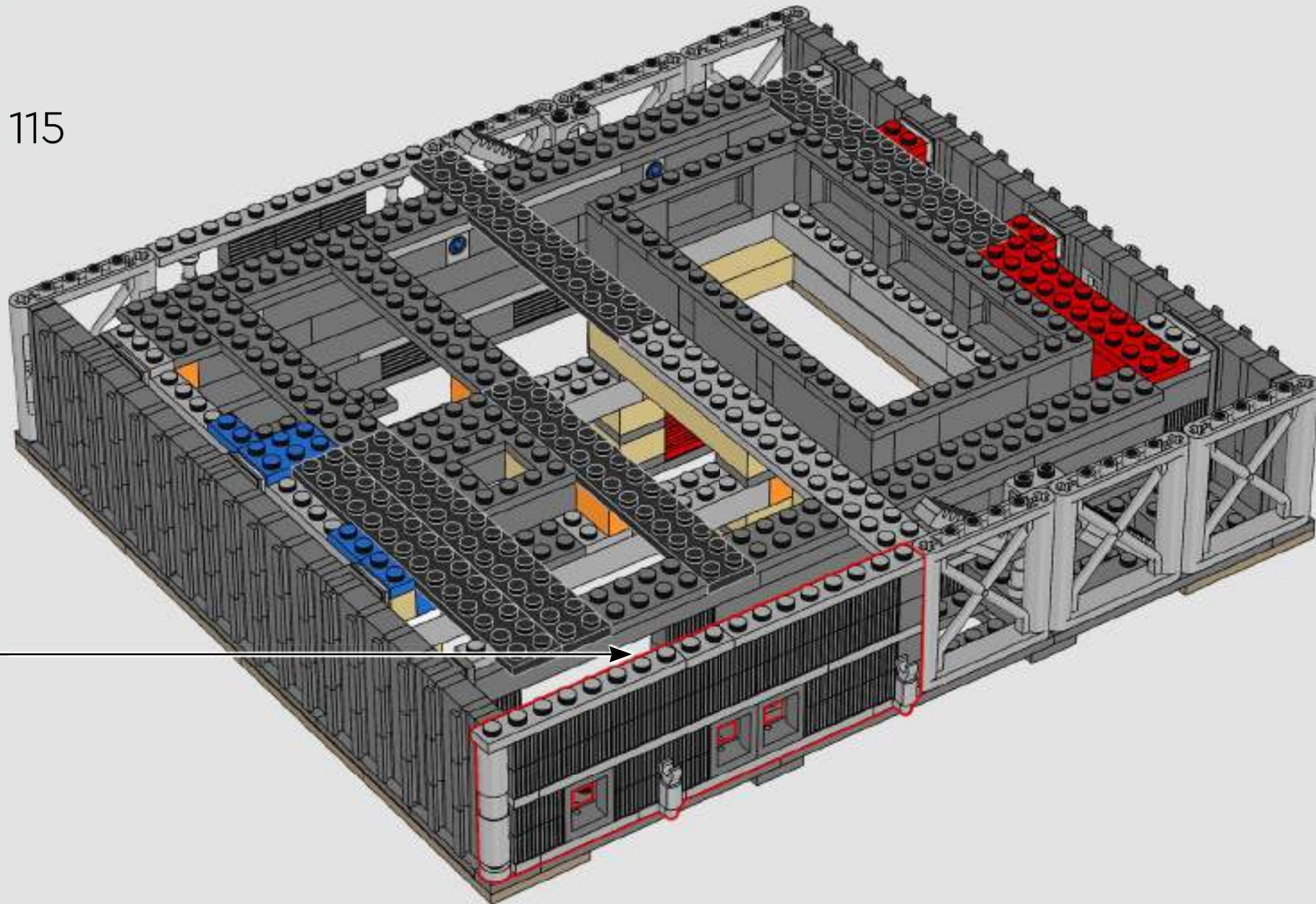
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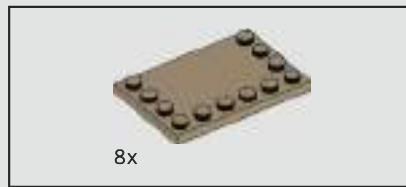


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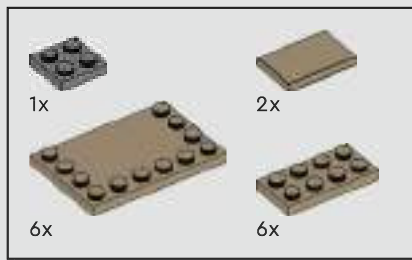
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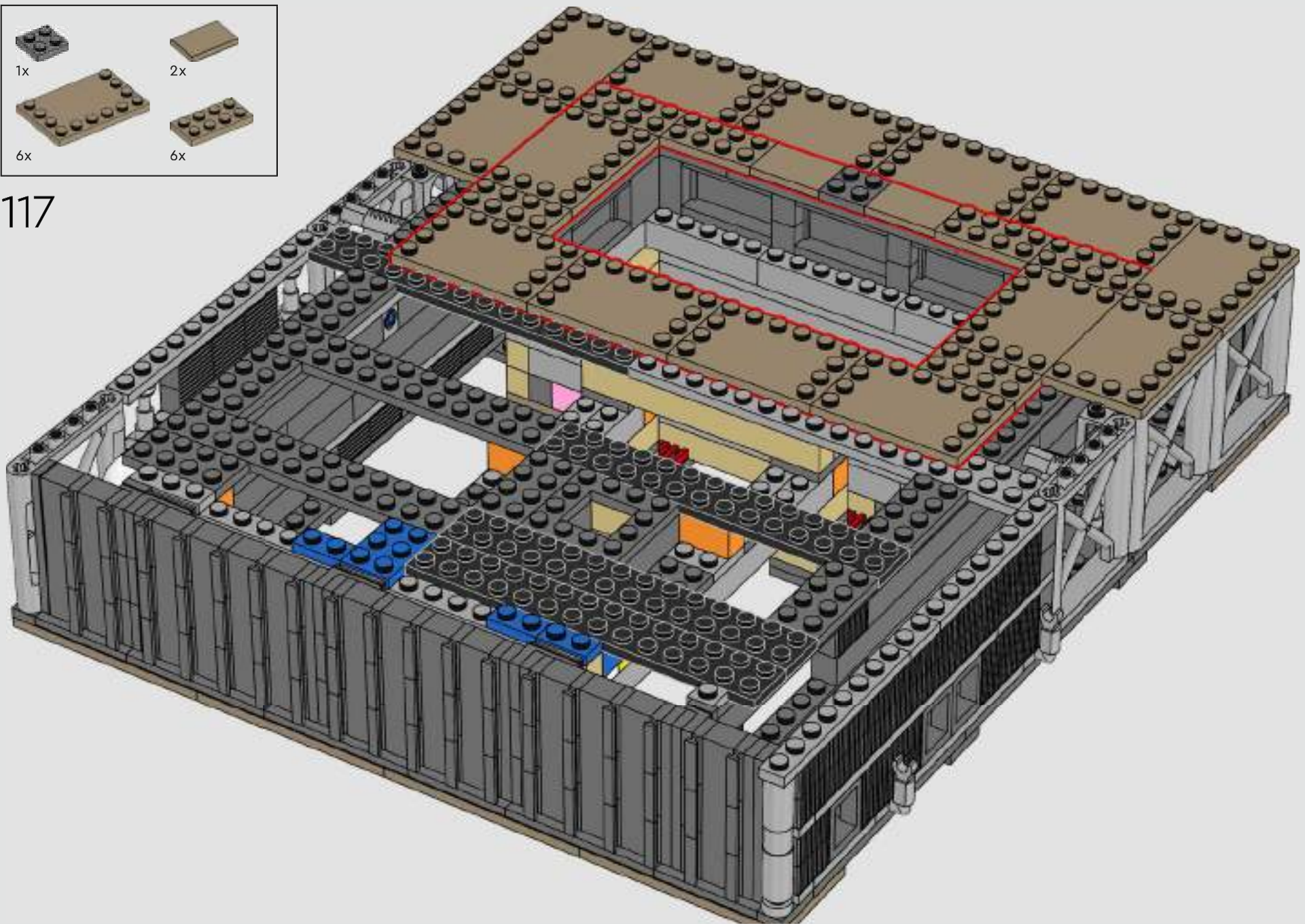


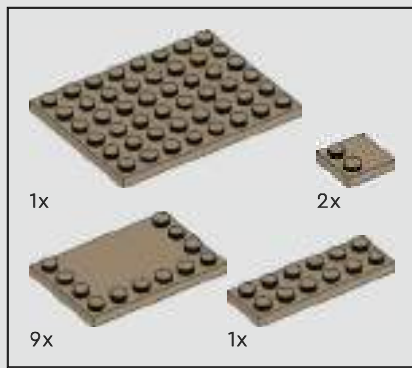
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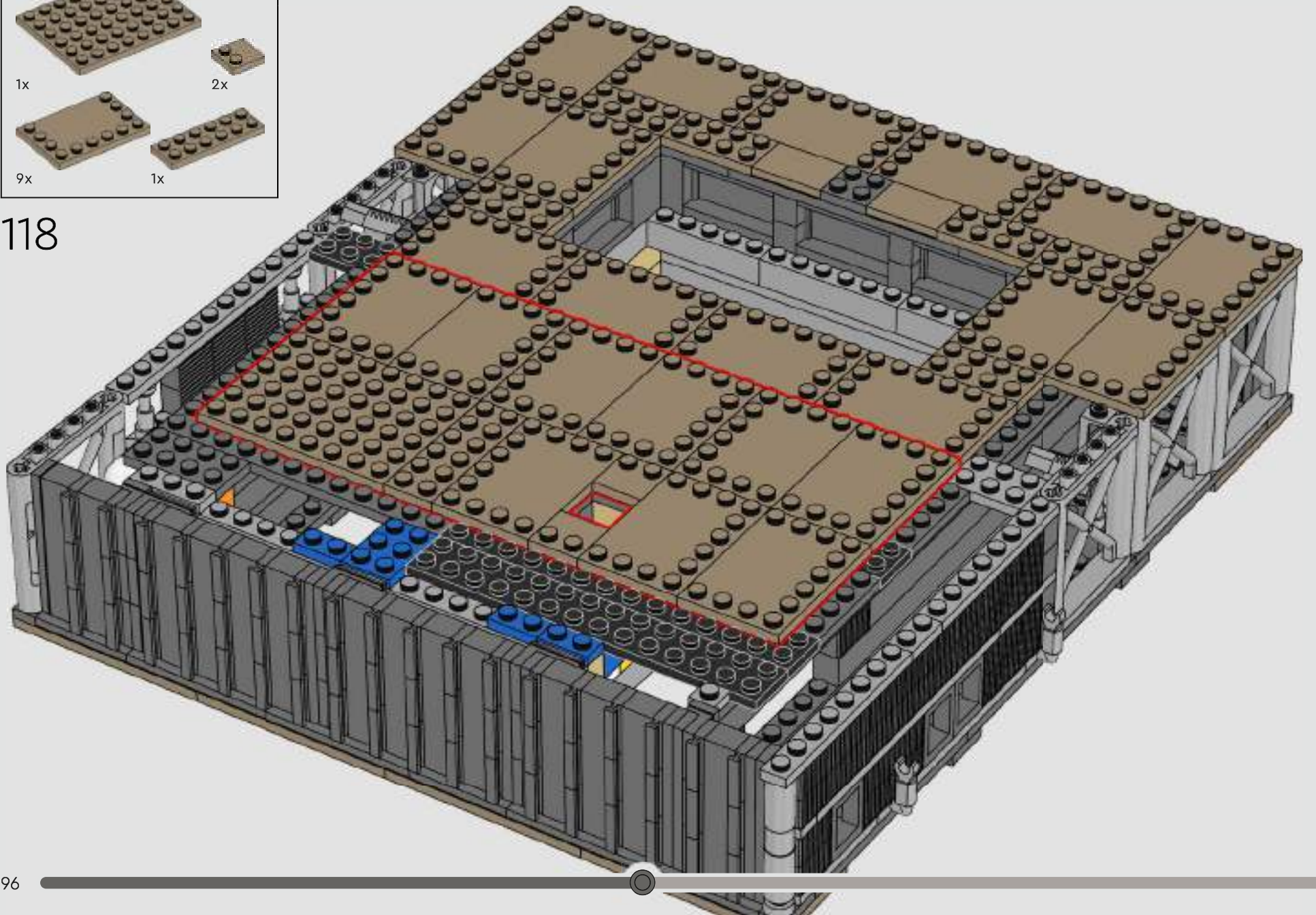


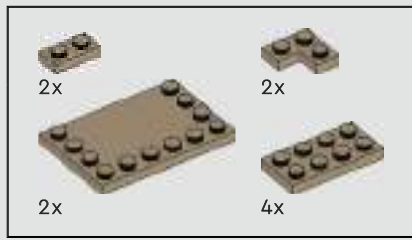
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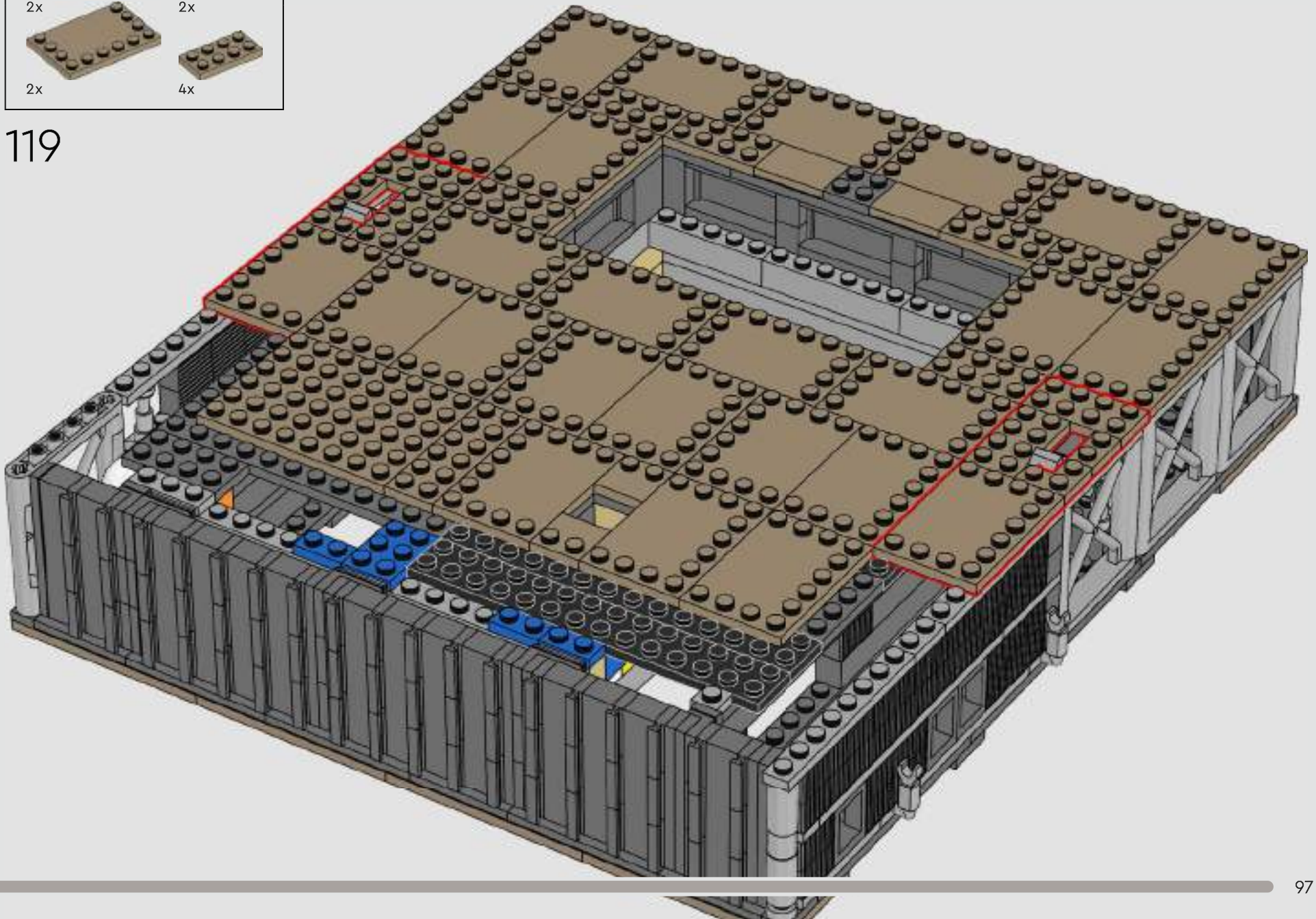


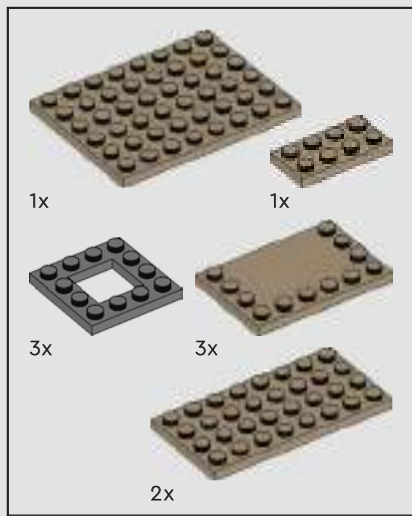
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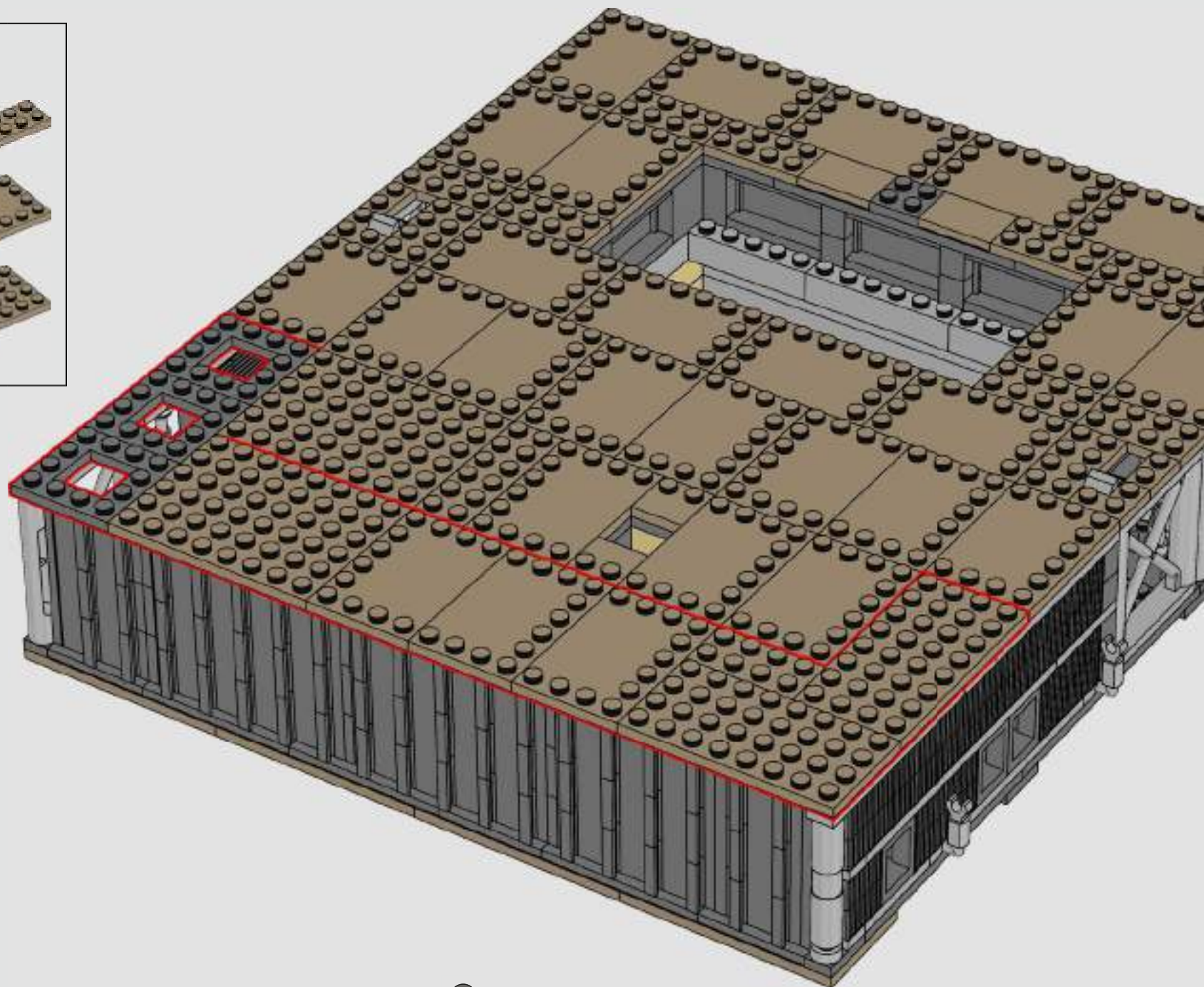


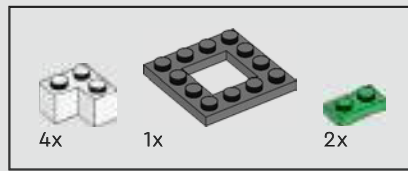
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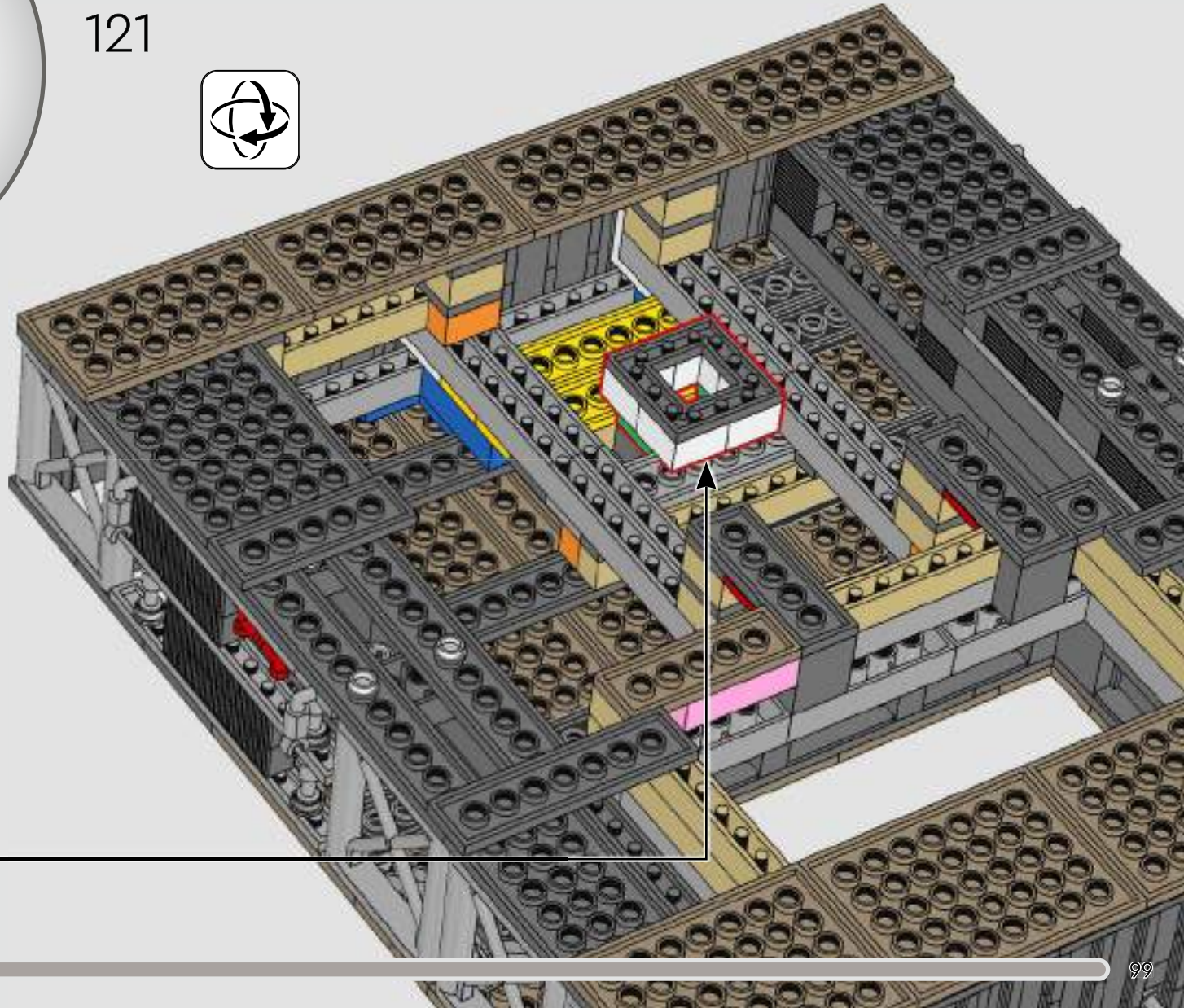
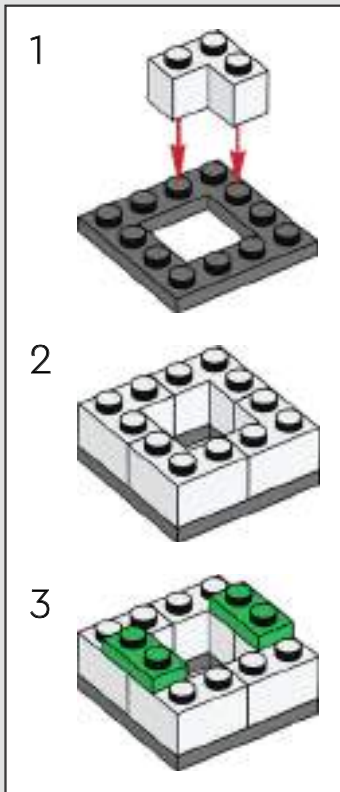


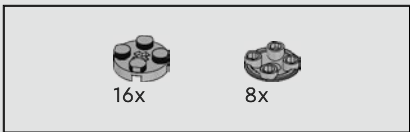
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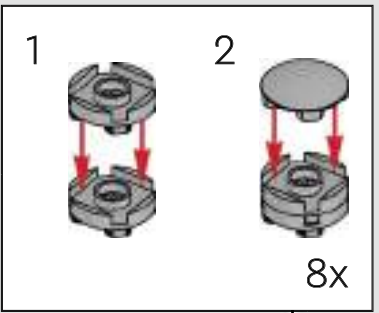
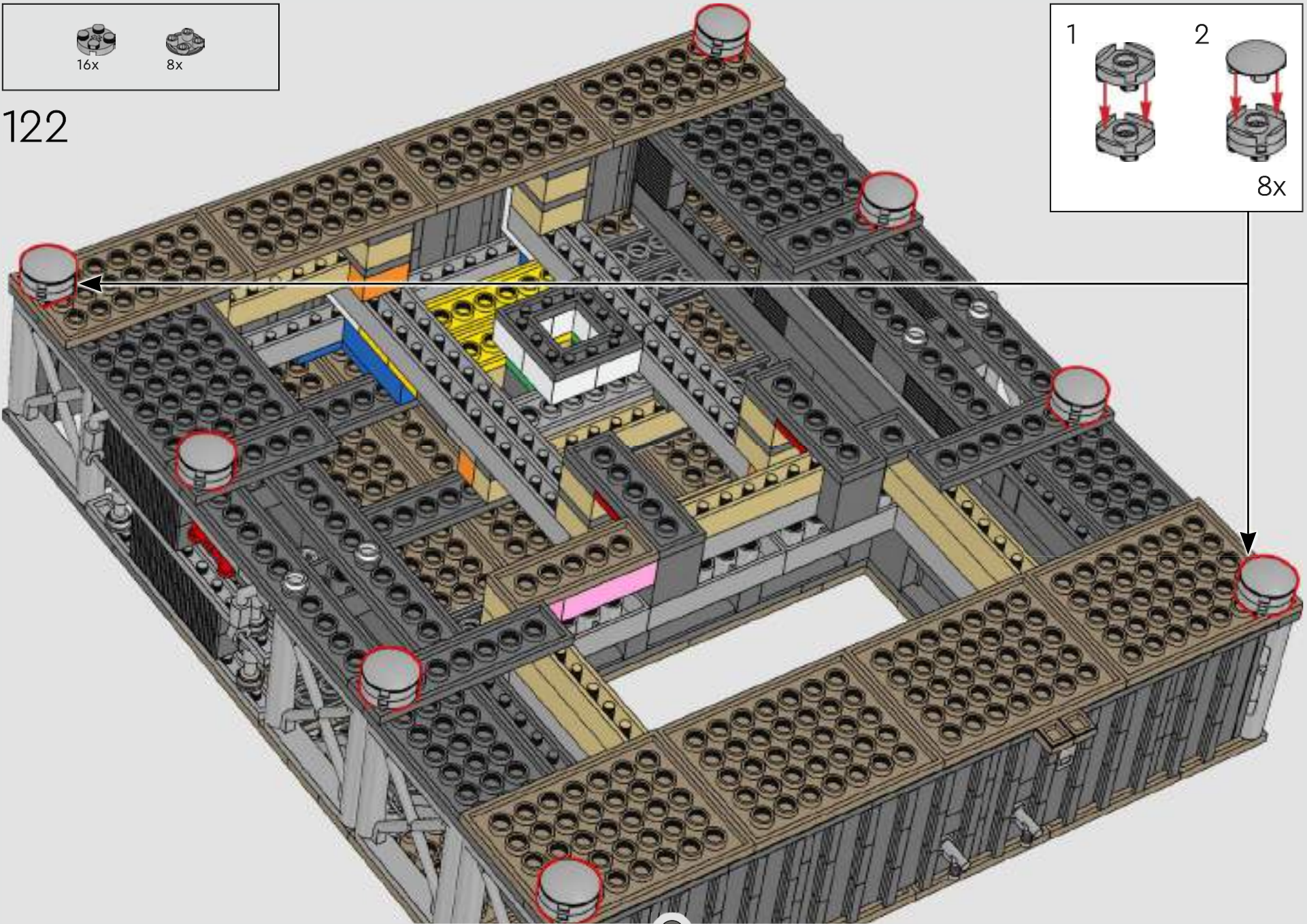


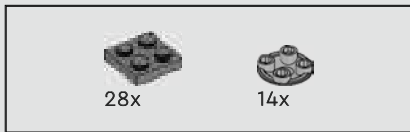
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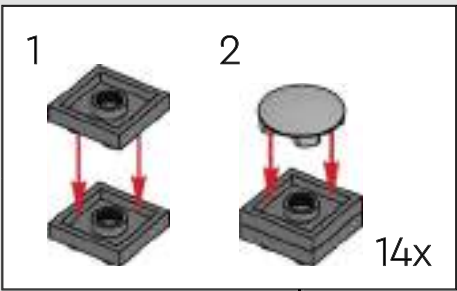
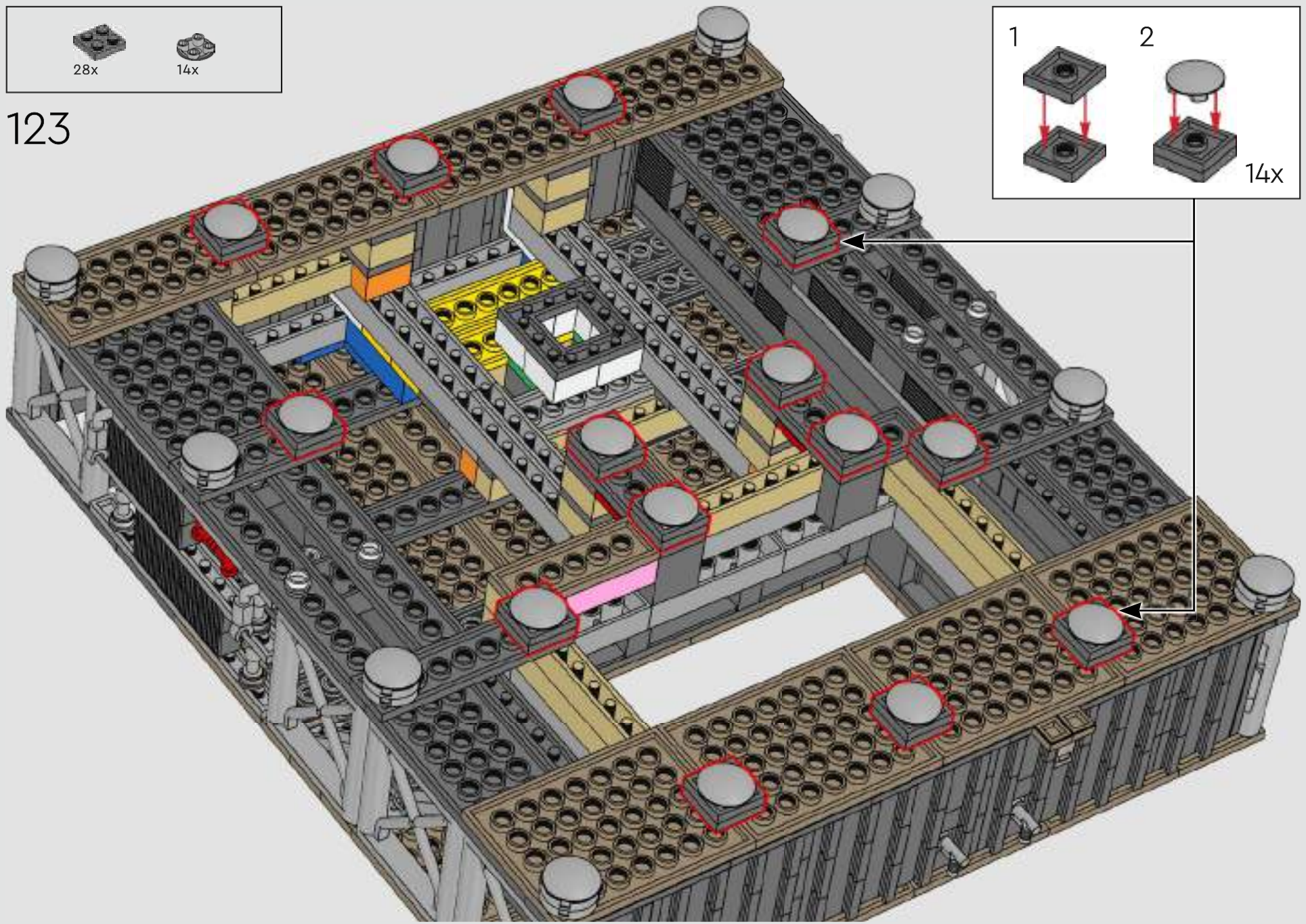


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123





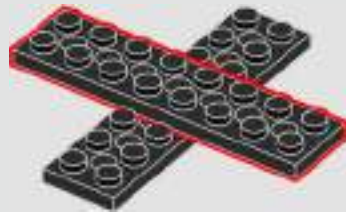
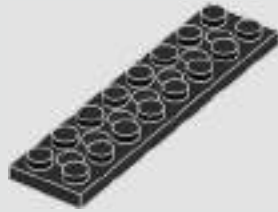
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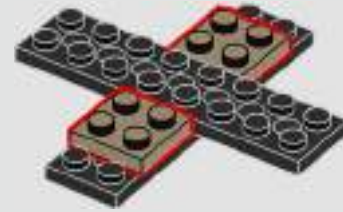
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125



2x

126



2x

127

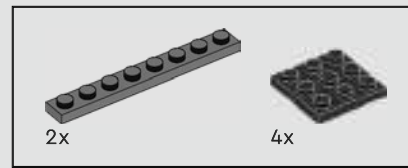
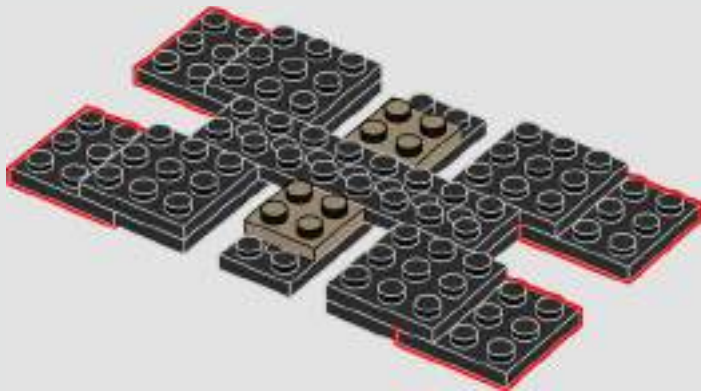




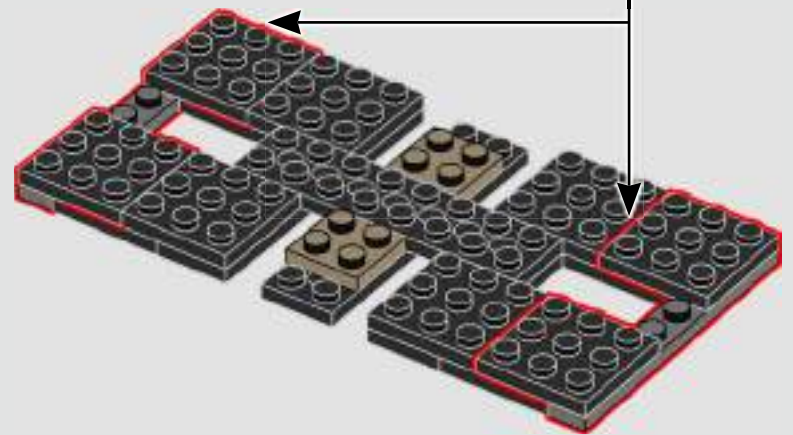
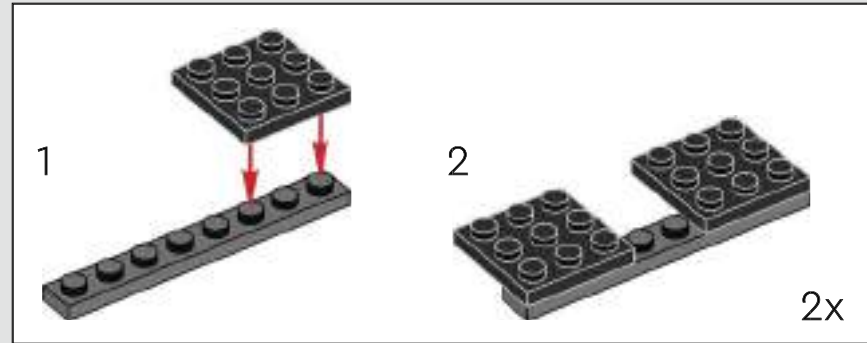
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129



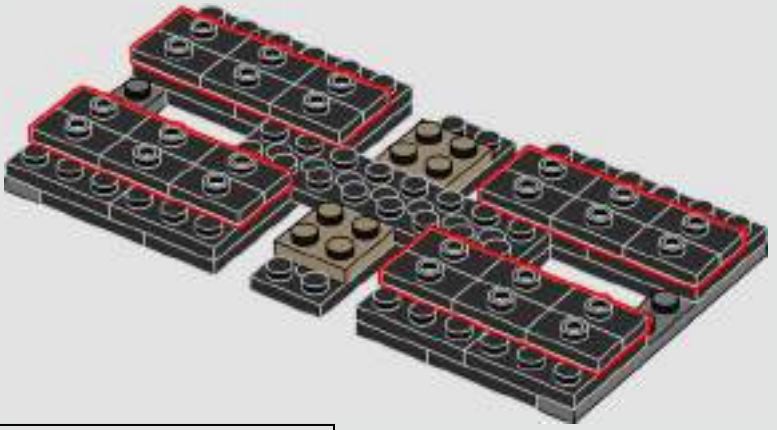
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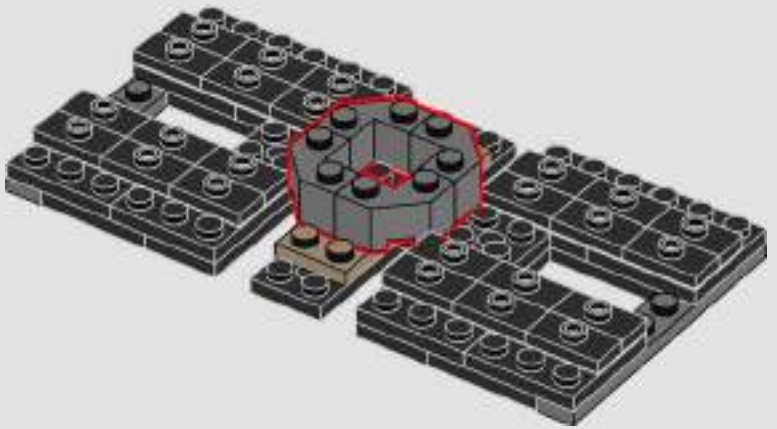
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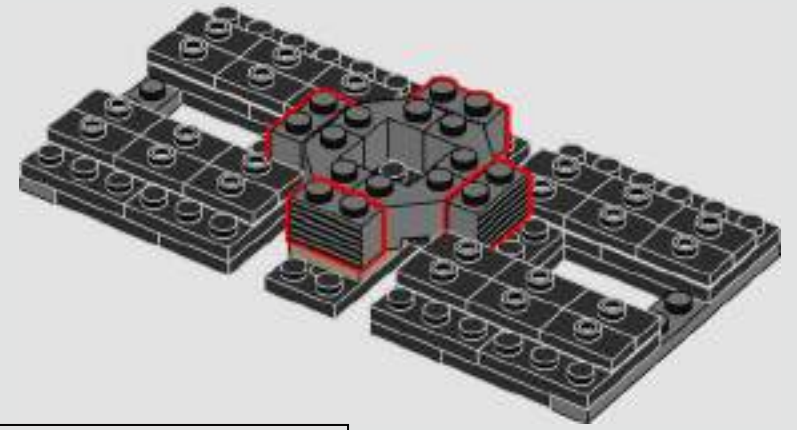
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132



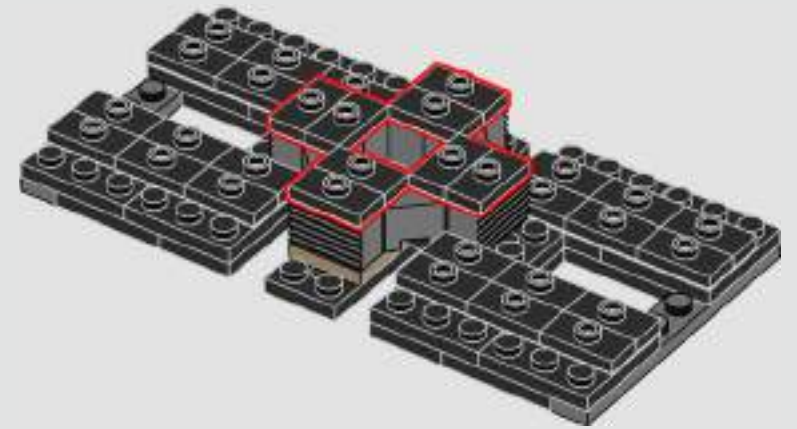
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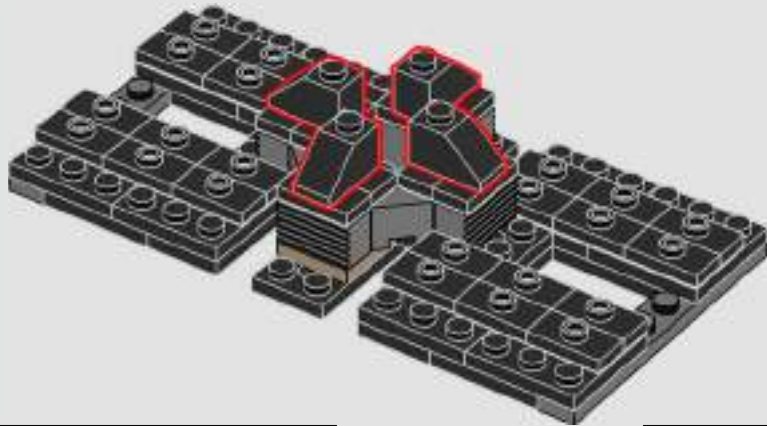
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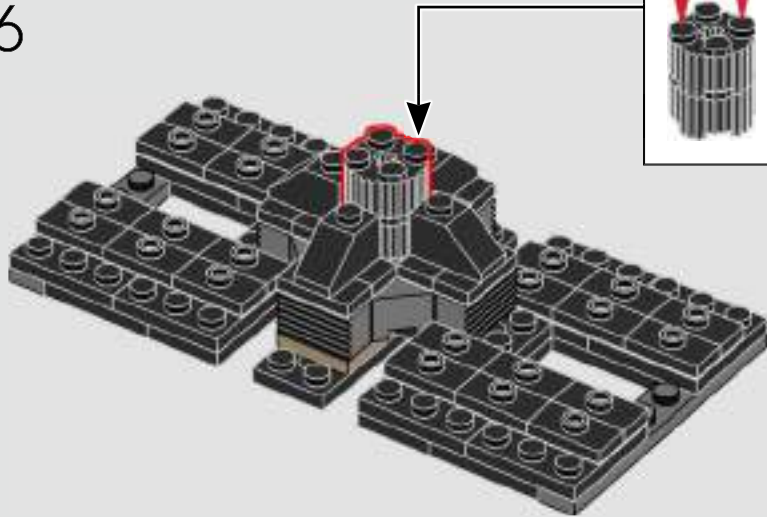




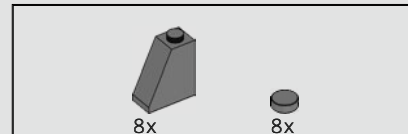
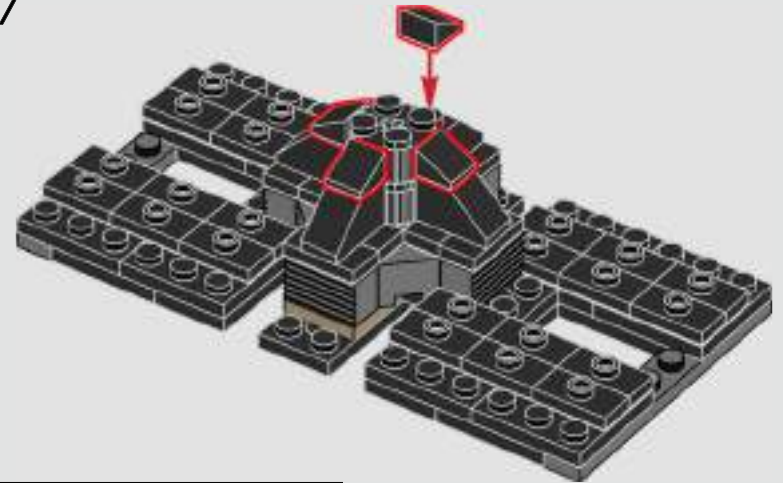
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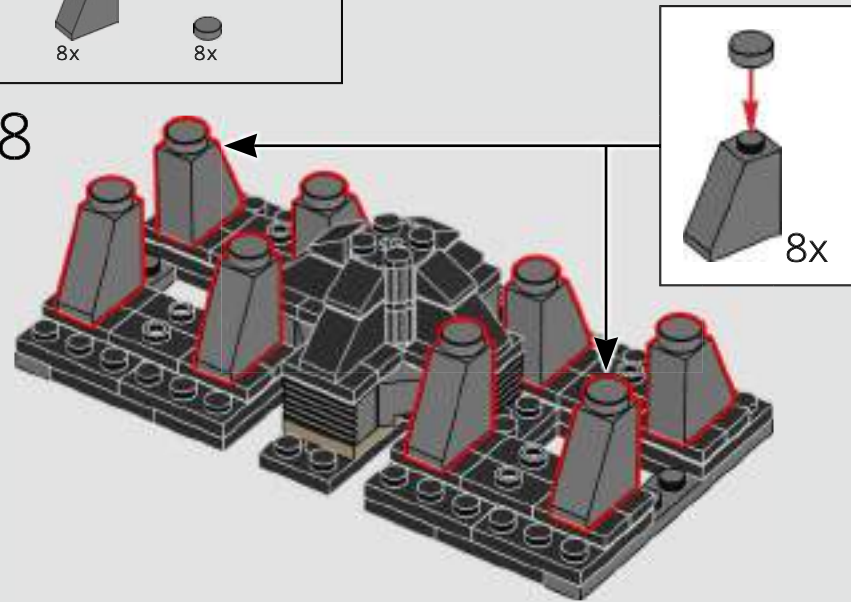
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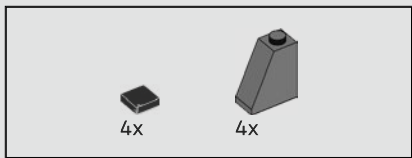


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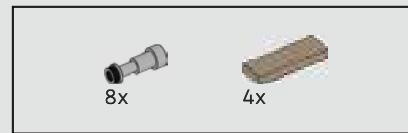
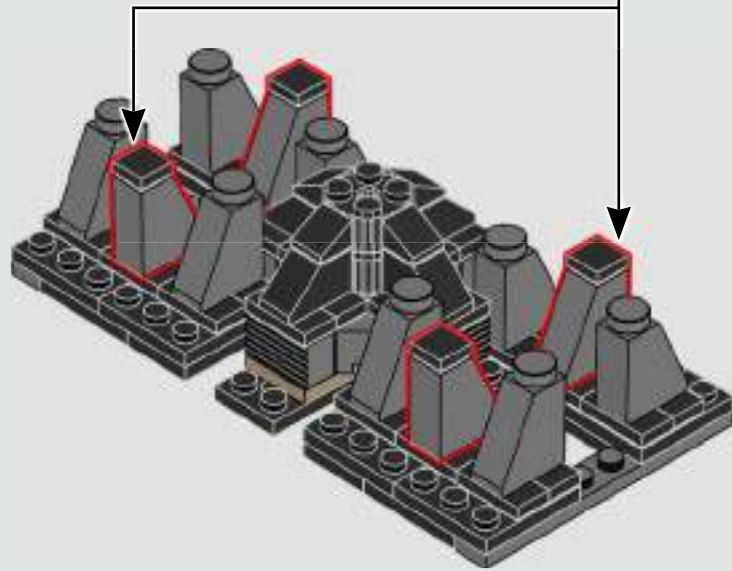
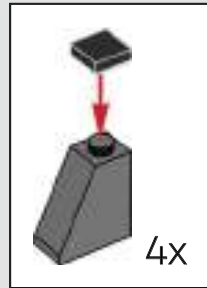


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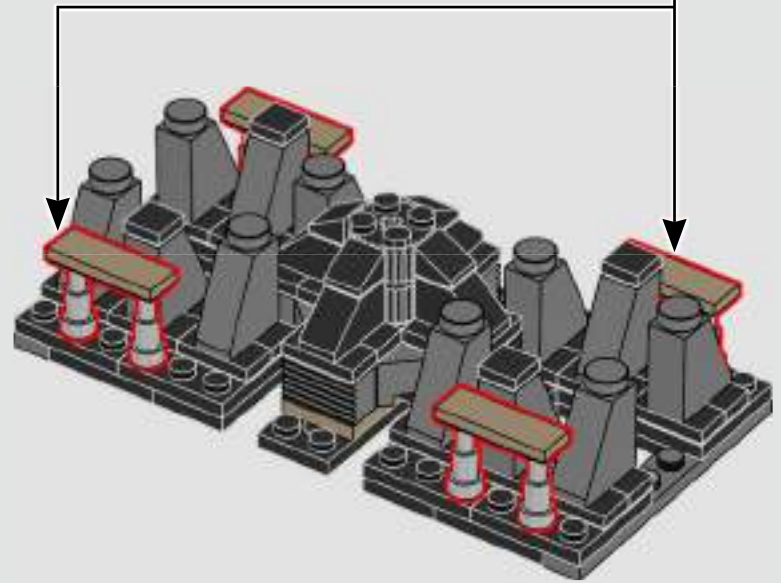
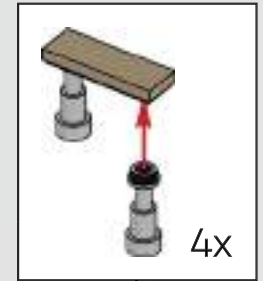




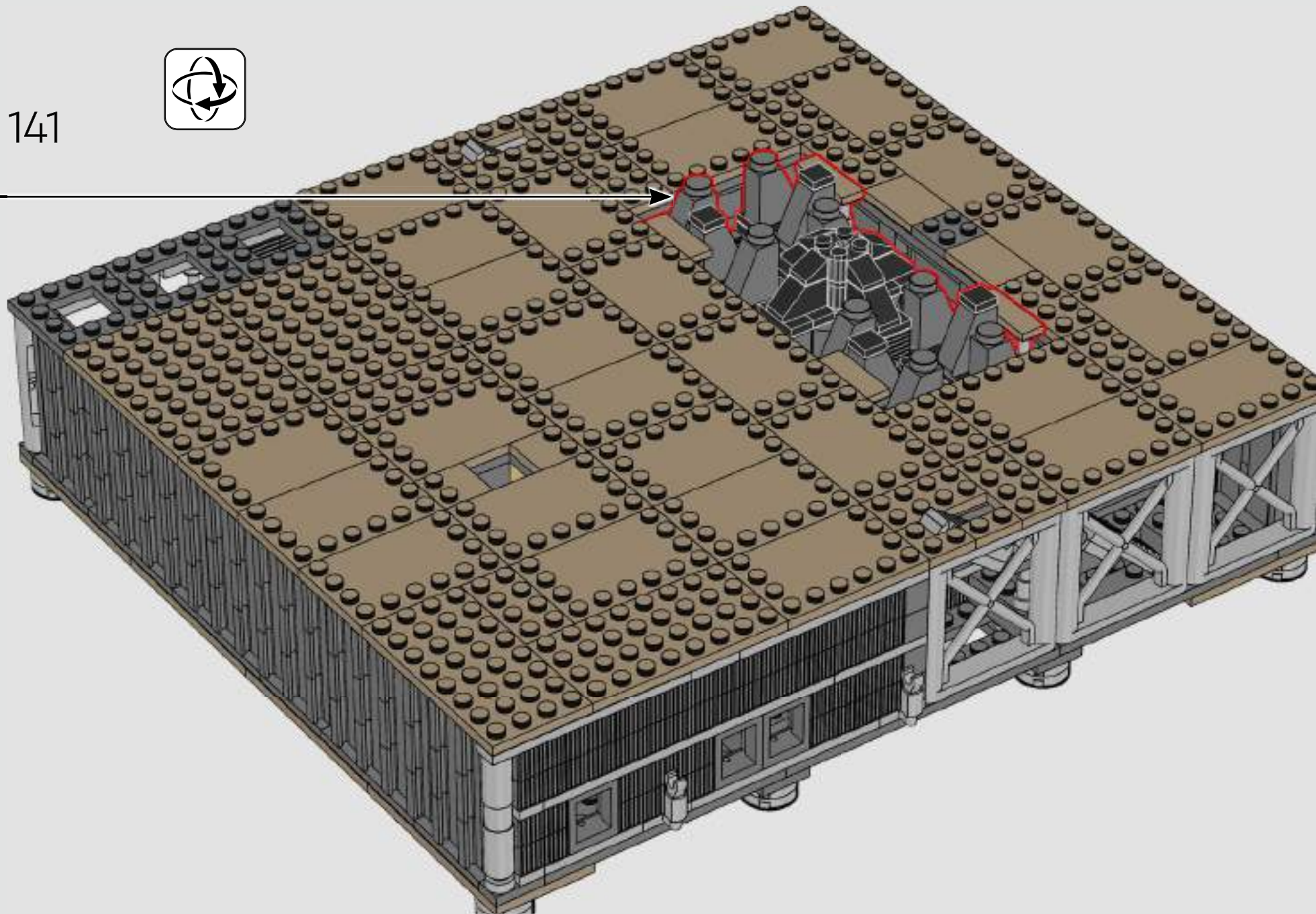
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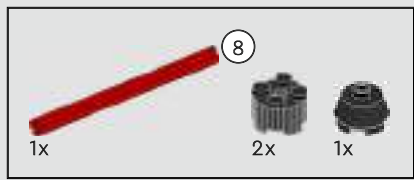


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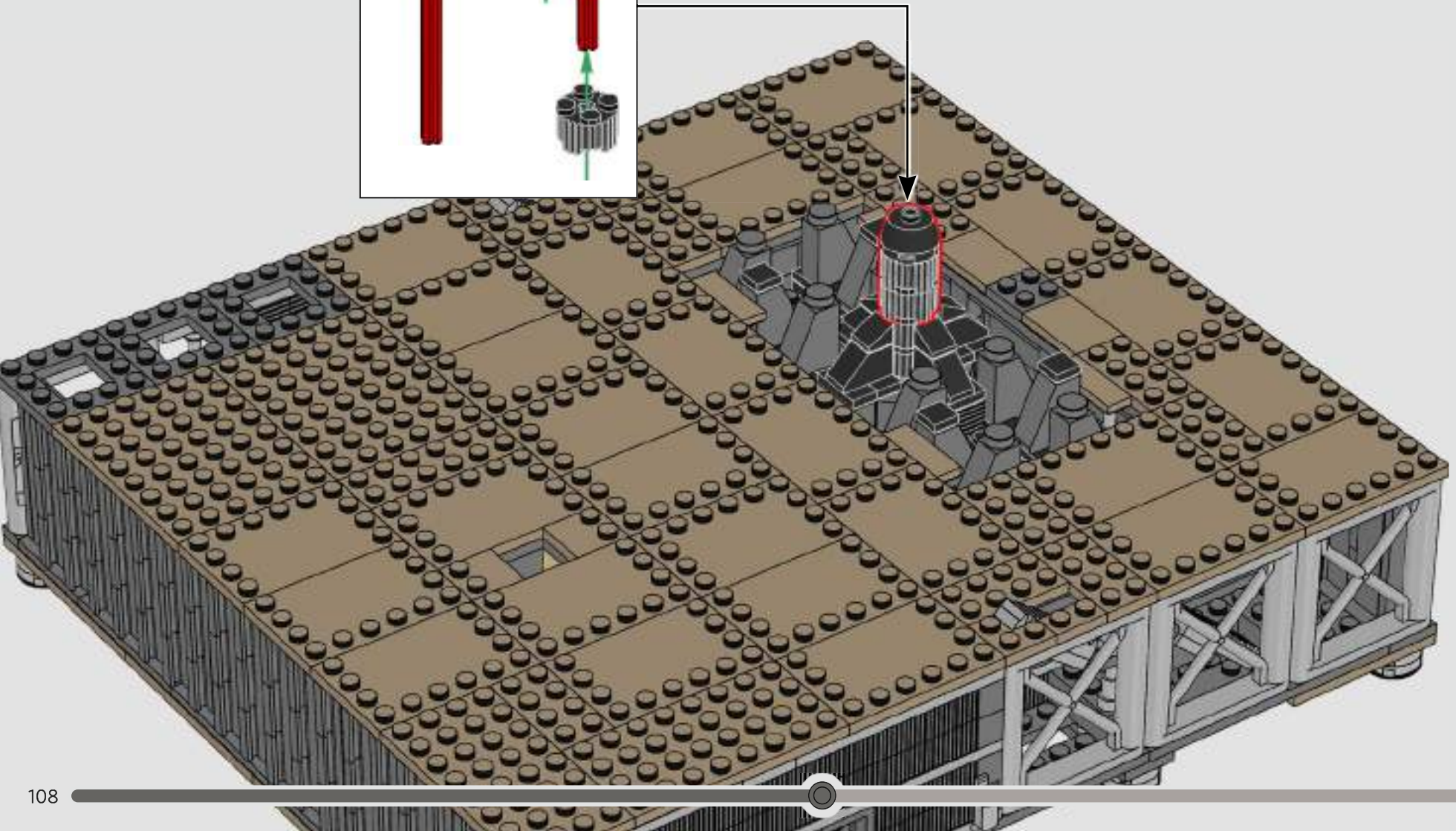
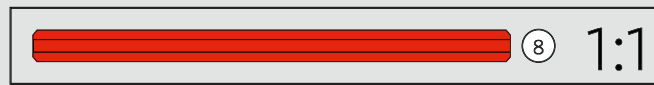
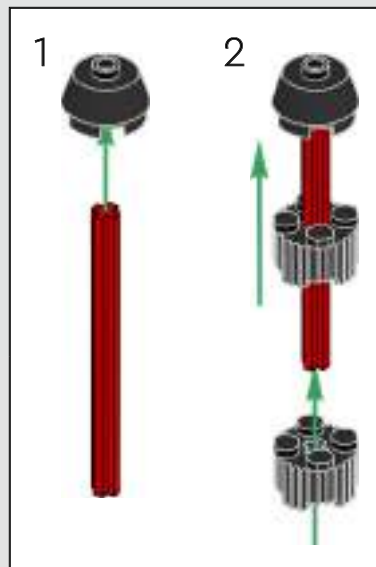


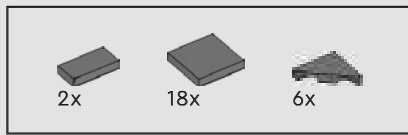
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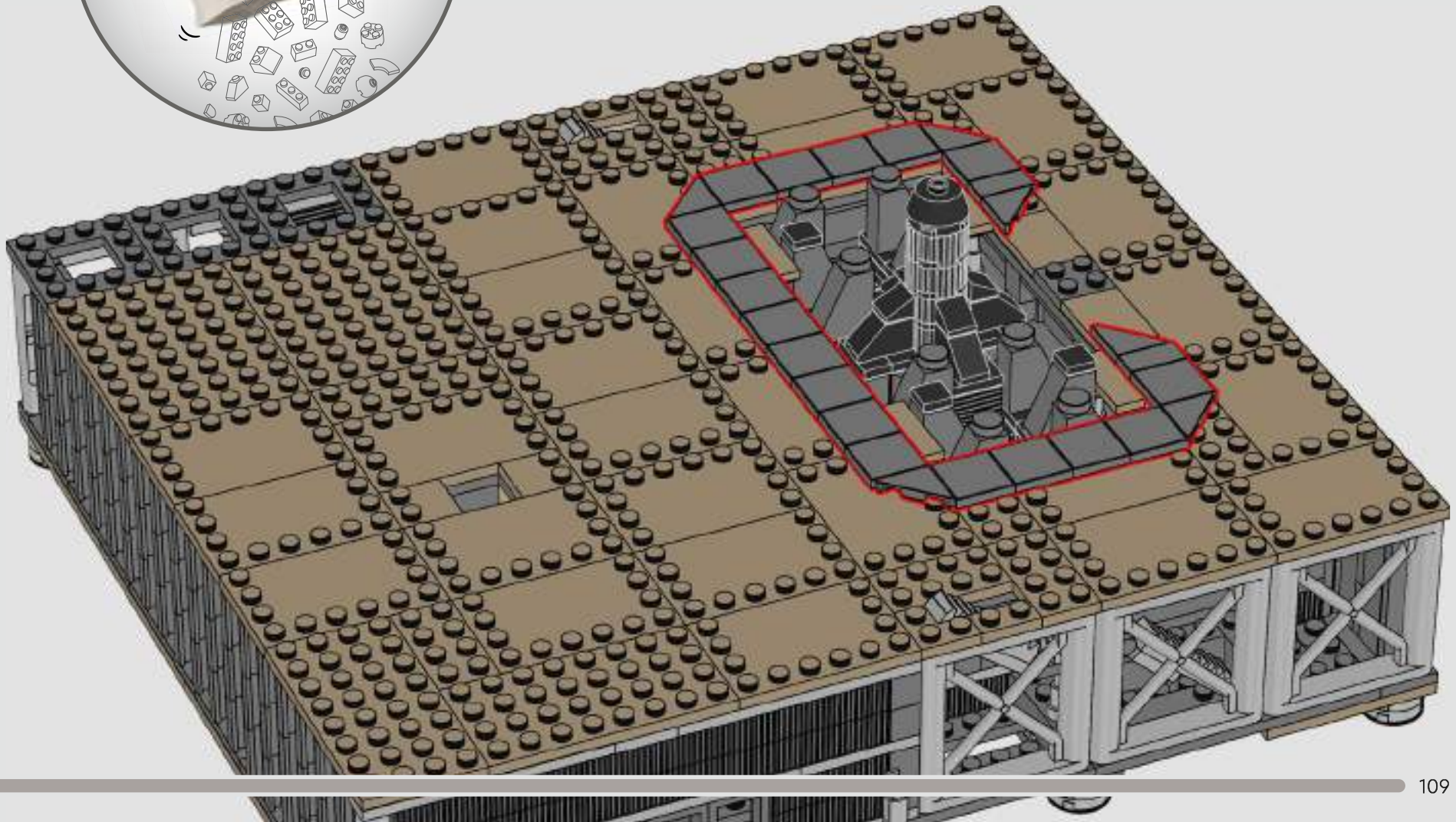


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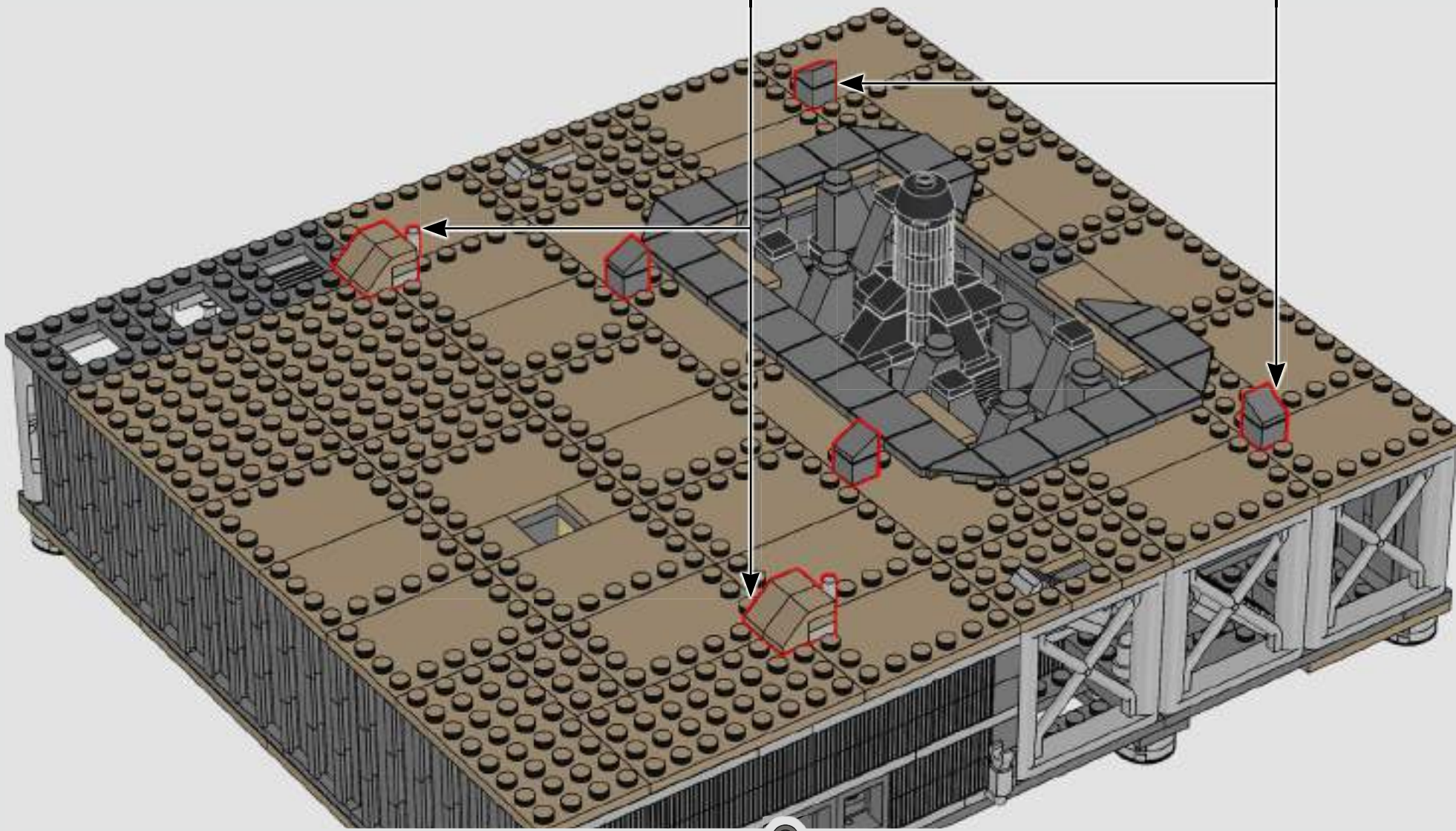
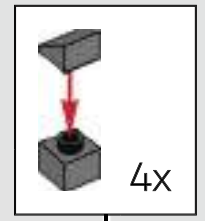
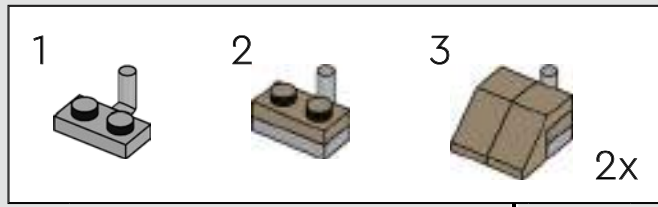


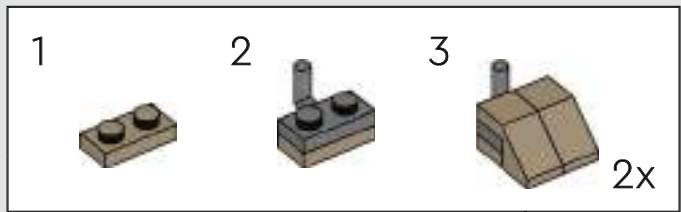
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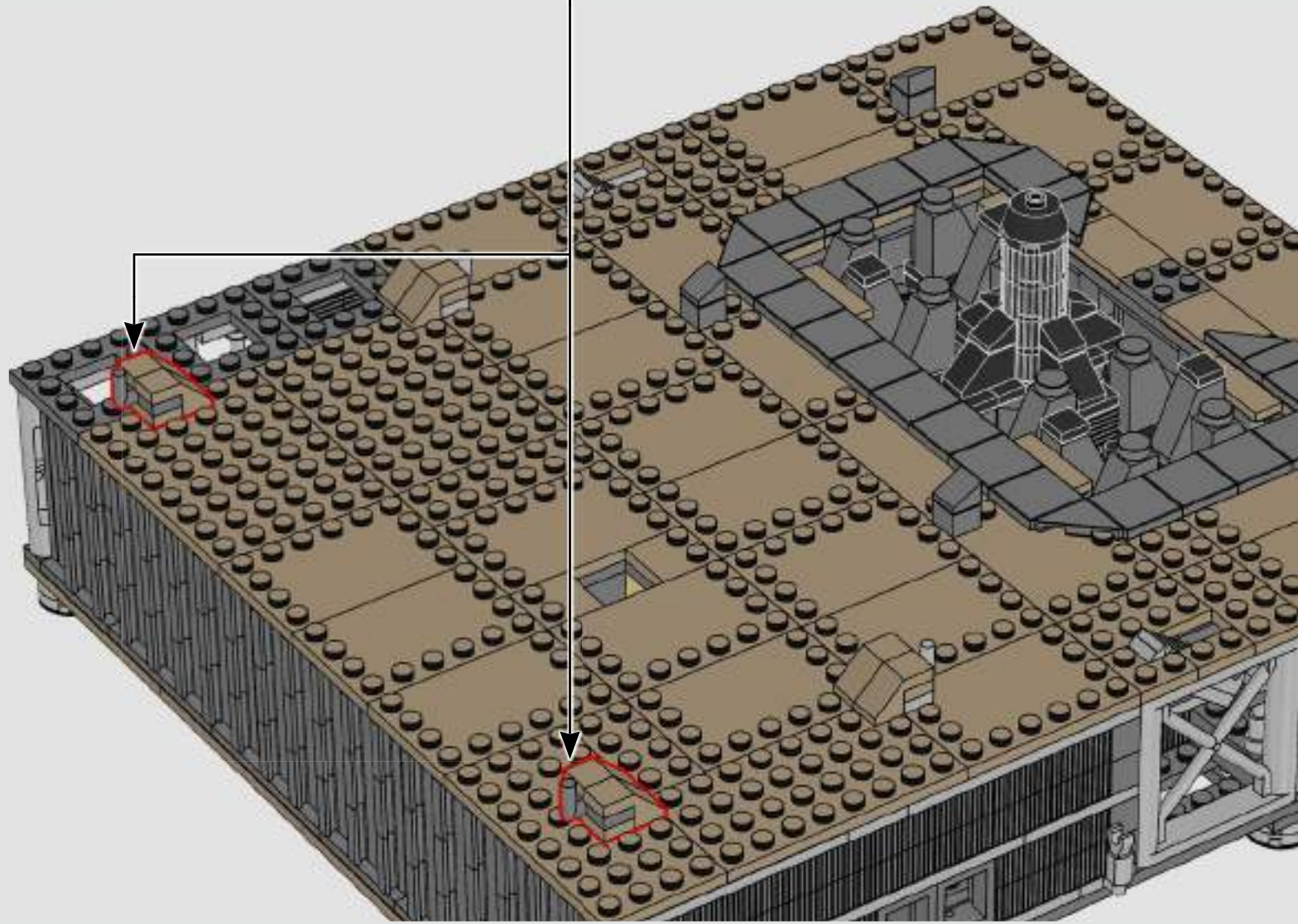


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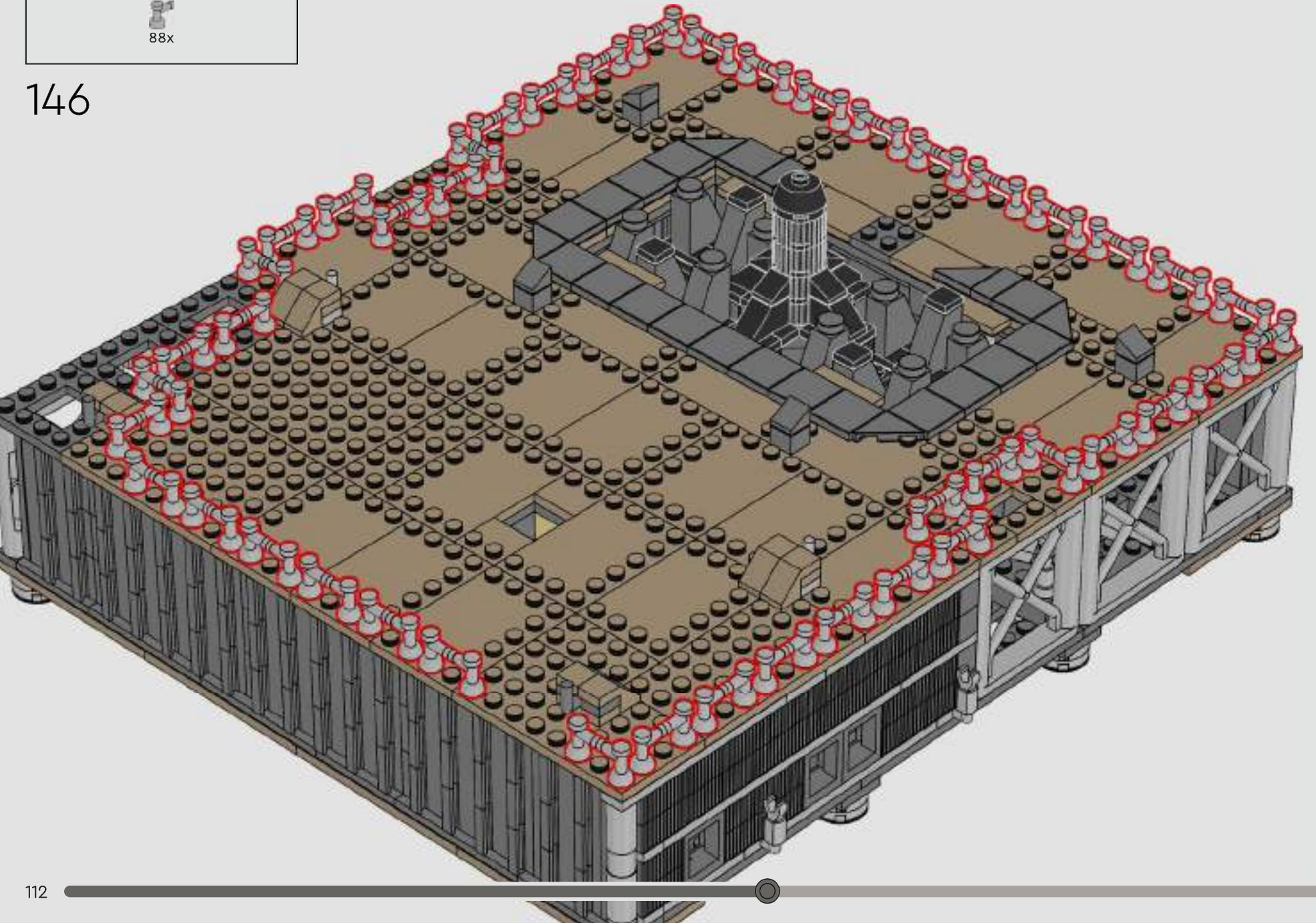
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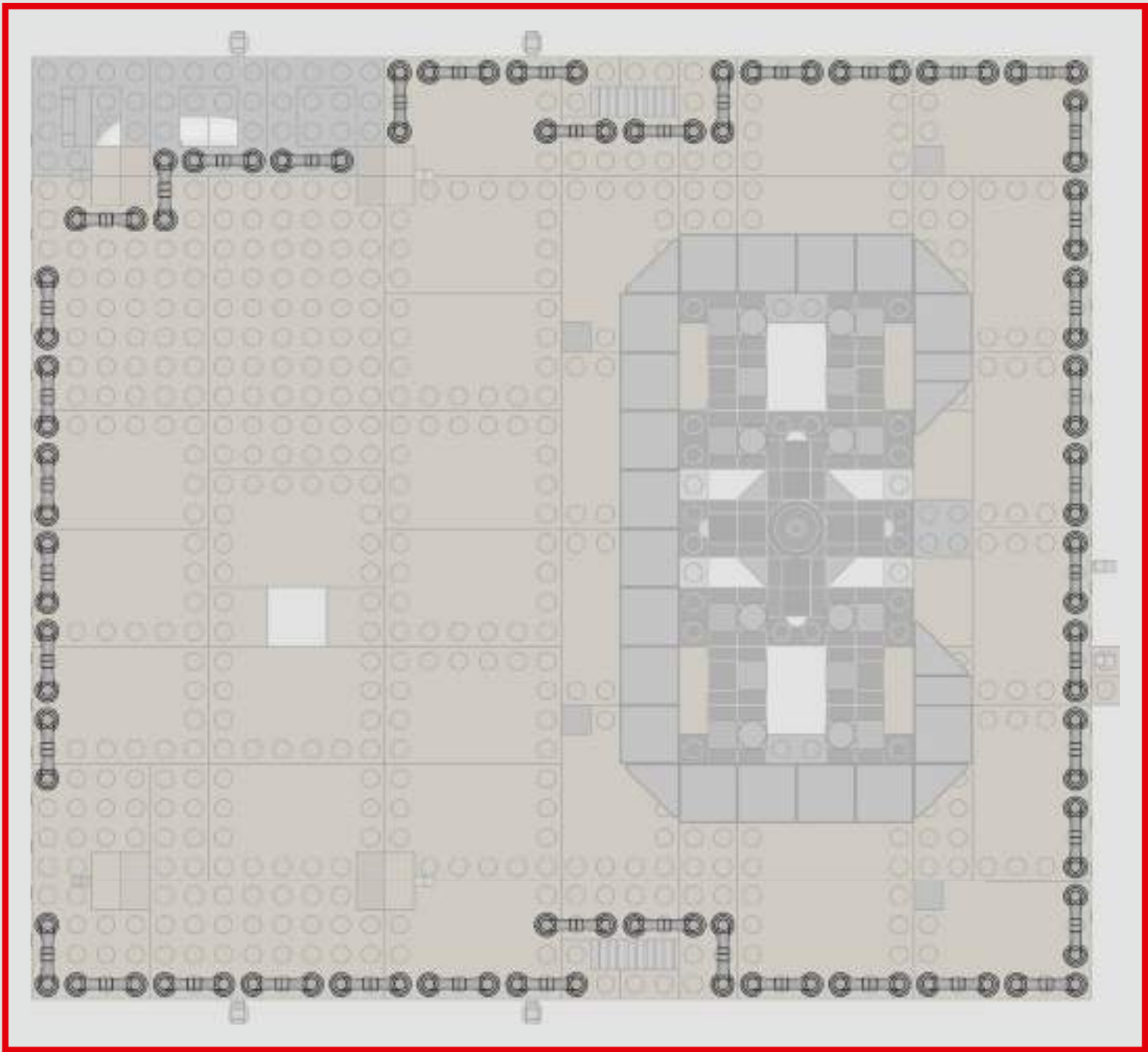


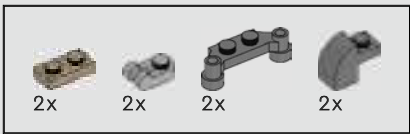


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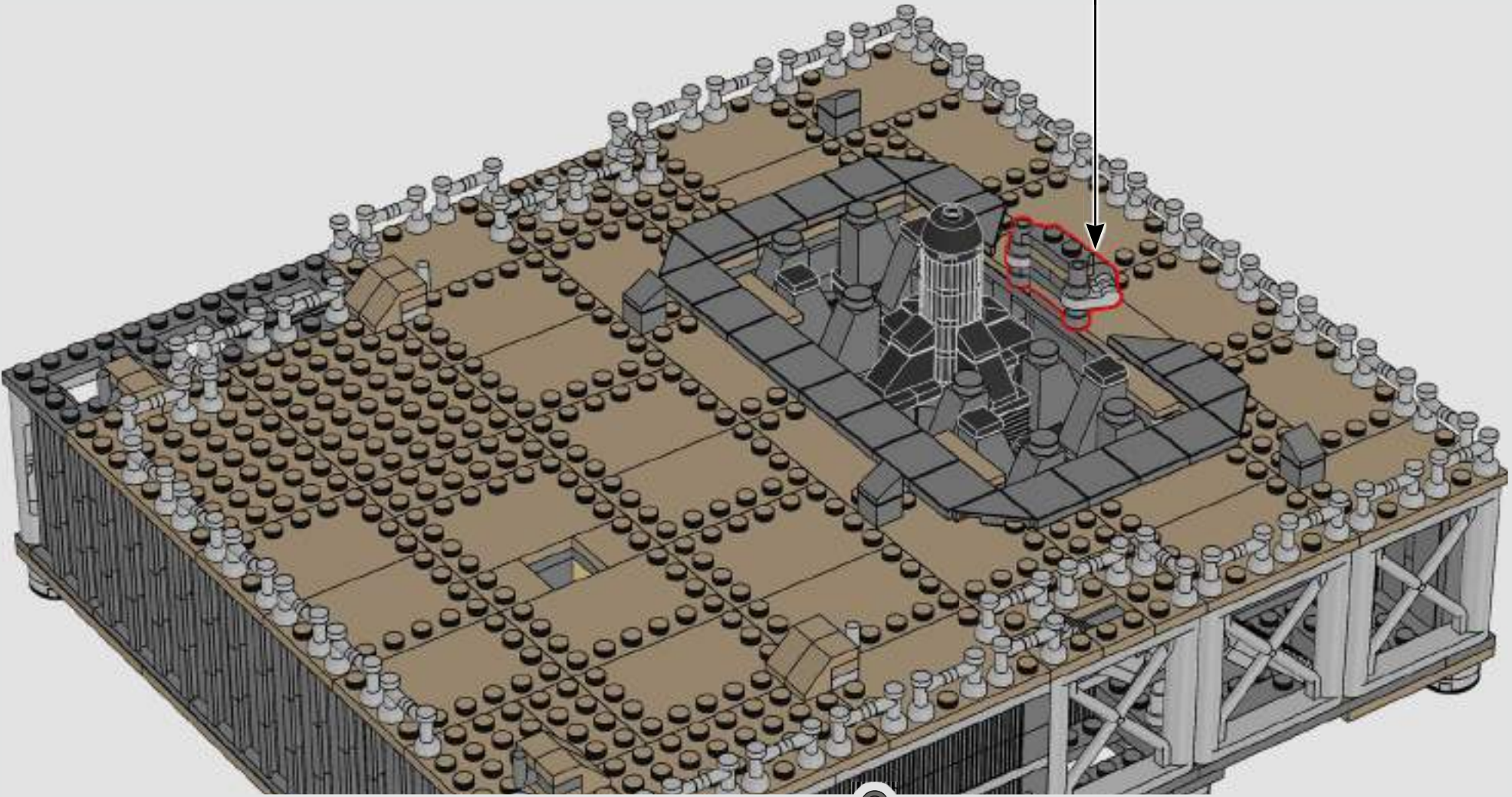
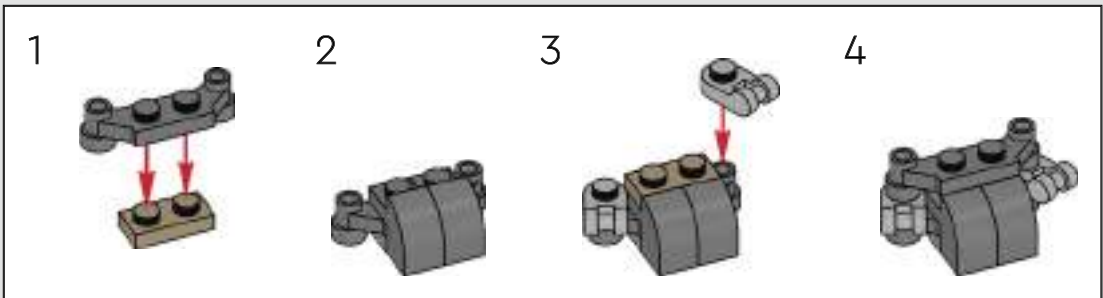
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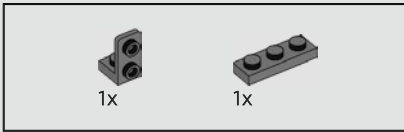
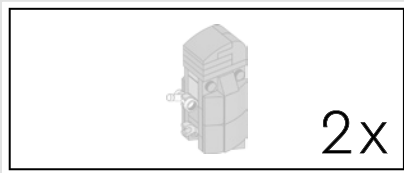




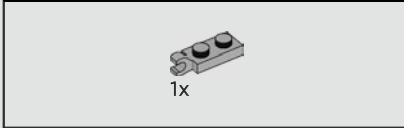
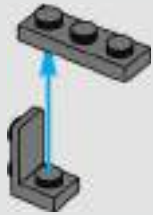


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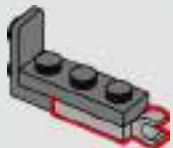




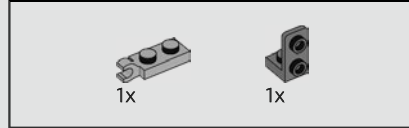
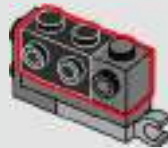
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149



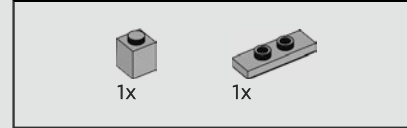
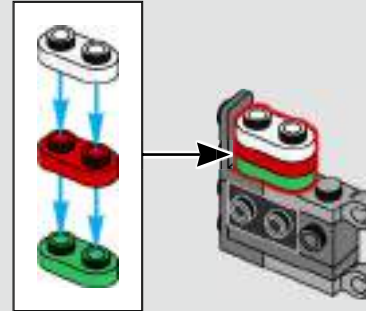
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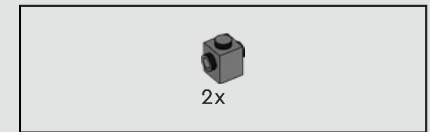
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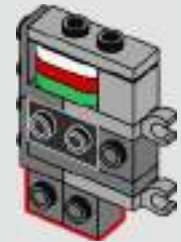
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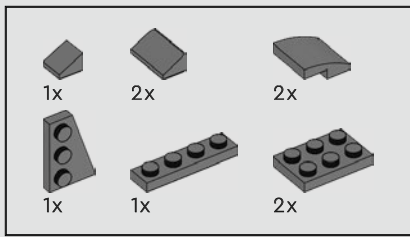
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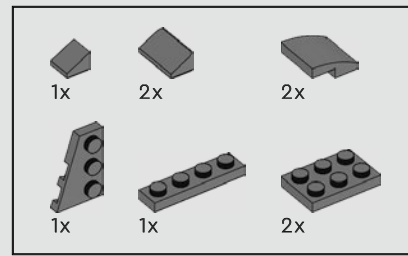
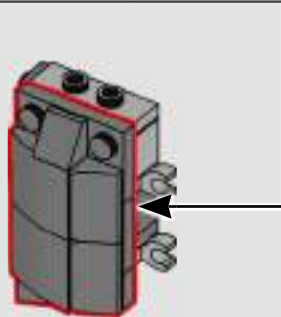
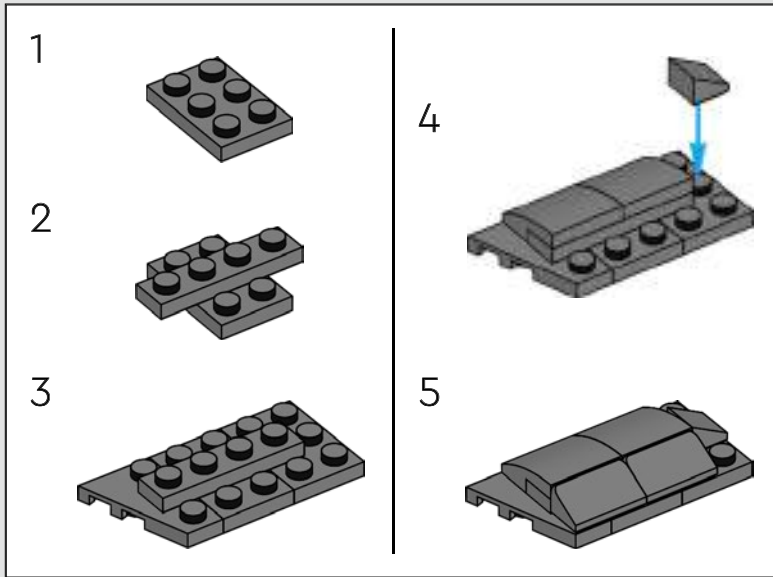
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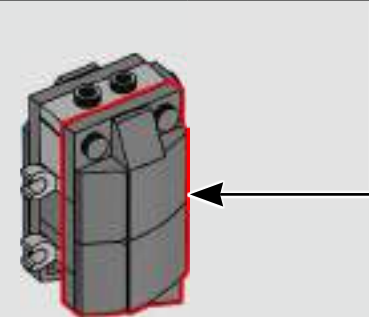
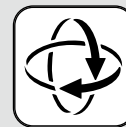
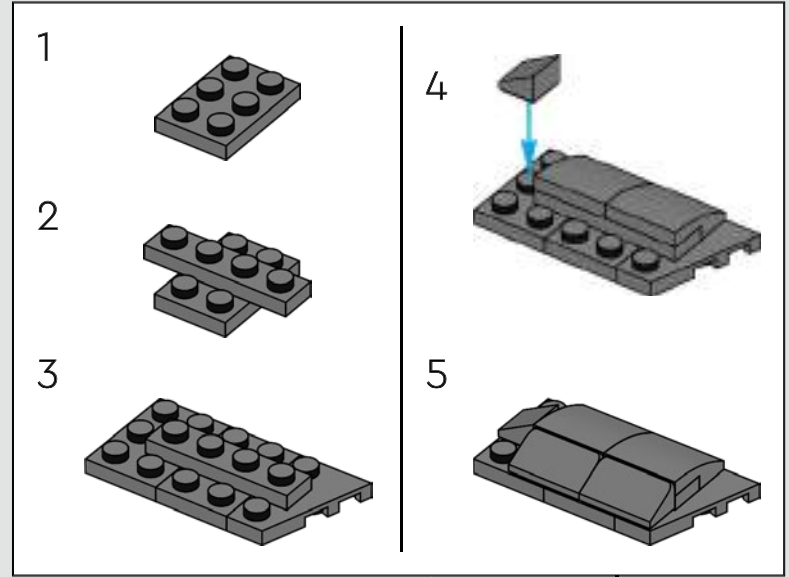
A LEGO® rocket must be powered the LEGO way, of course. The stacked rounded 1x2 plates inside the 'petrol station' in front of the rocket have a long LEGO history!

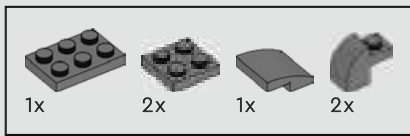


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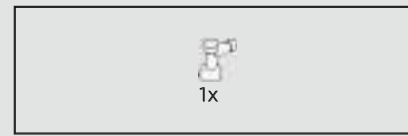
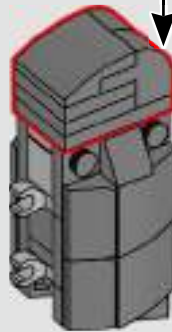
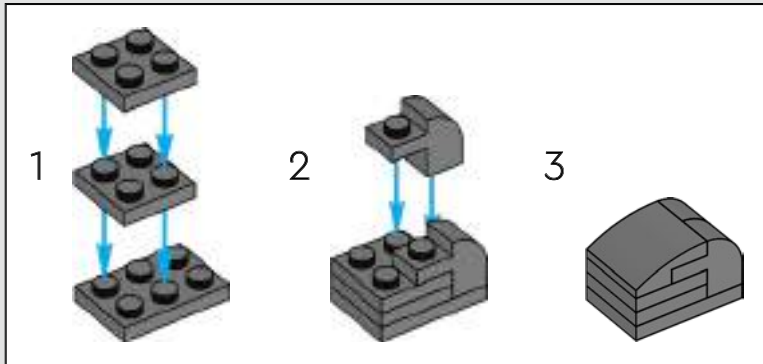


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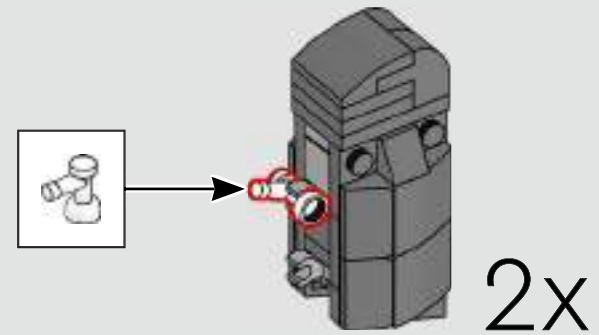




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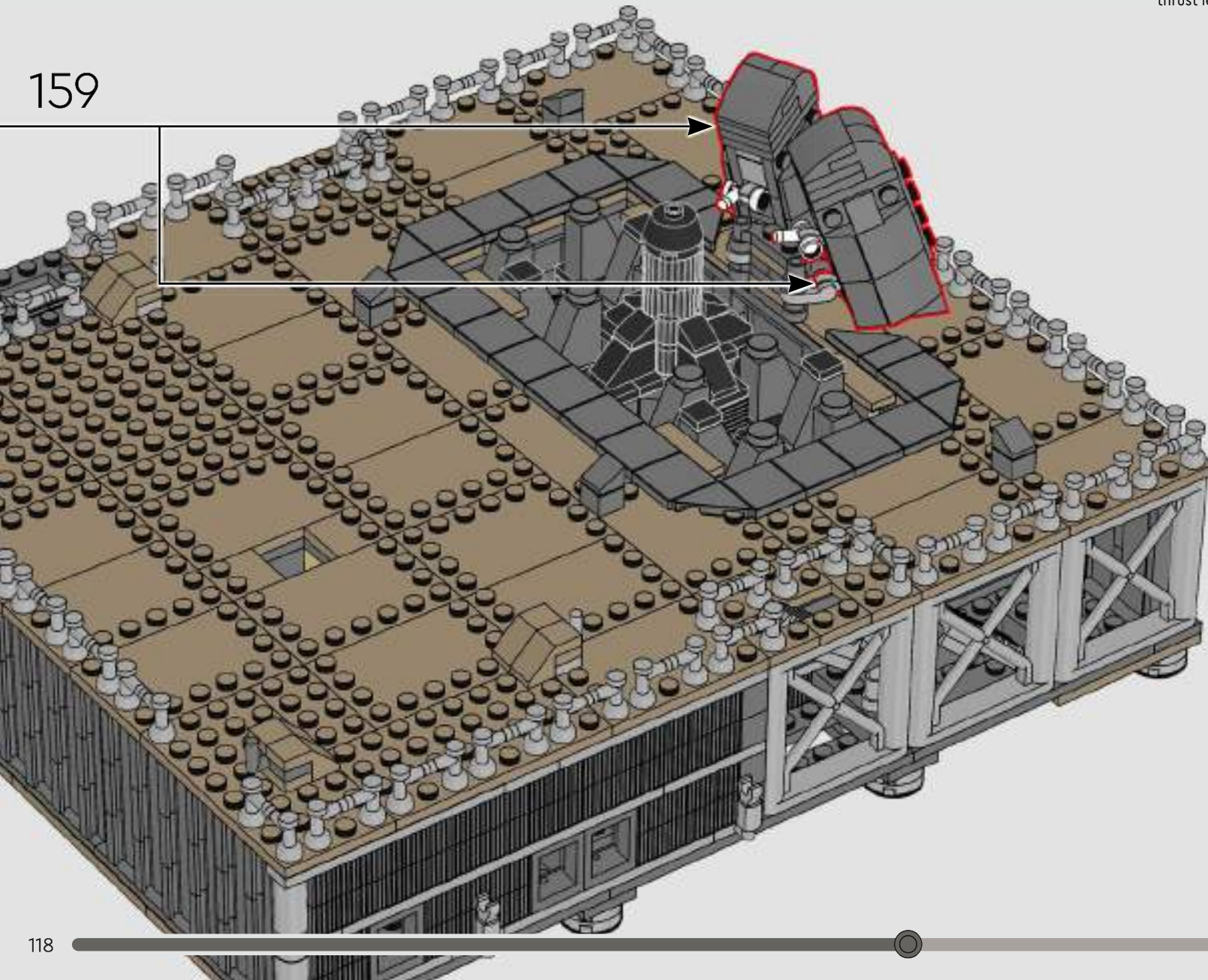


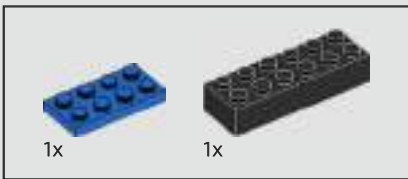
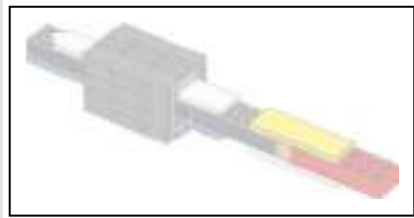
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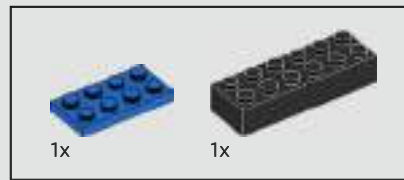
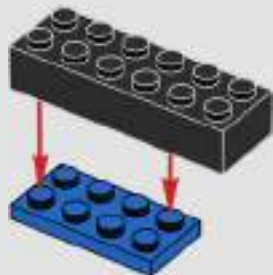
SLS uses larger solid rocket boosters than the NASA space shuttles. Liquid hydrogen and liquid oxygen feed the RS-25 engines, which operate at a higher thrust level and with new controllers.

159

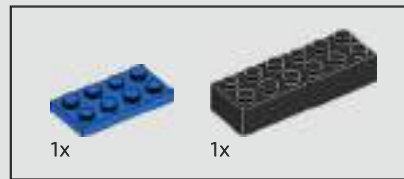
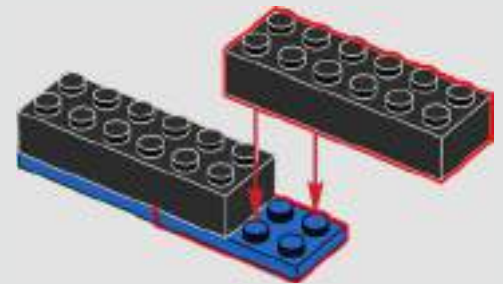




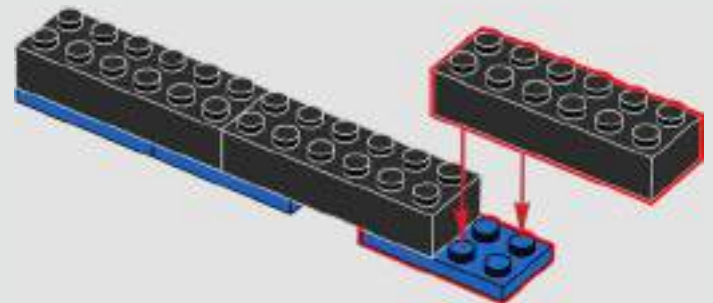
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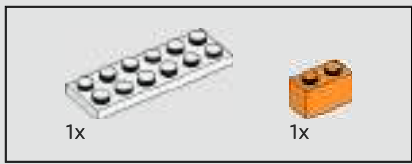


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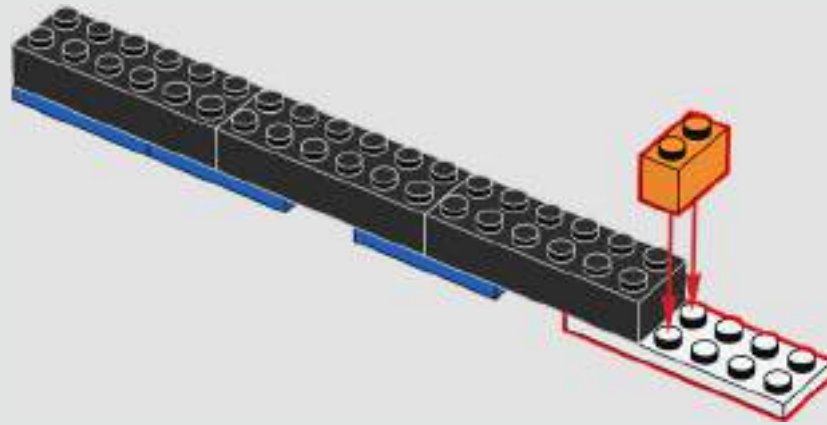


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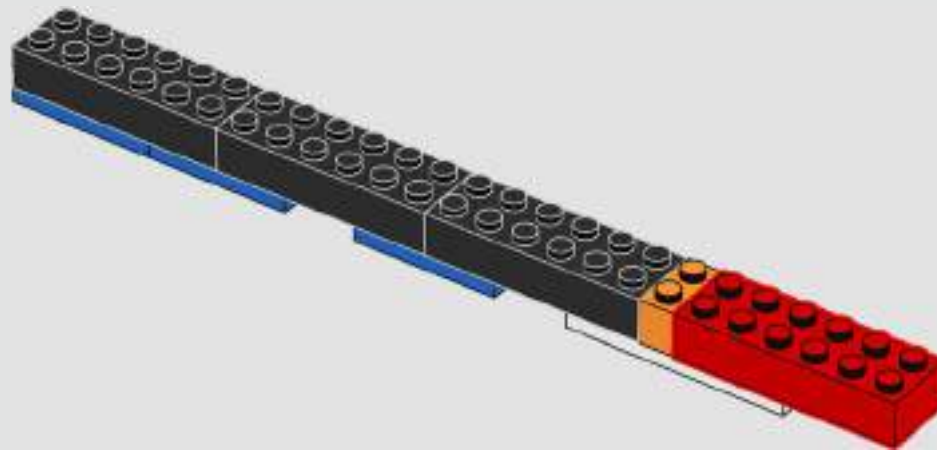


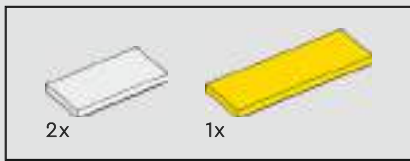


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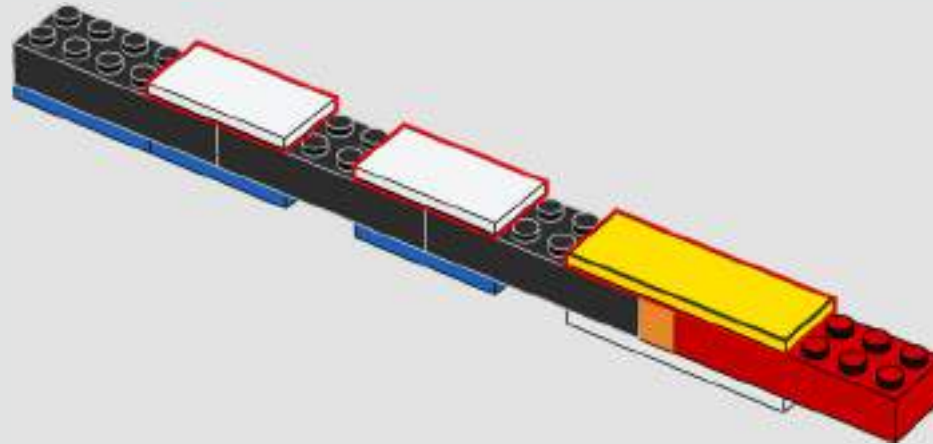


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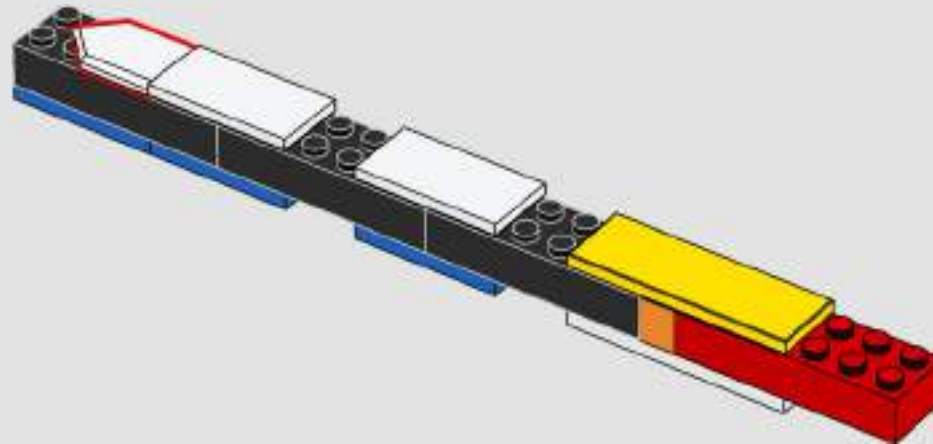


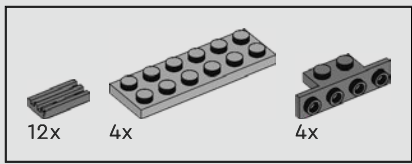


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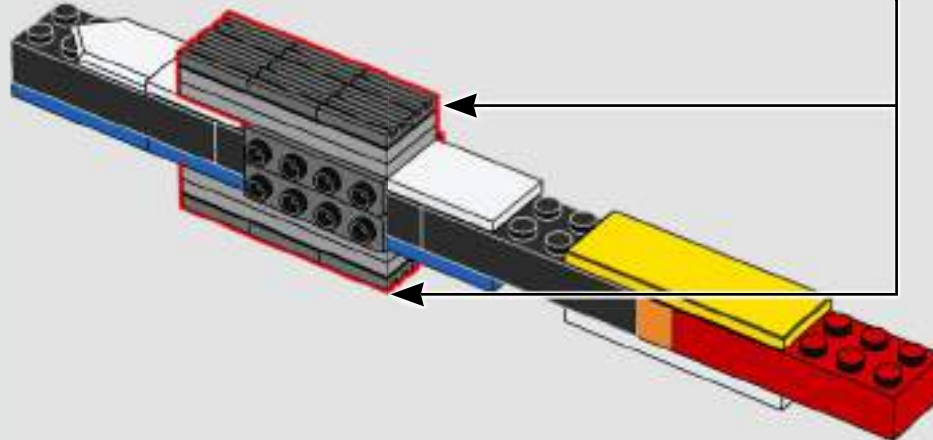
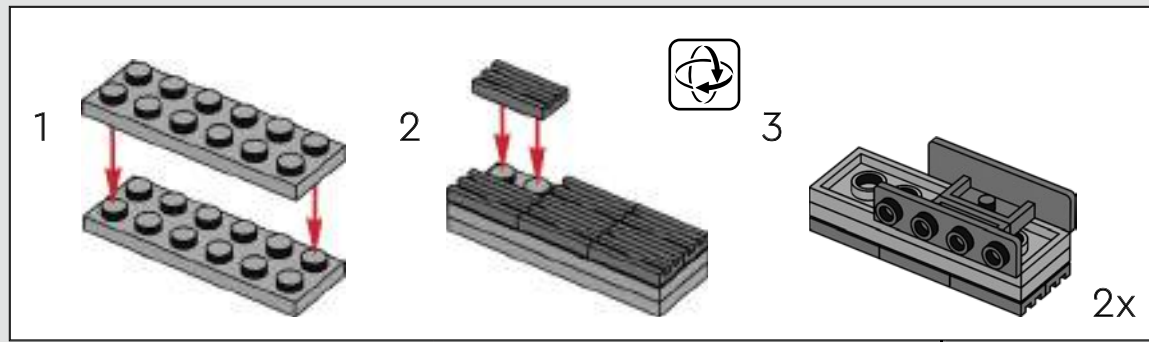


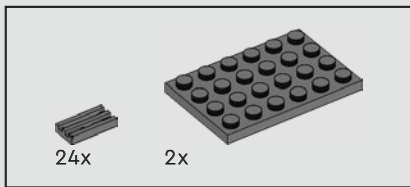
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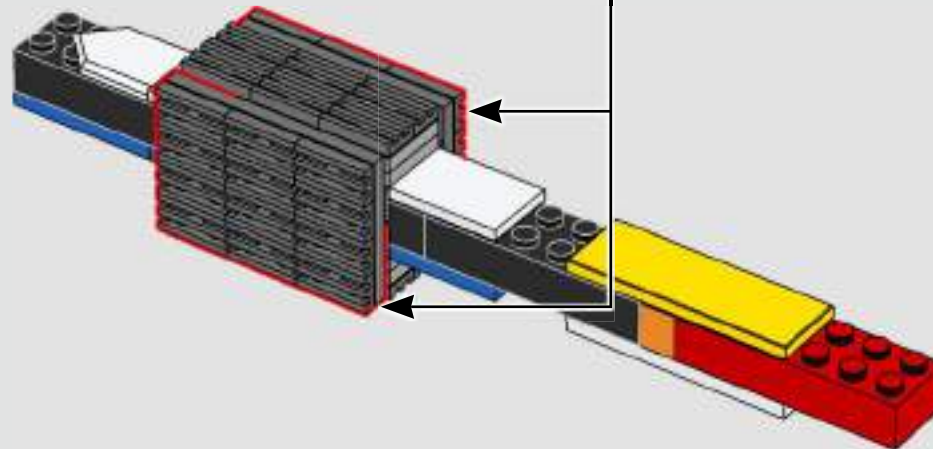
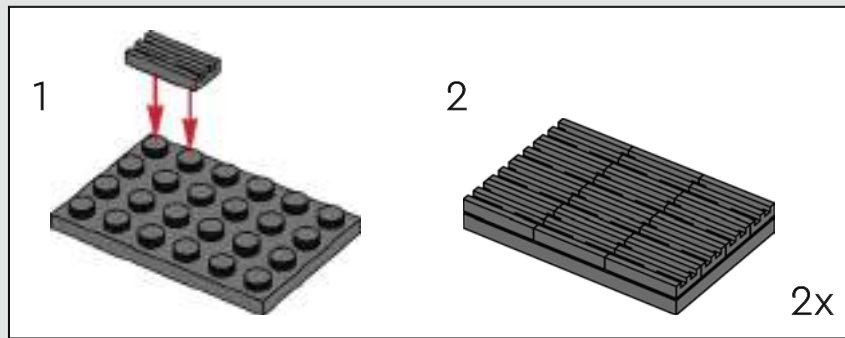


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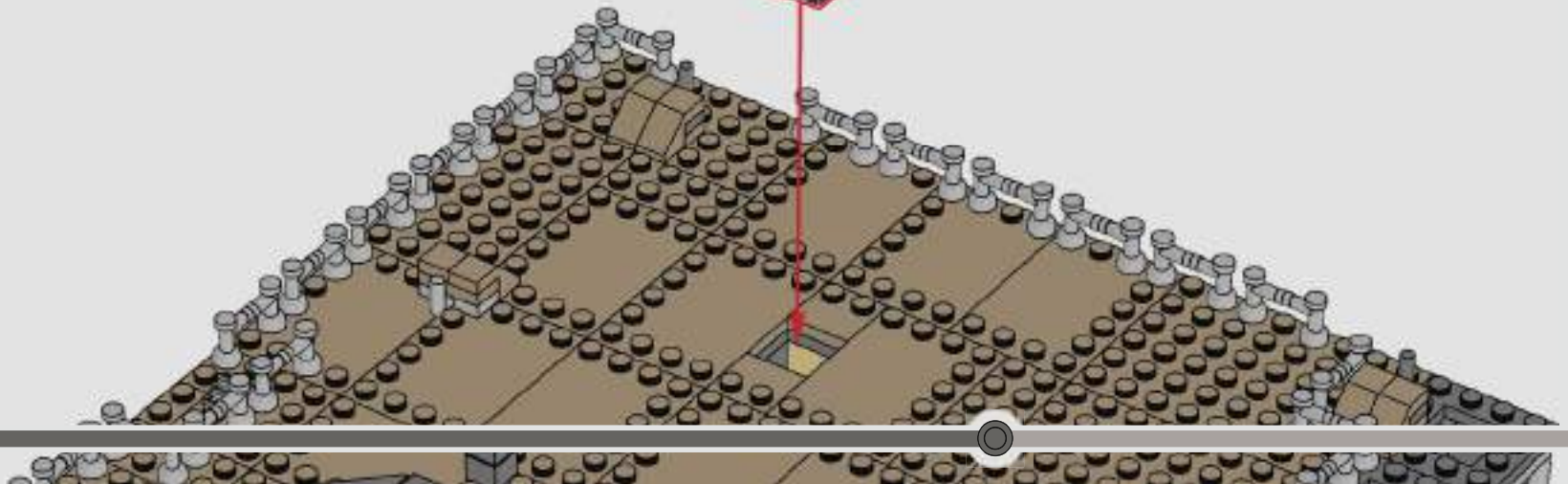
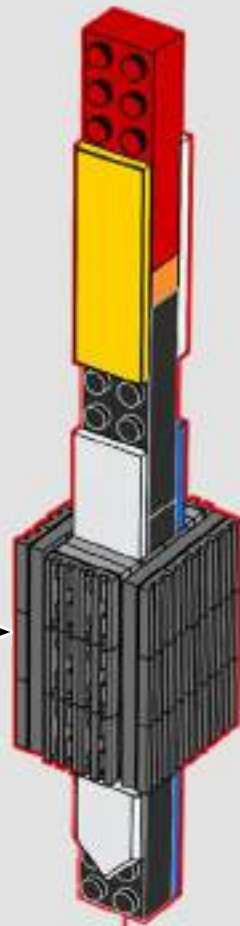




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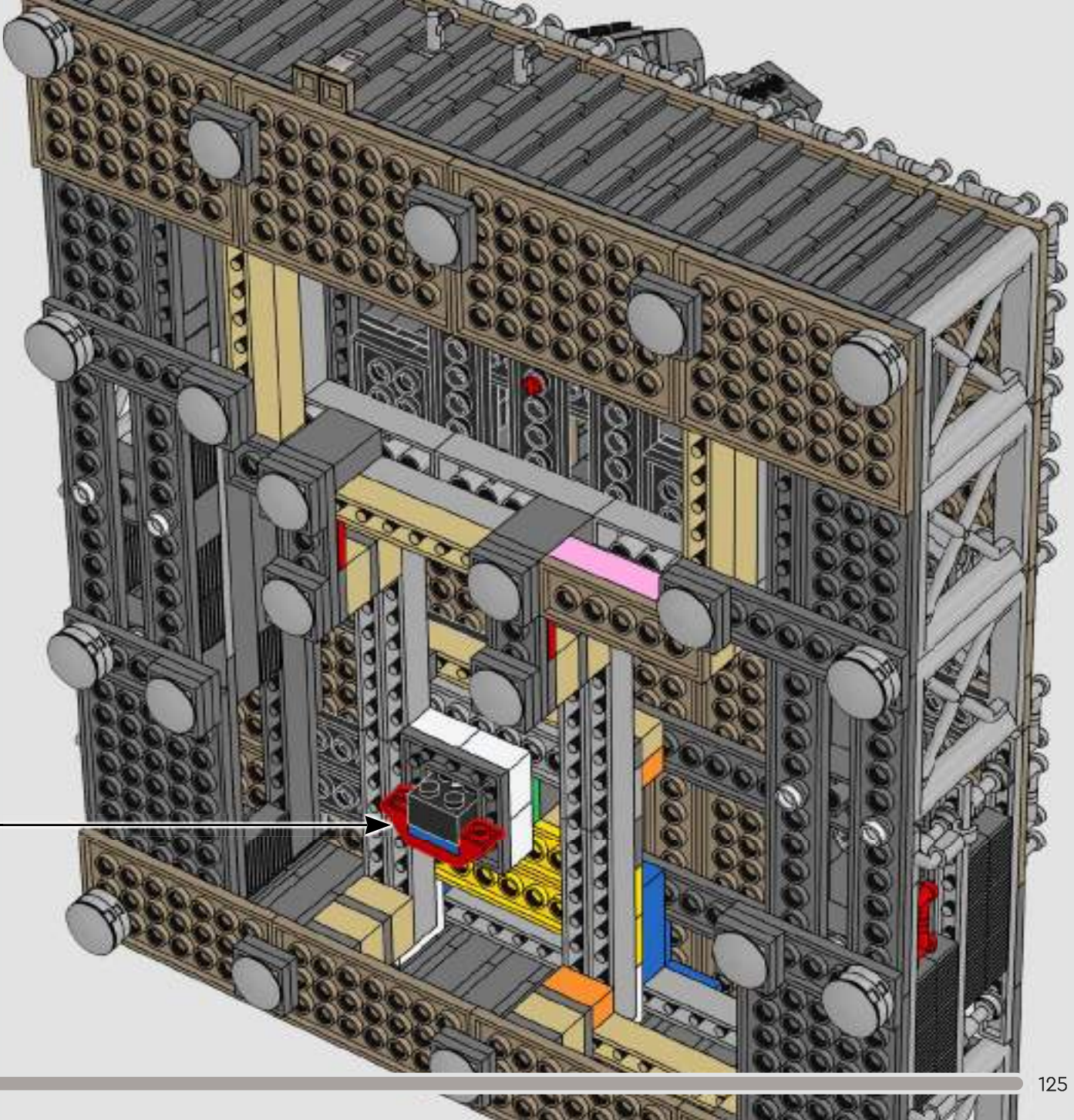


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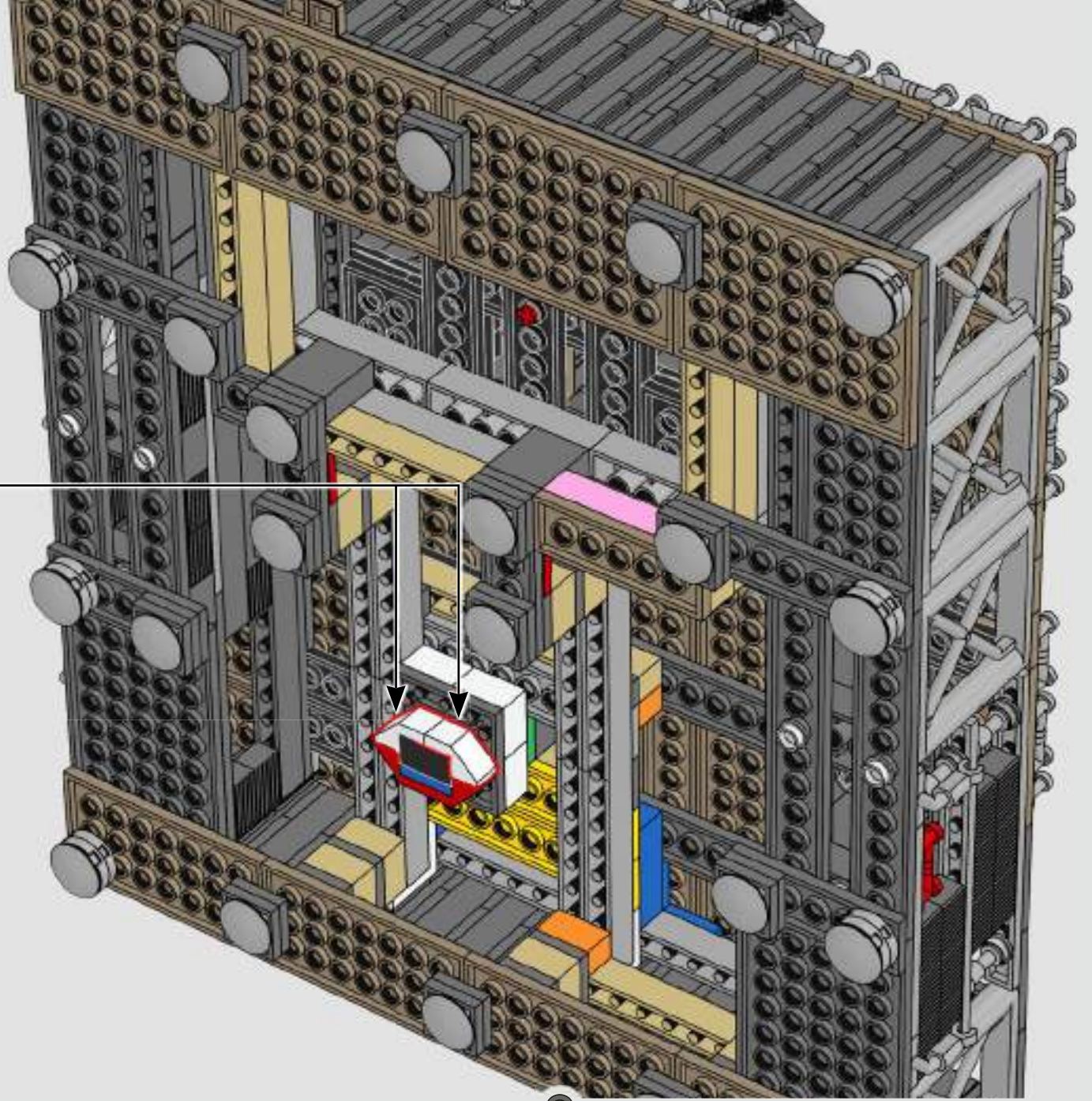


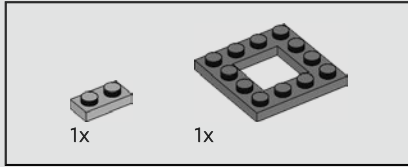
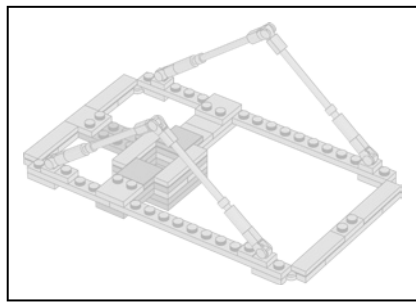
2x

171

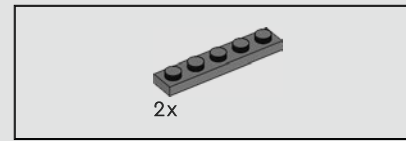
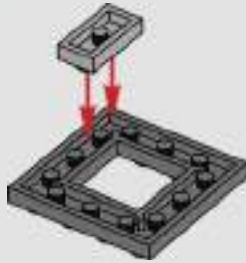


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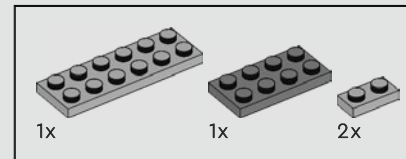
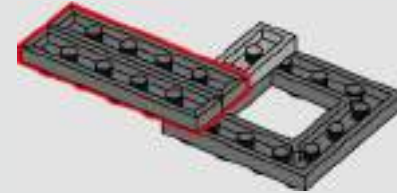




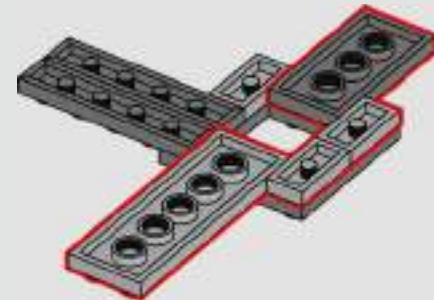
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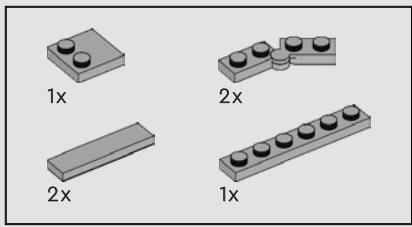


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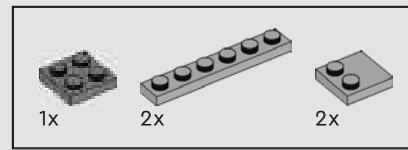
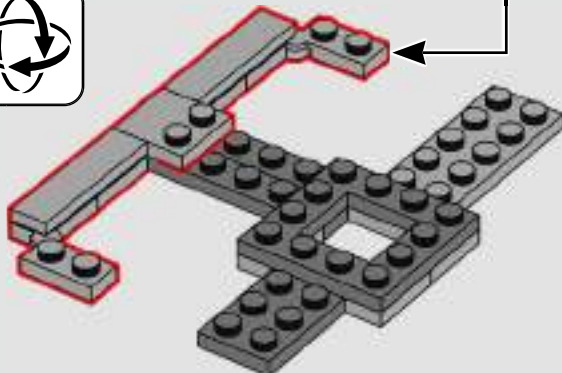
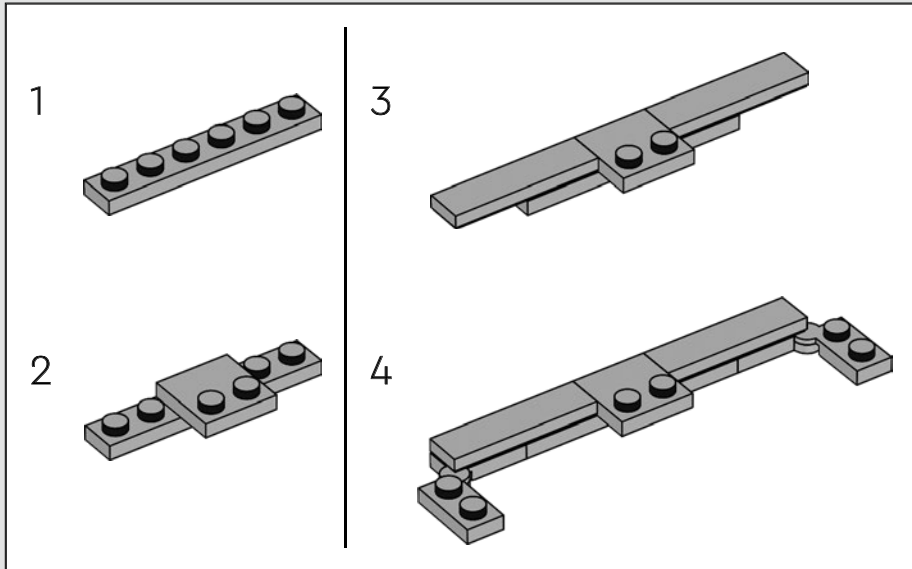


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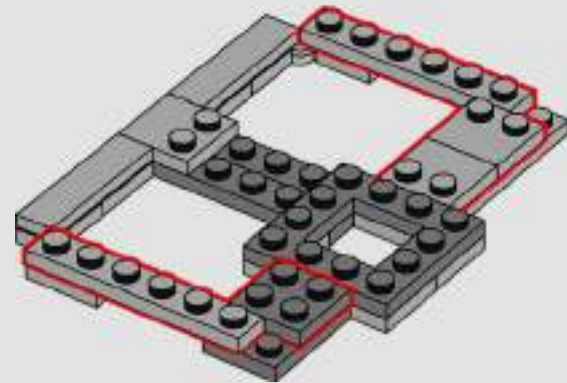


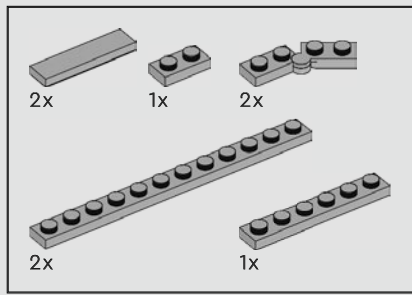


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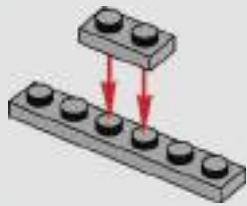
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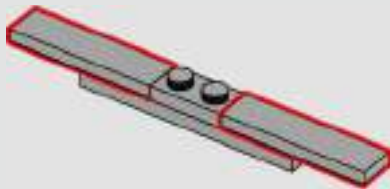


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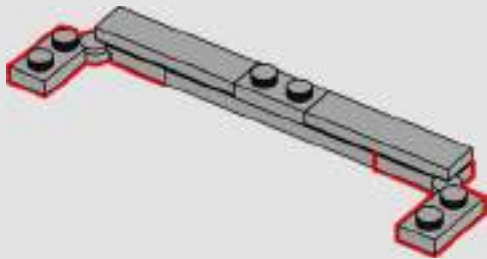
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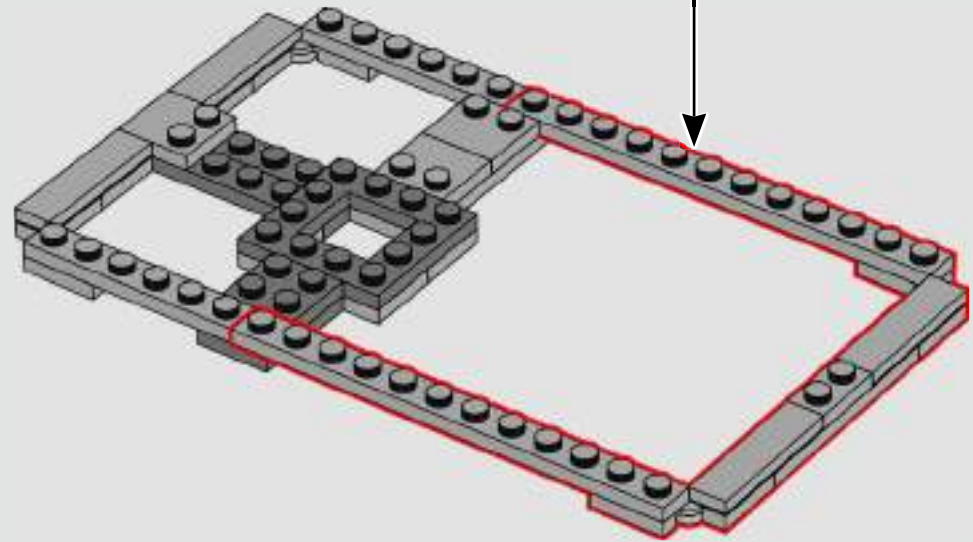
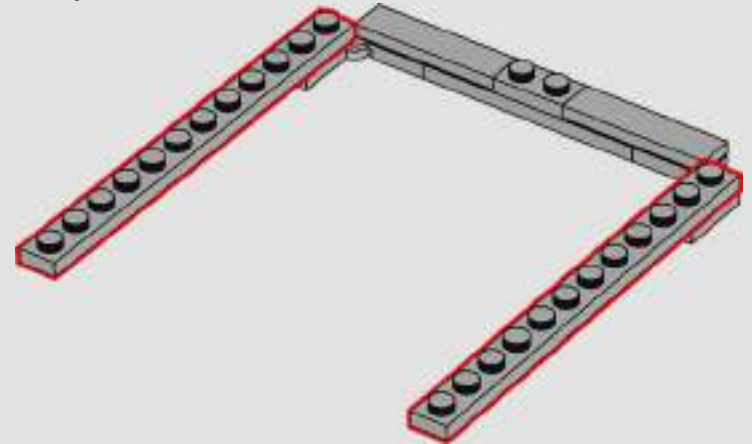
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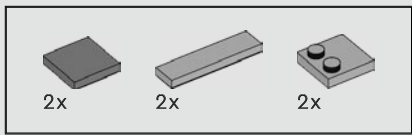


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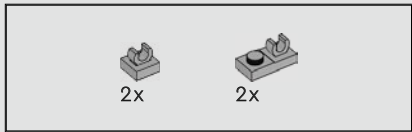
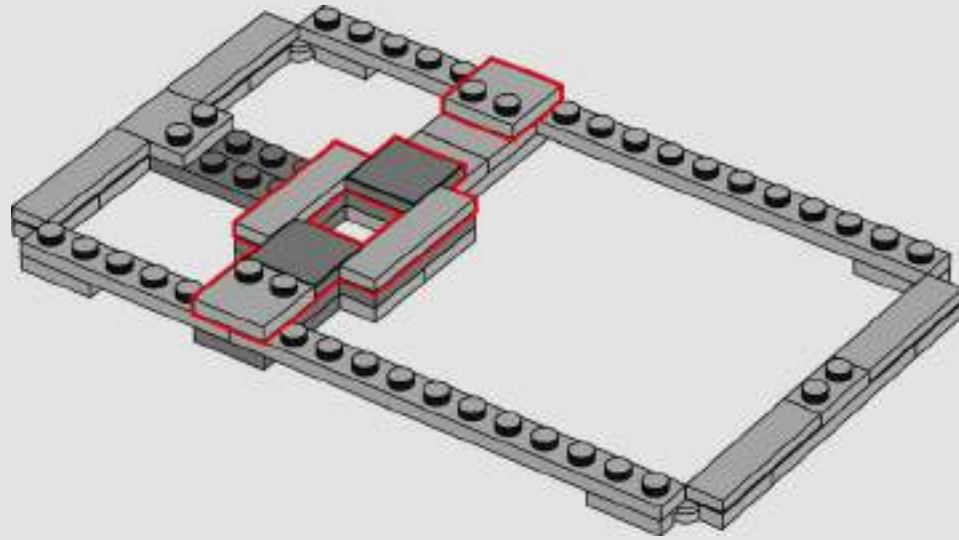


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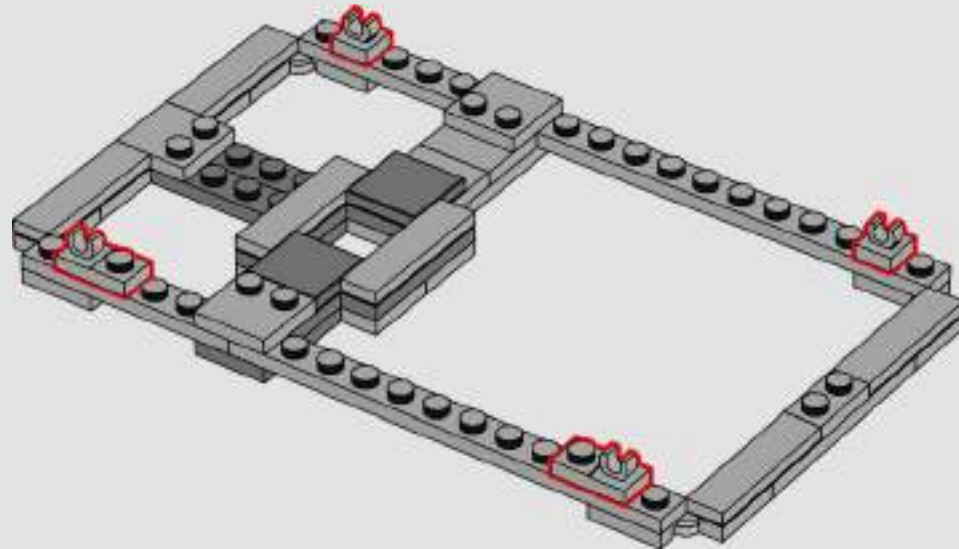


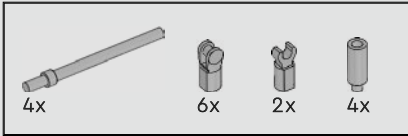
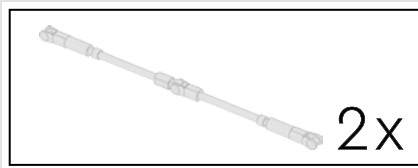


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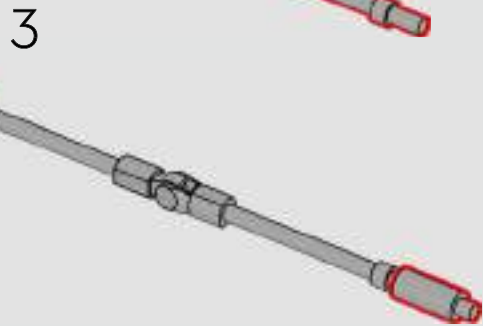
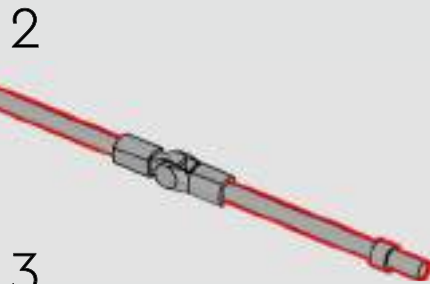
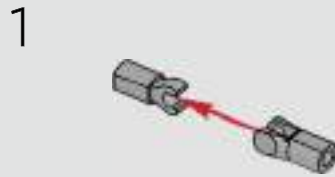


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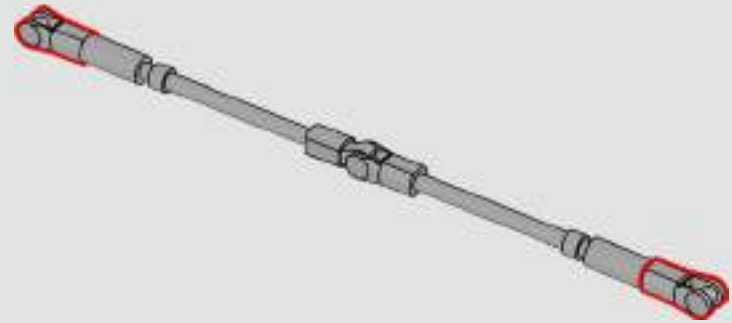




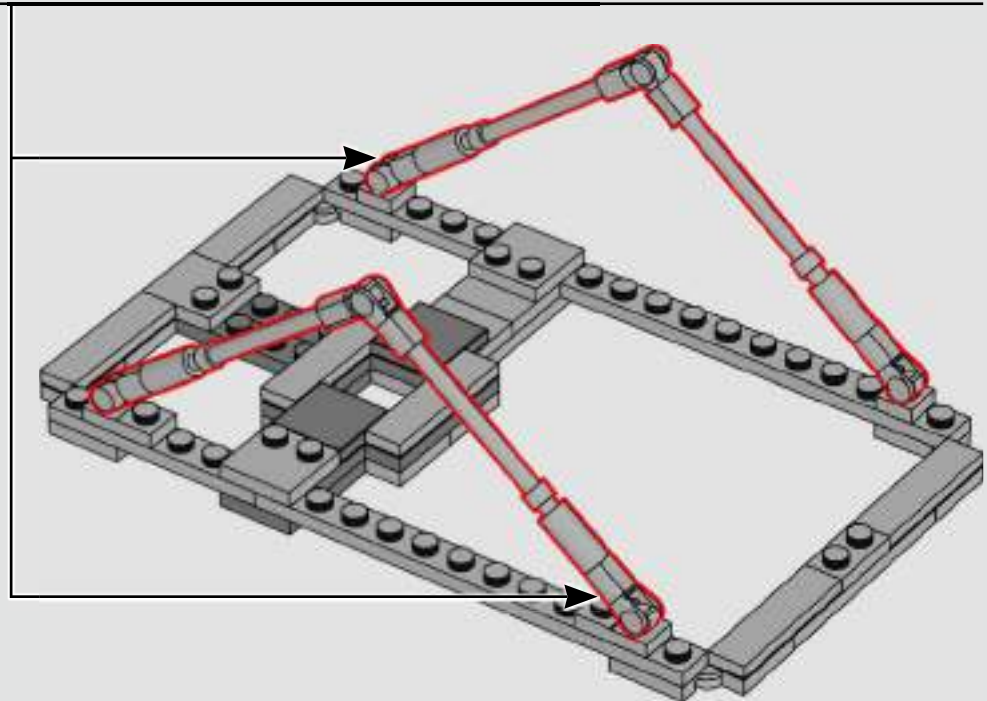
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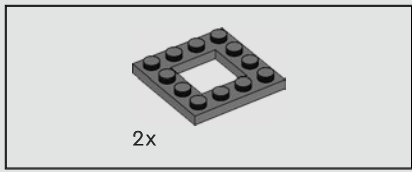


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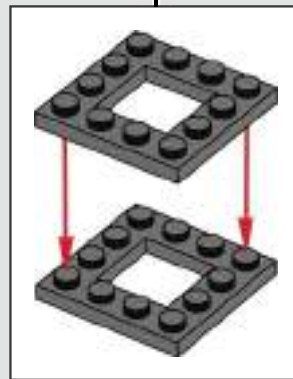
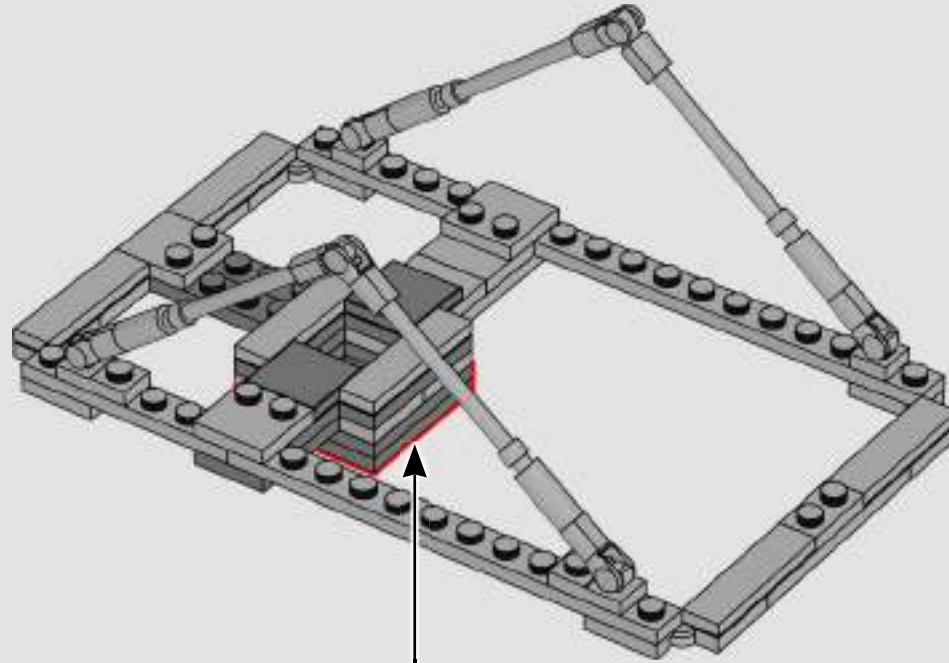


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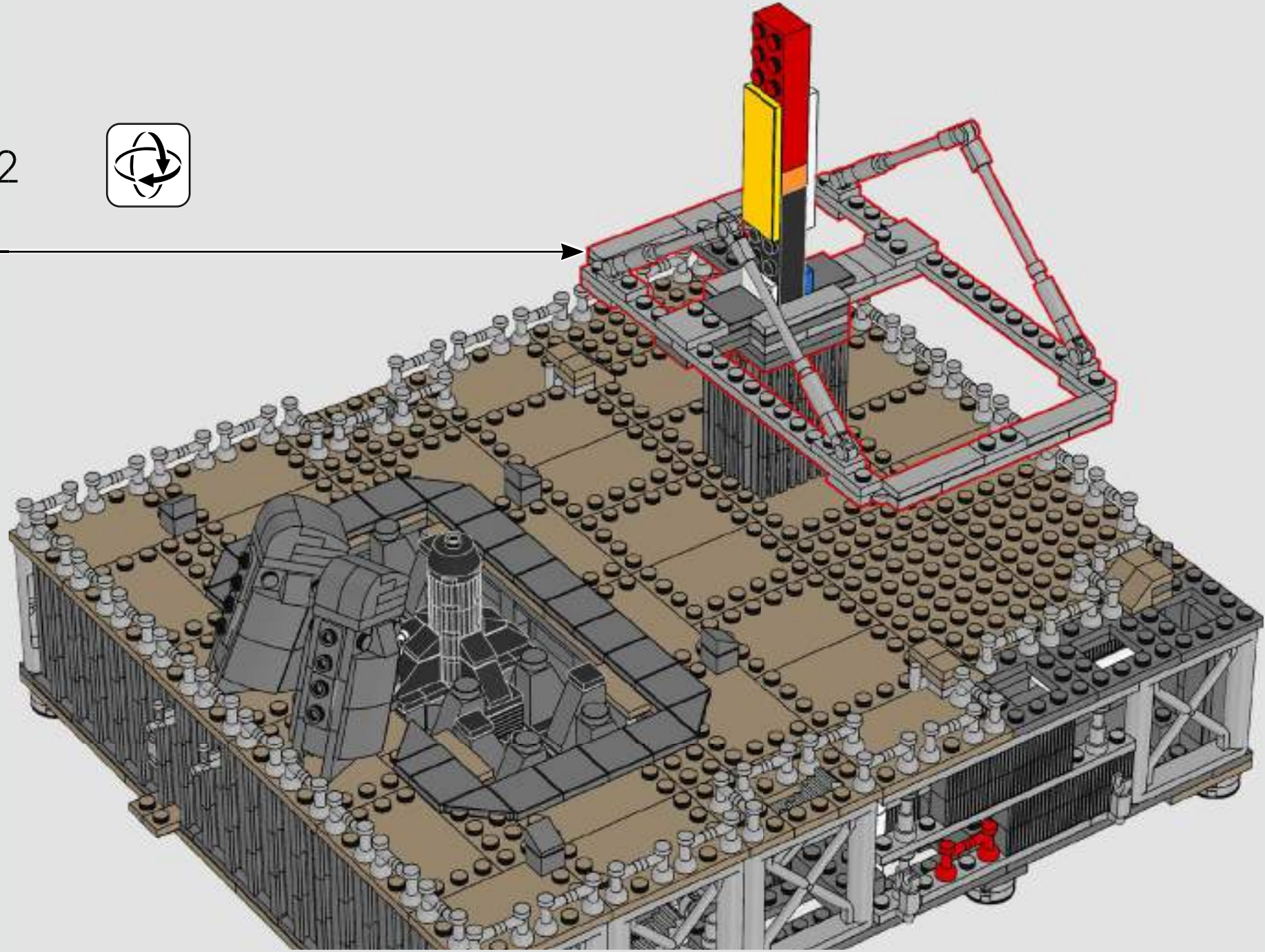


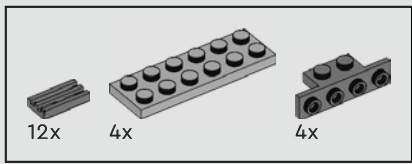


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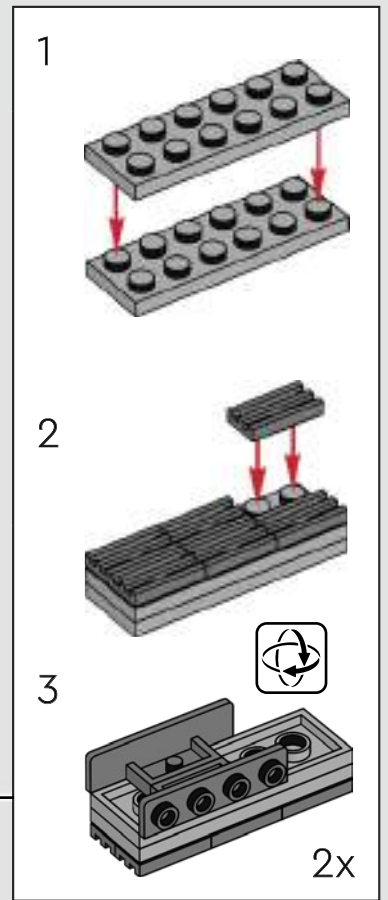
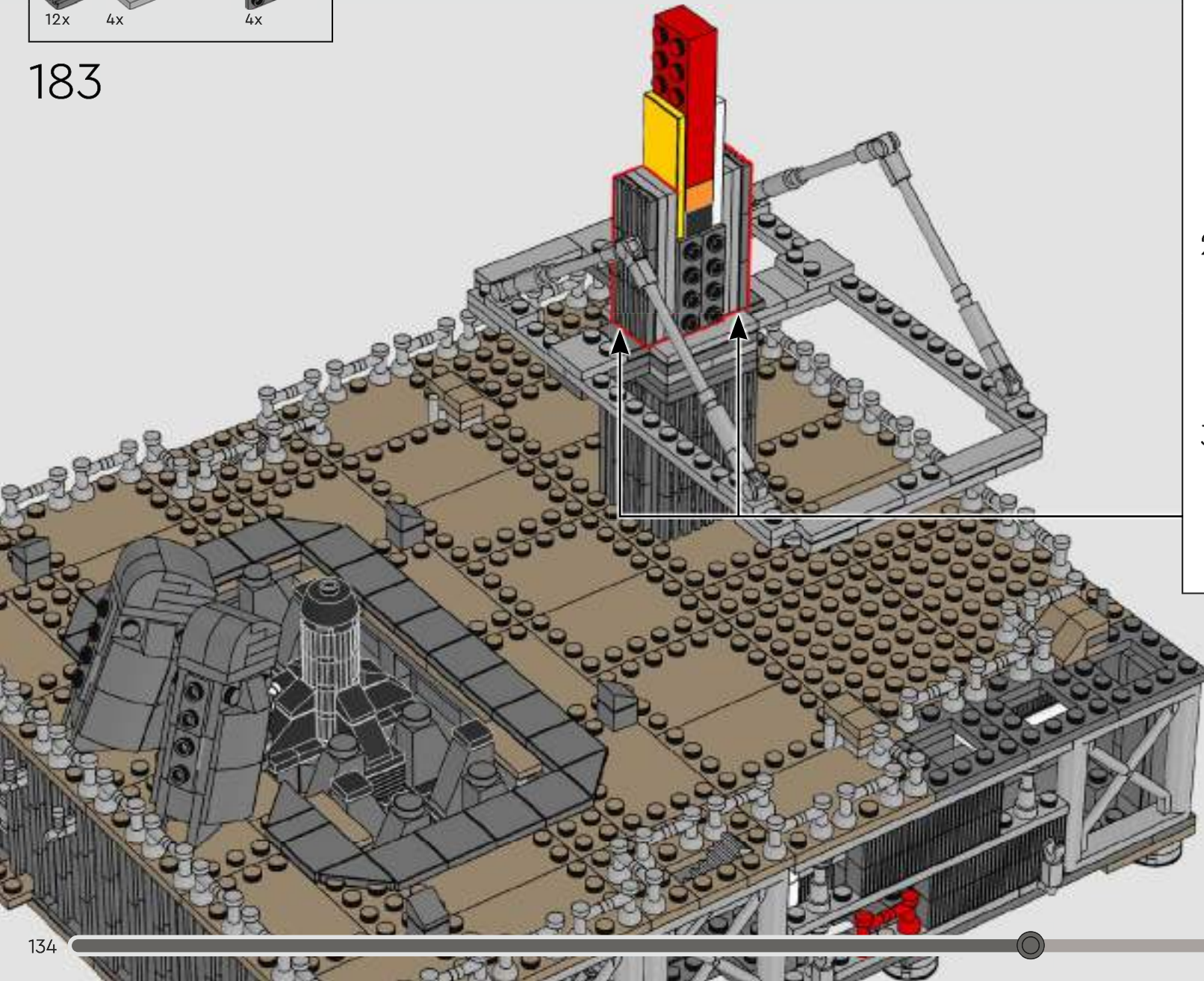


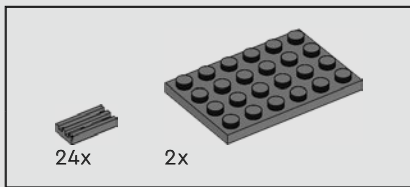
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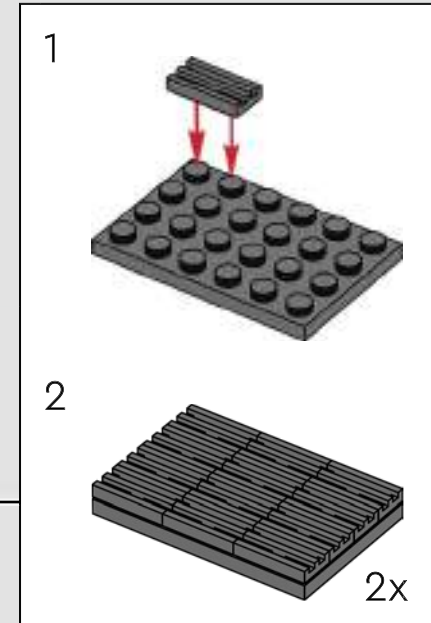
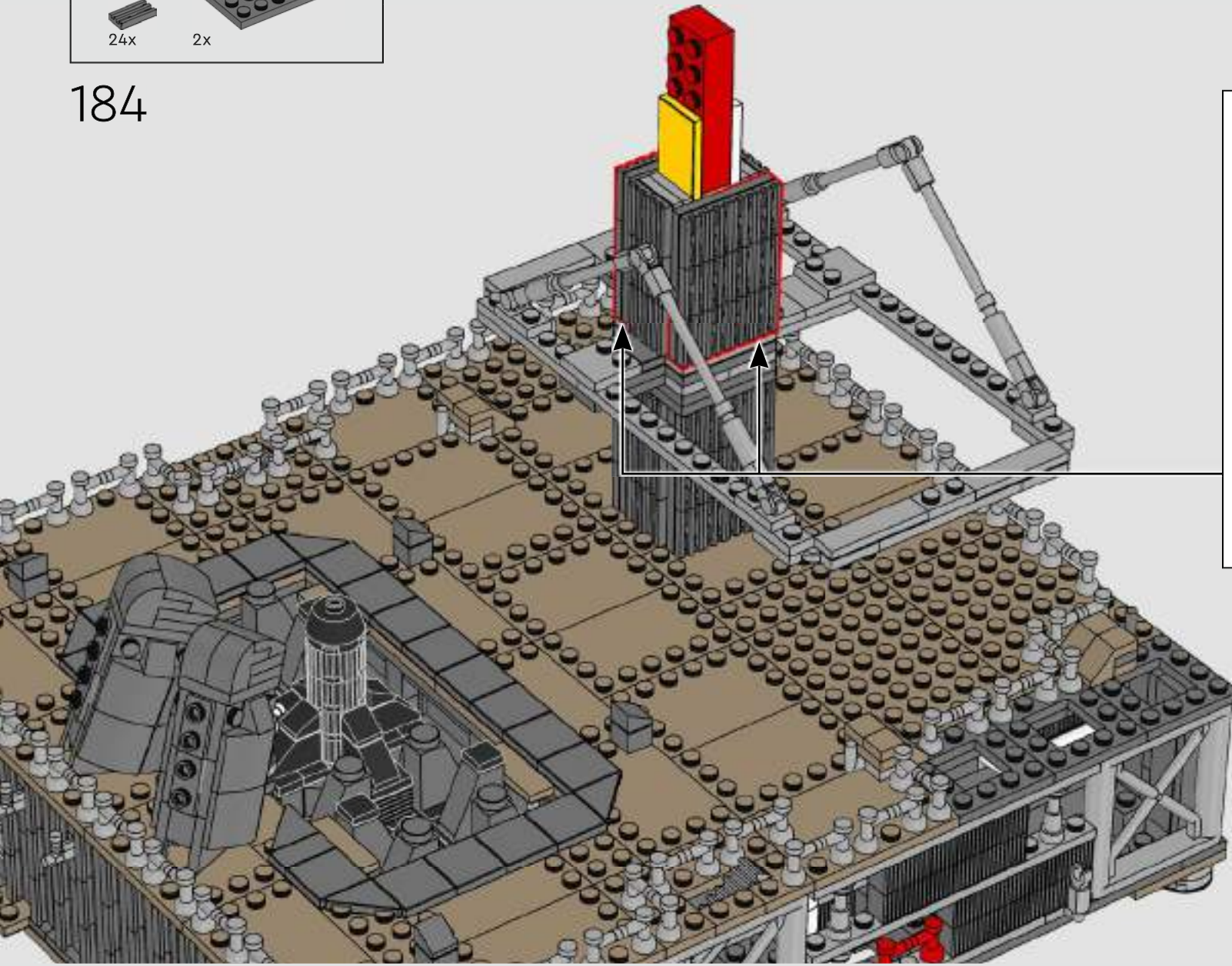


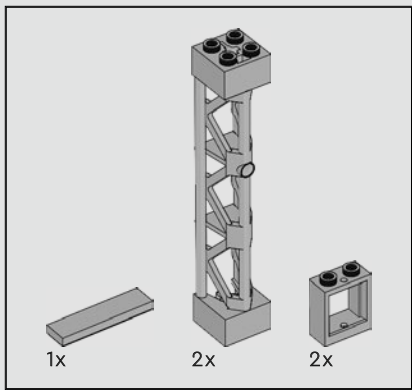
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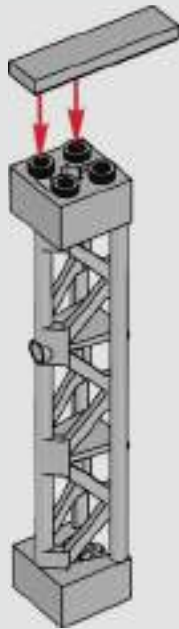
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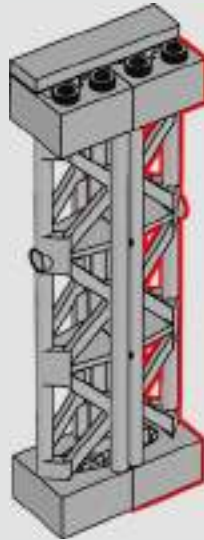


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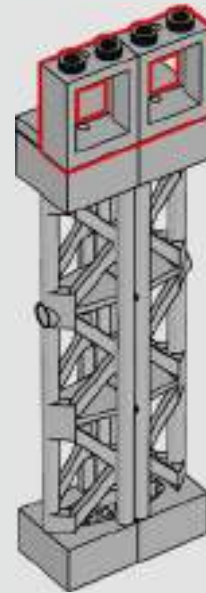
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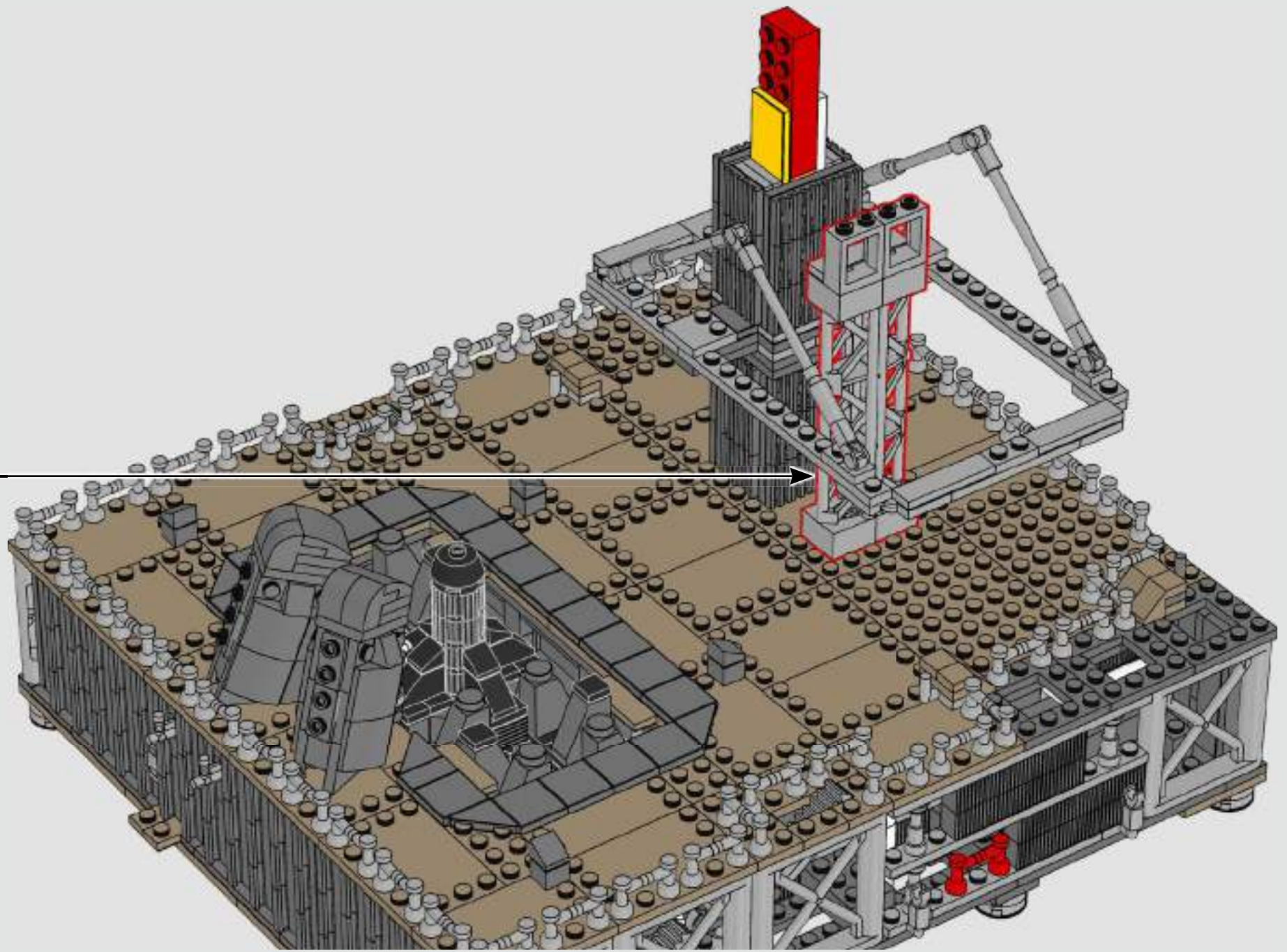


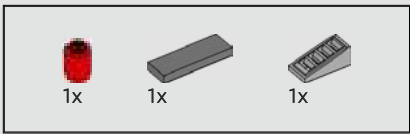
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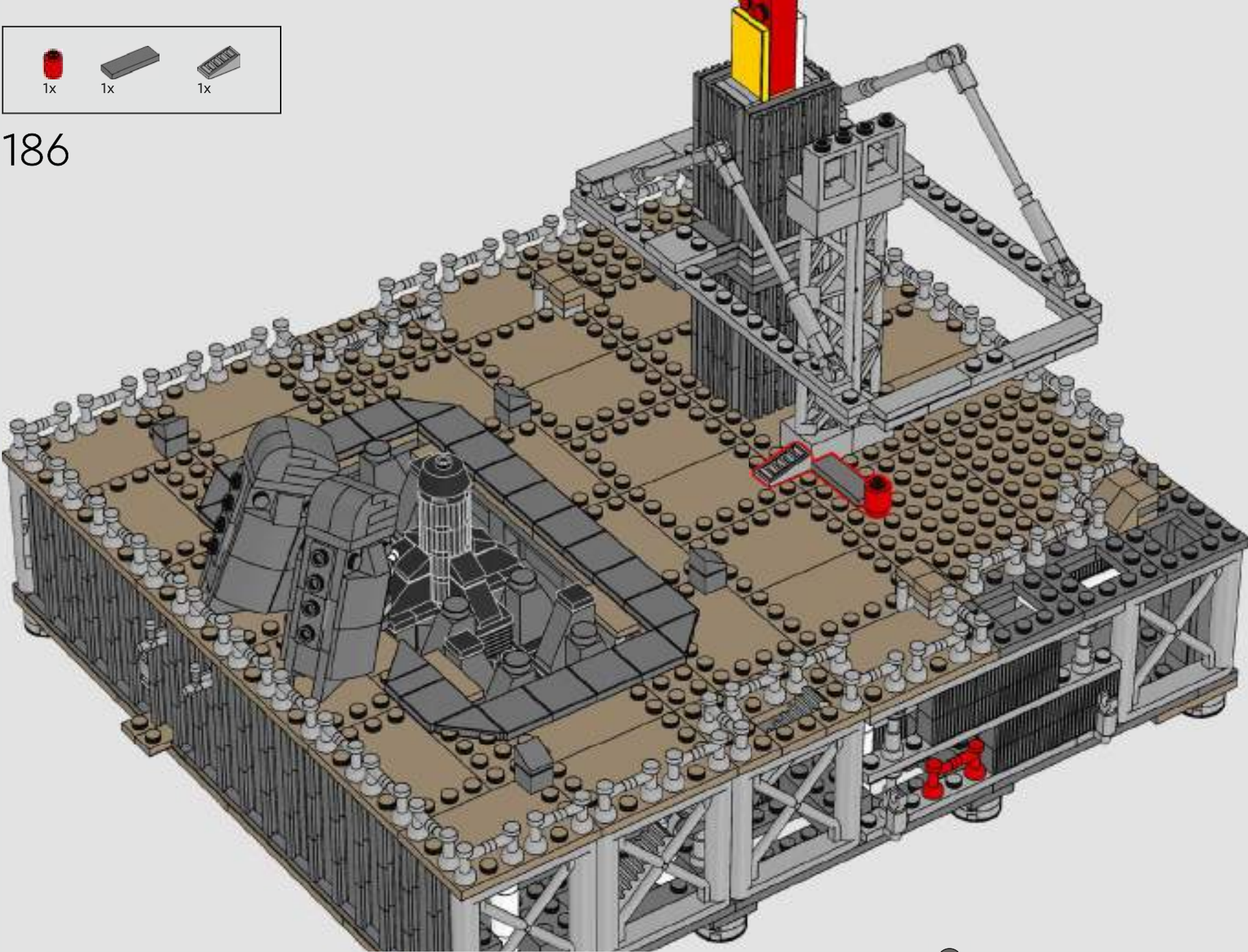
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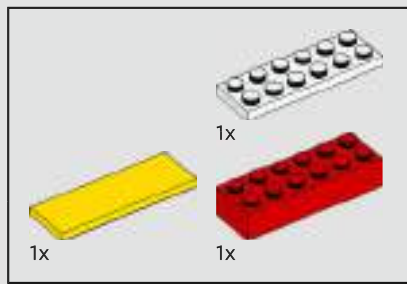




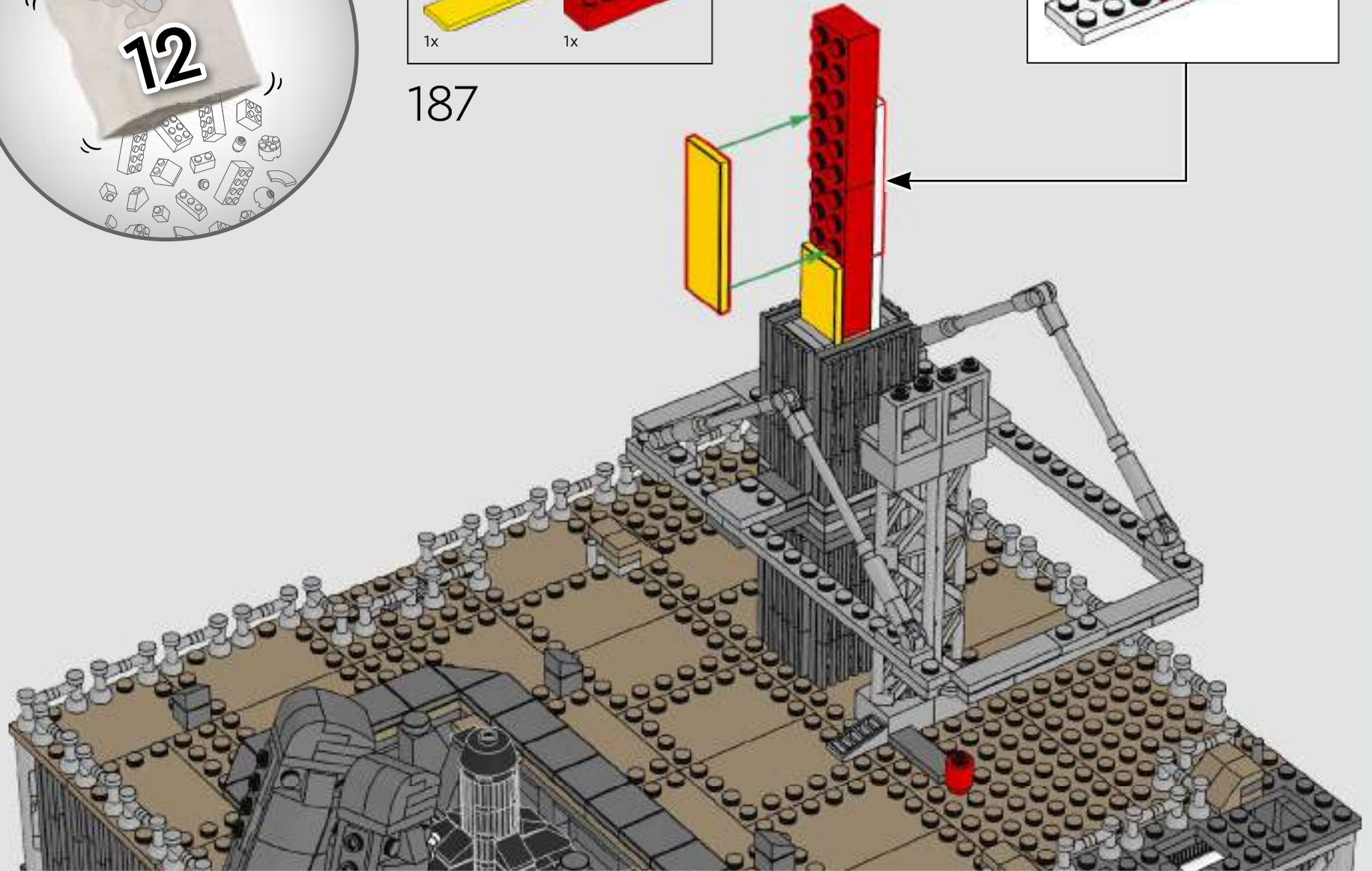
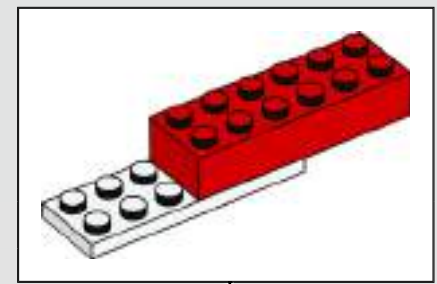


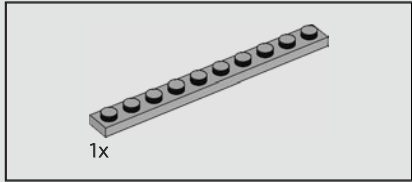
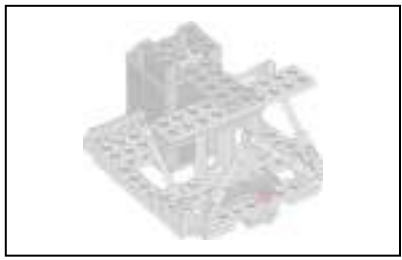
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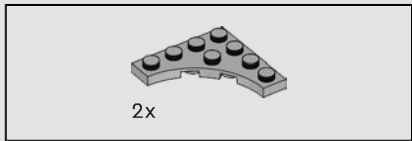
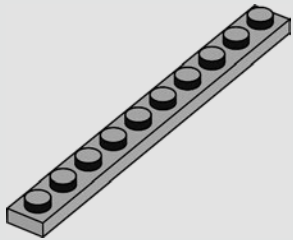


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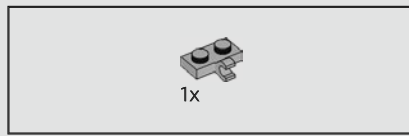
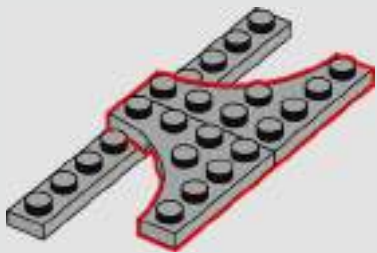




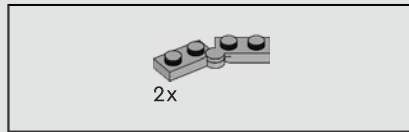
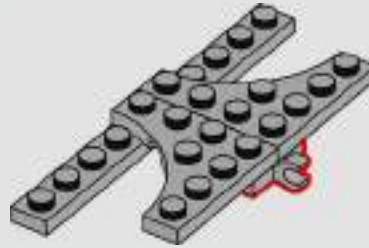
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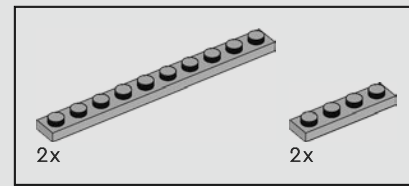
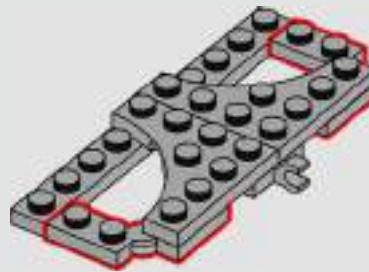
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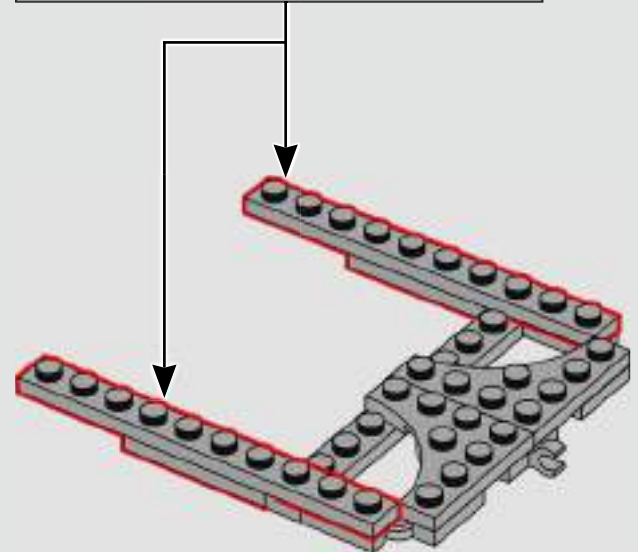
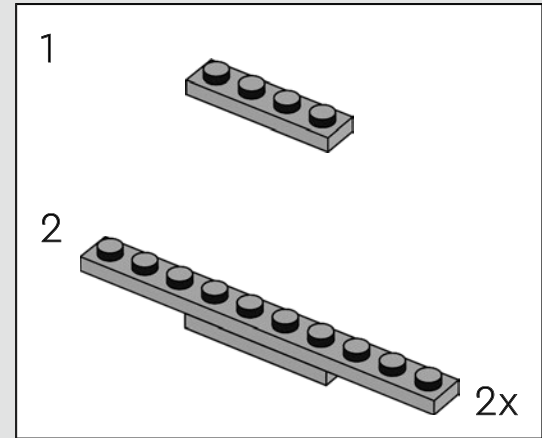
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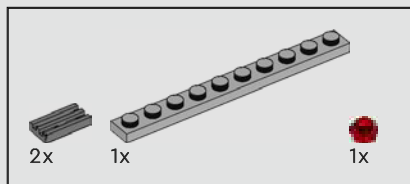


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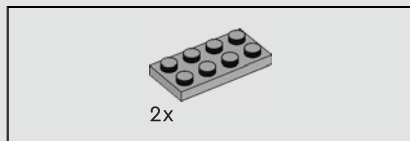
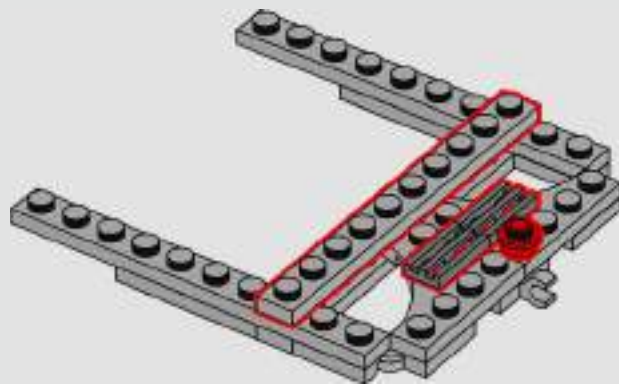


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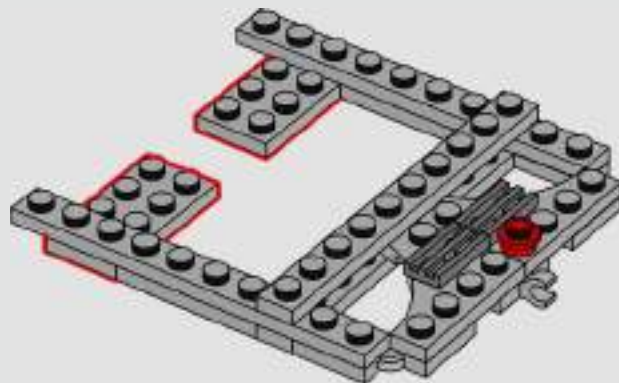




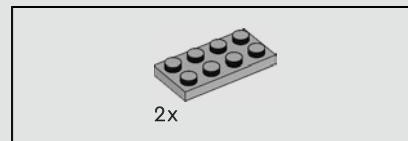
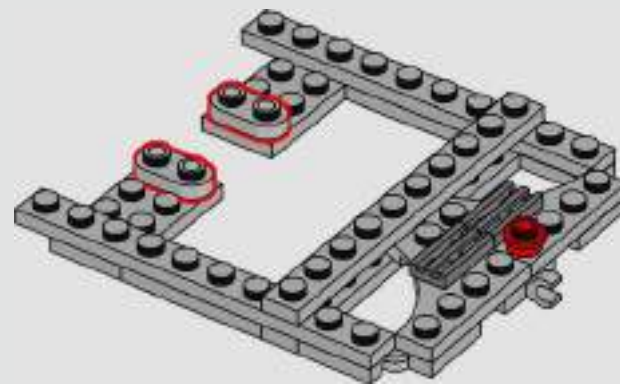
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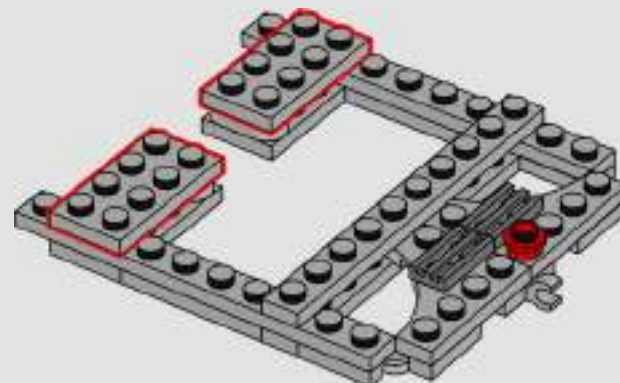
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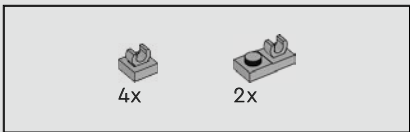


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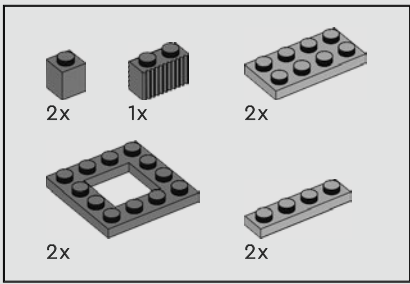
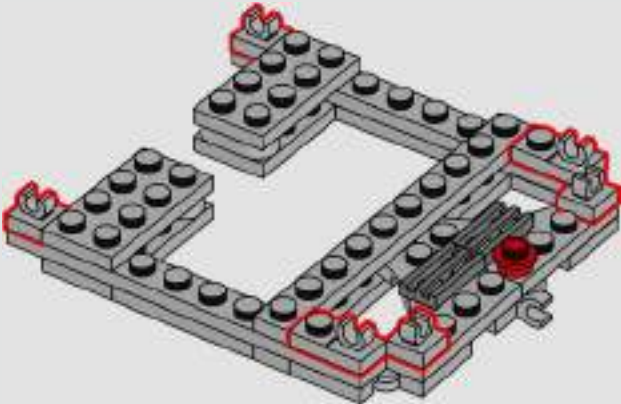


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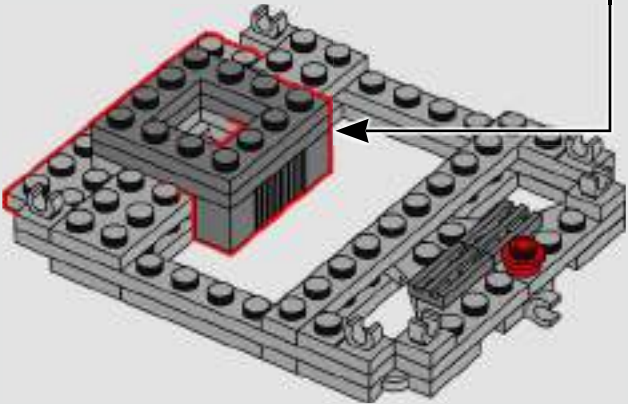
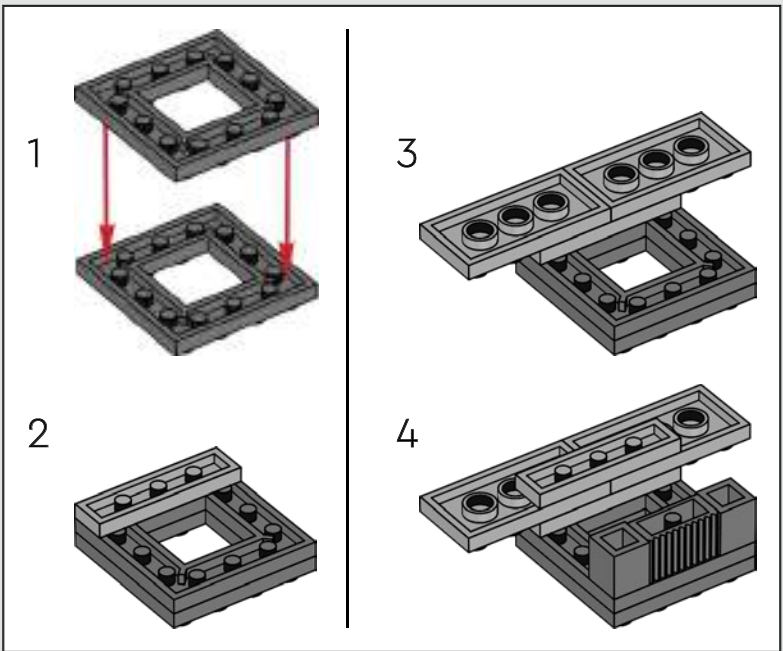


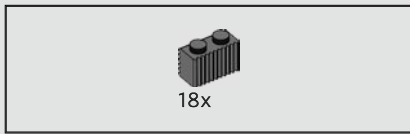


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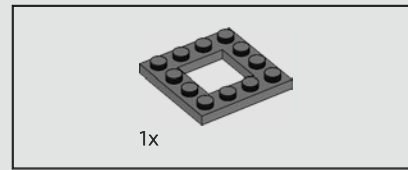
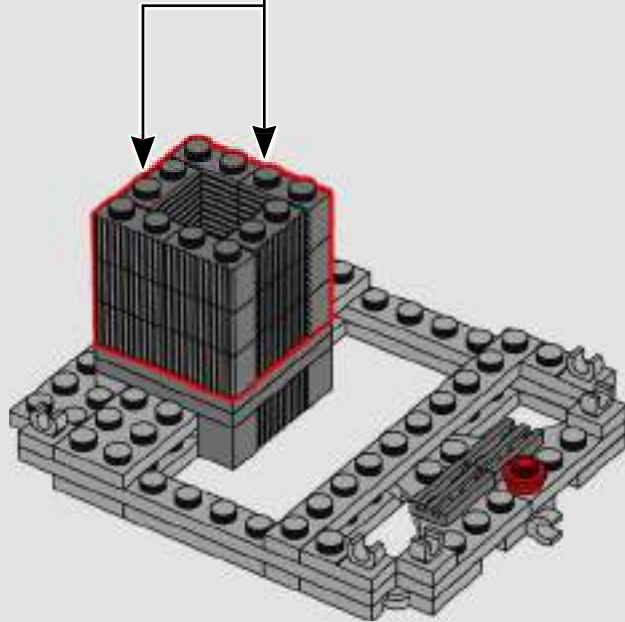
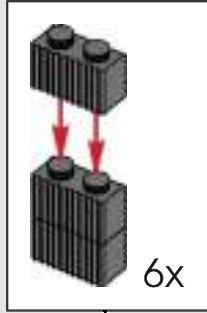


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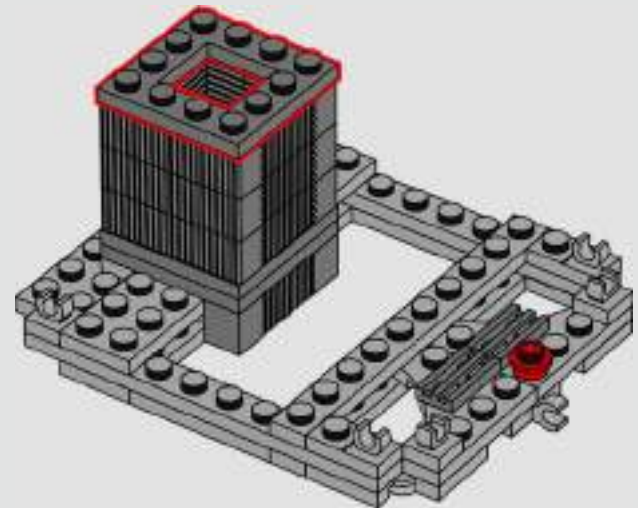


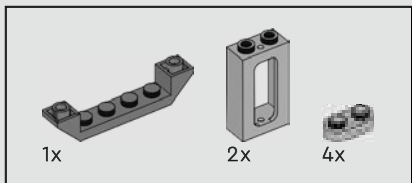


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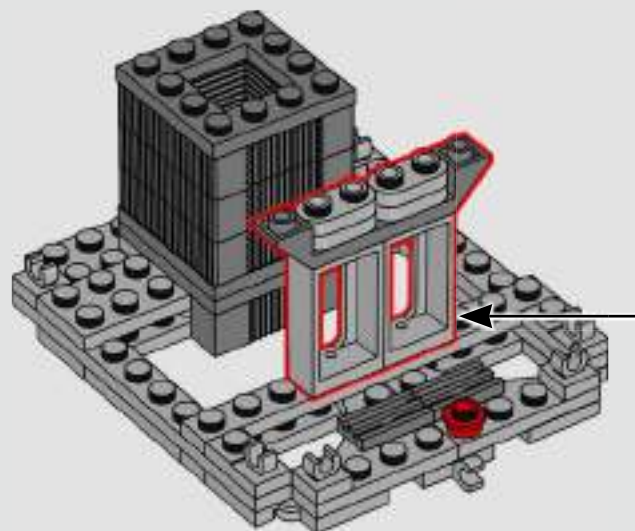
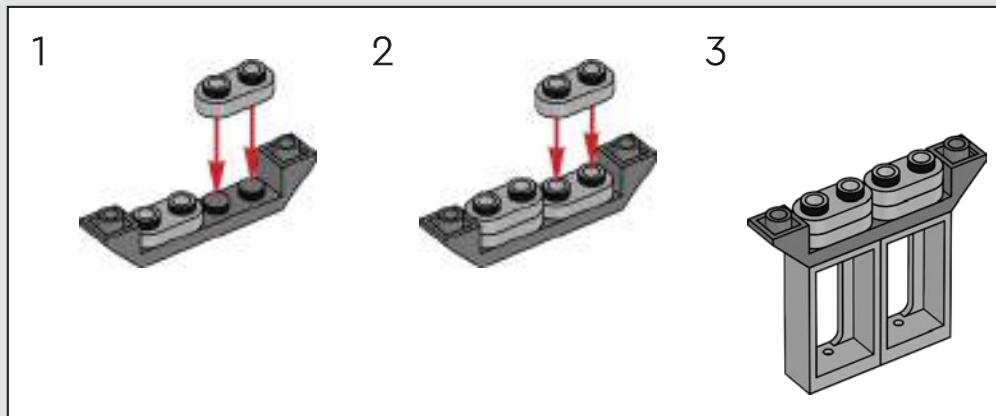


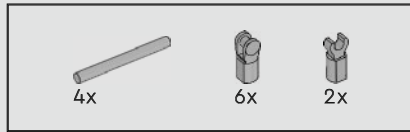
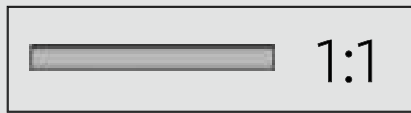
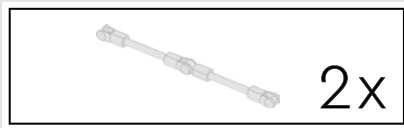
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201



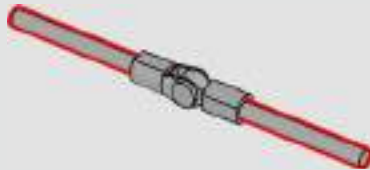


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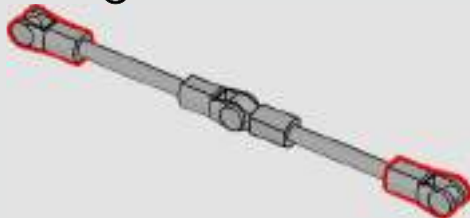
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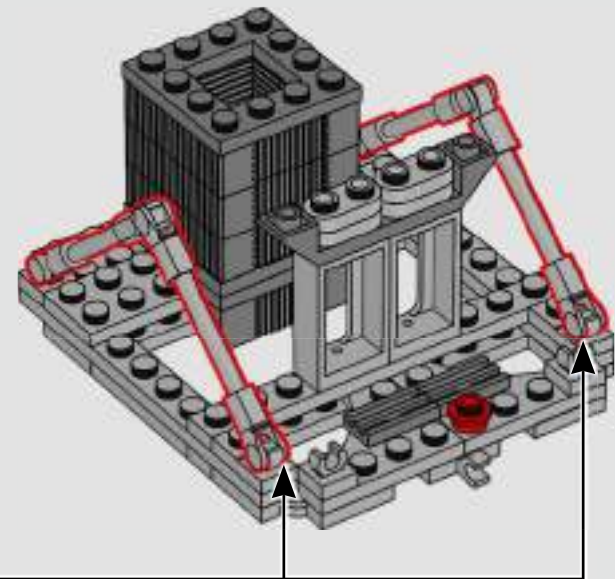
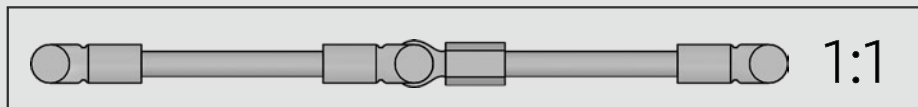
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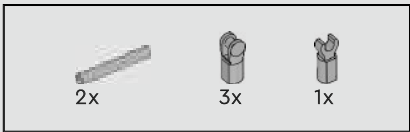


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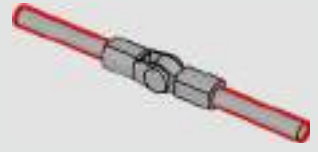


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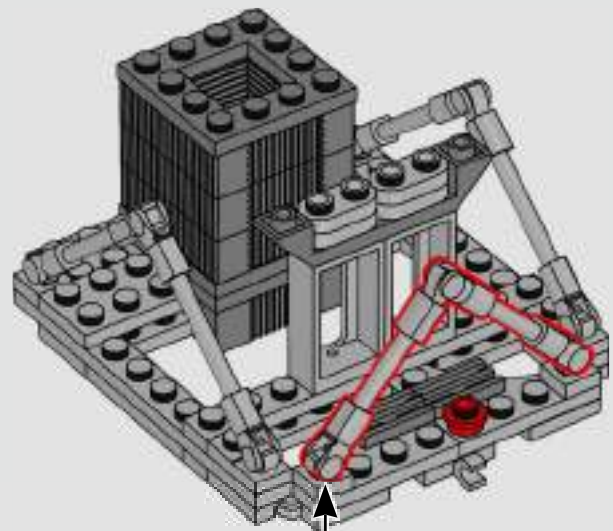
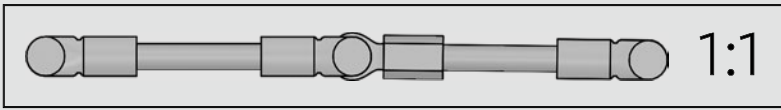
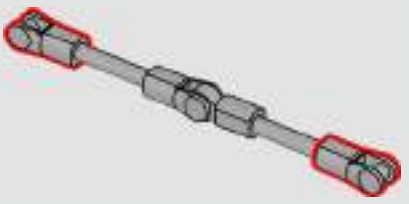
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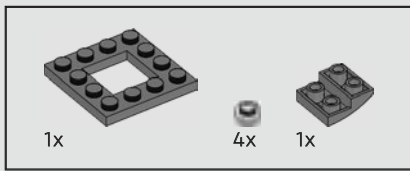


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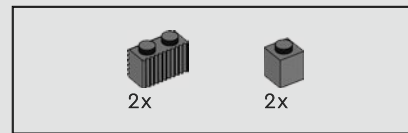
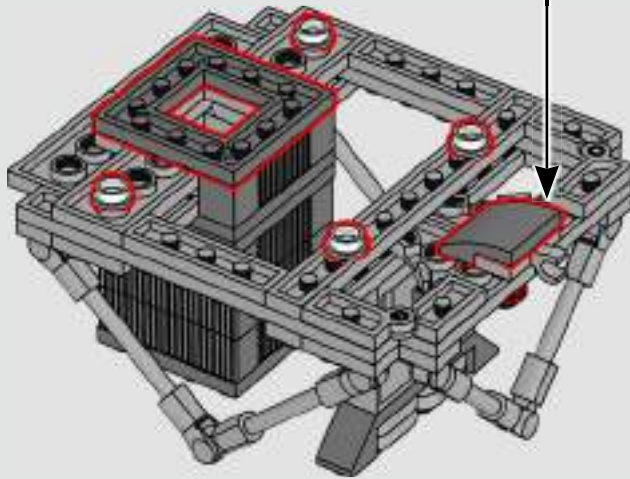
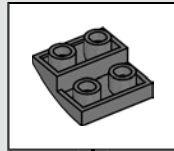


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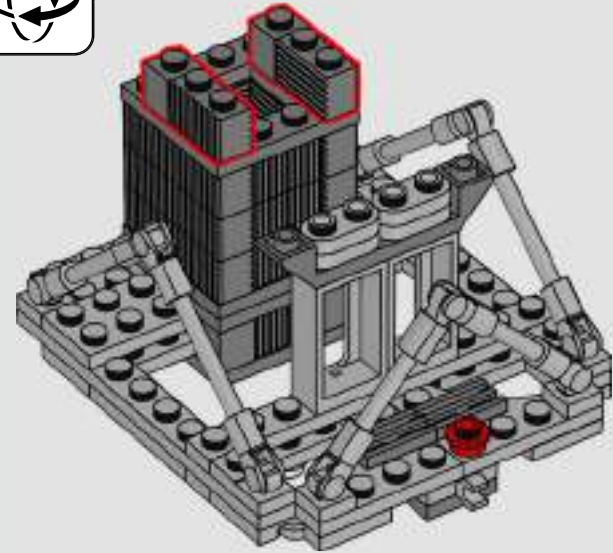
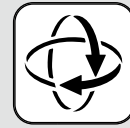


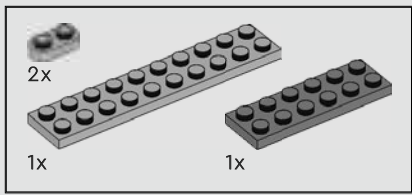


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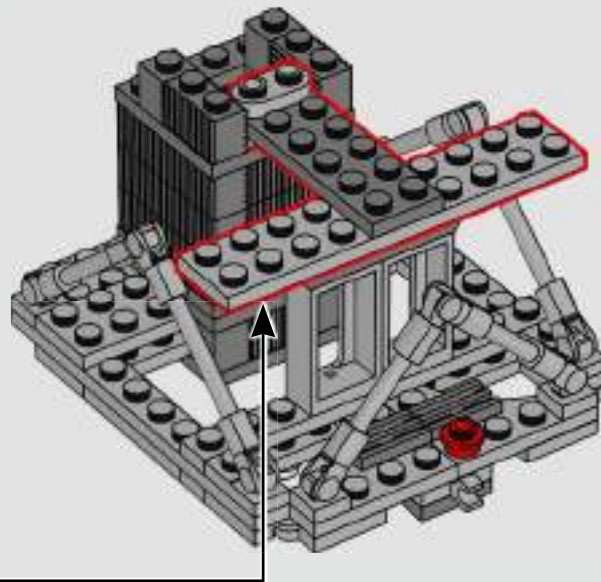
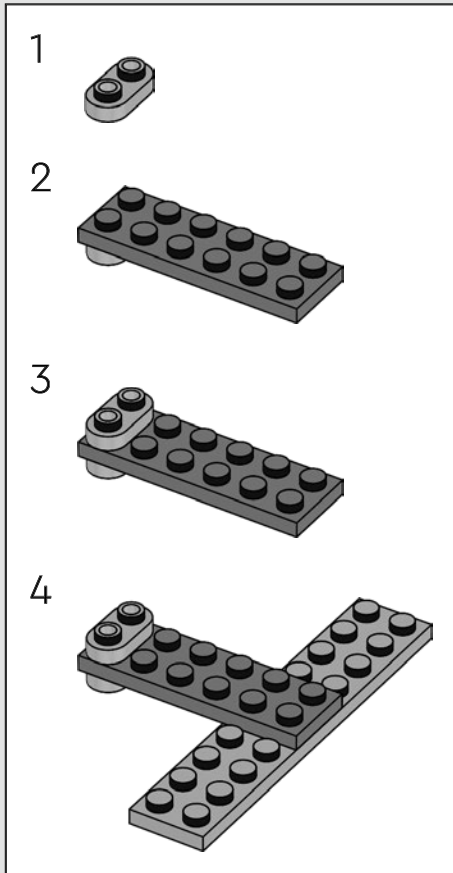


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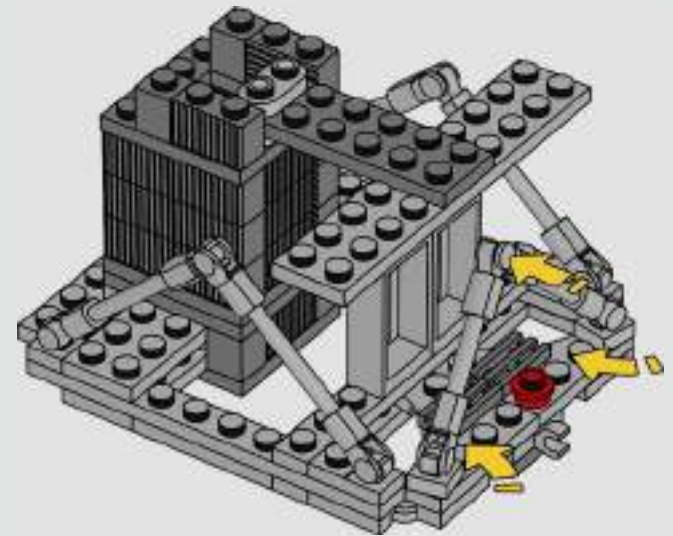




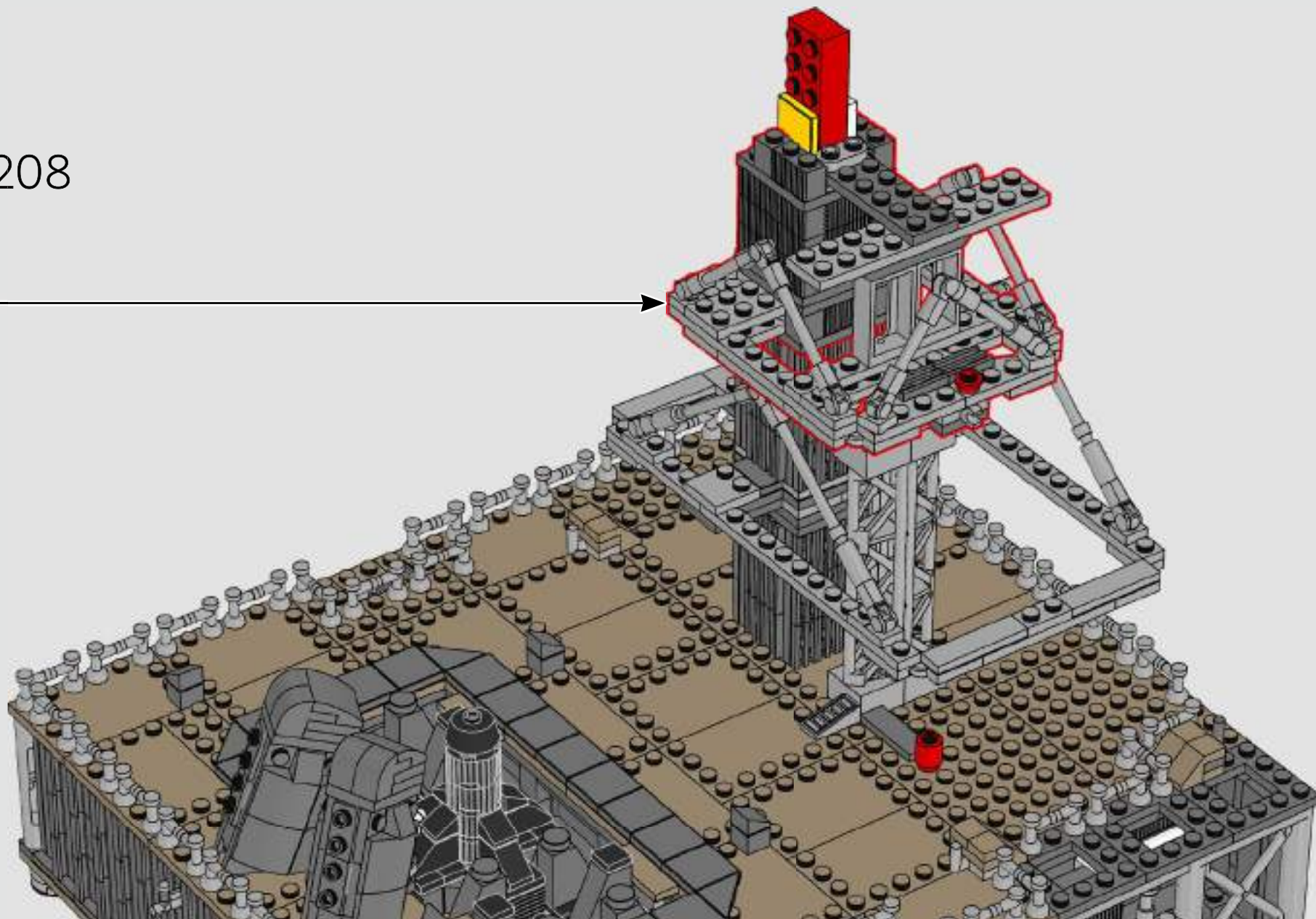
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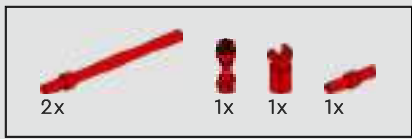


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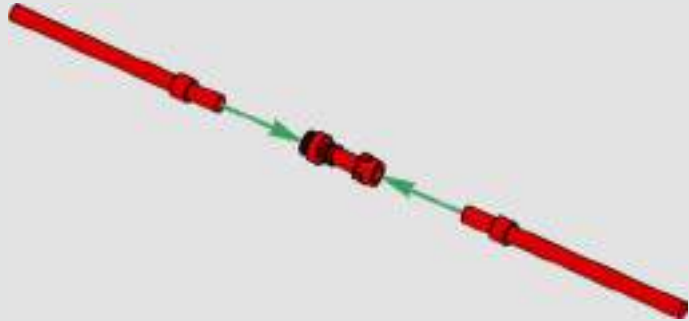
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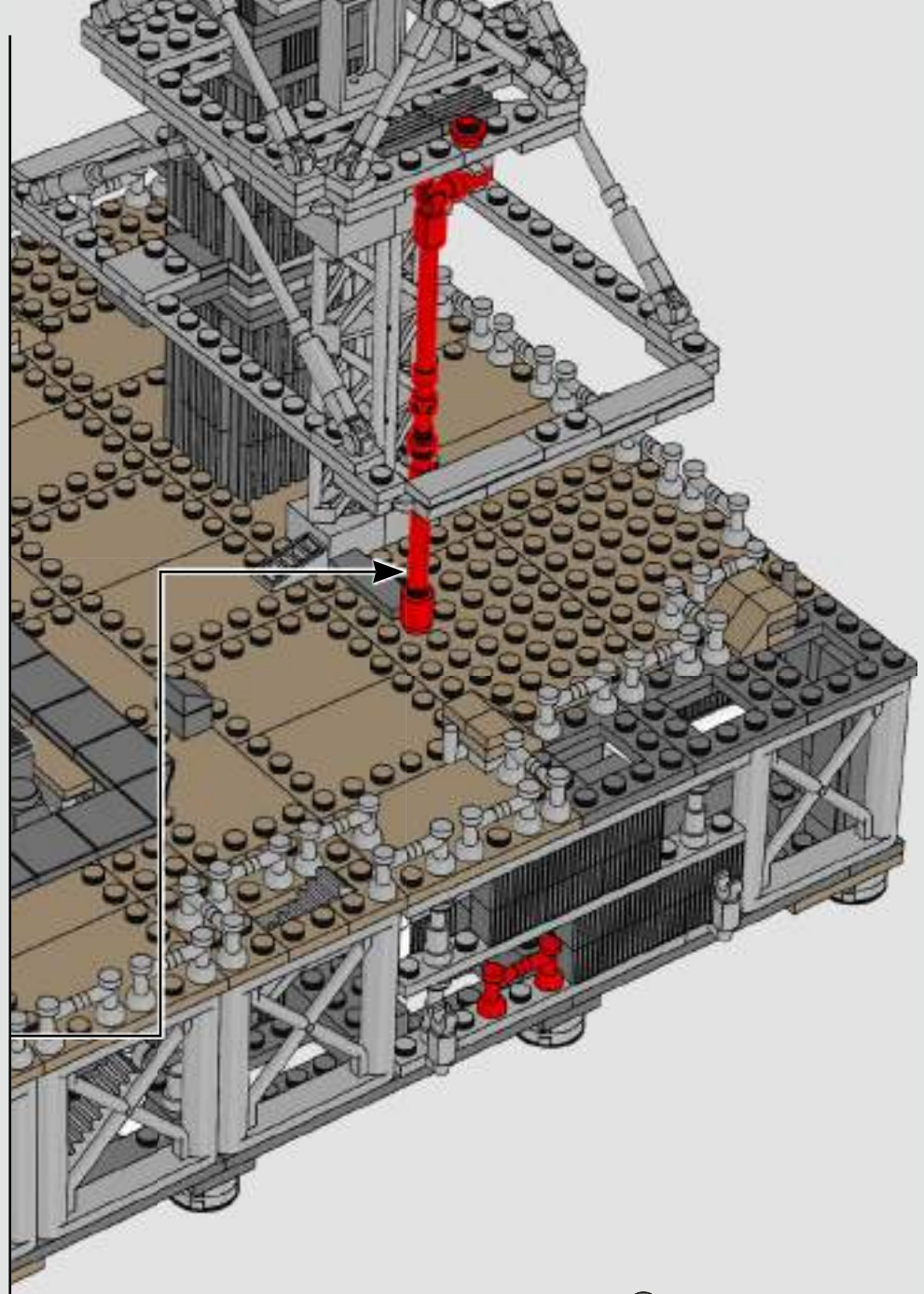


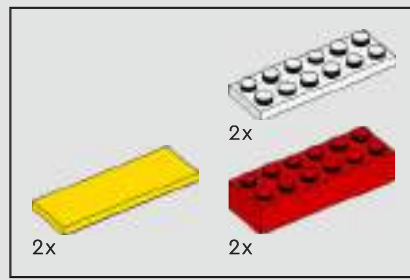
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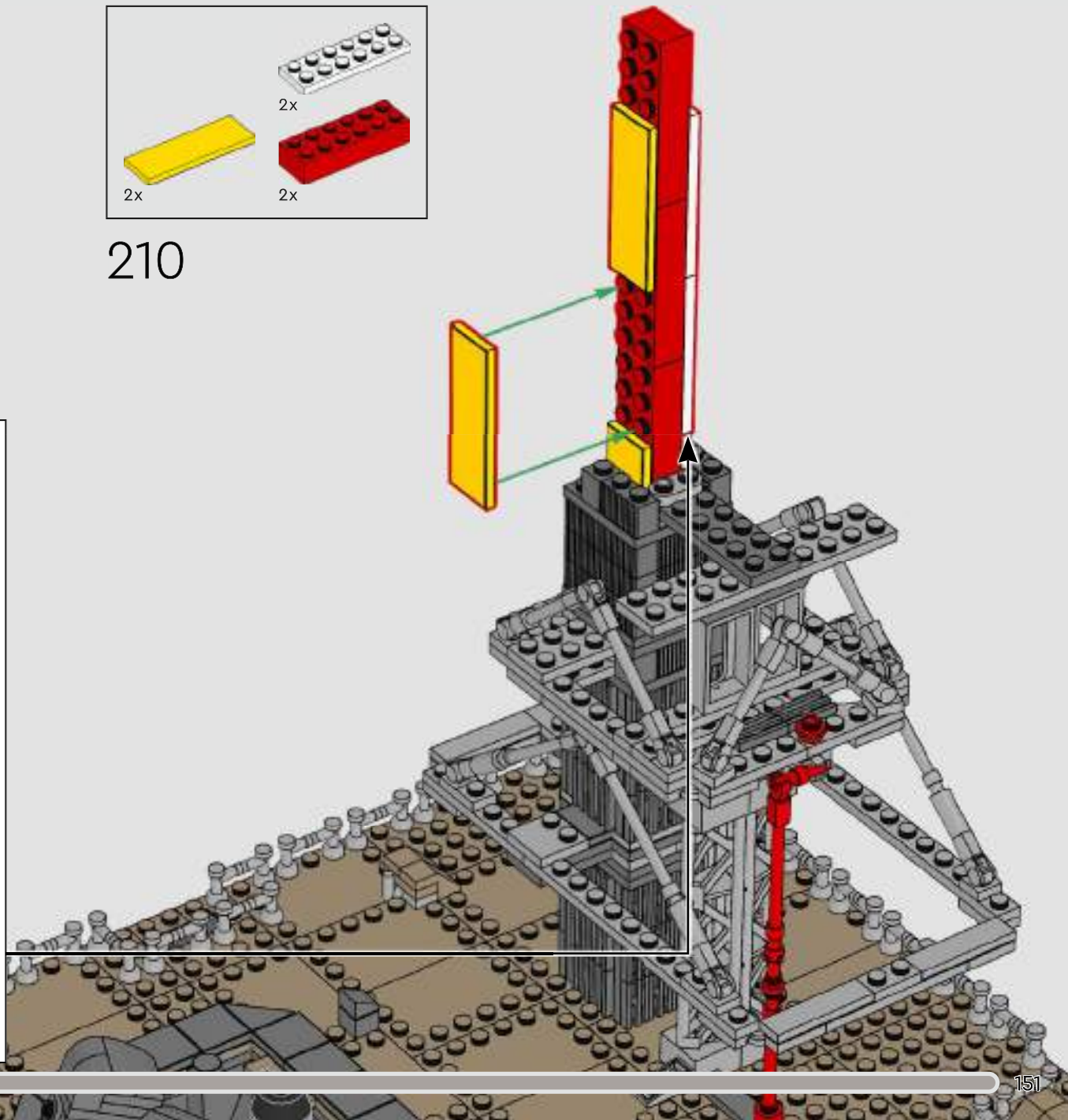
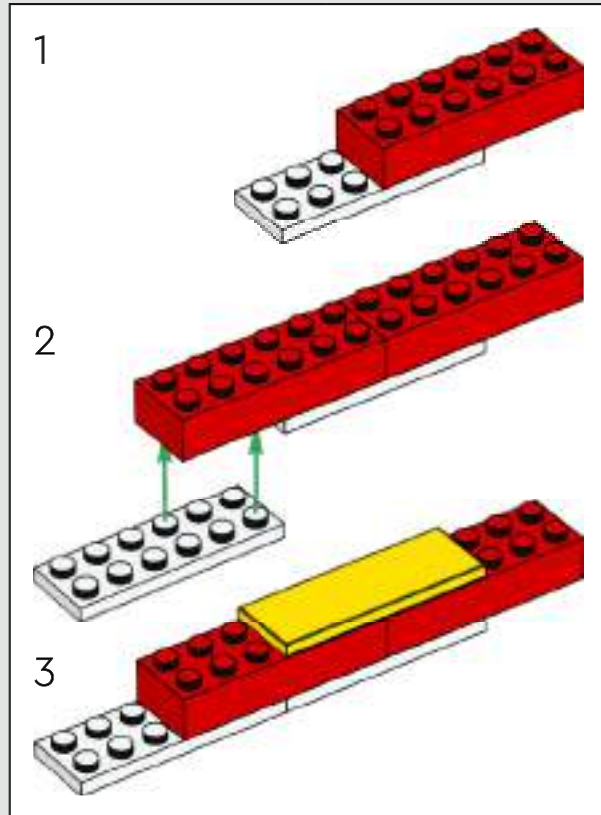


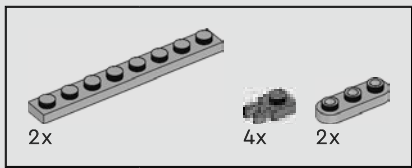
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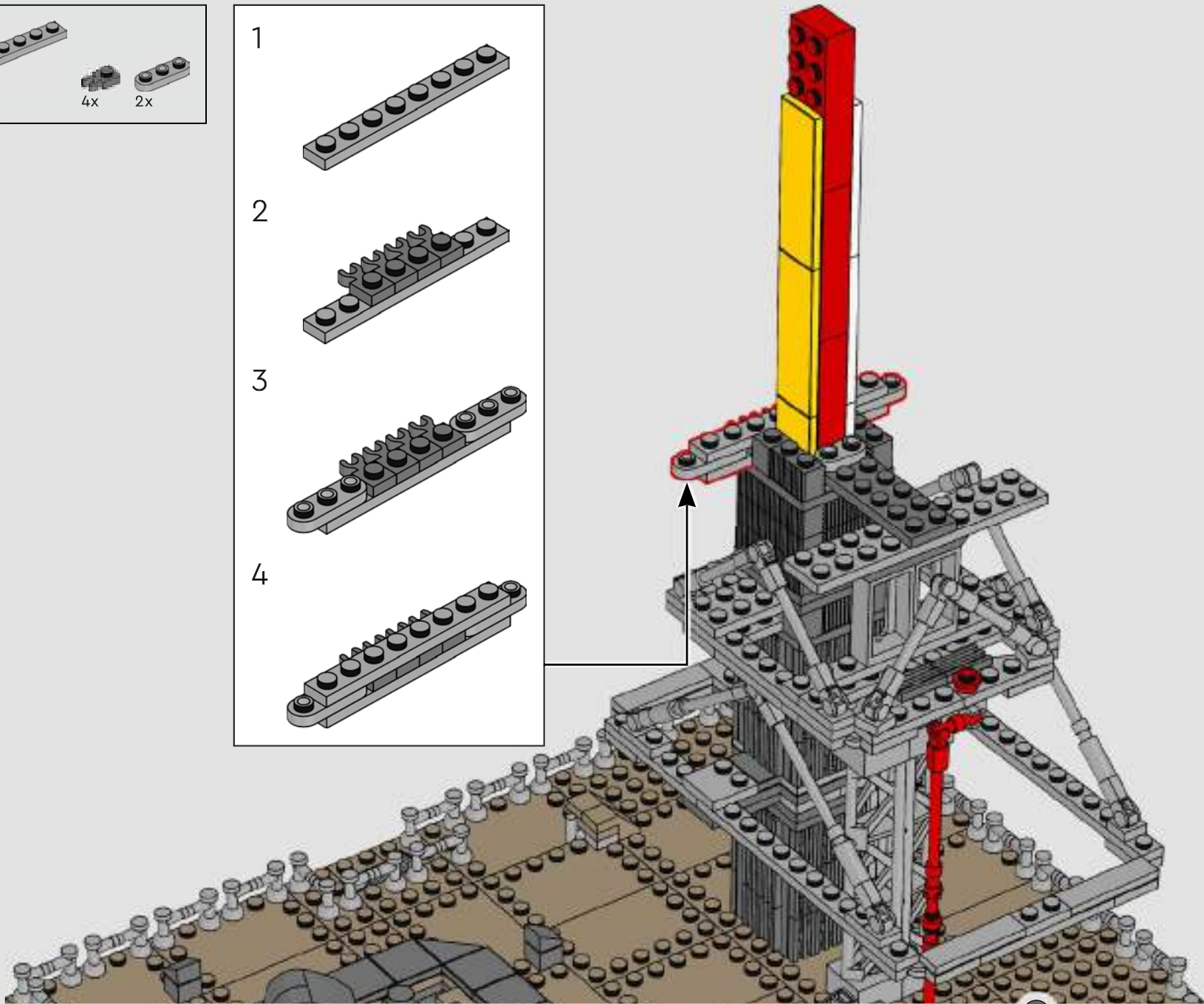
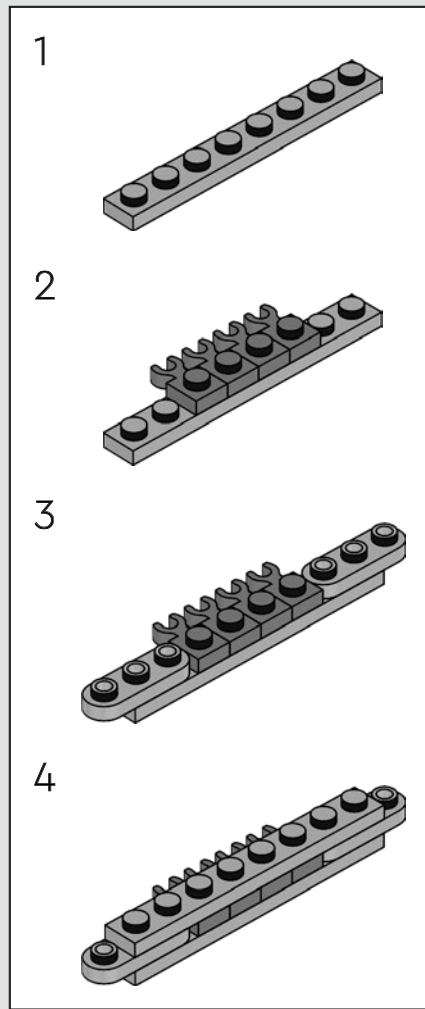


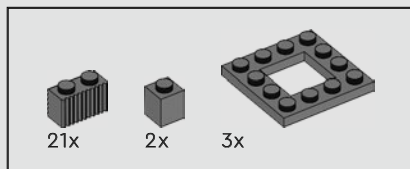
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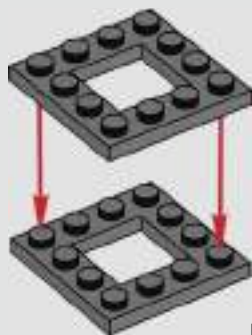
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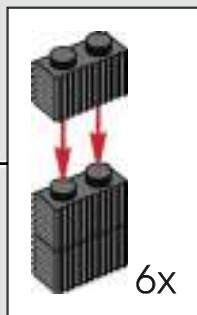
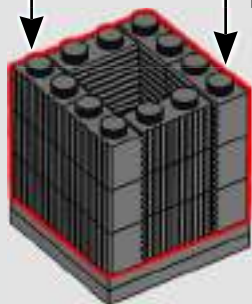


212

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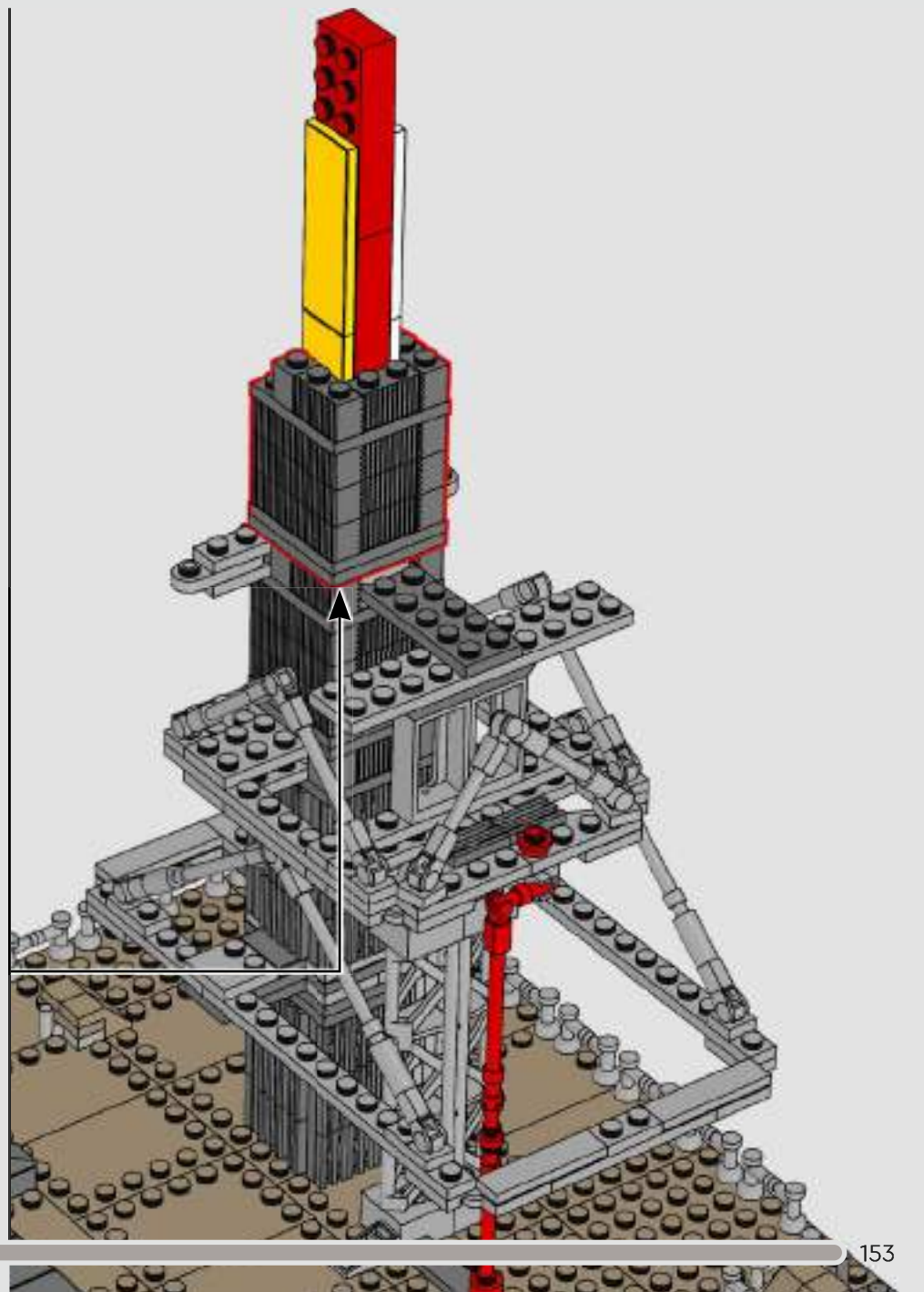
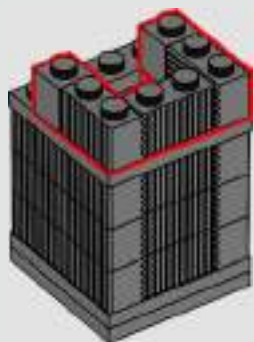
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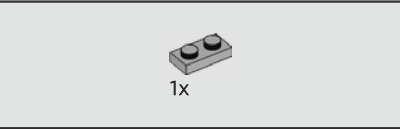
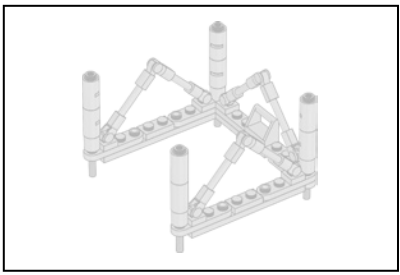


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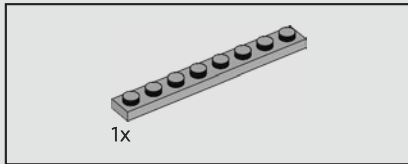
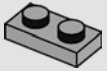
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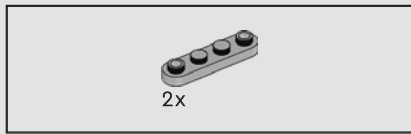
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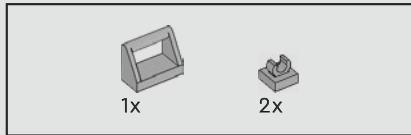
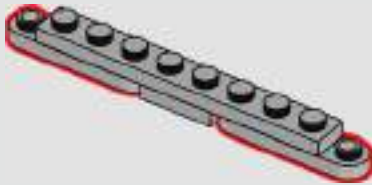
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214



2x

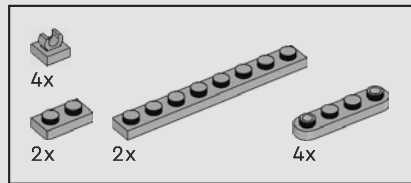
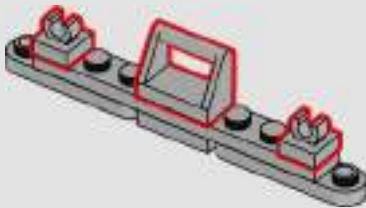
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2x

216



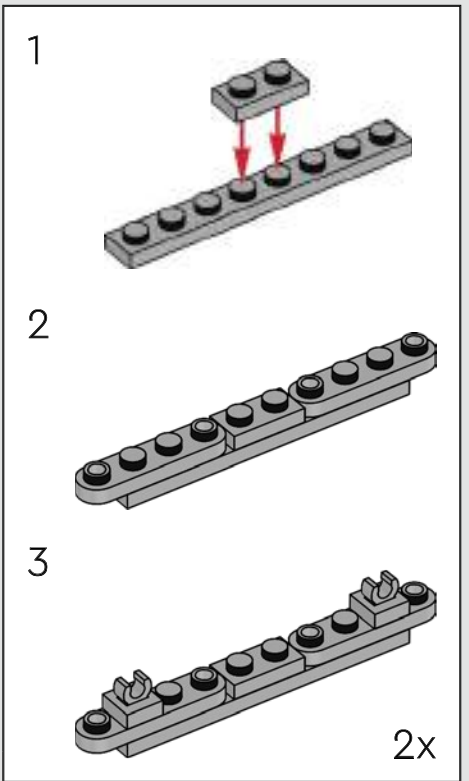
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2x

2x

4x

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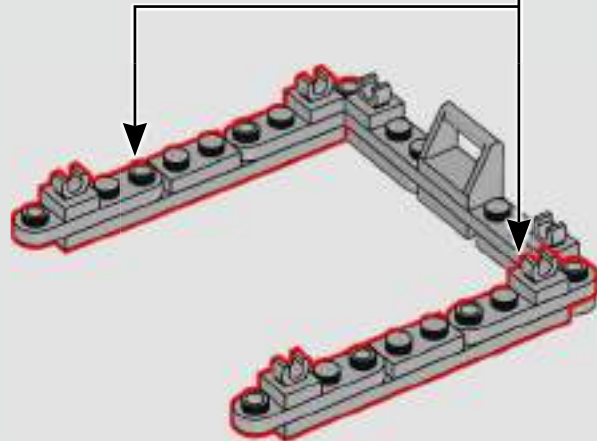


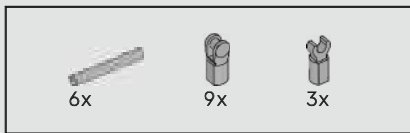
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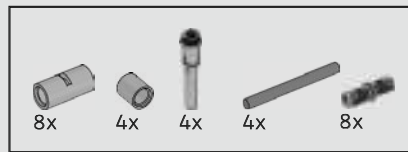
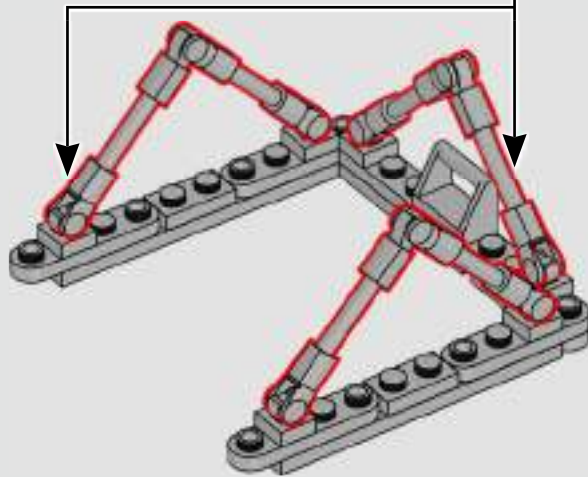
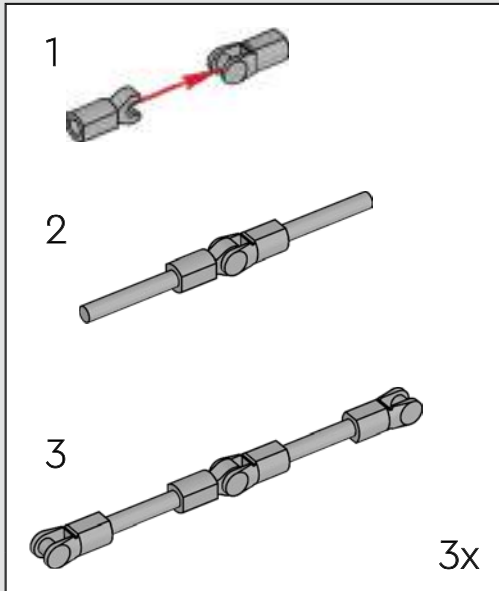
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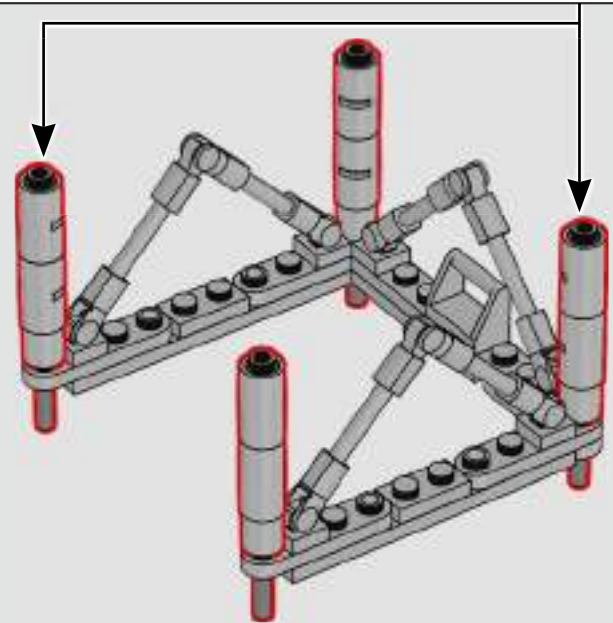
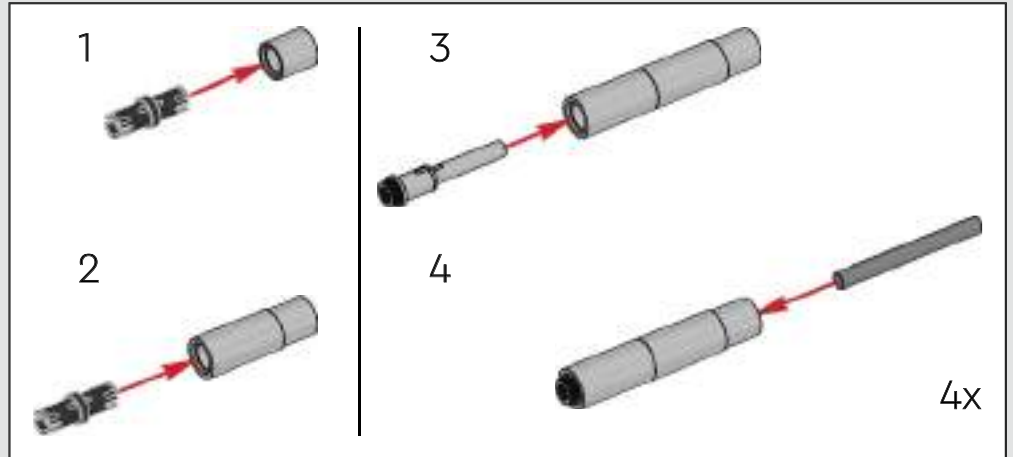




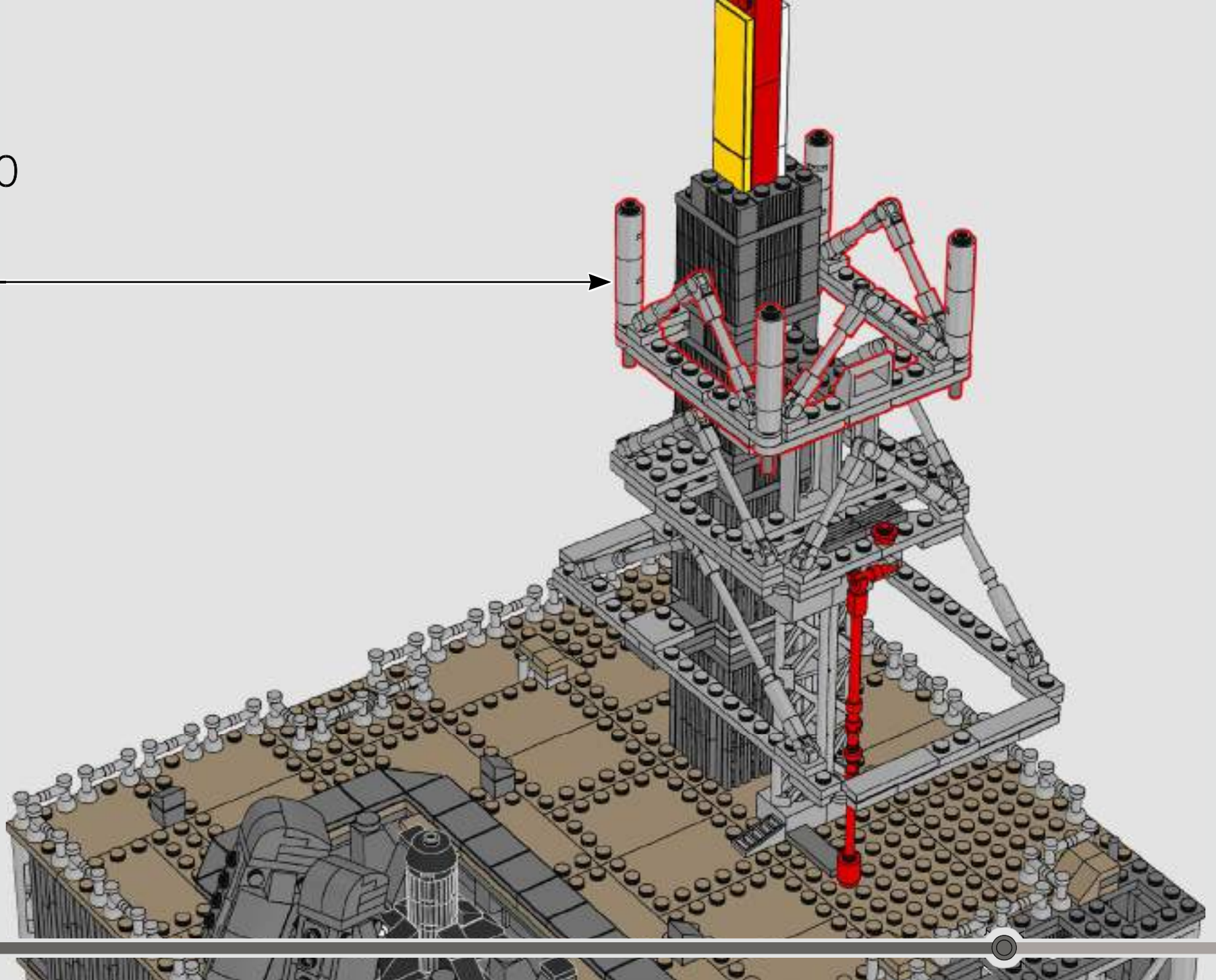
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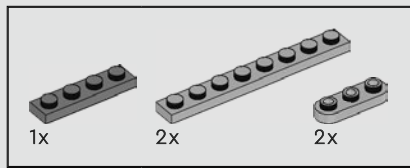


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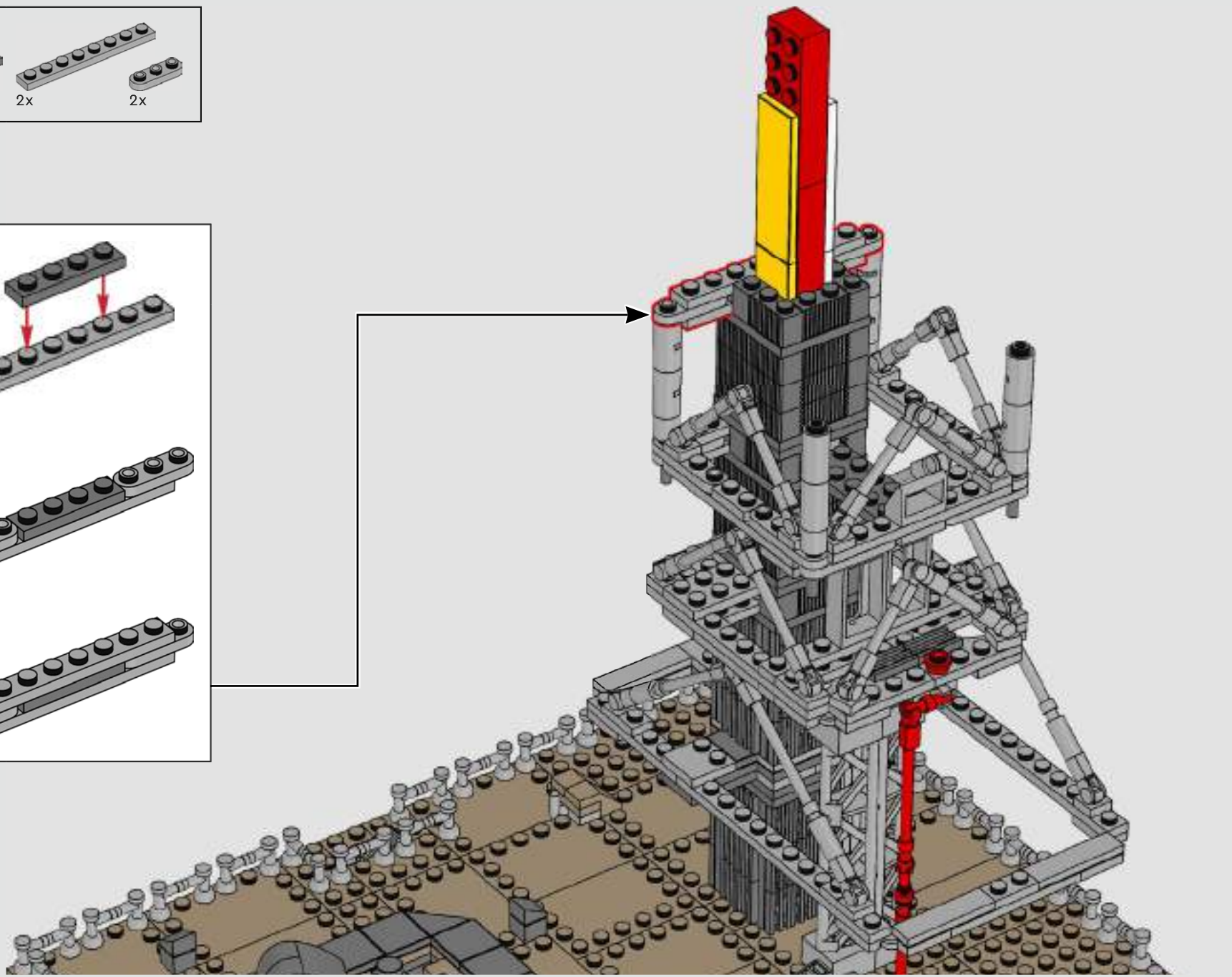
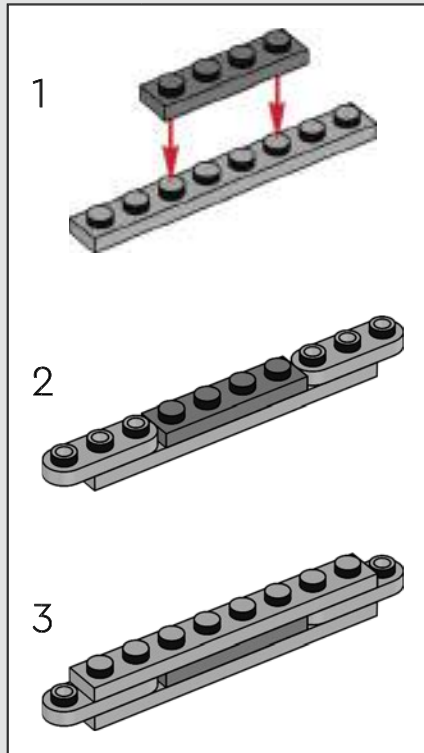


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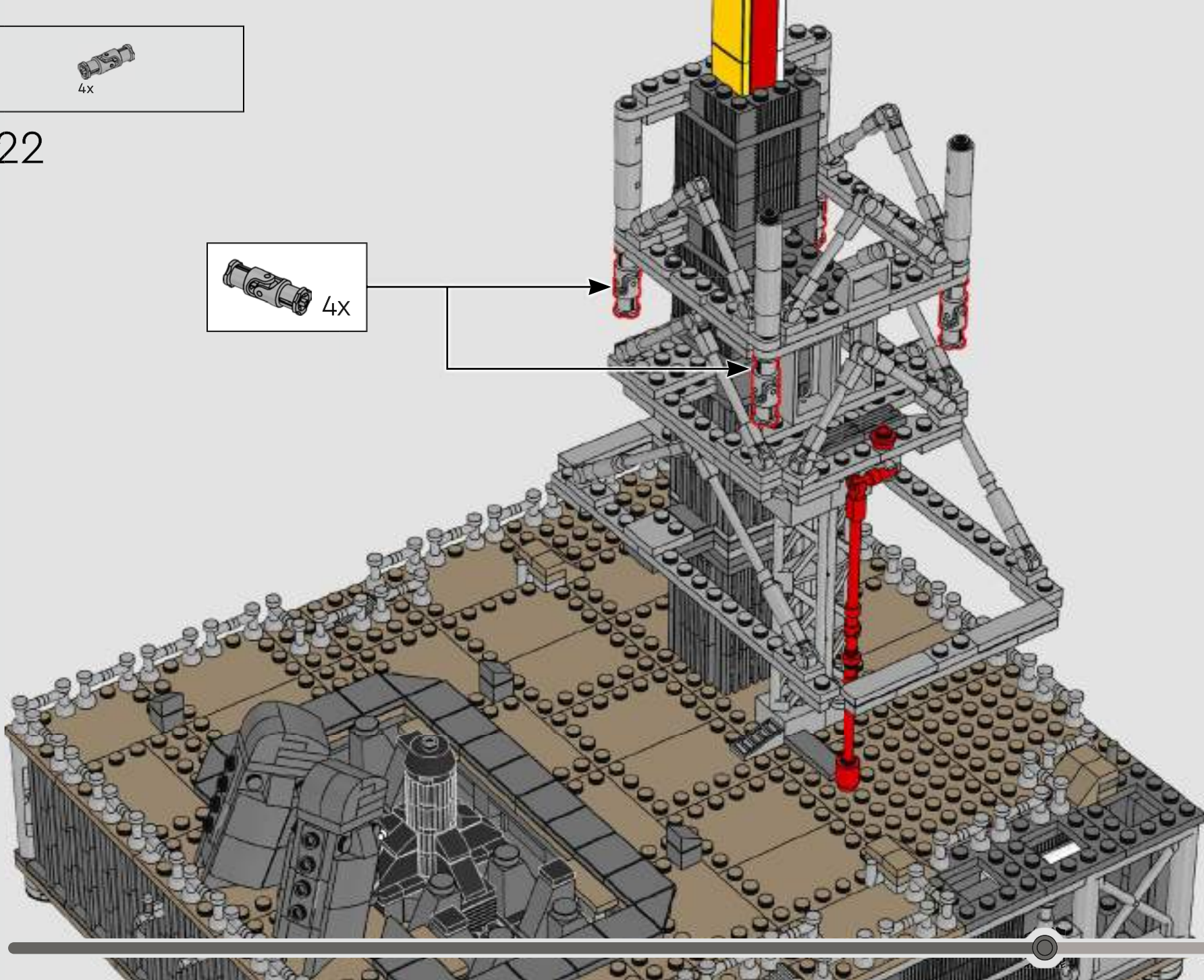
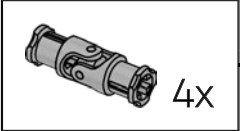


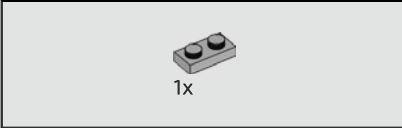
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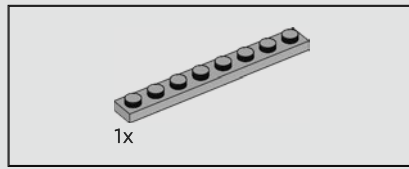
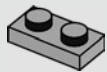




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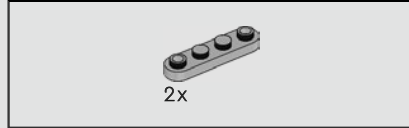


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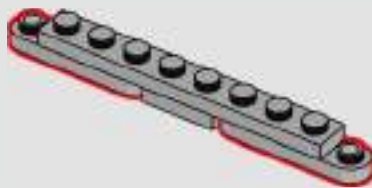
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224



2x

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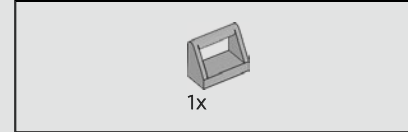
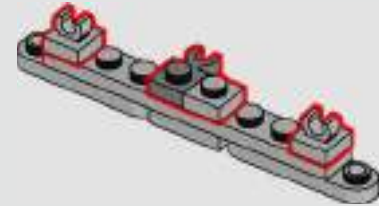


1x

1x

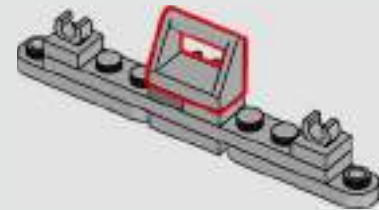
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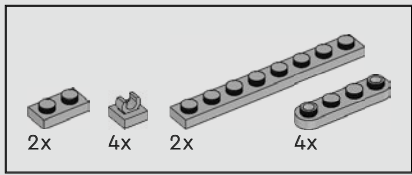
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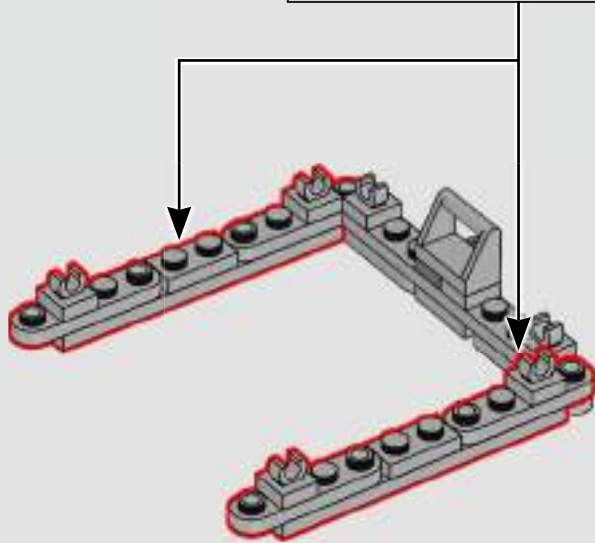
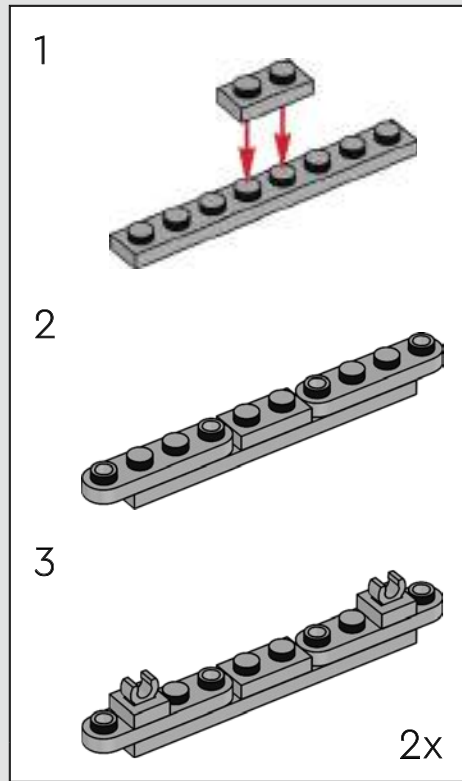
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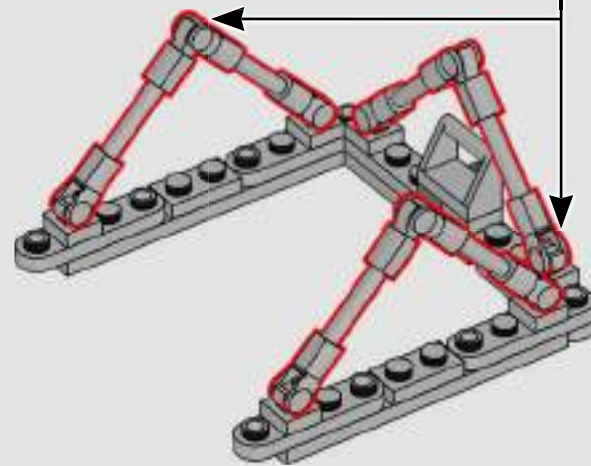
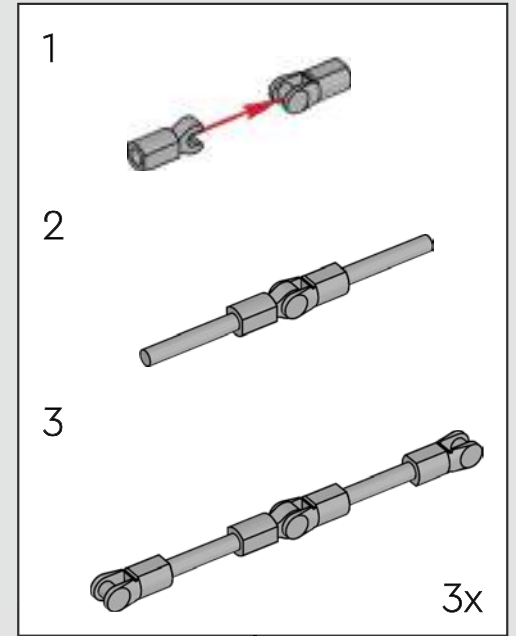


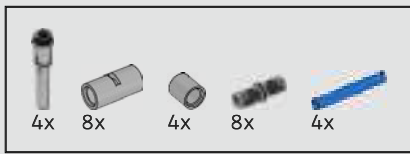


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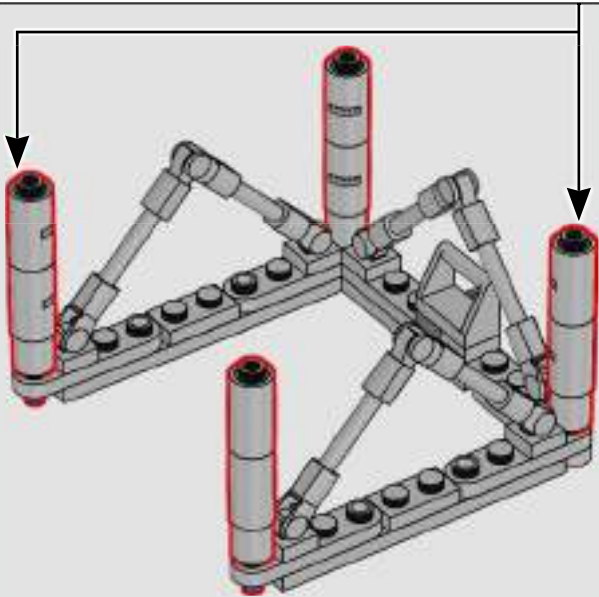
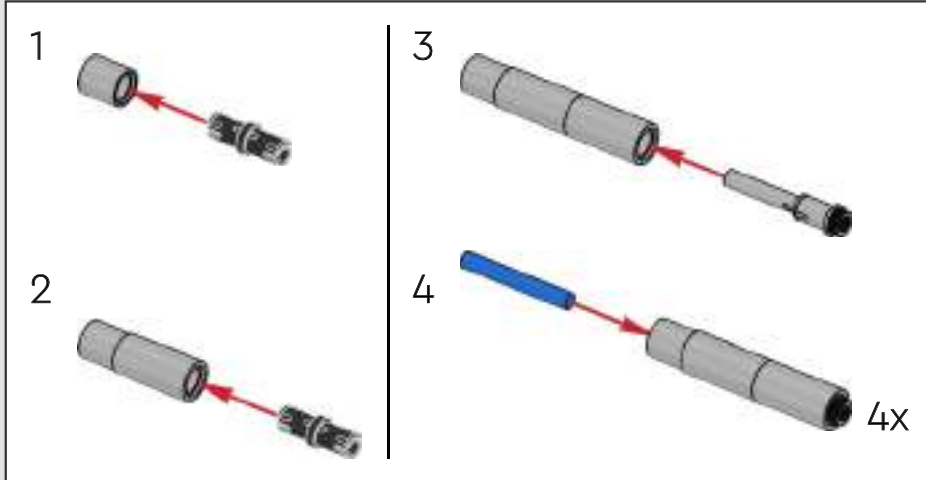


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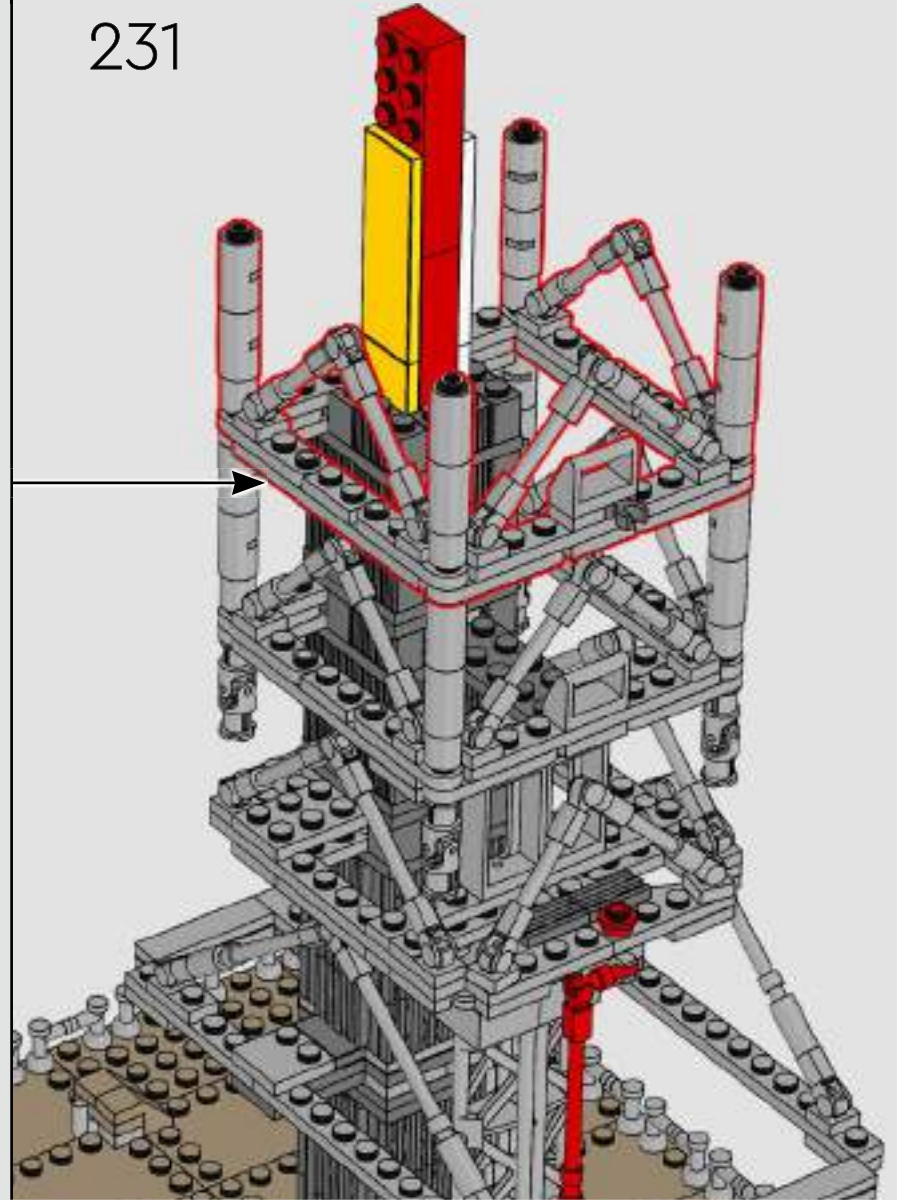


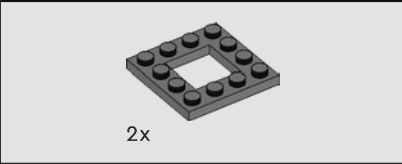
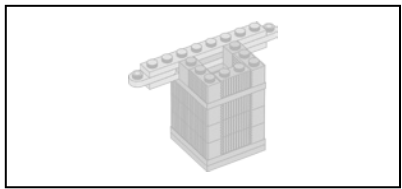


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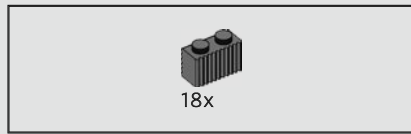
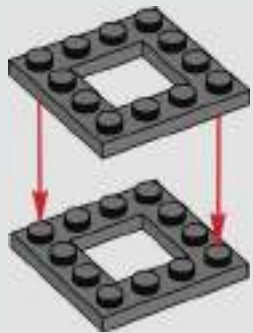


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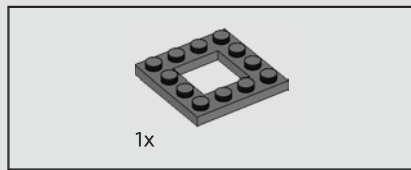
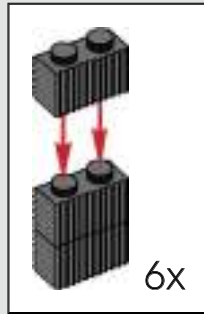




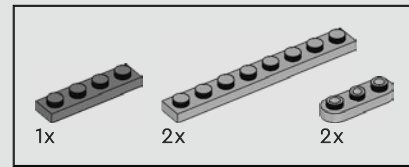
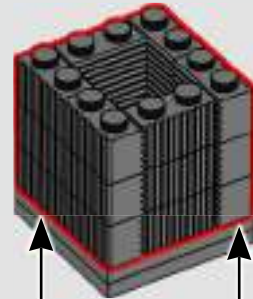
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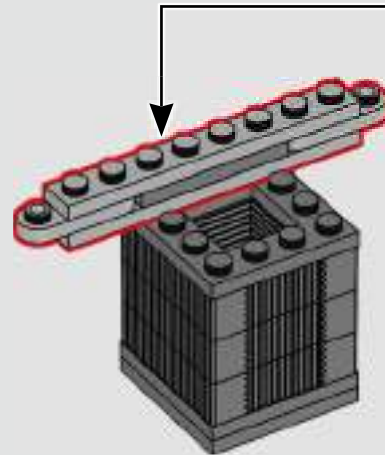
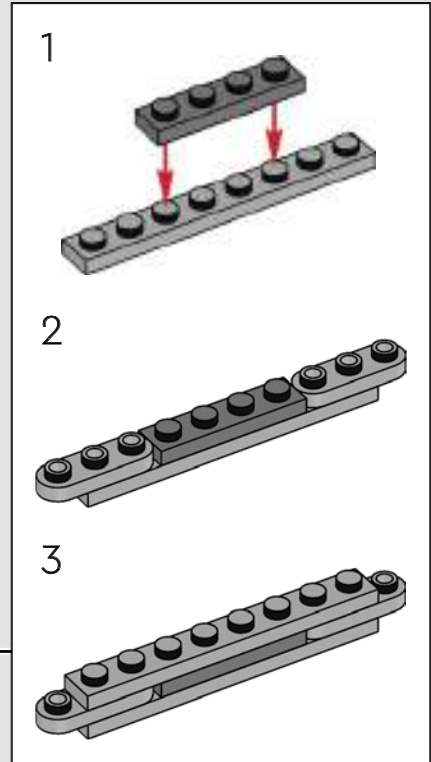
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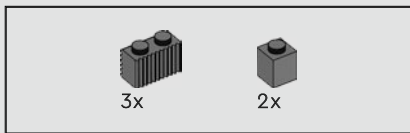


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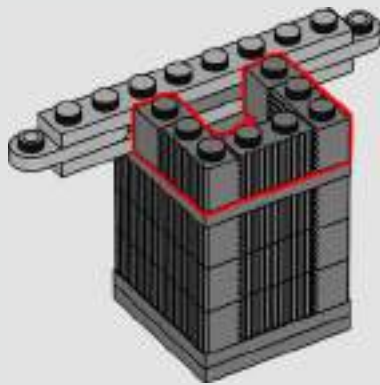


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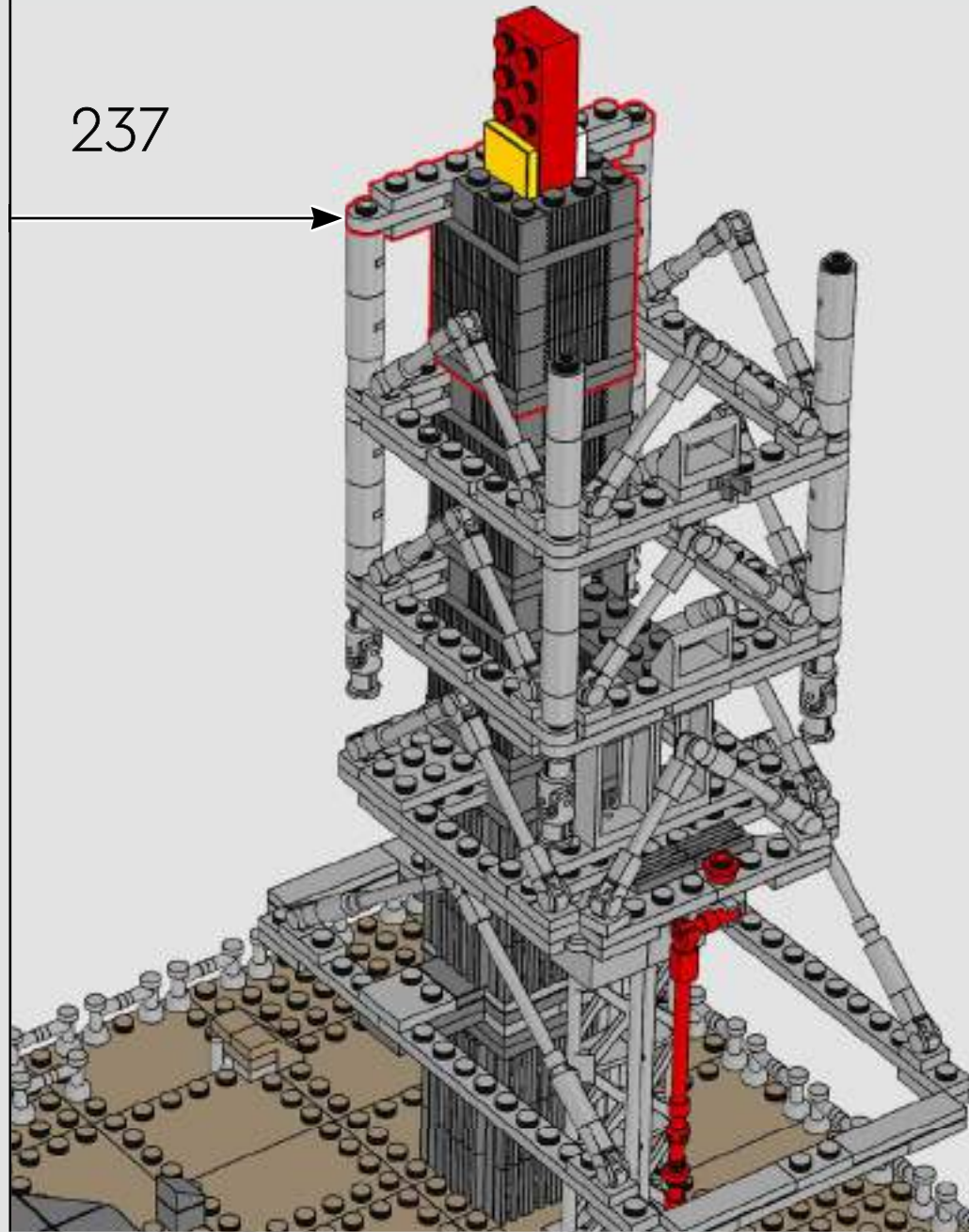


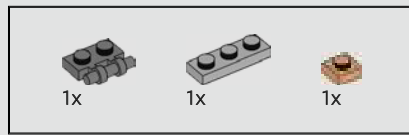


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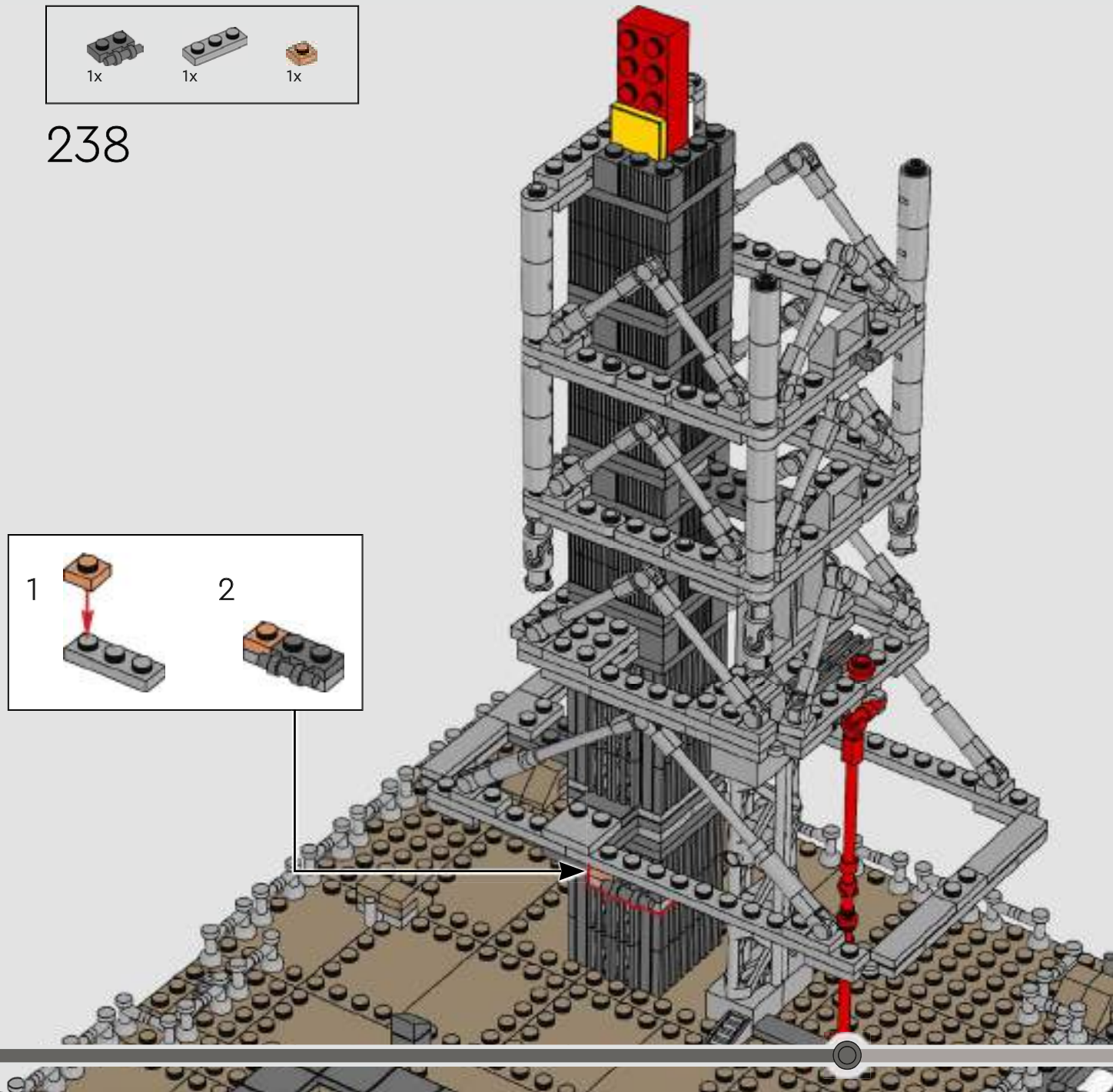
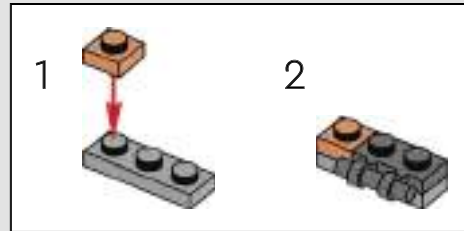


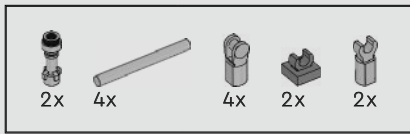
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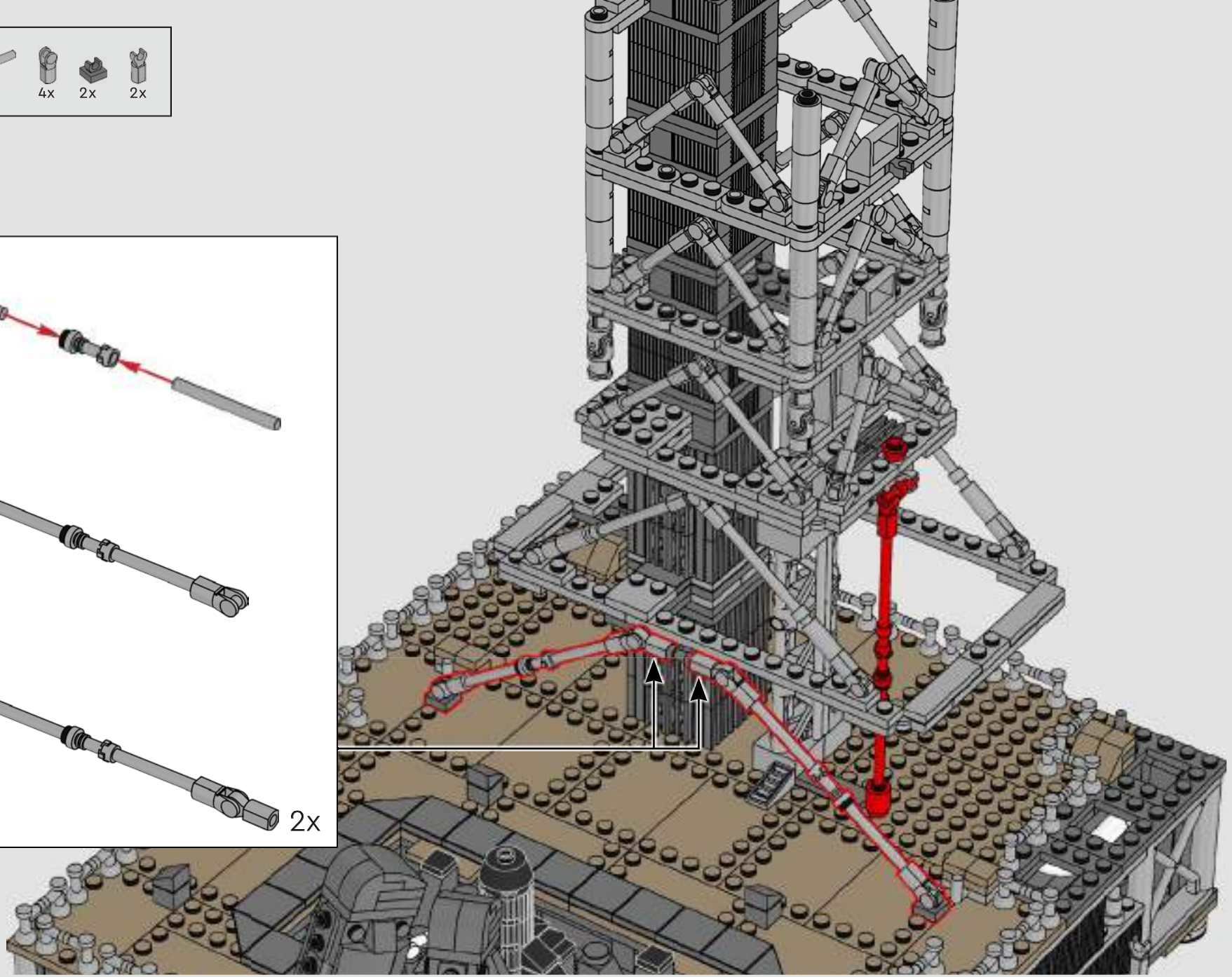
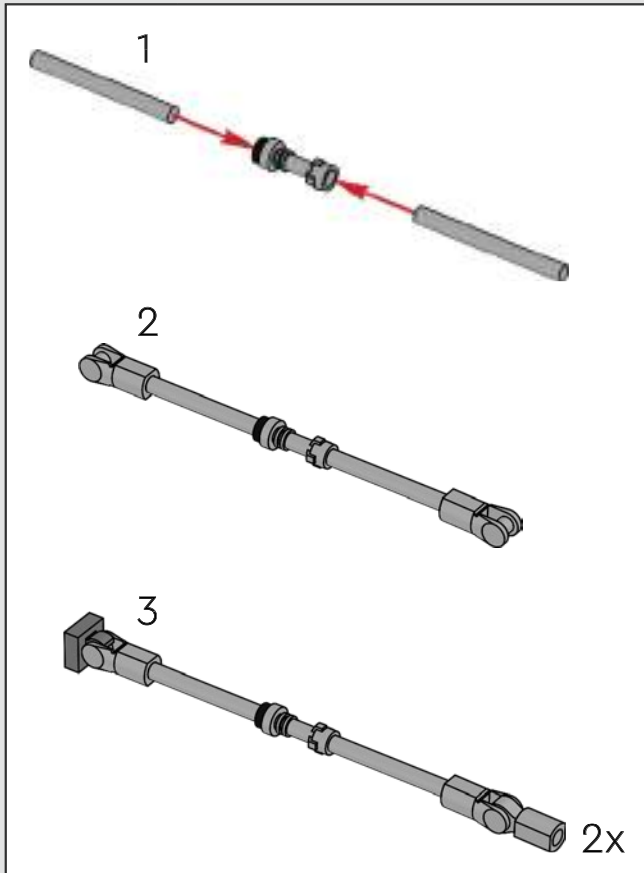


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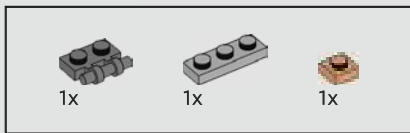


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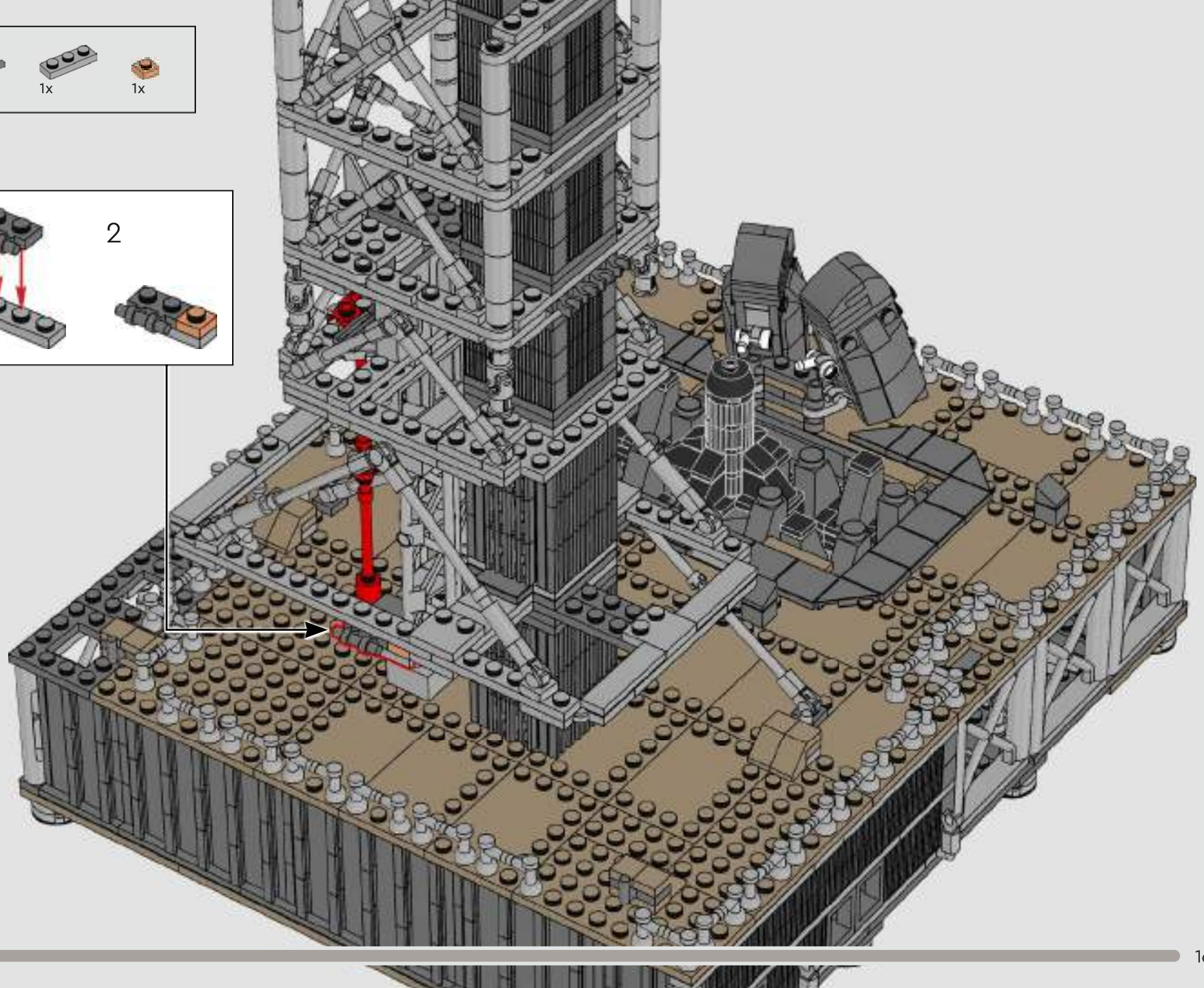
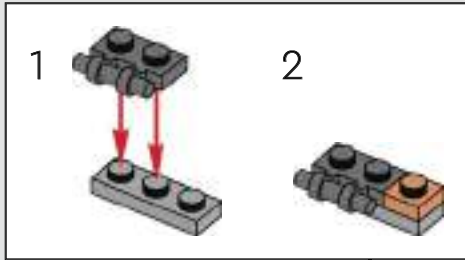


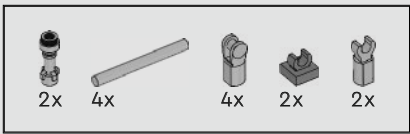
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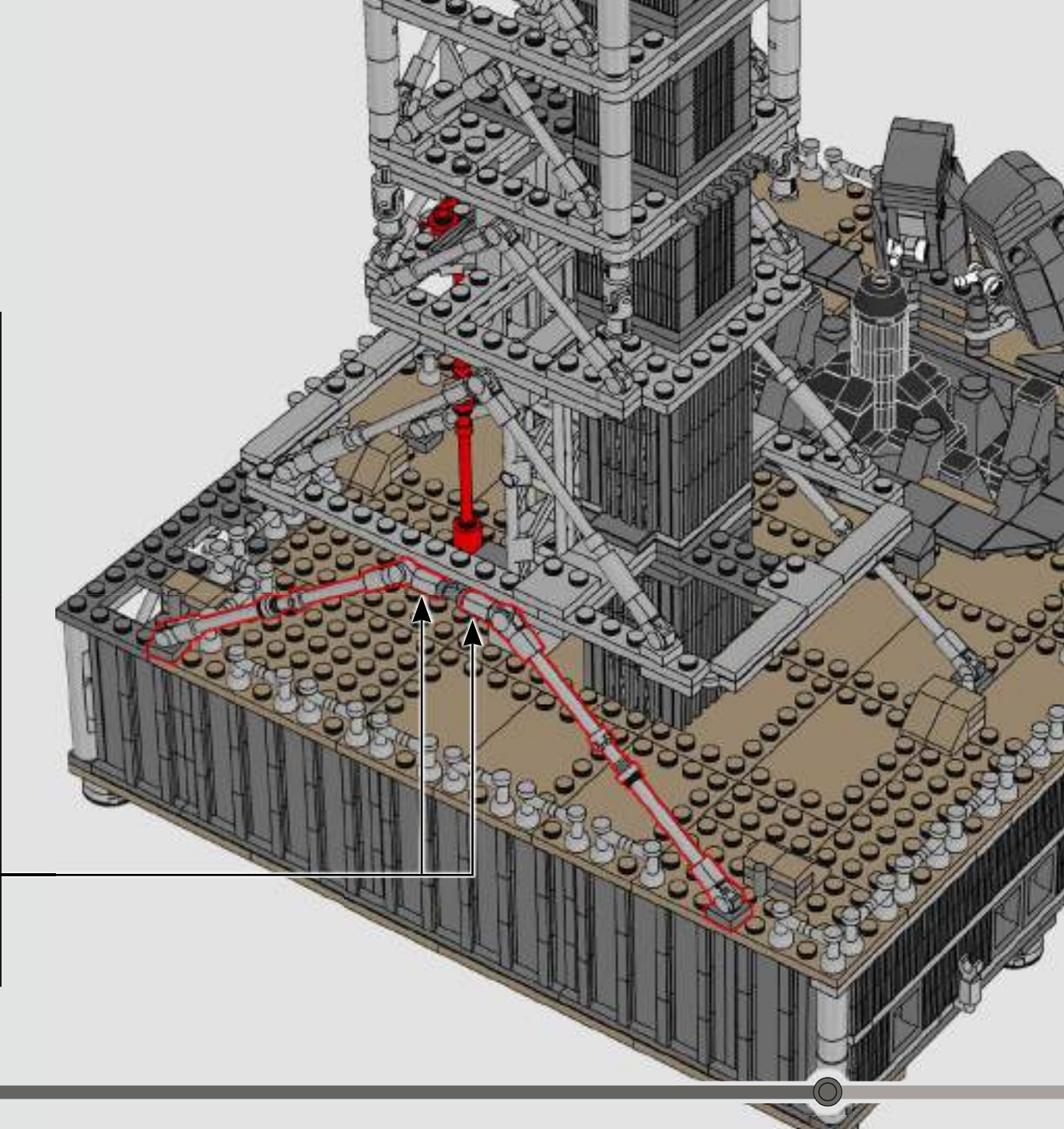
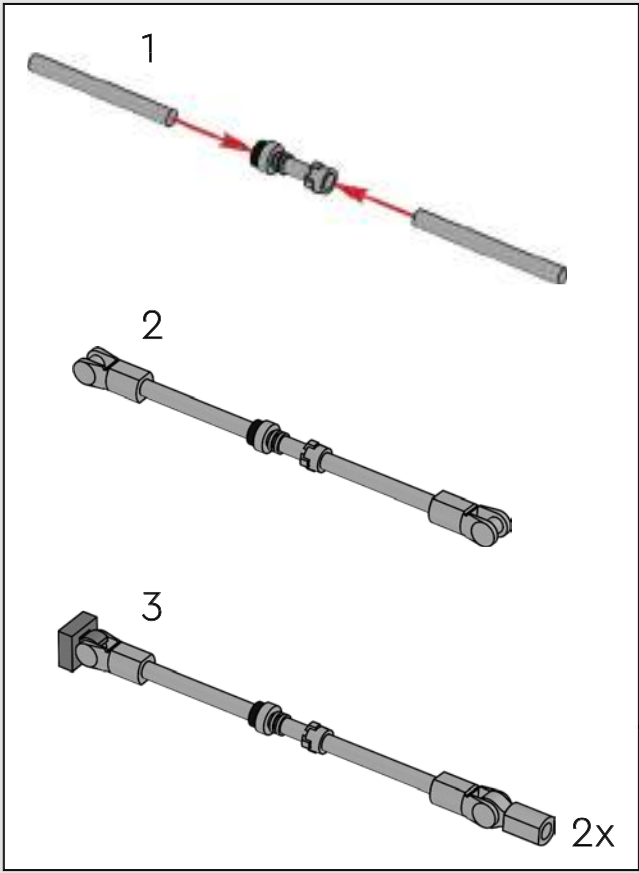


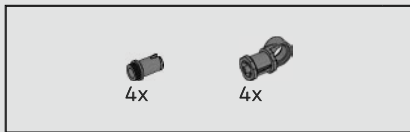
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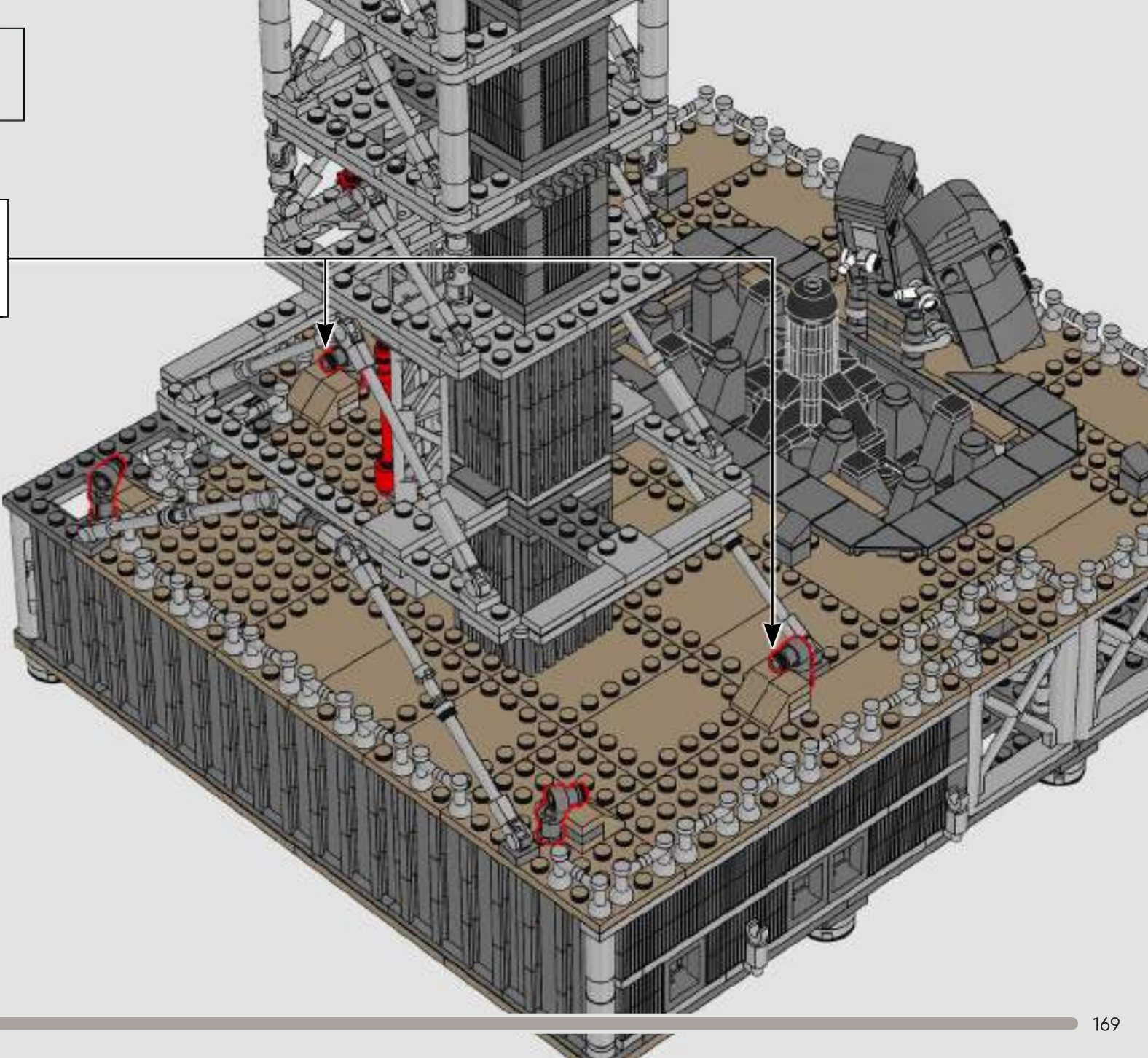
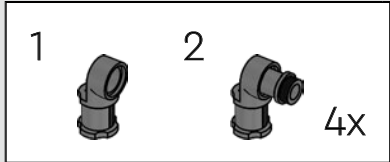


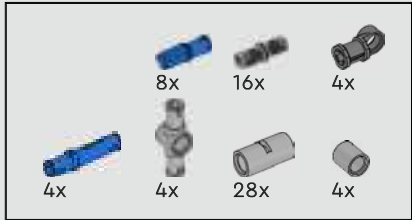
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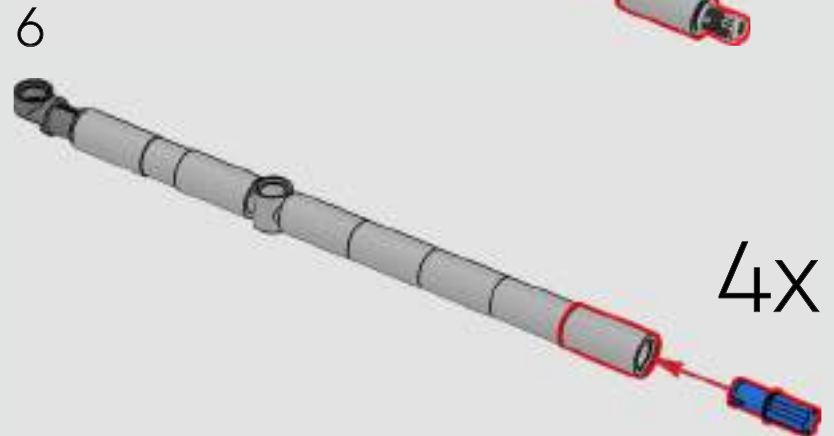
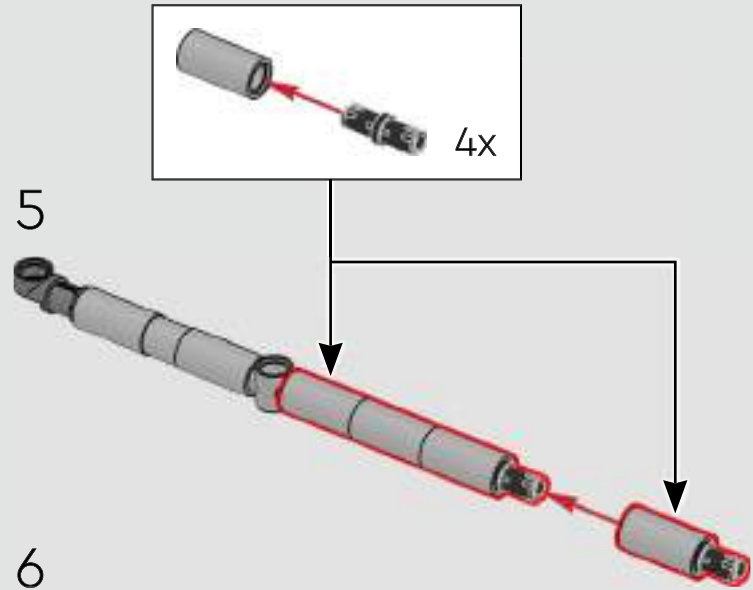
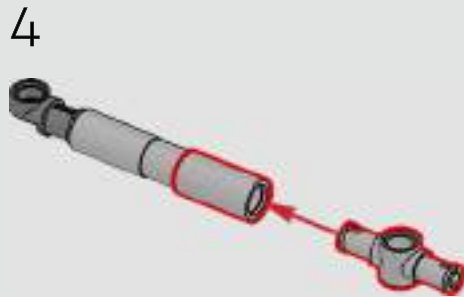
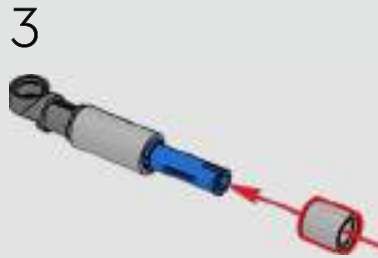
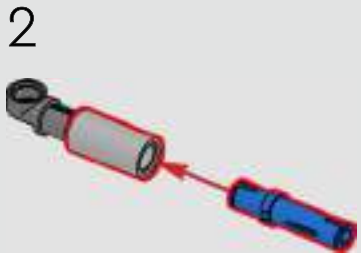


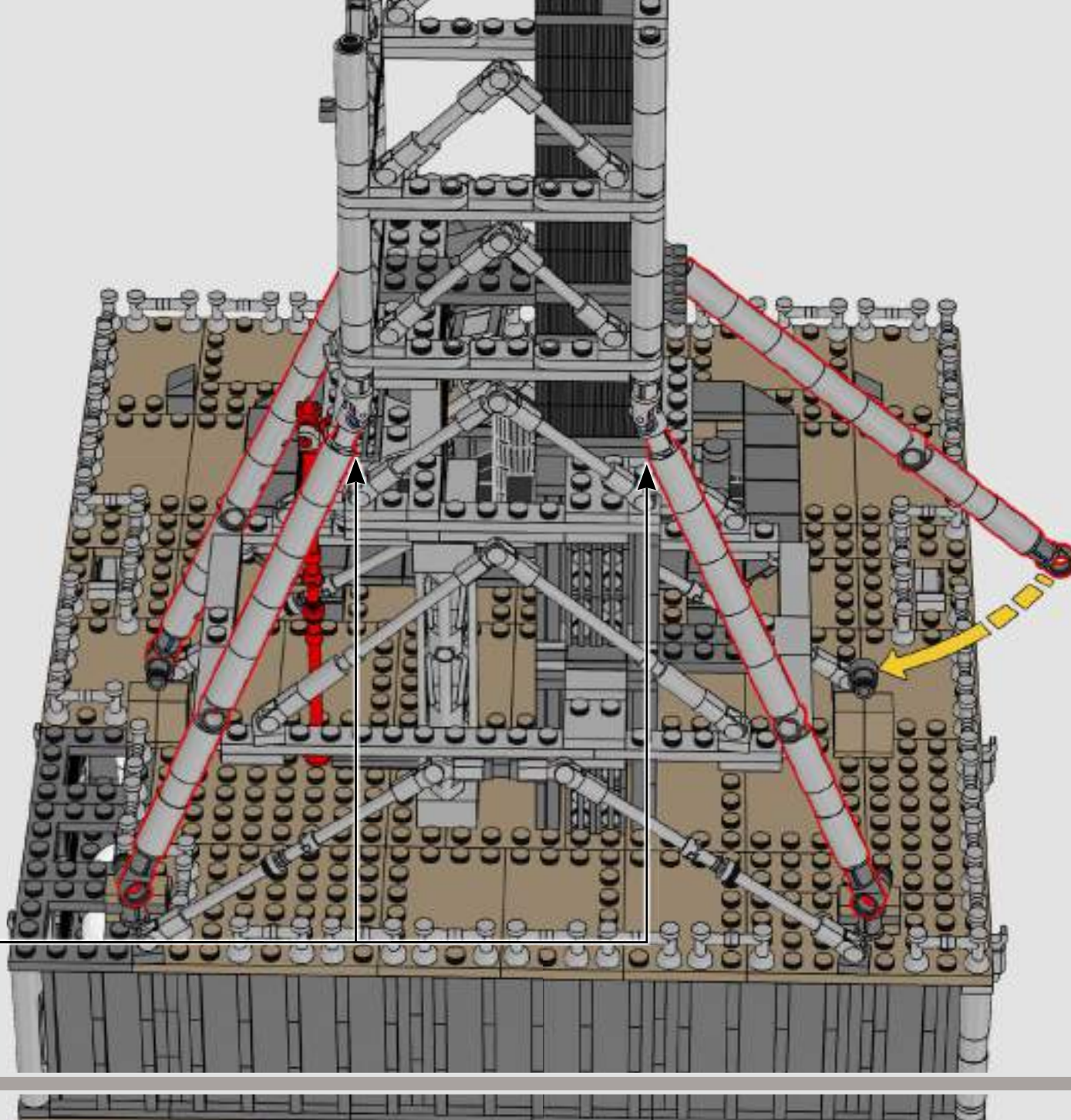
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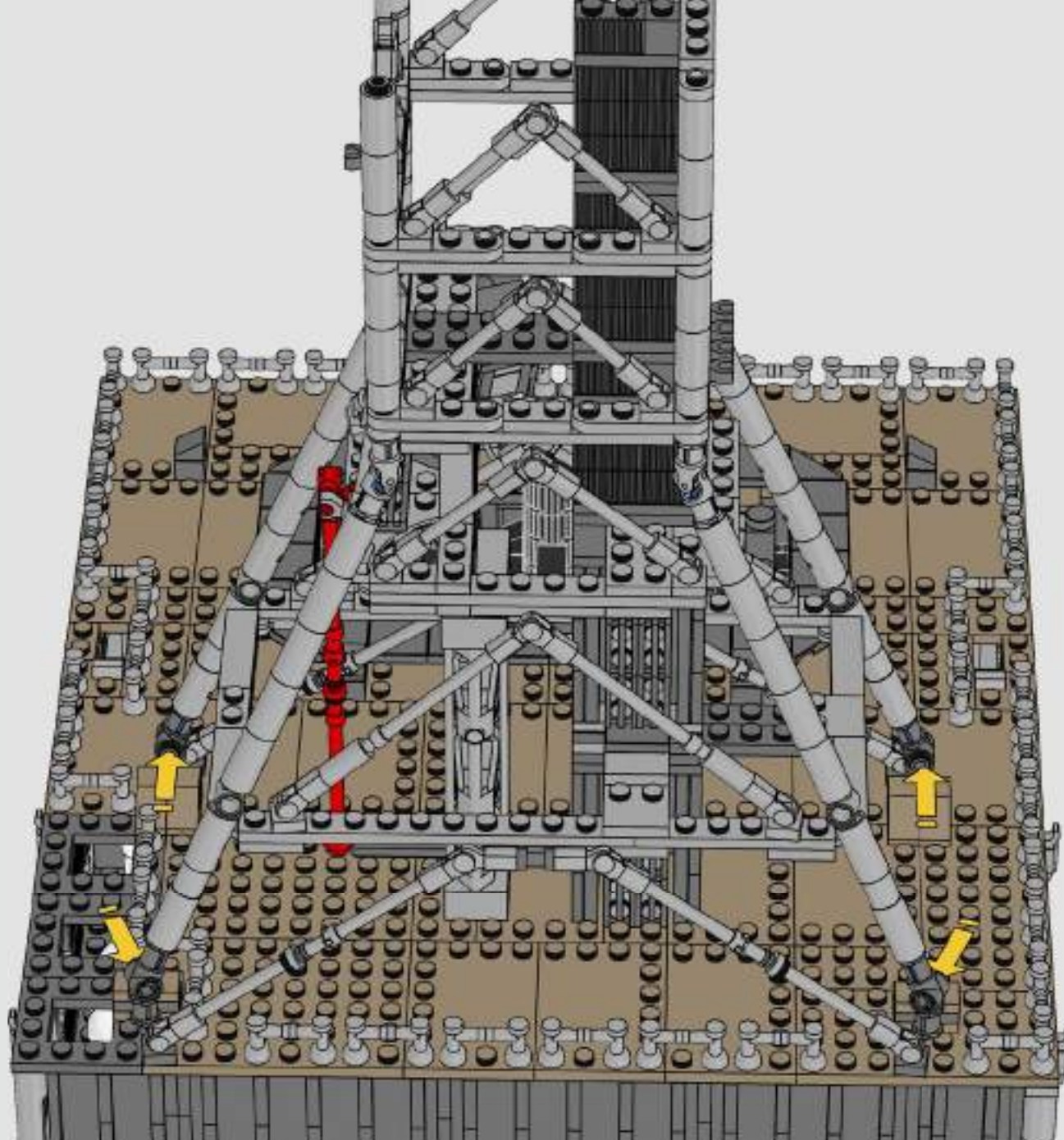


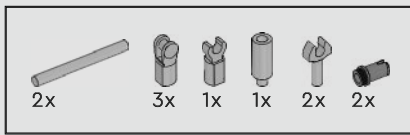
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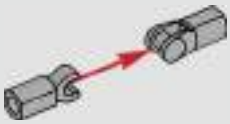
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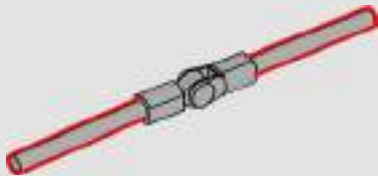


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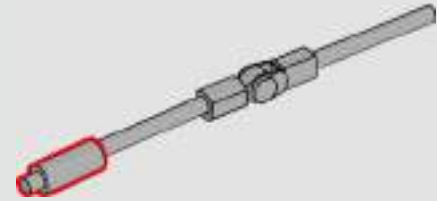
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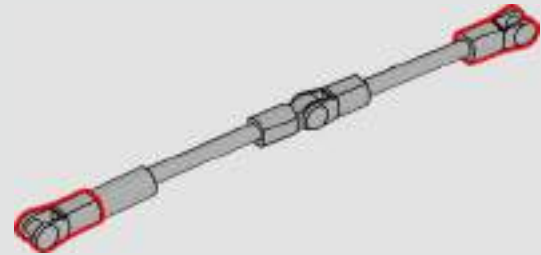
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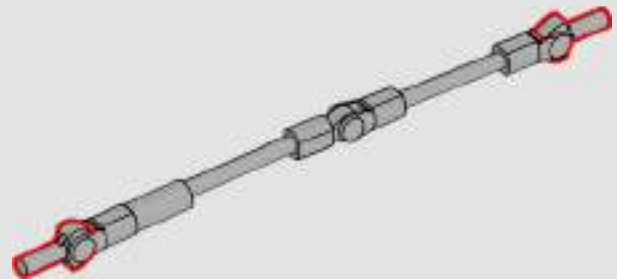
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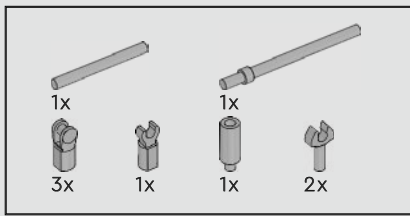
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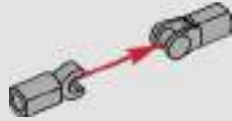
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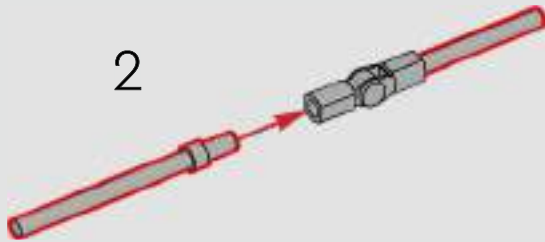


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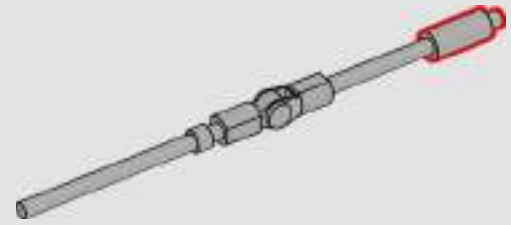
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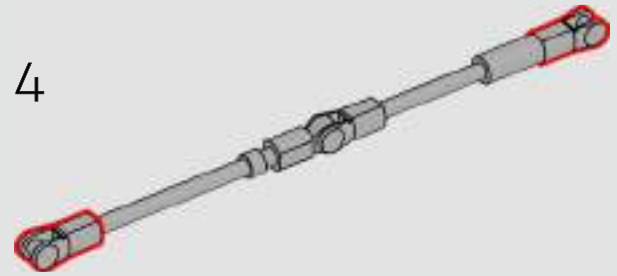
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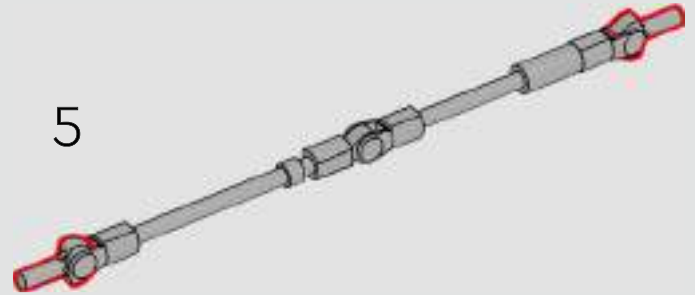
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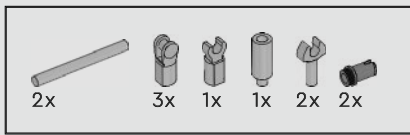
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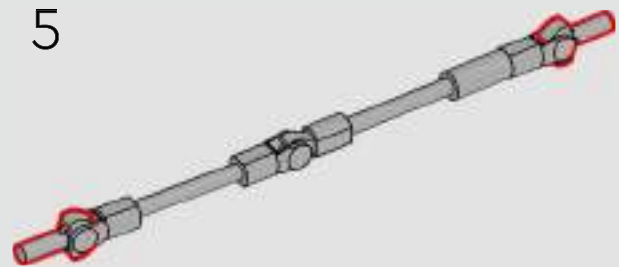
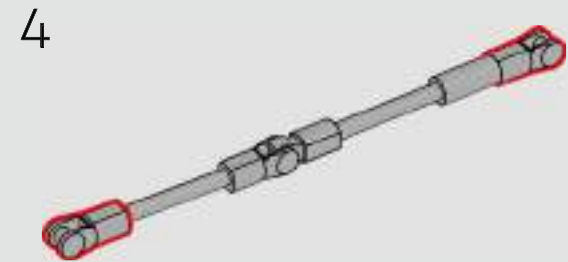
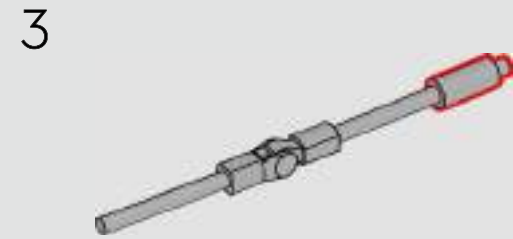
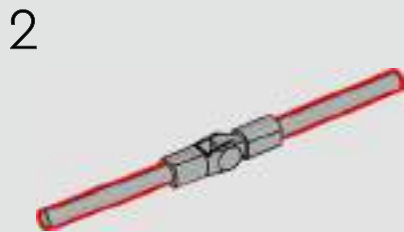
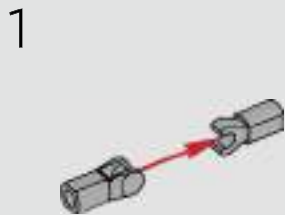
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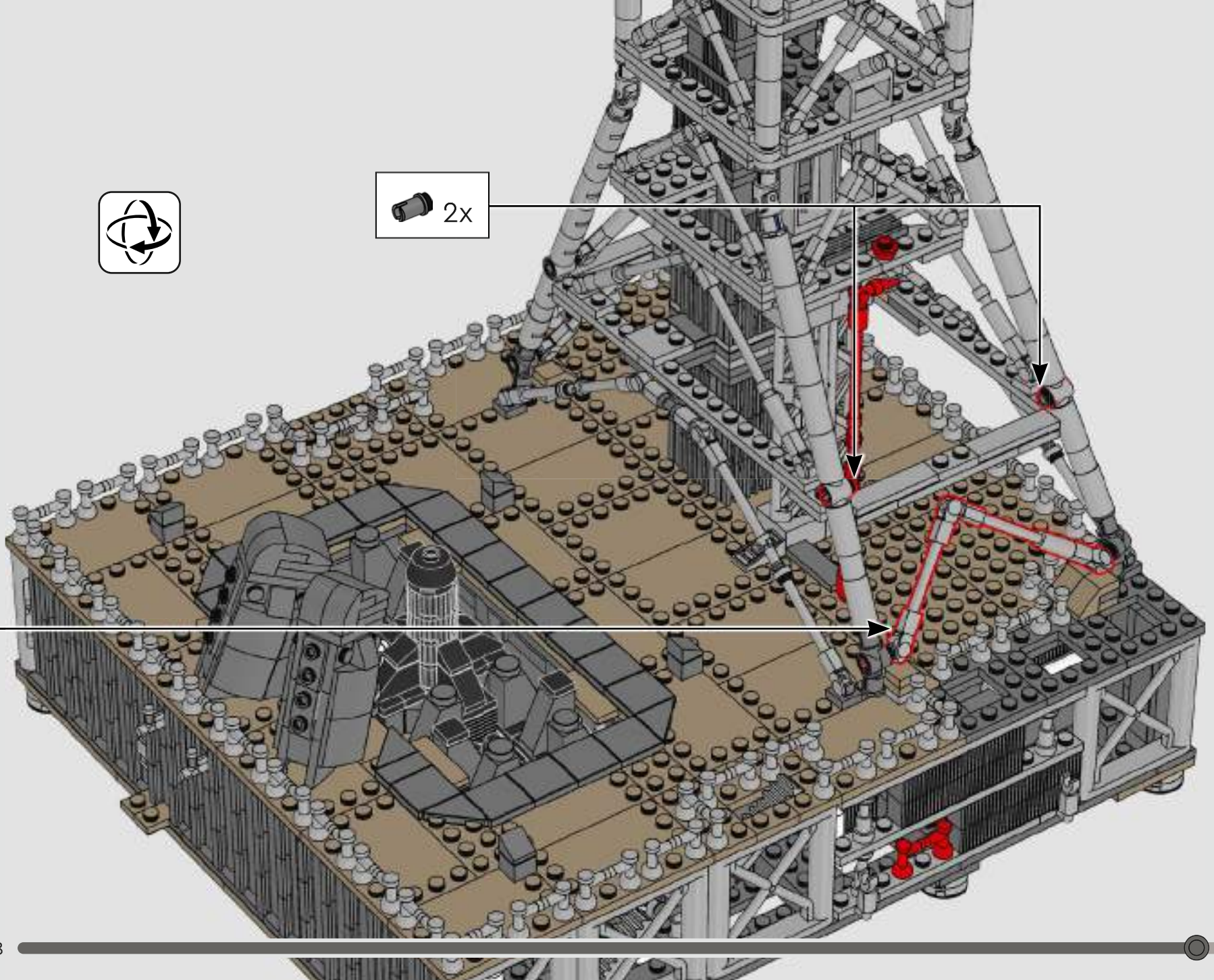


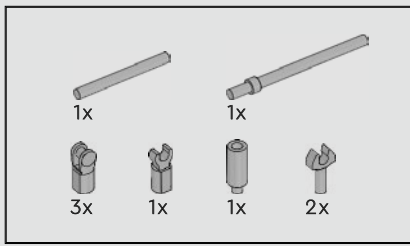




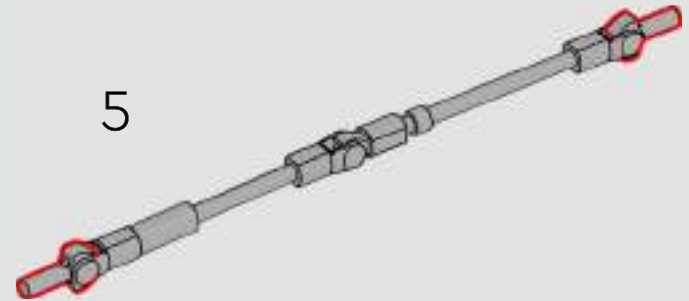
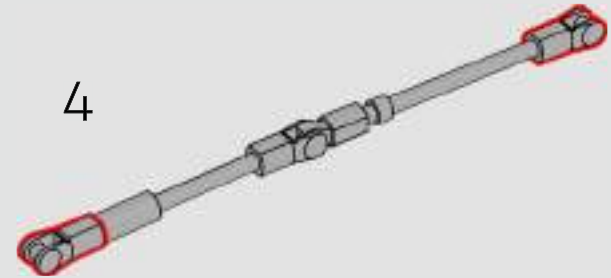
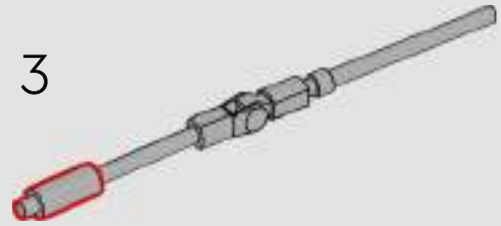
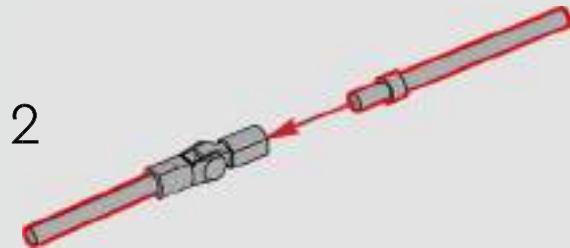
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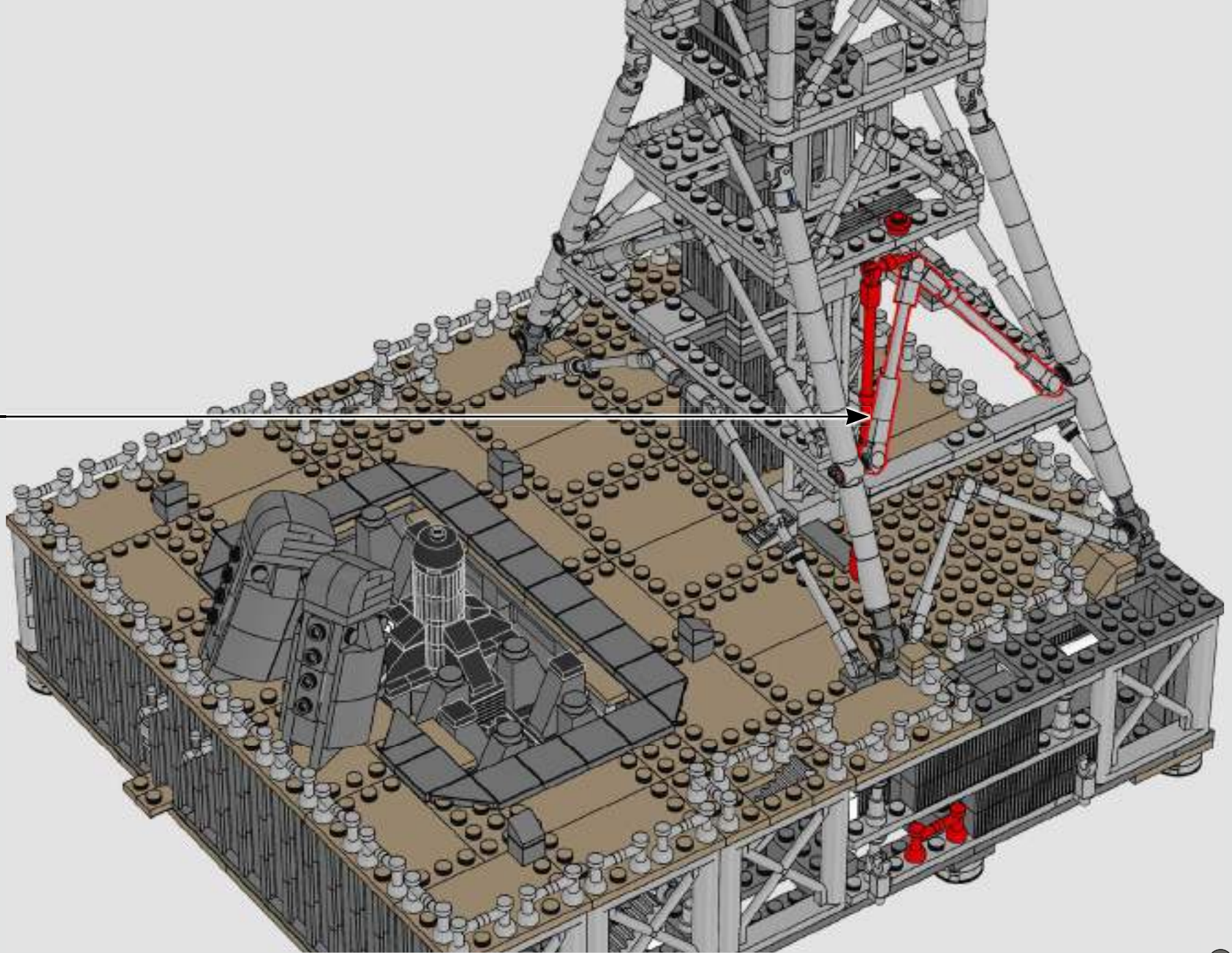


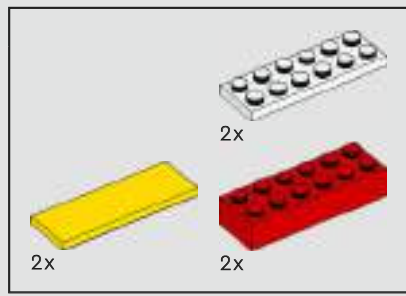




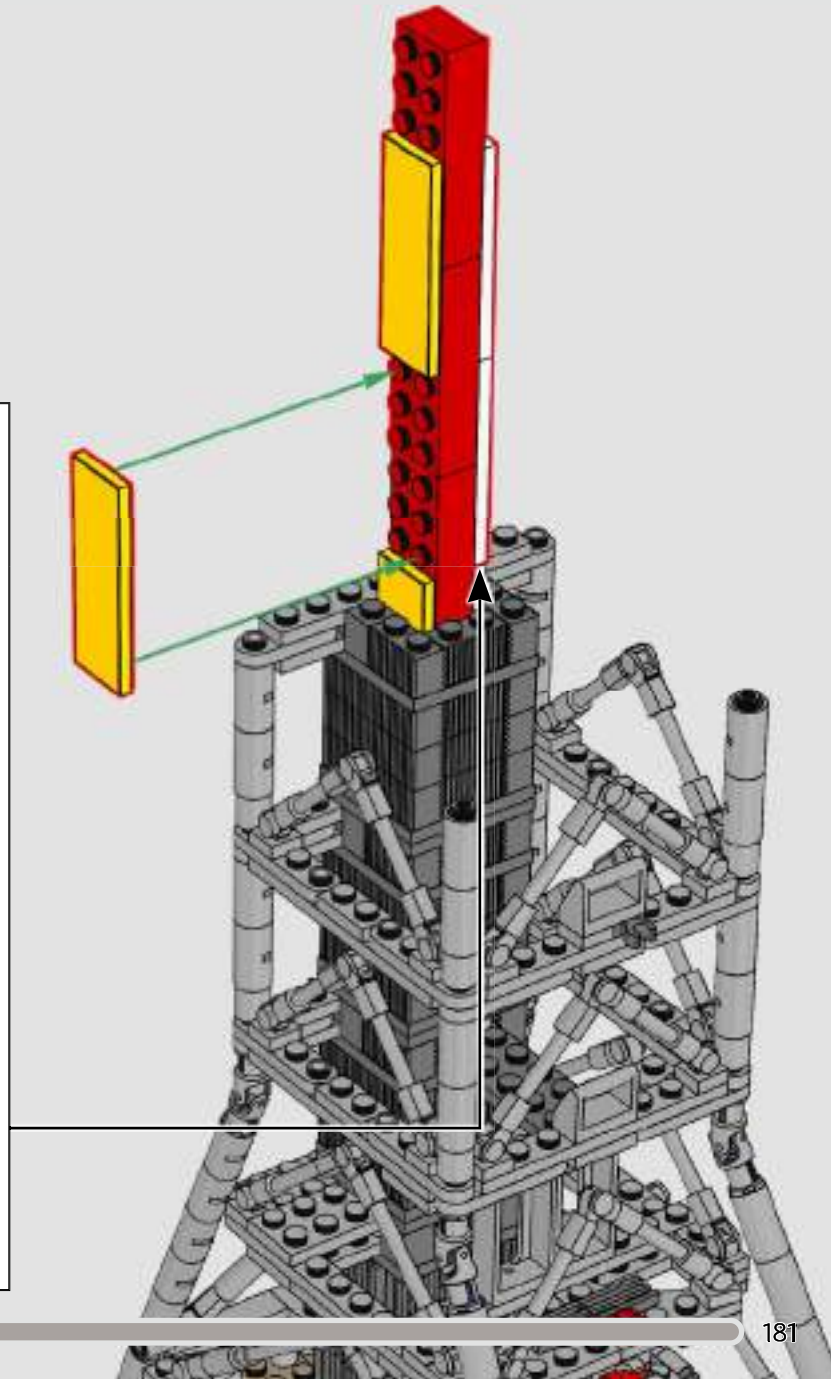
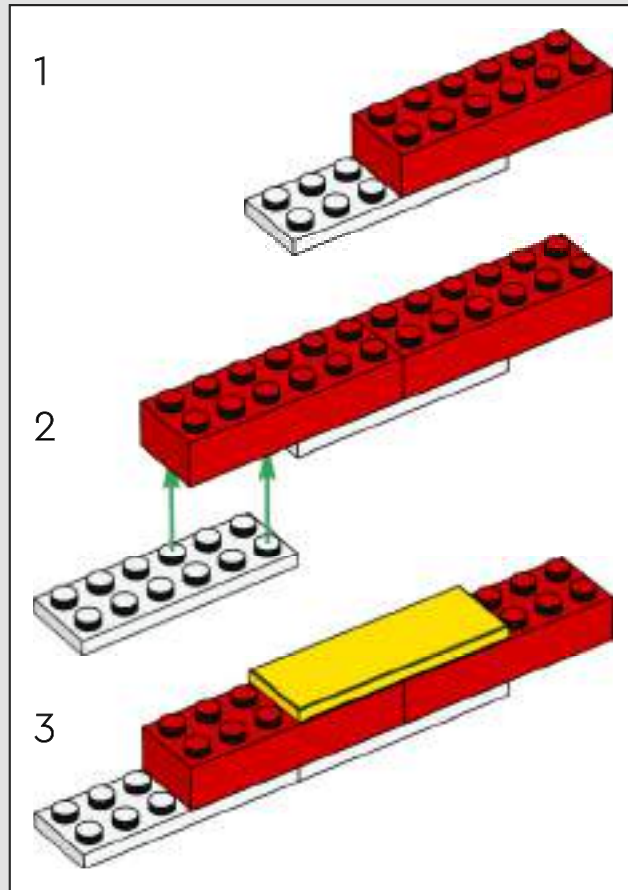
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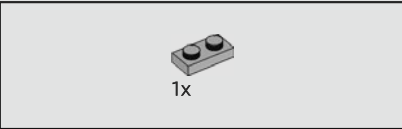
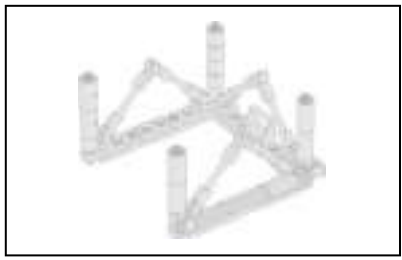




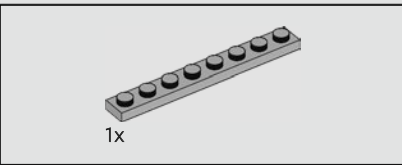
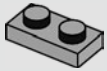


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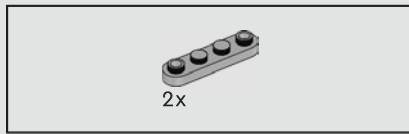
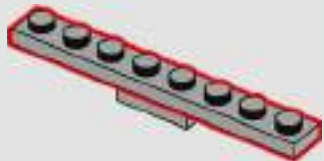




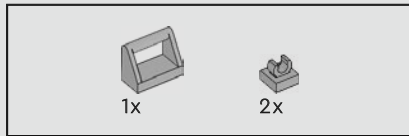
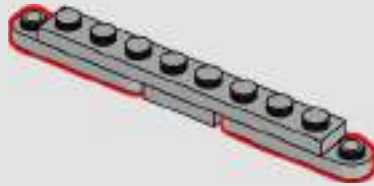
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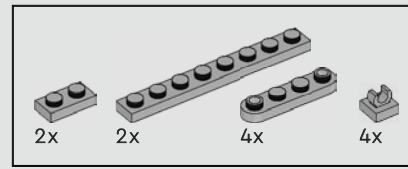
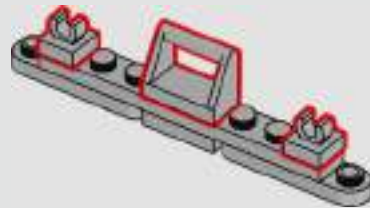
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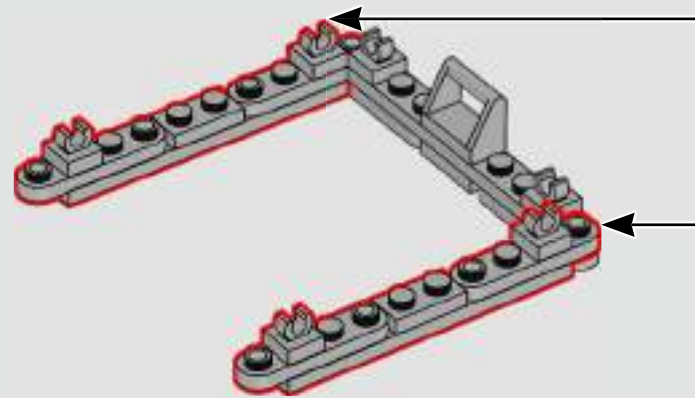
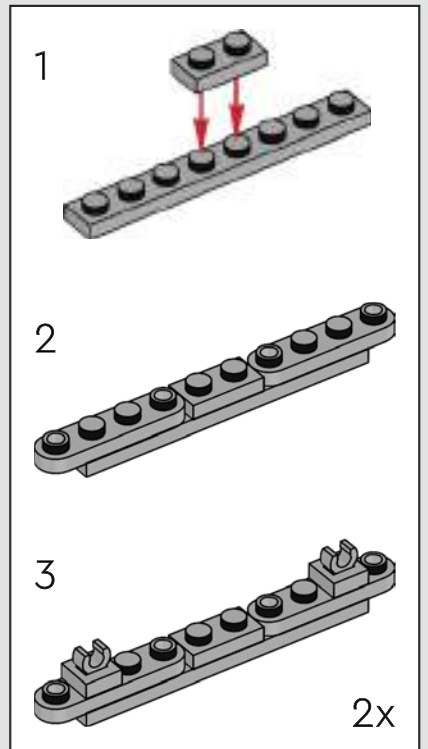
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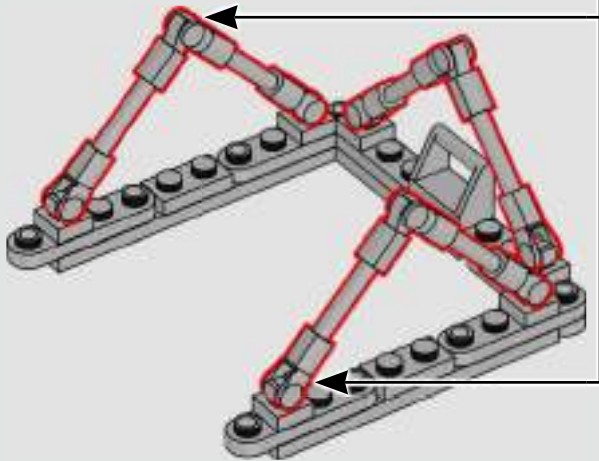
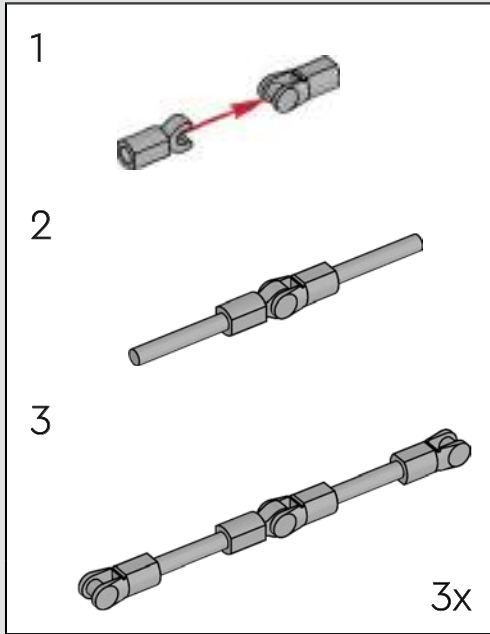


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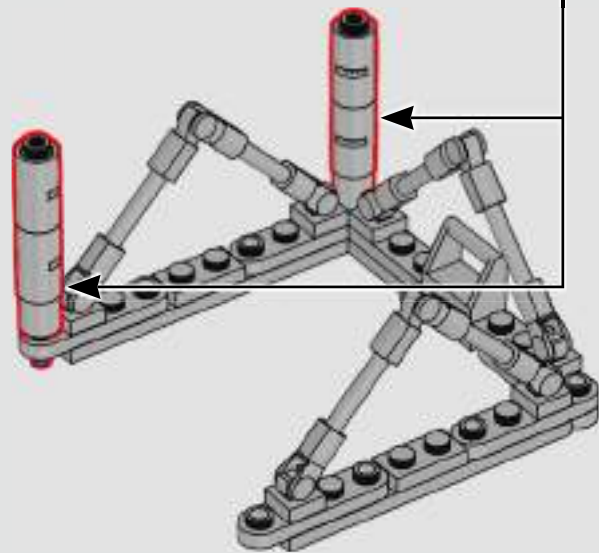
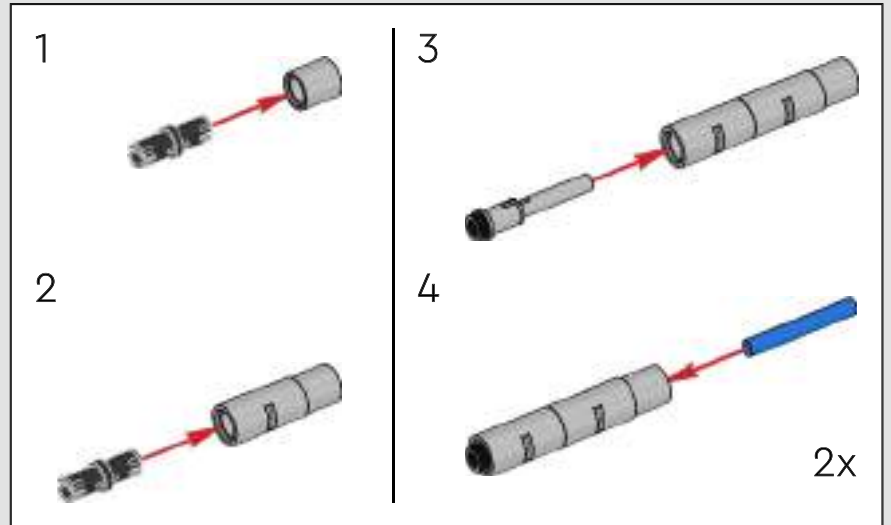


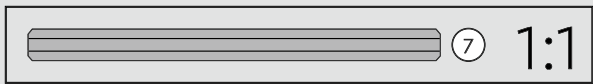
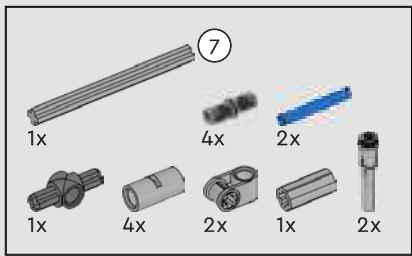


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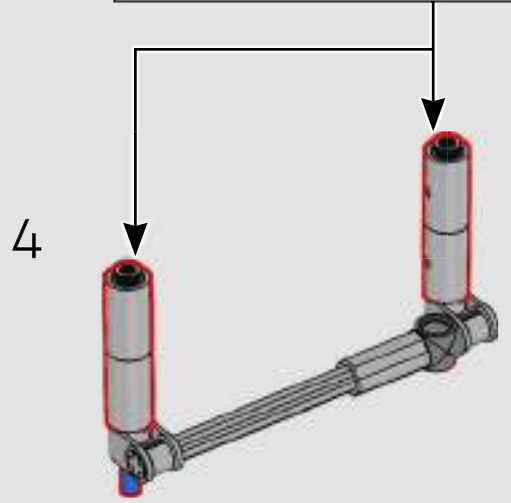
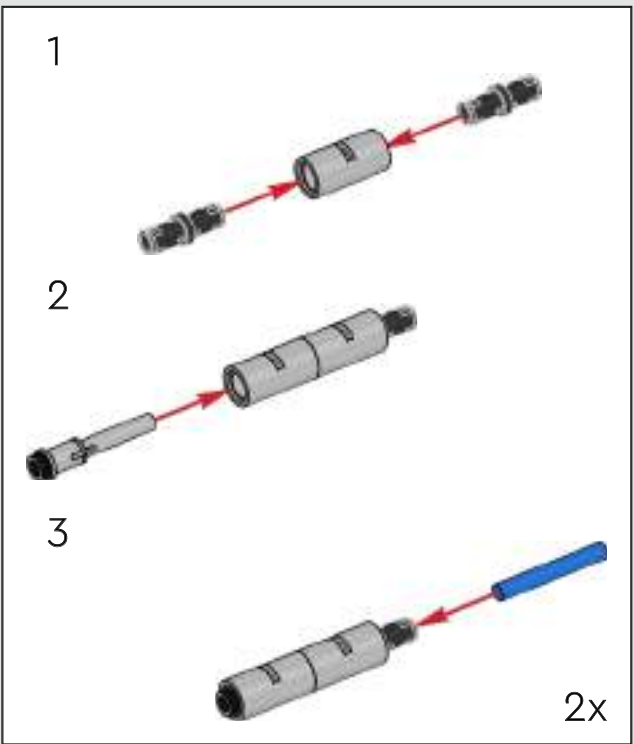
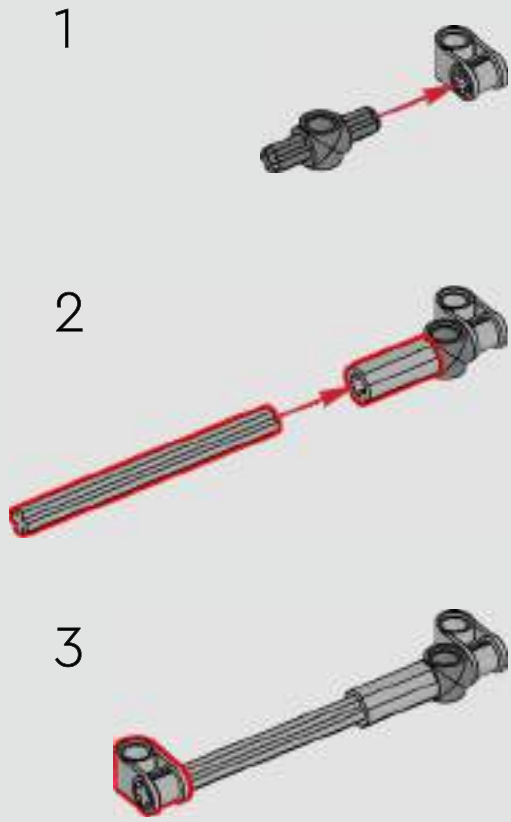


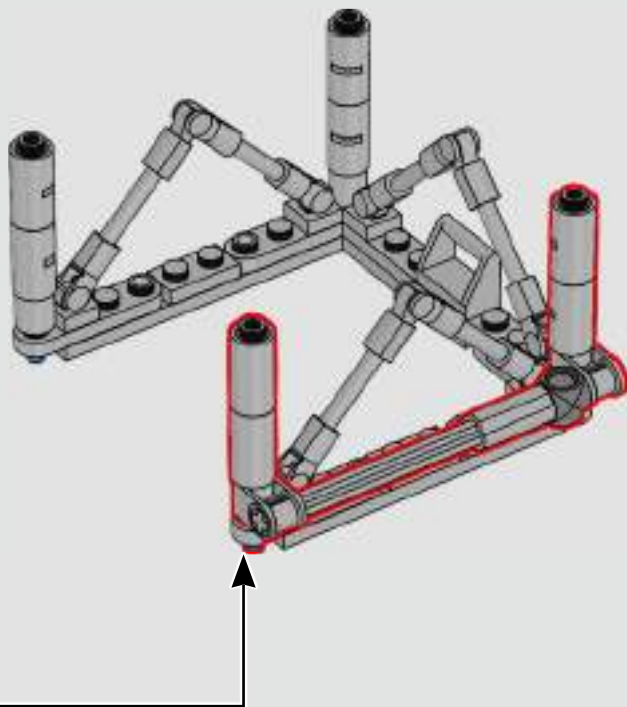
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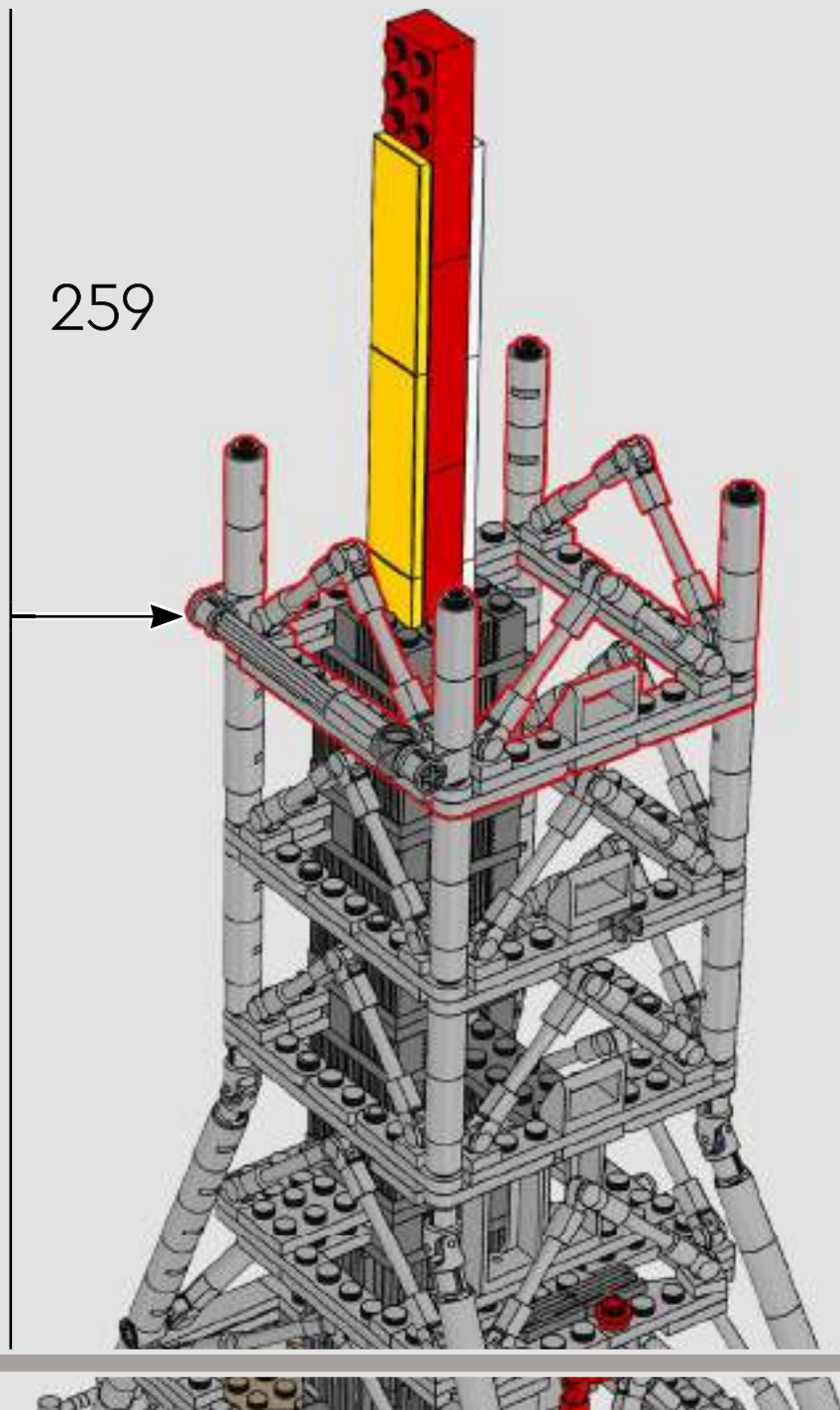


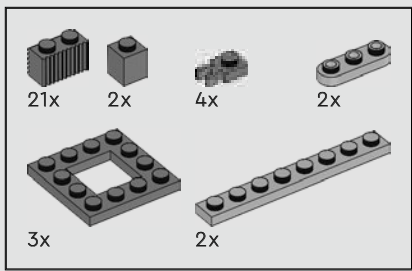
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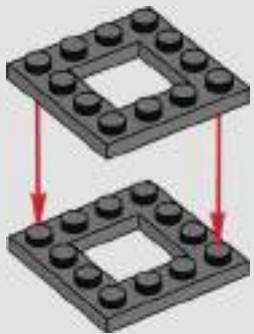
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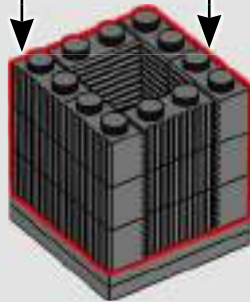


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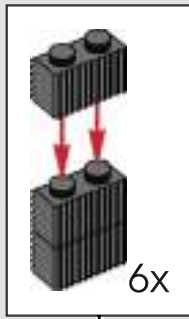
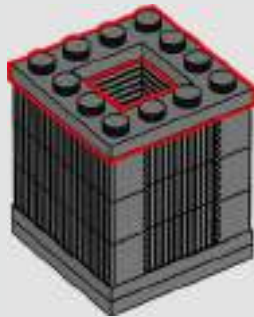
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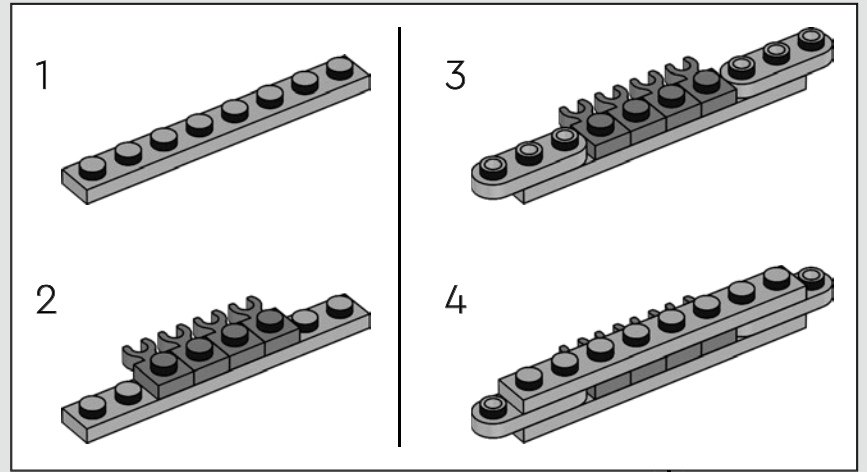
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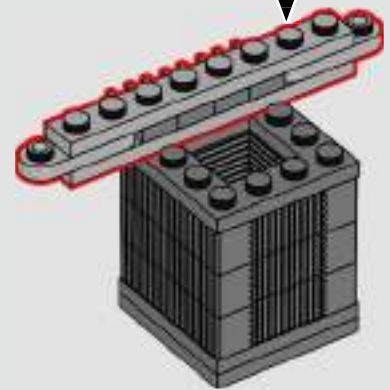
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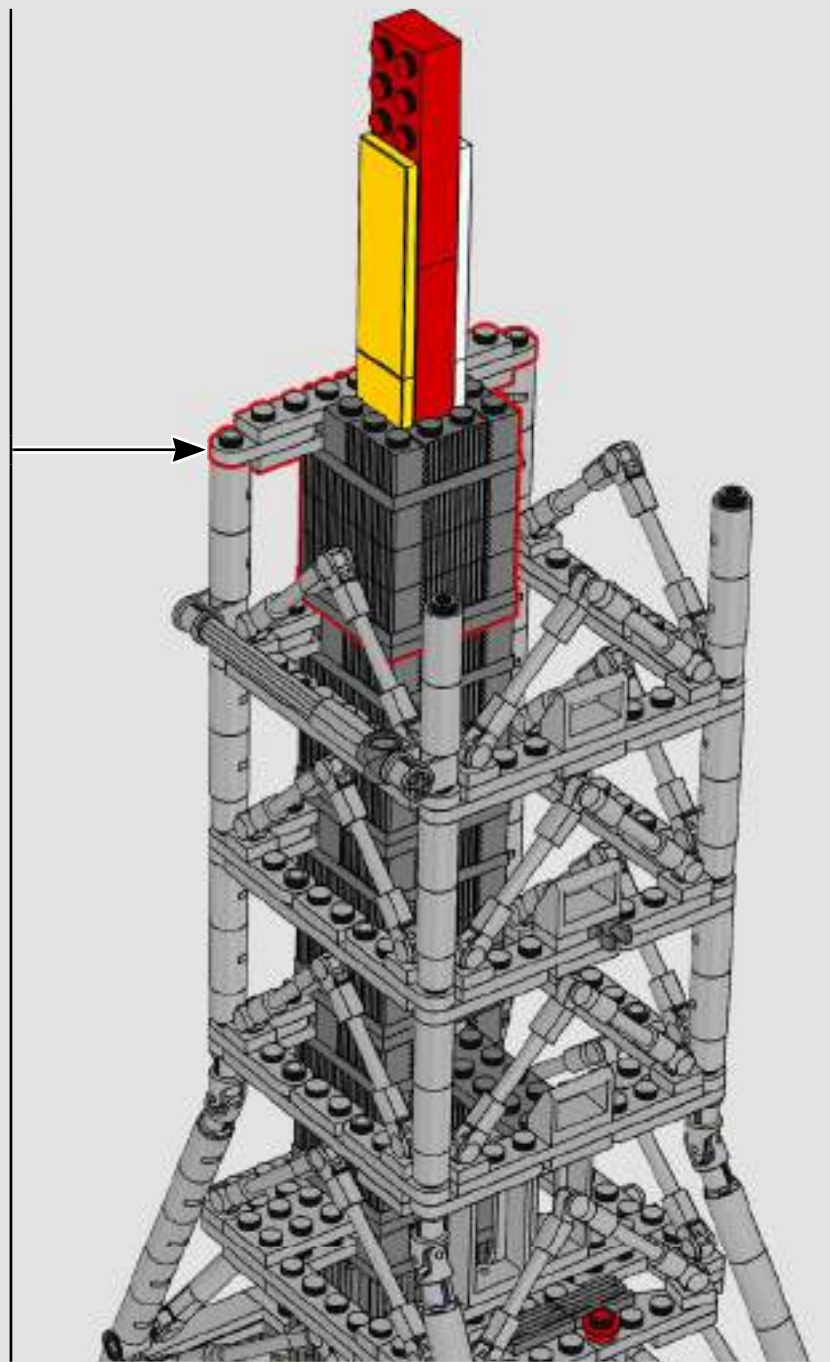
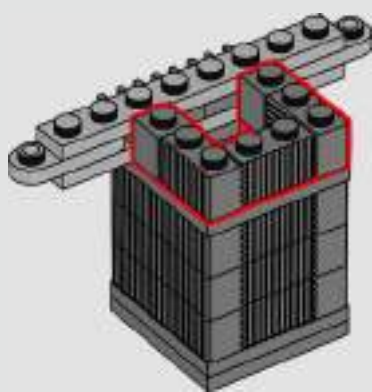
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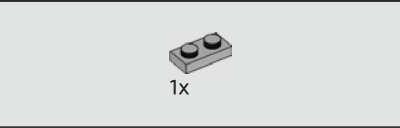
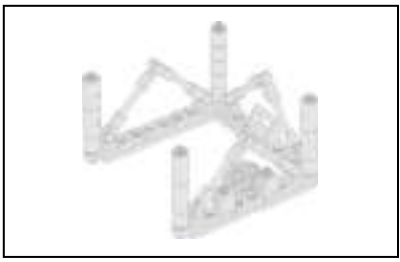
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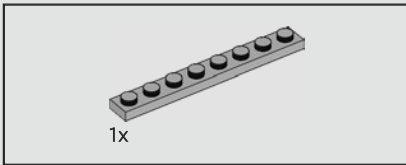
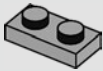


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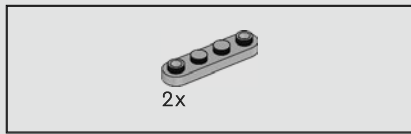




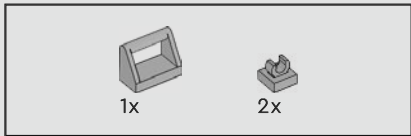
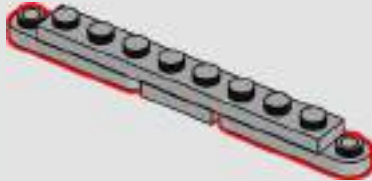
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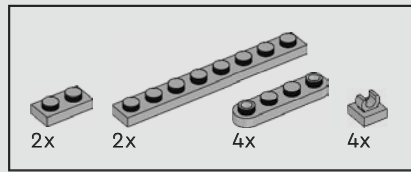
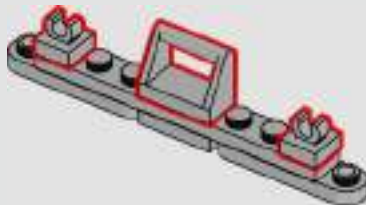
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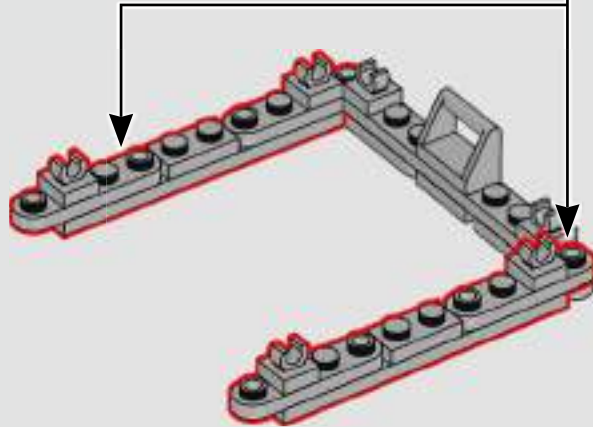
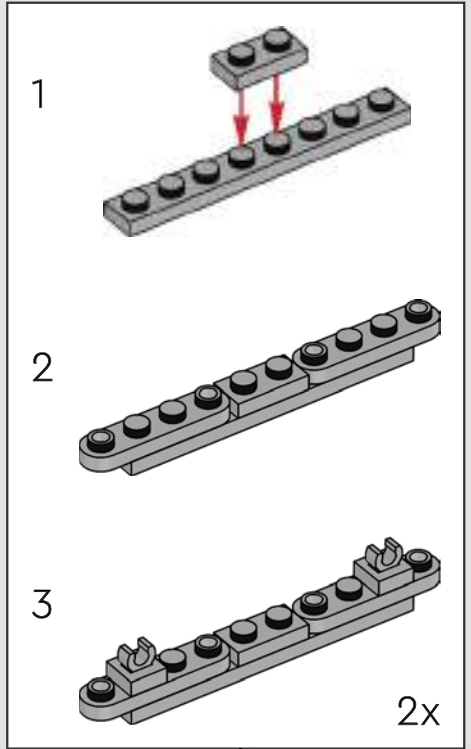
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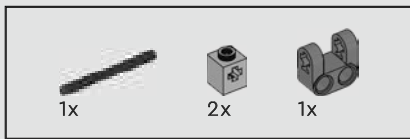


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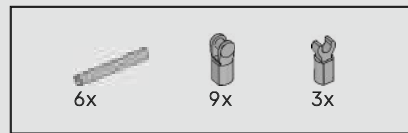
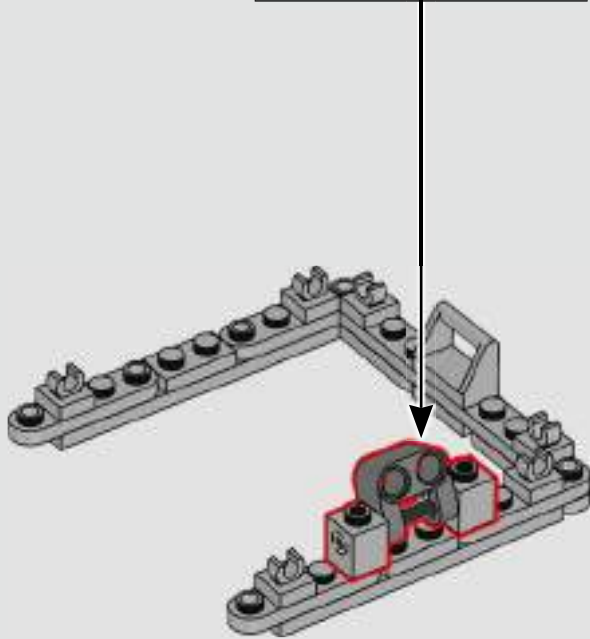
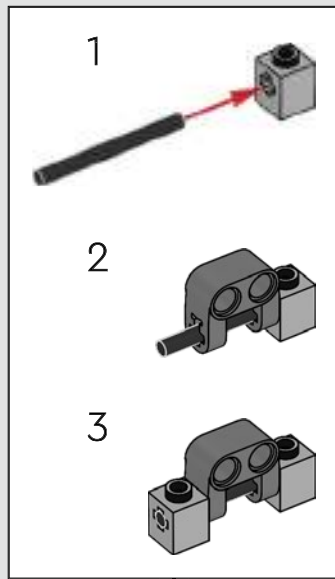


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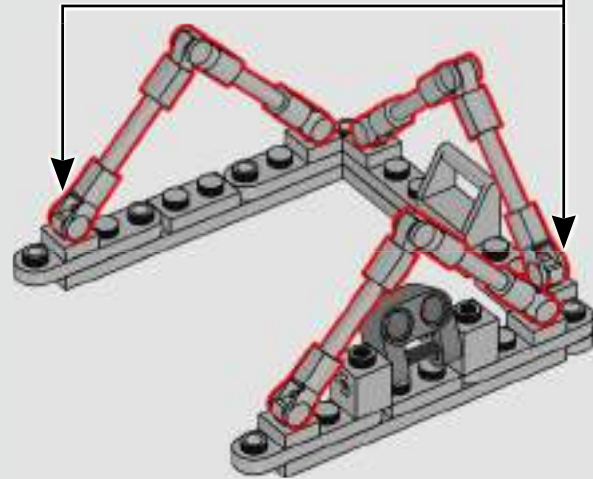
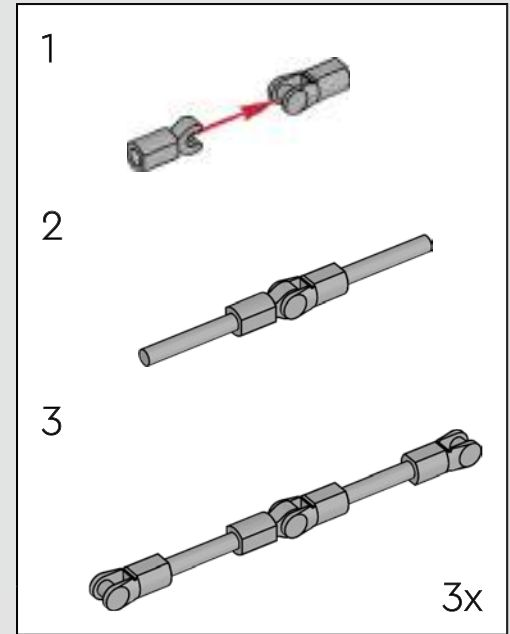




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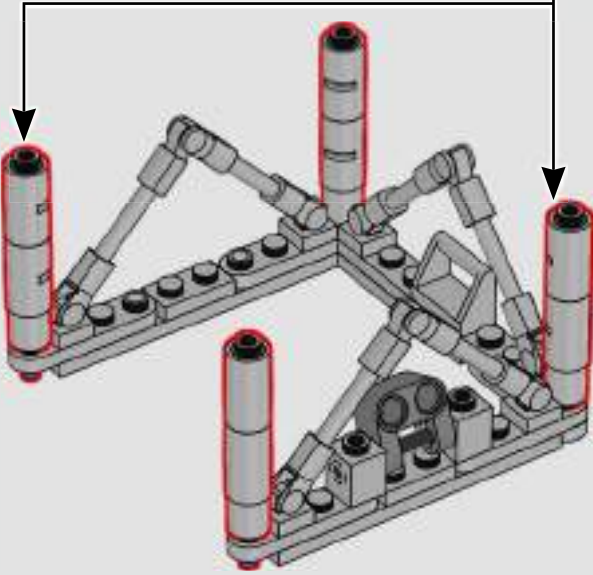
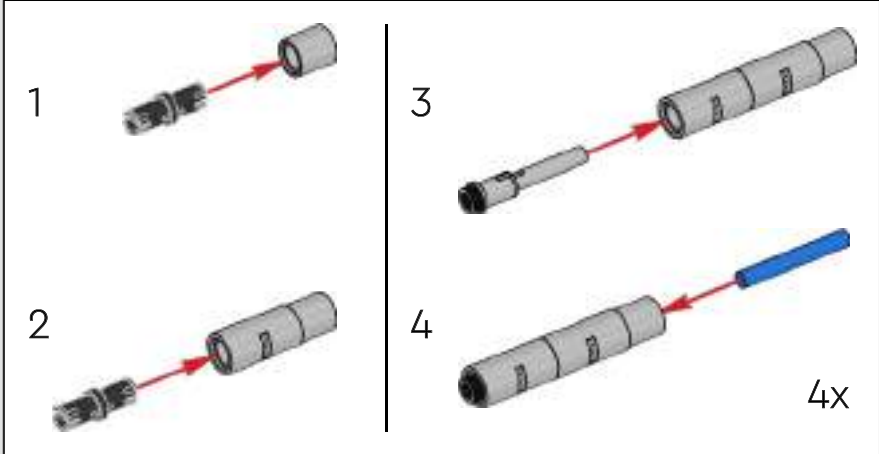


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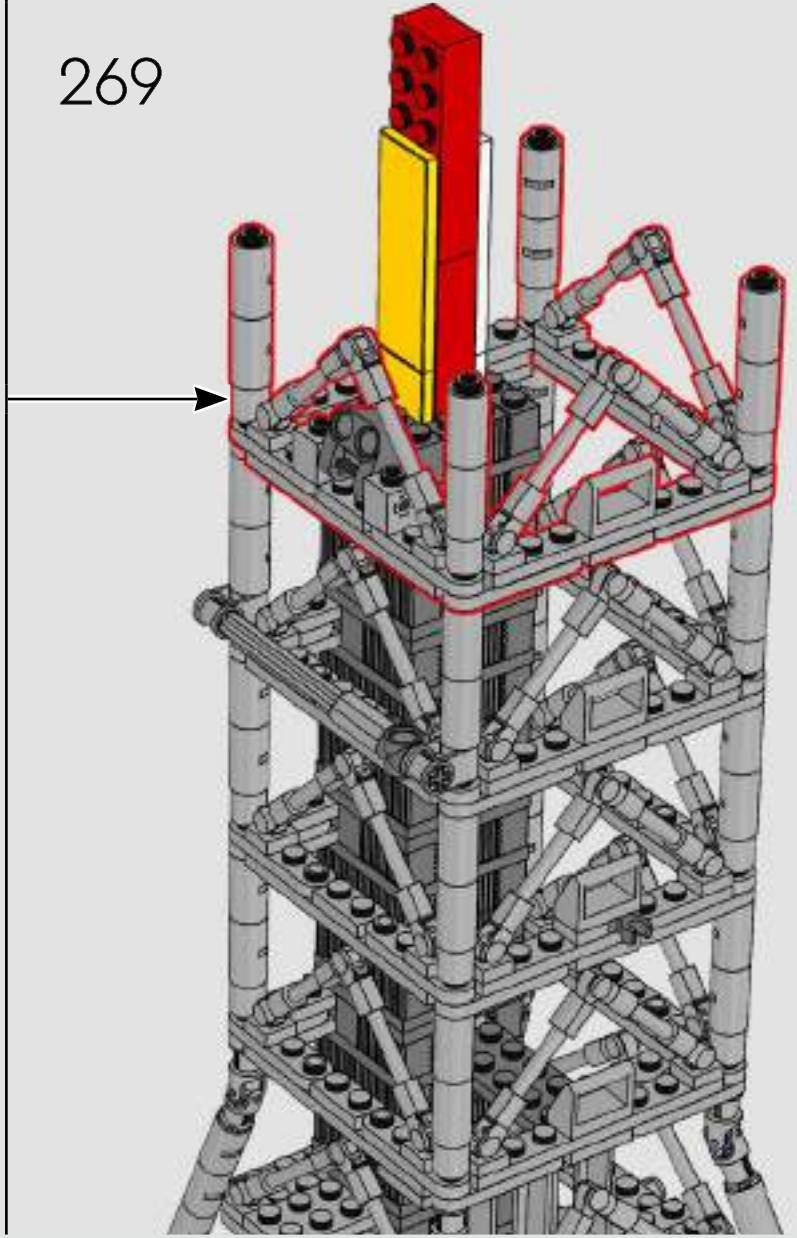


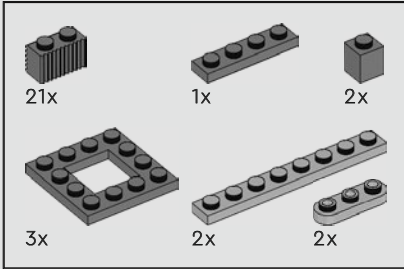
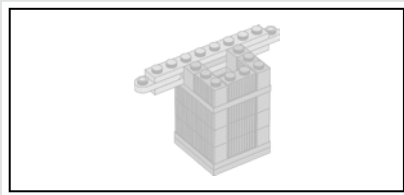


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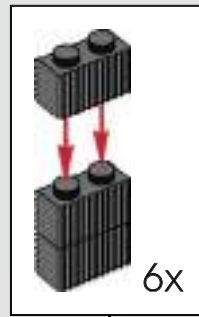
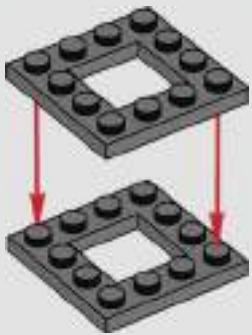
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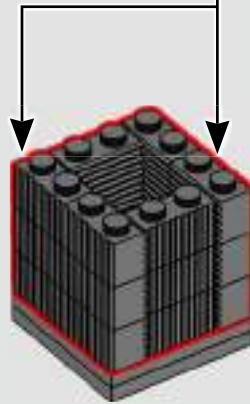


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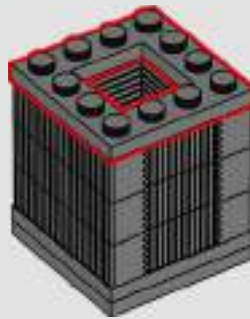
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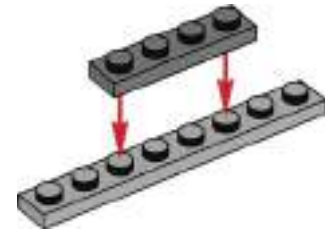
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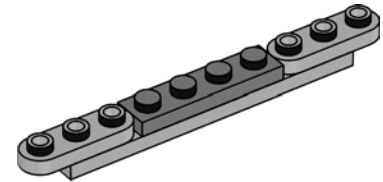
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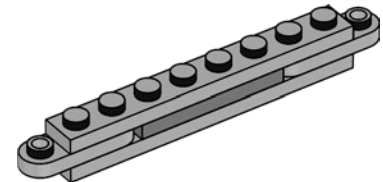
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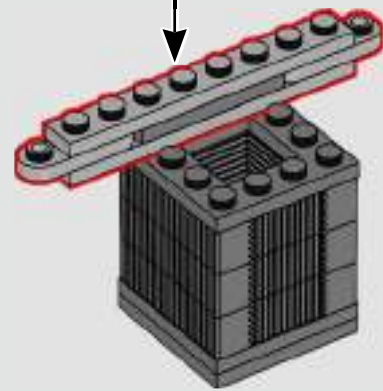
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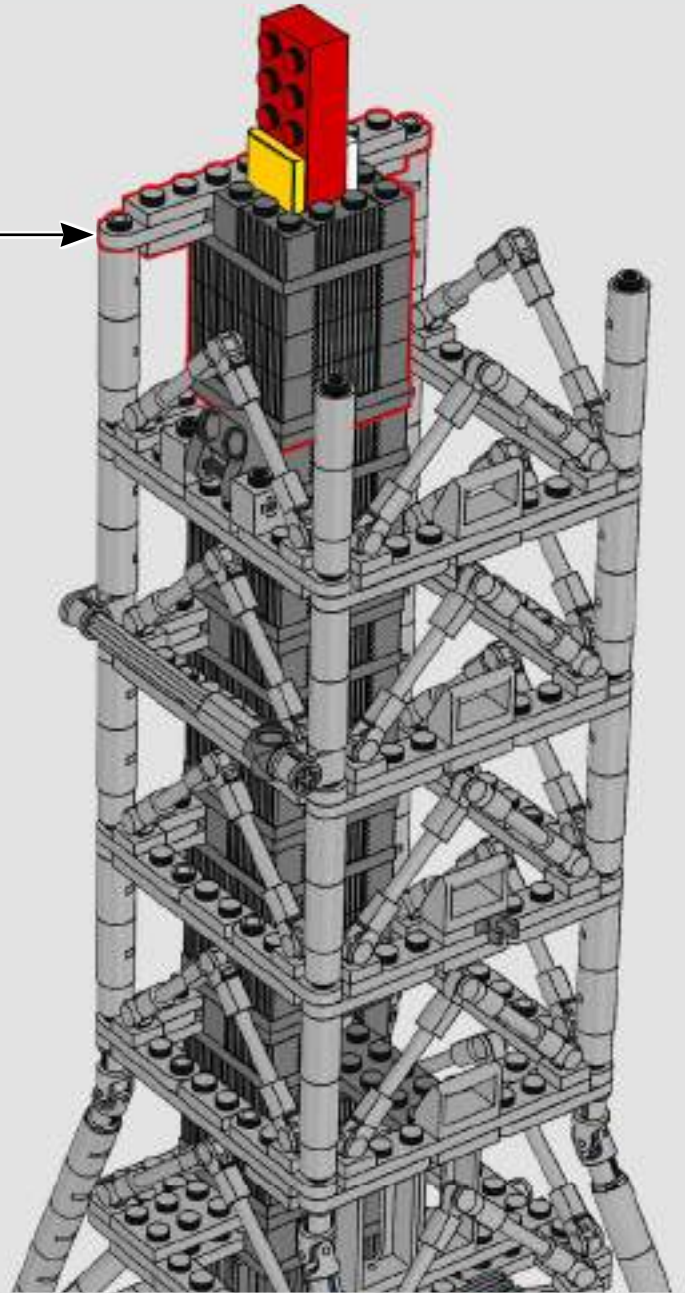
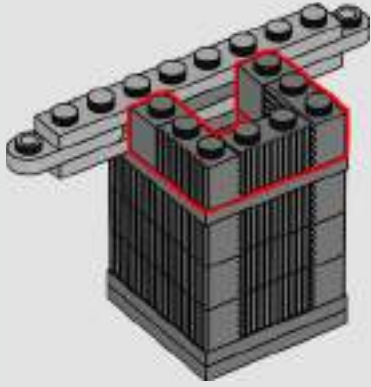
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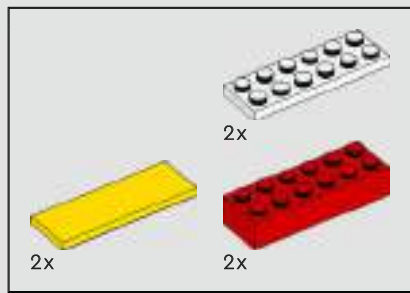


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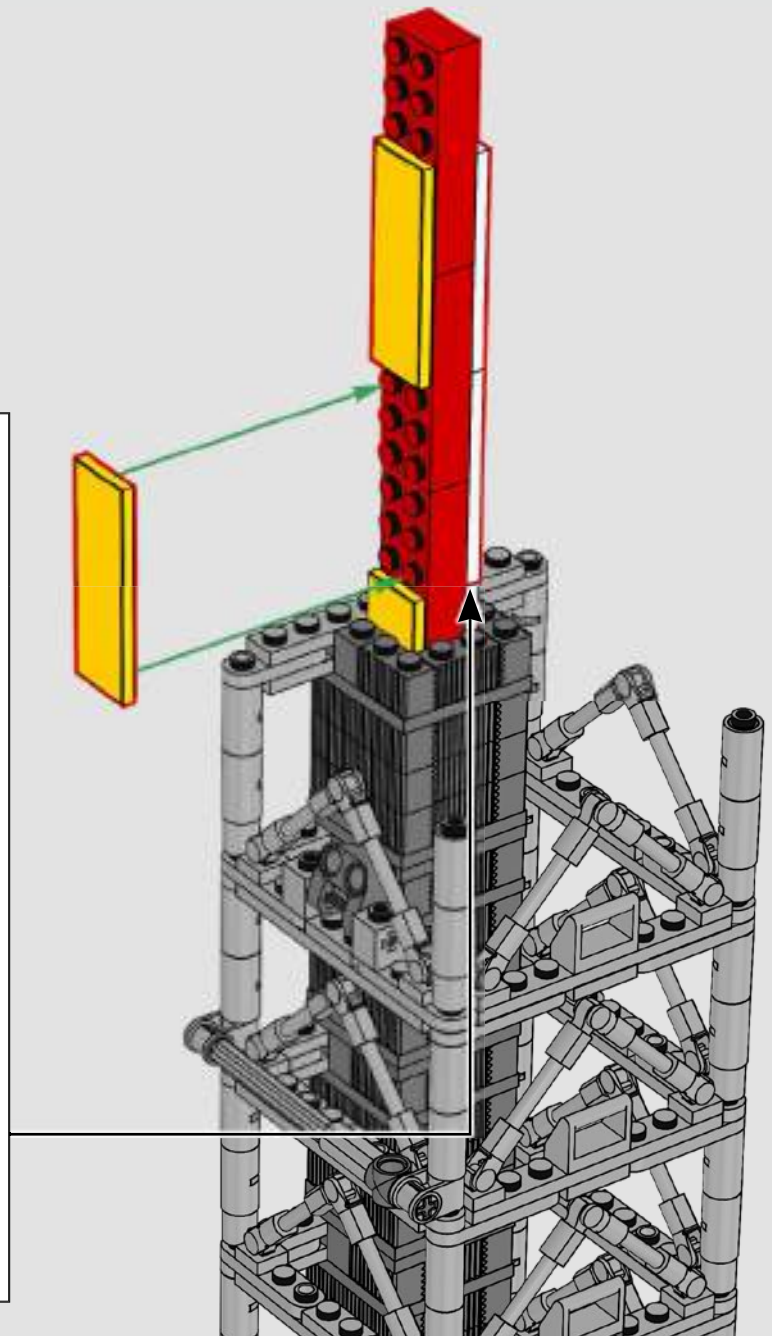
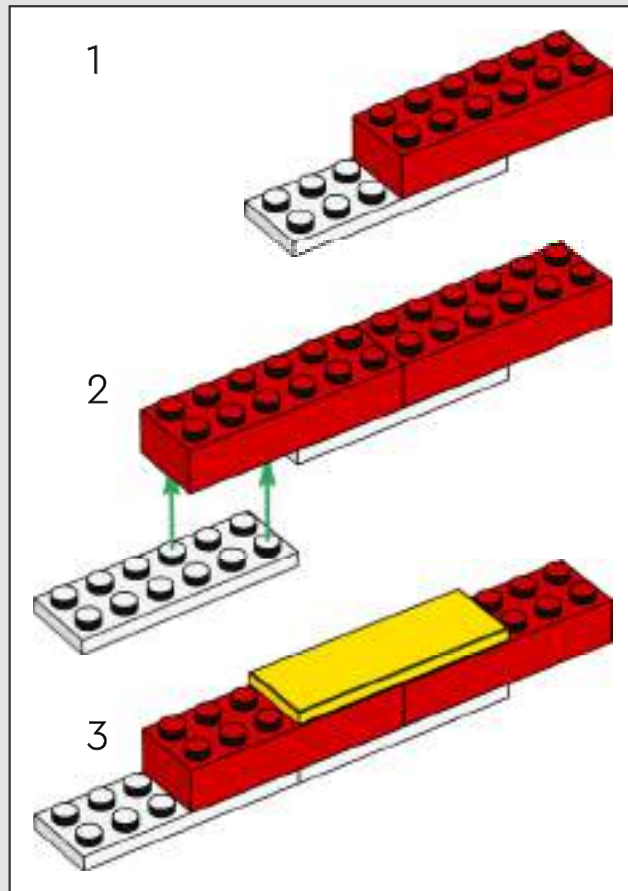


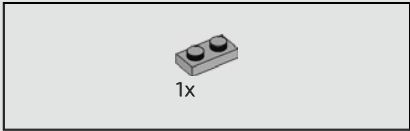
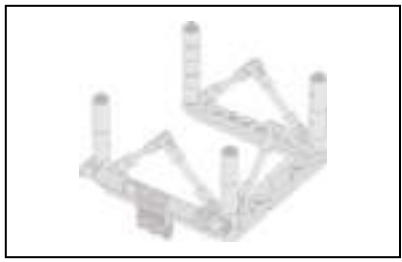
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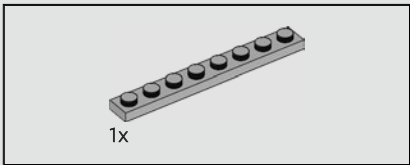
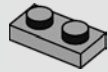


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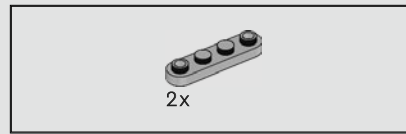
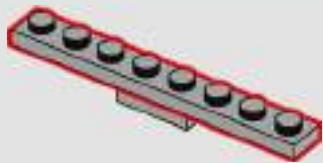




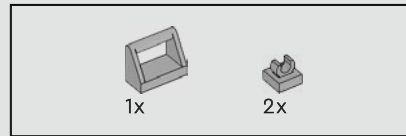
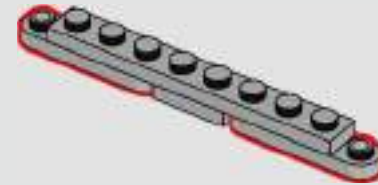
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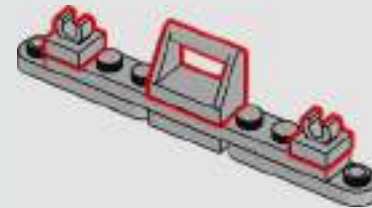
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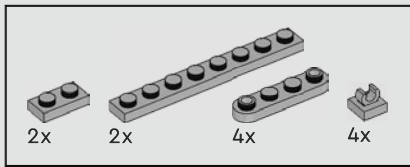


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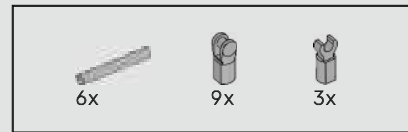
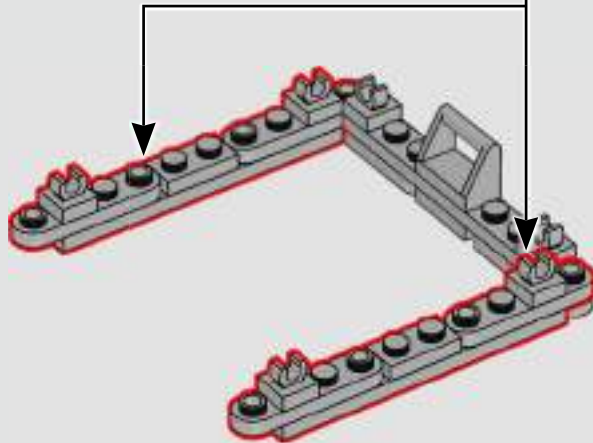
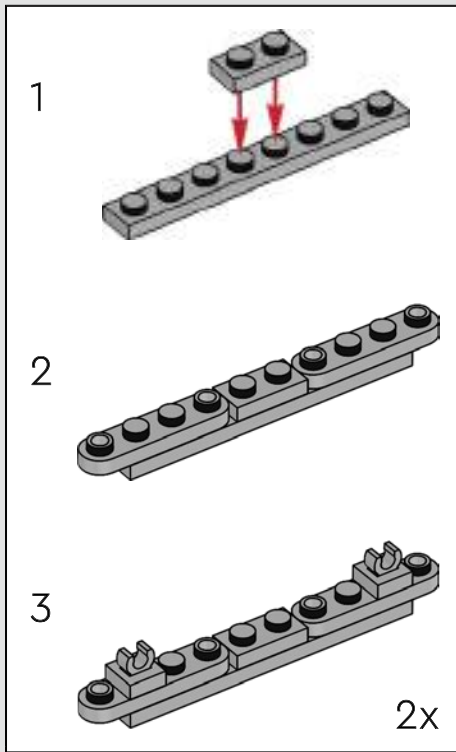


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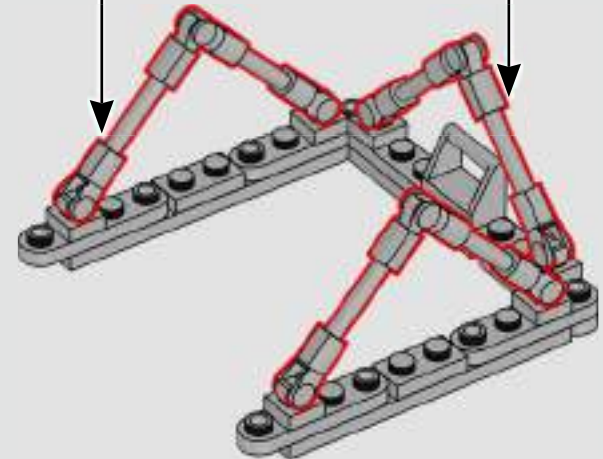
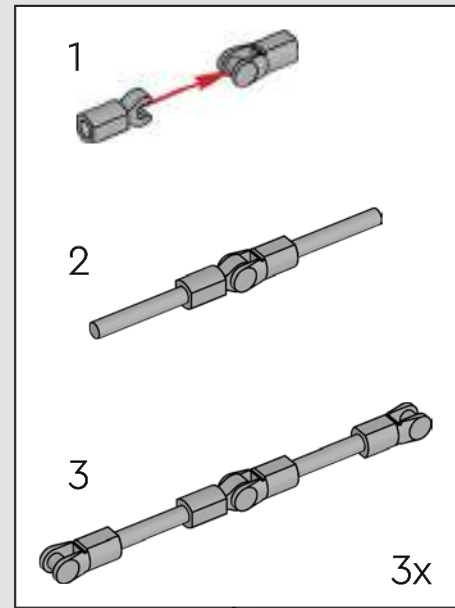


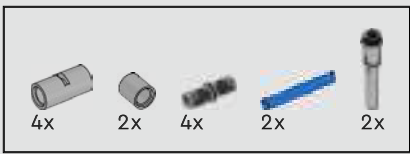


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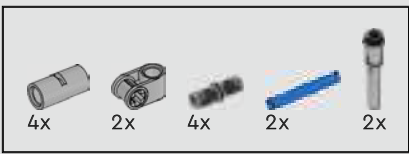
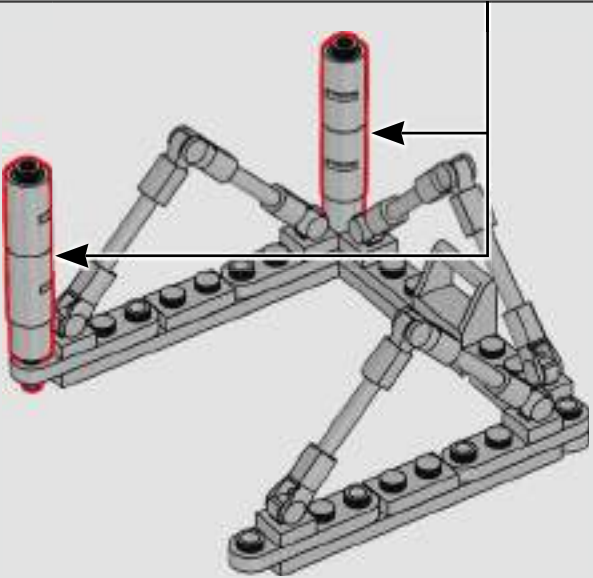
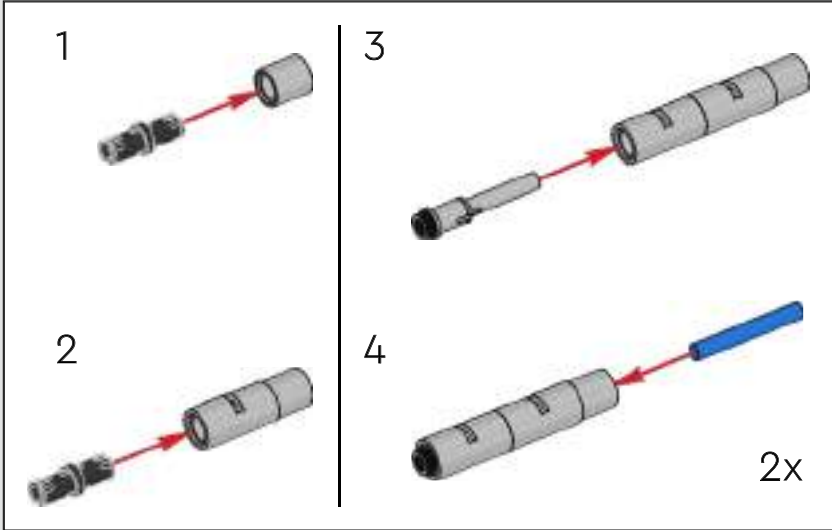


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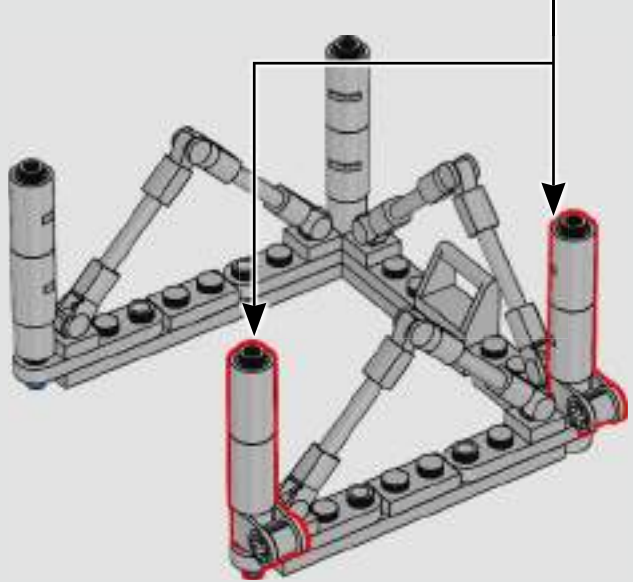
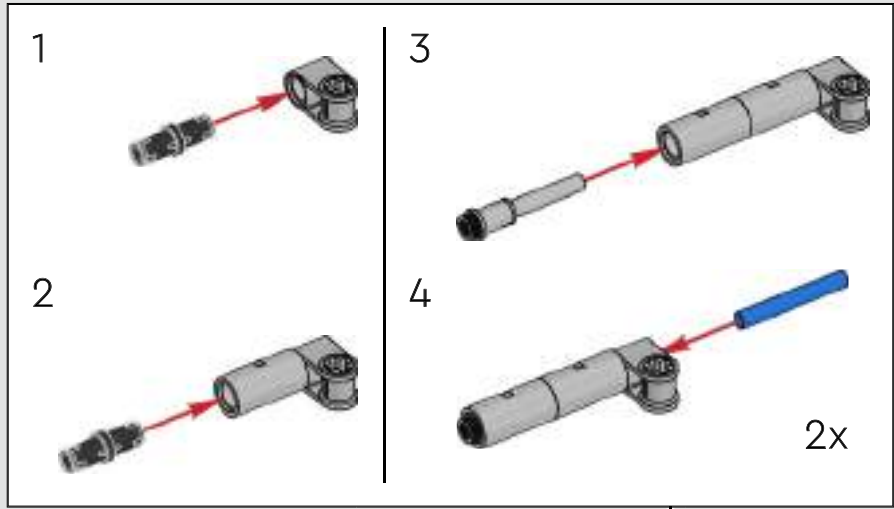


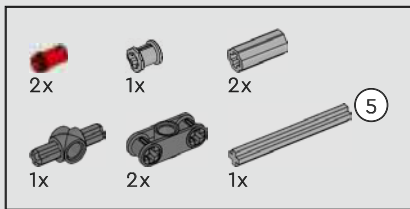


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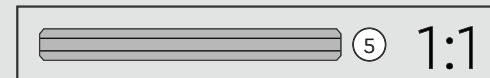
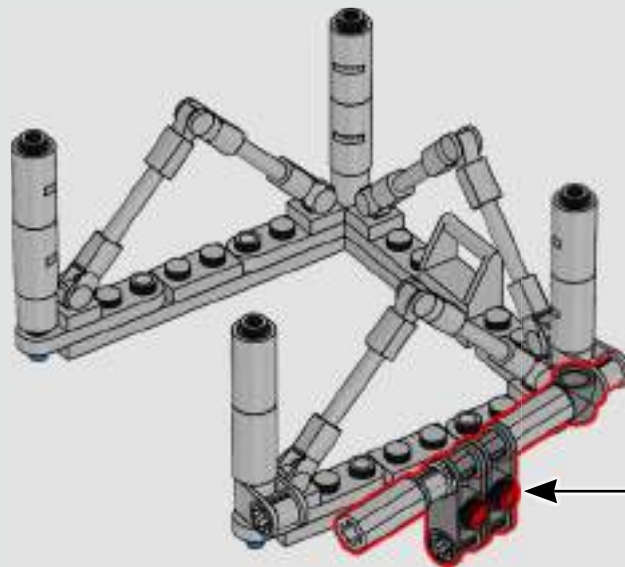
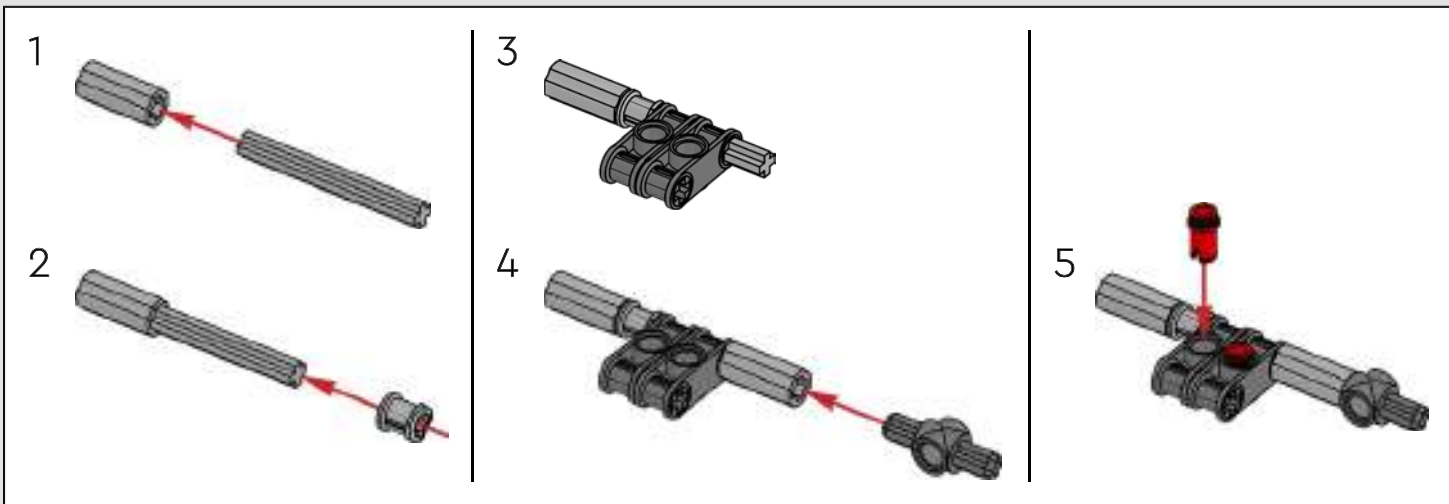


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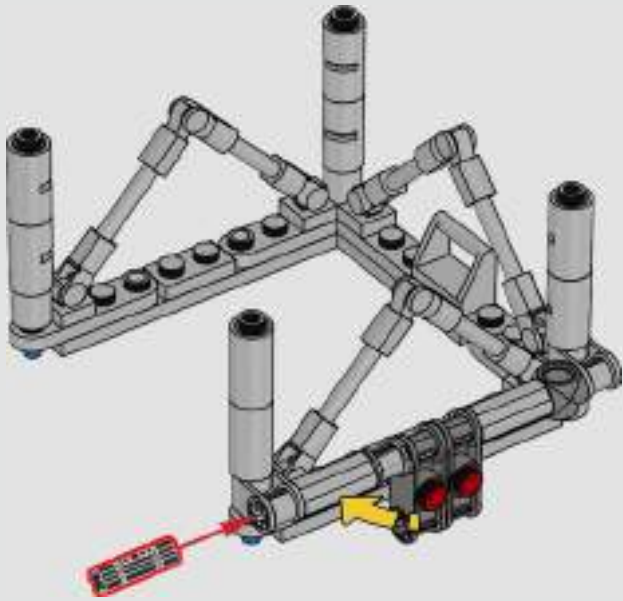


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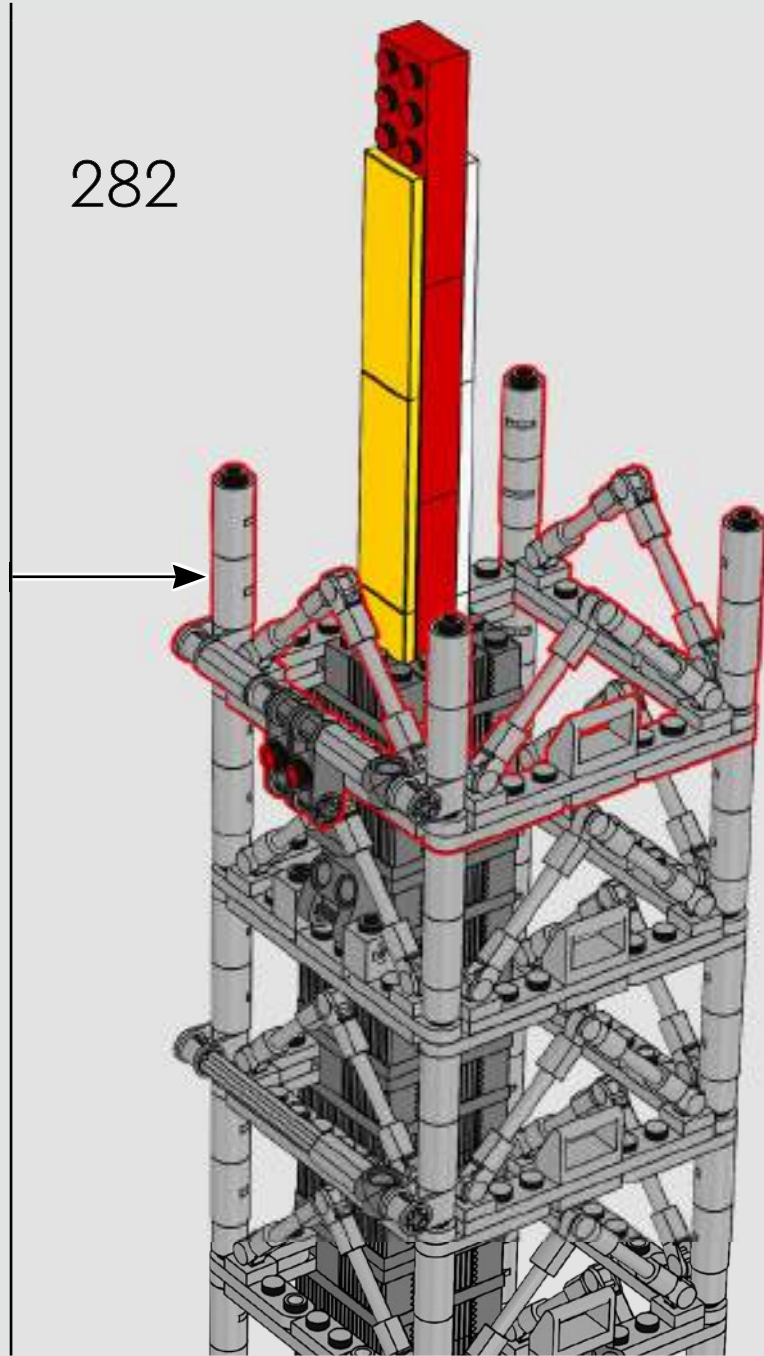


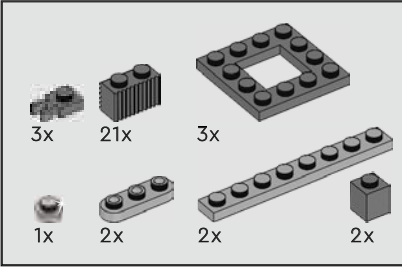
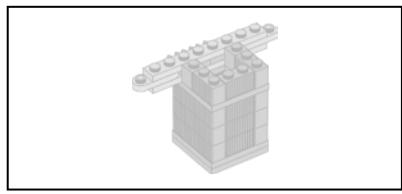
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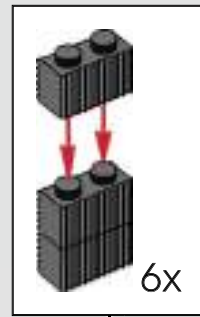
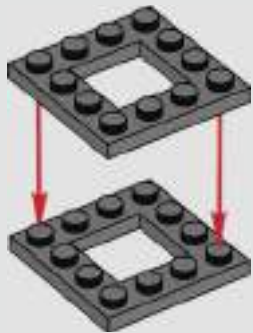
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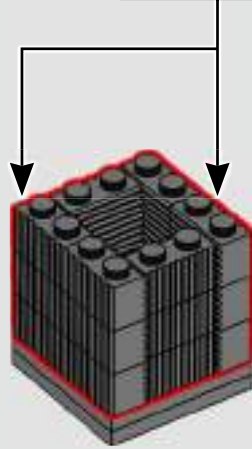


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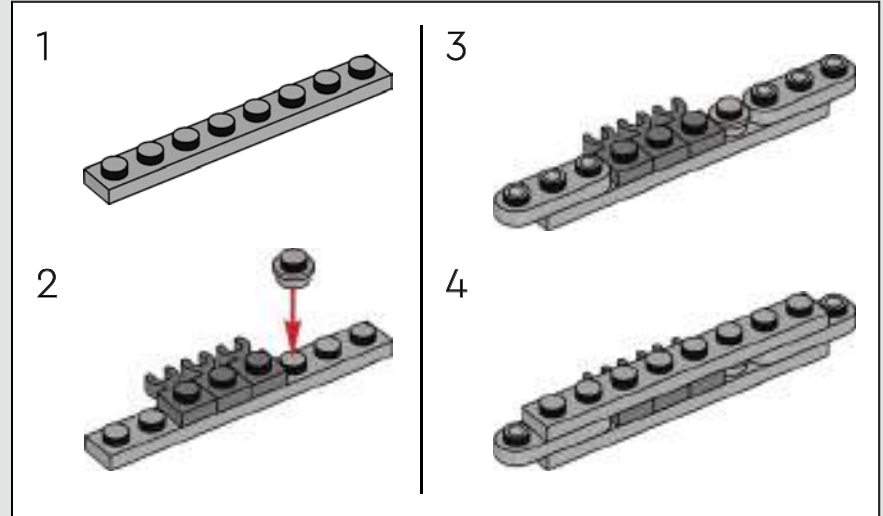
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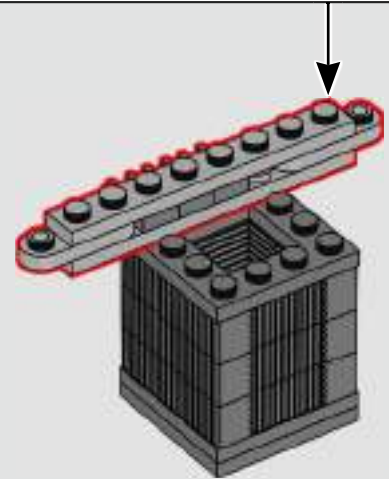
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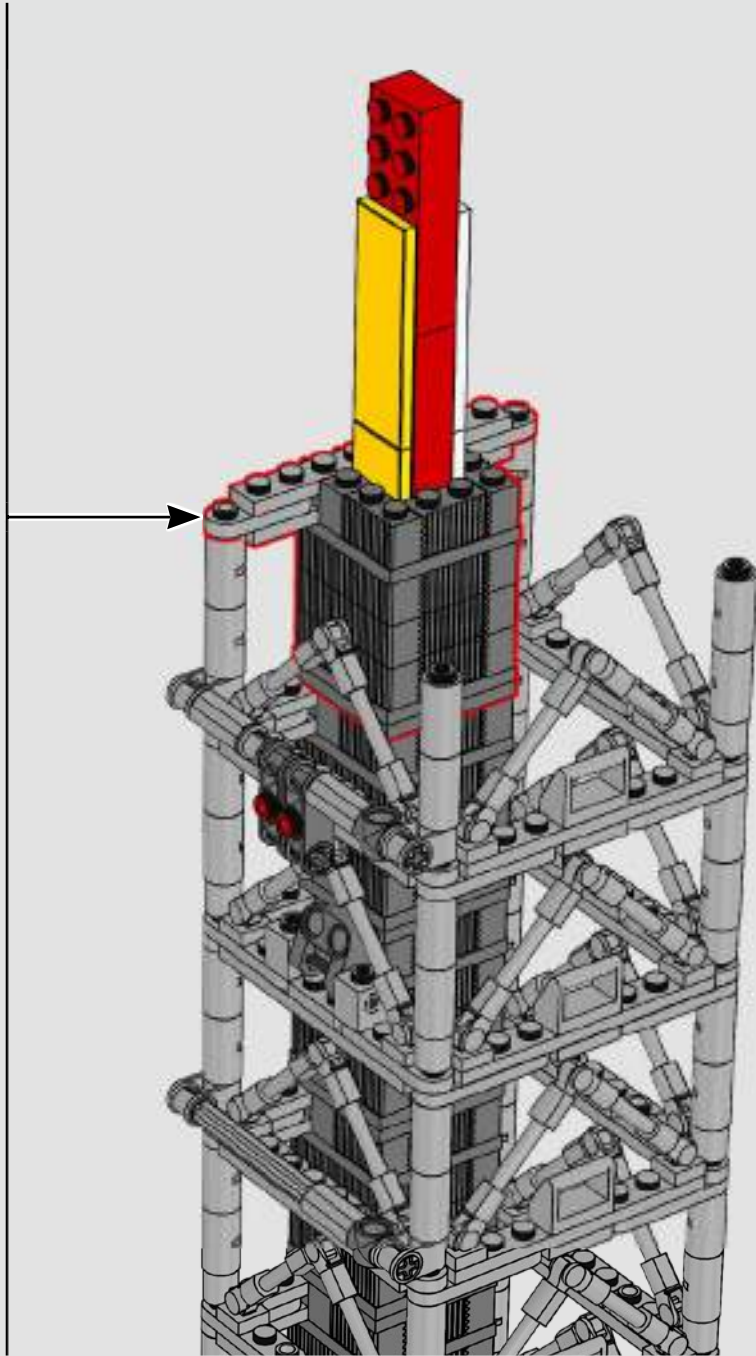
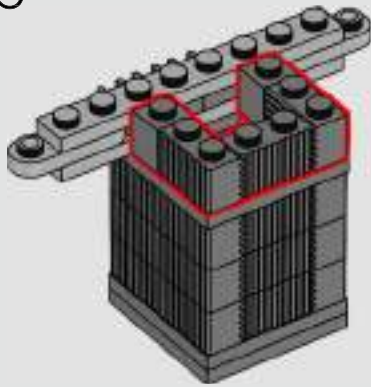
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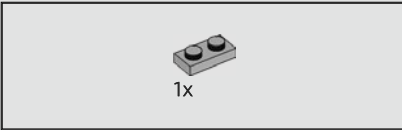


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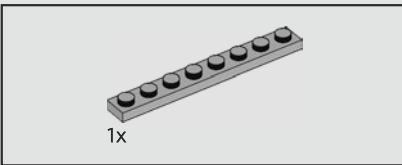


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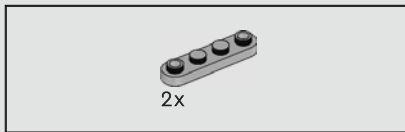




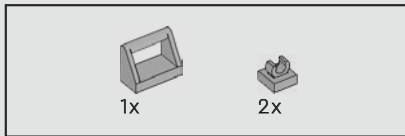
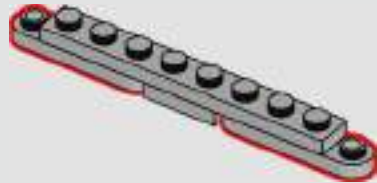
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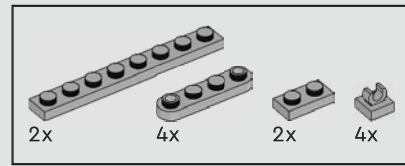
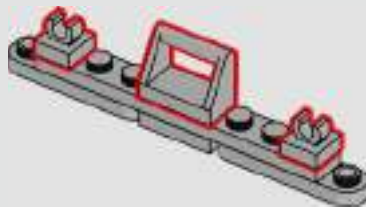
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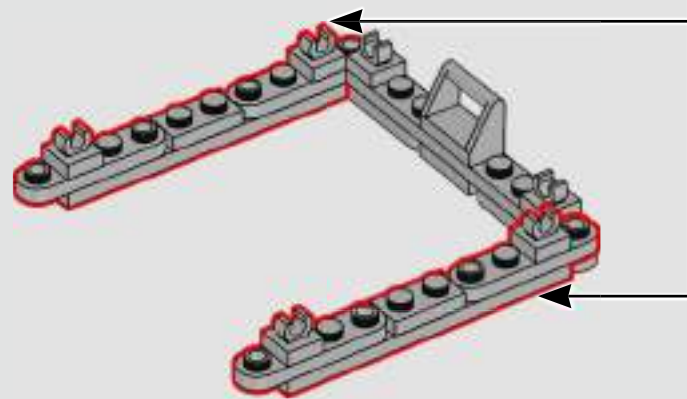
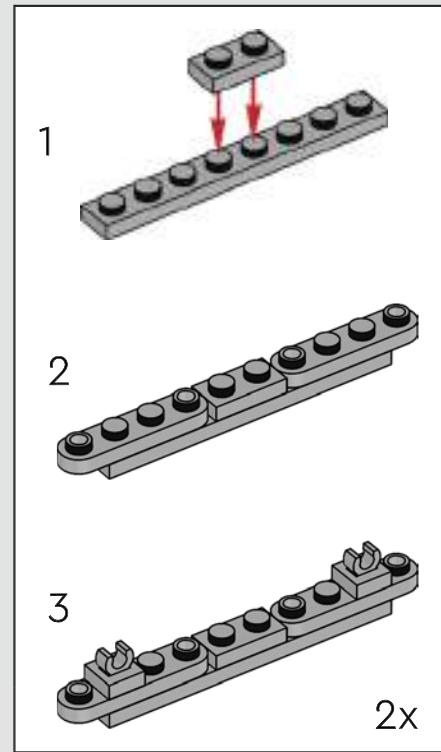
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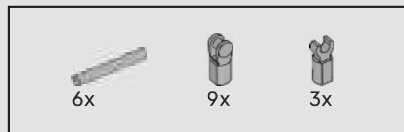
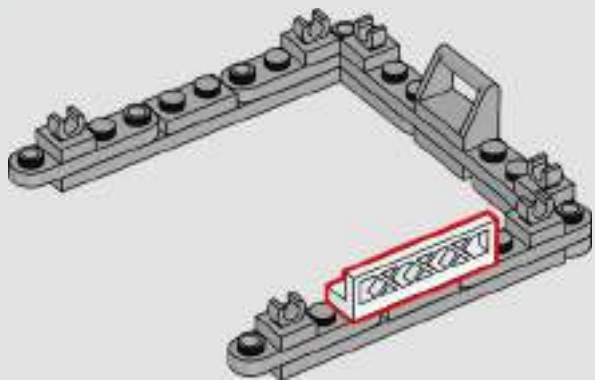


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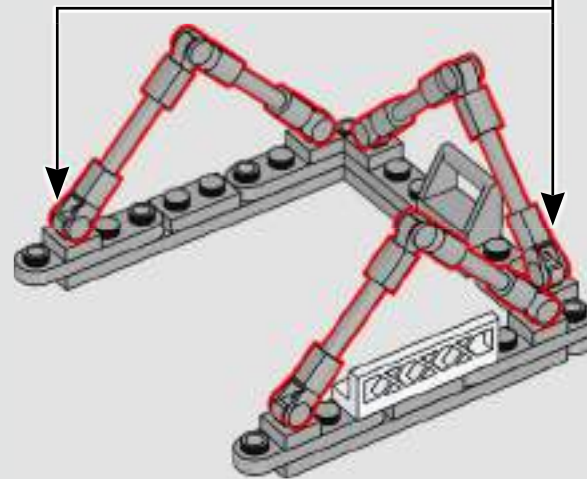
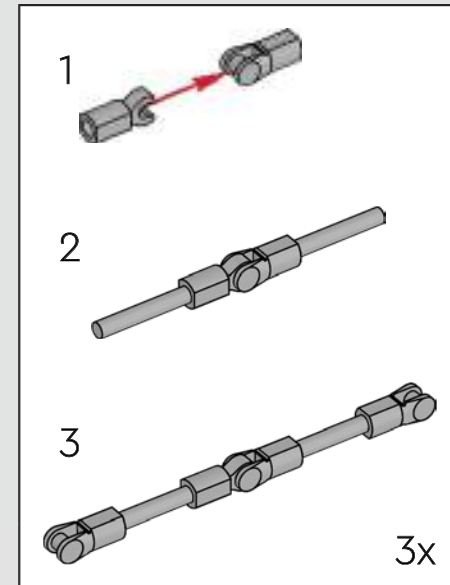




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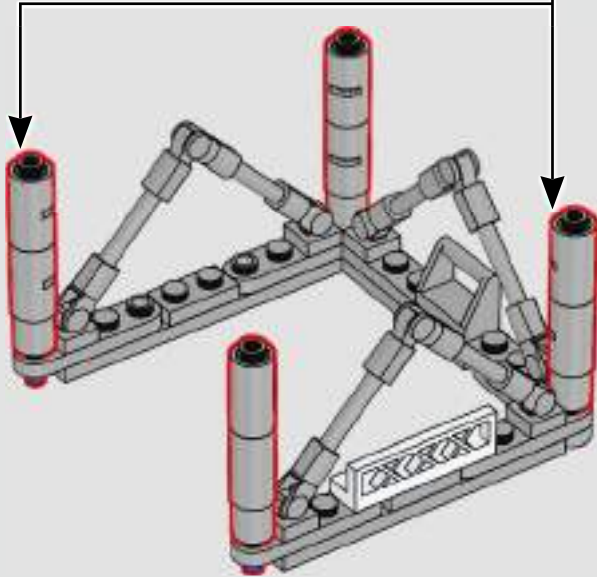
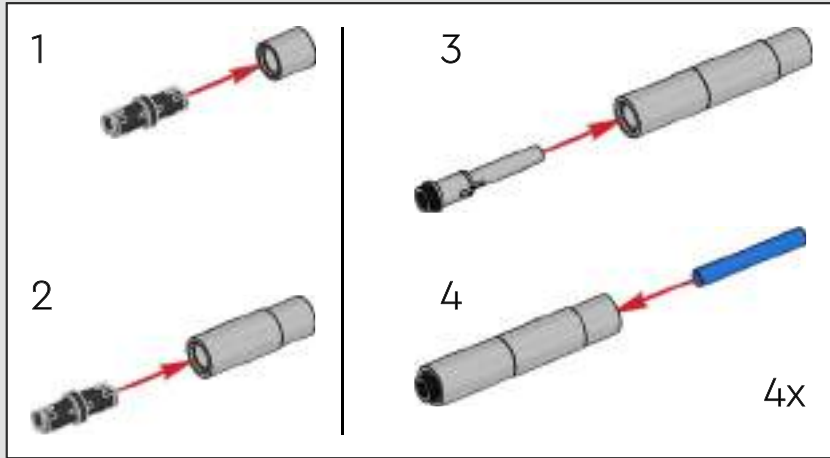


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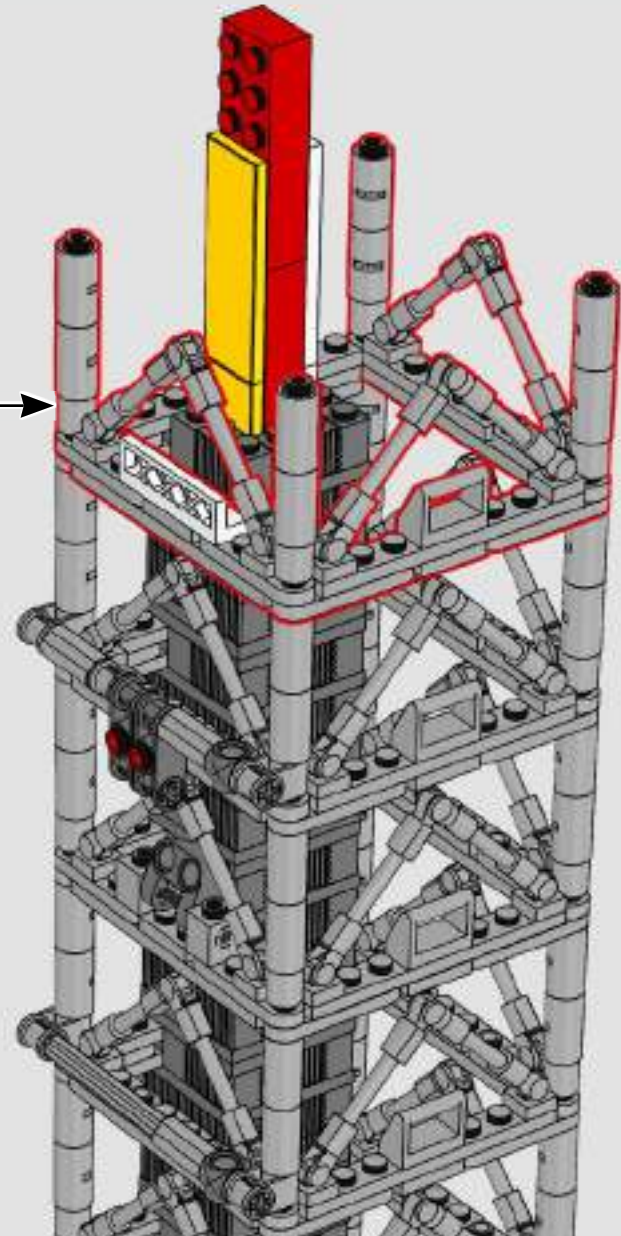


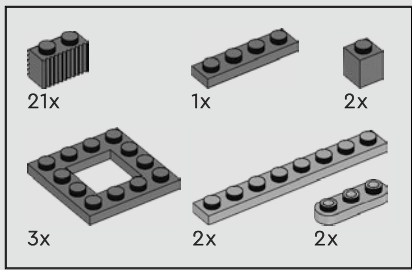


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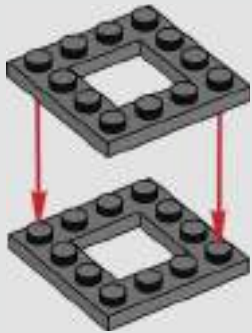
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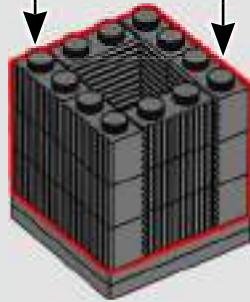


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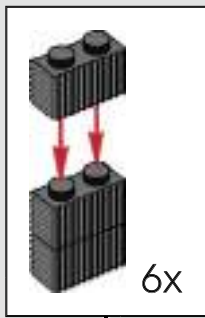
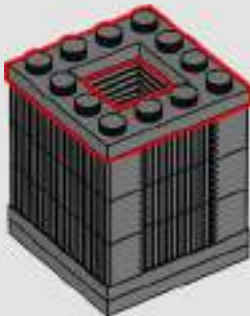
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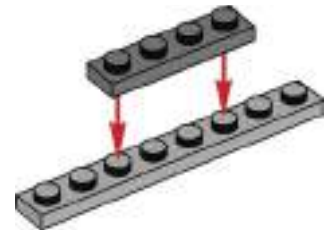
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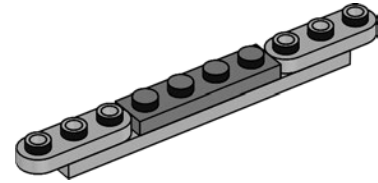
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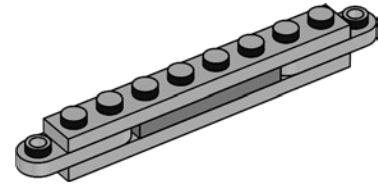
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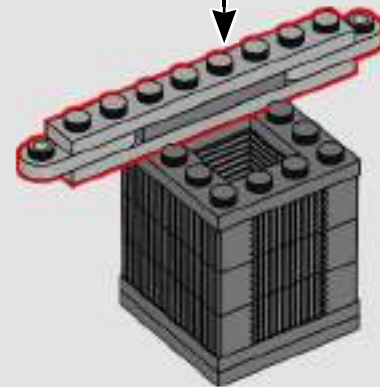
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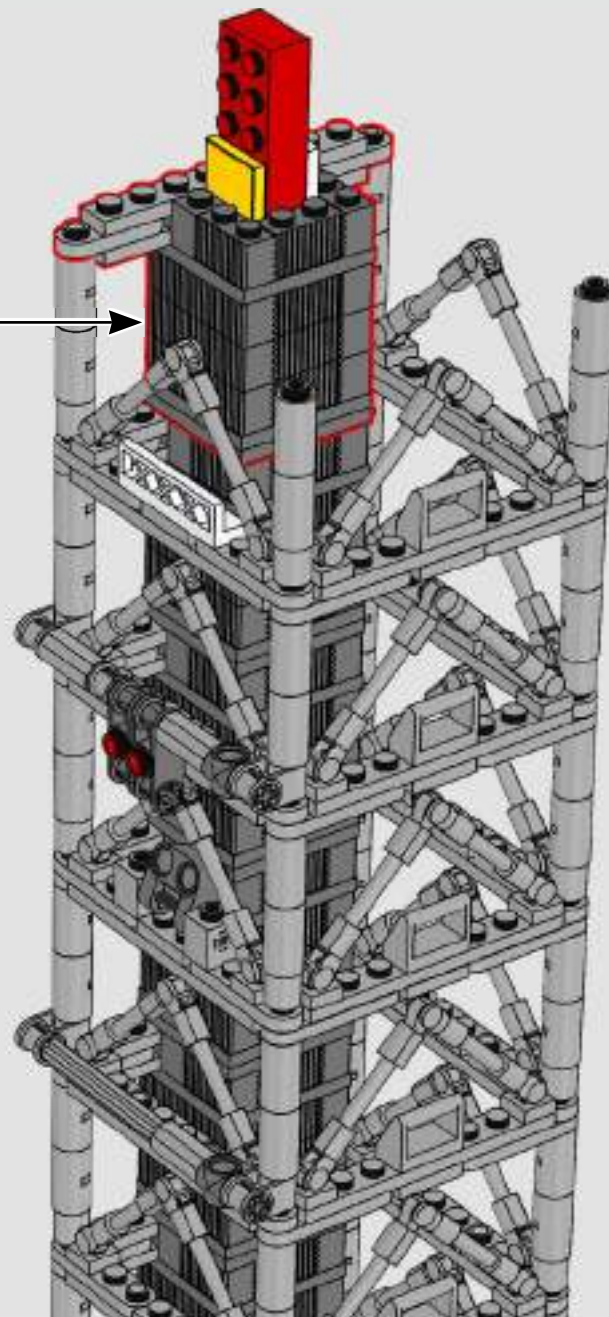
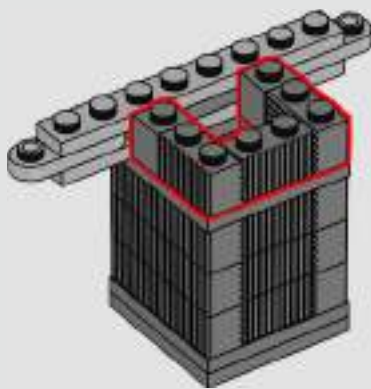
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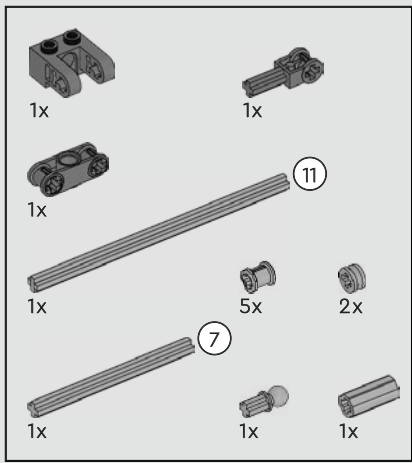


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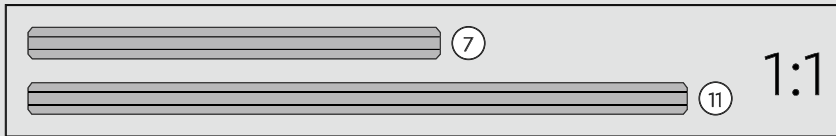
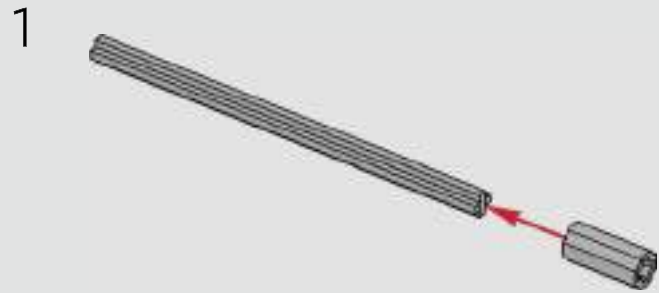


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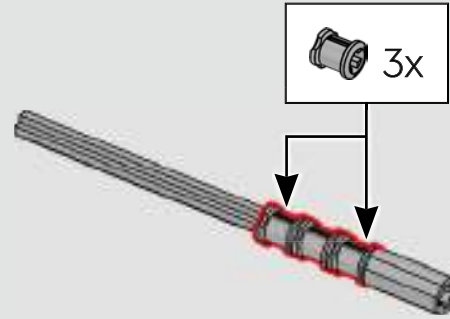




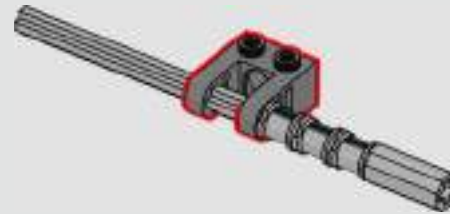
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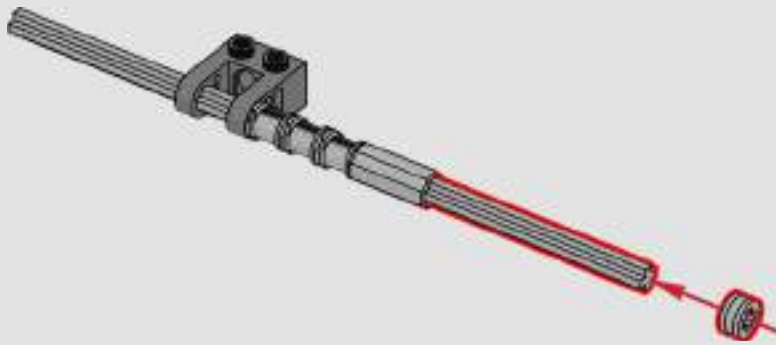
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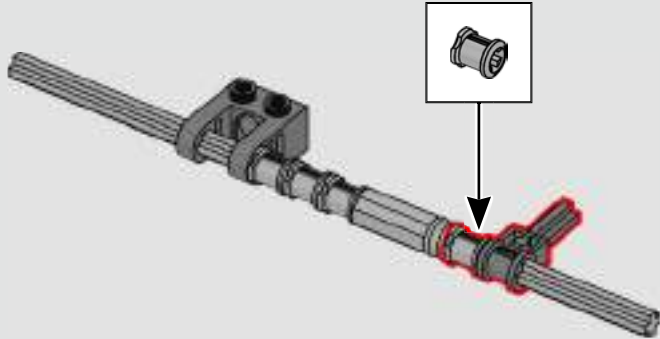
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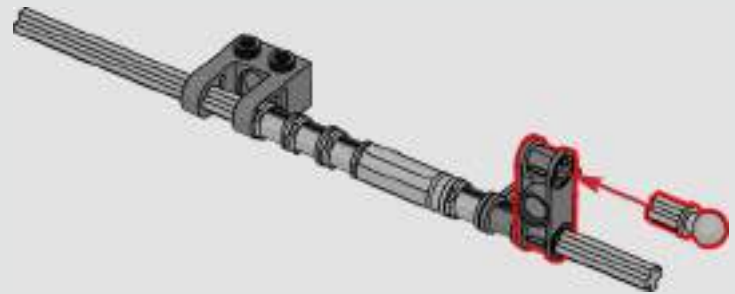
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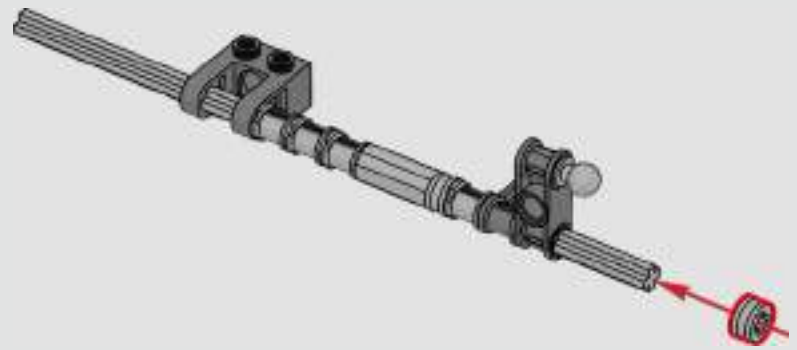
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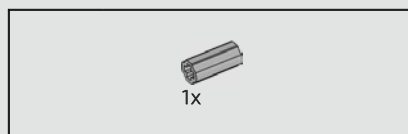
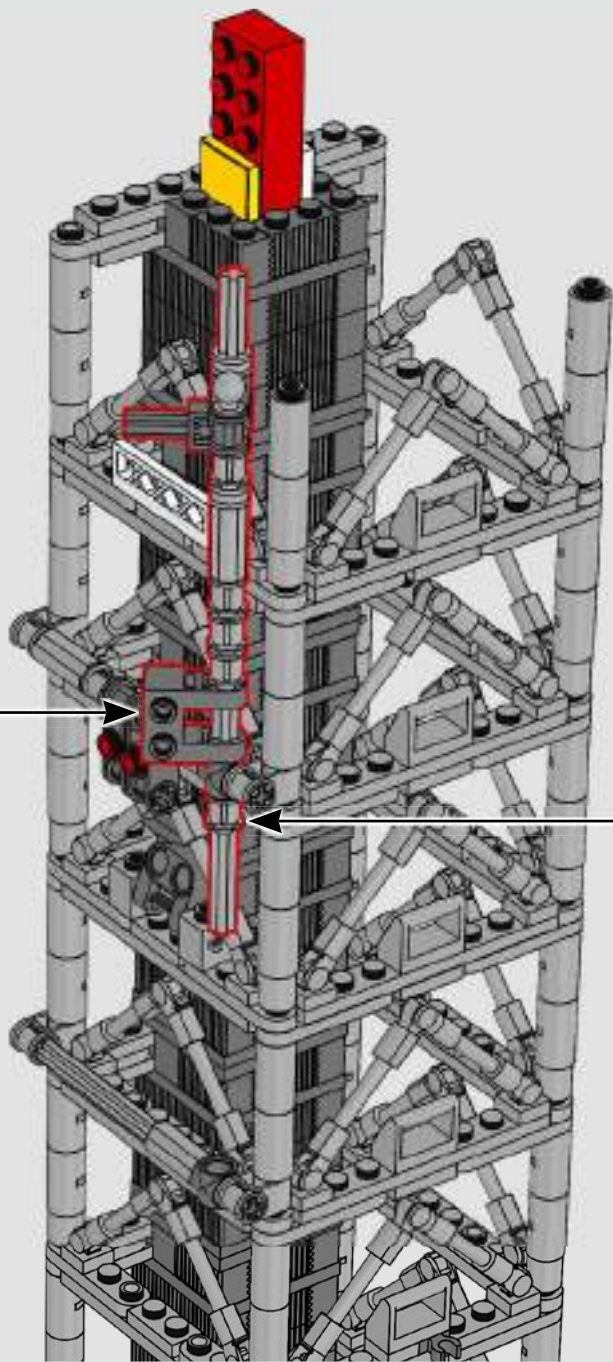


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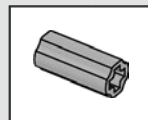
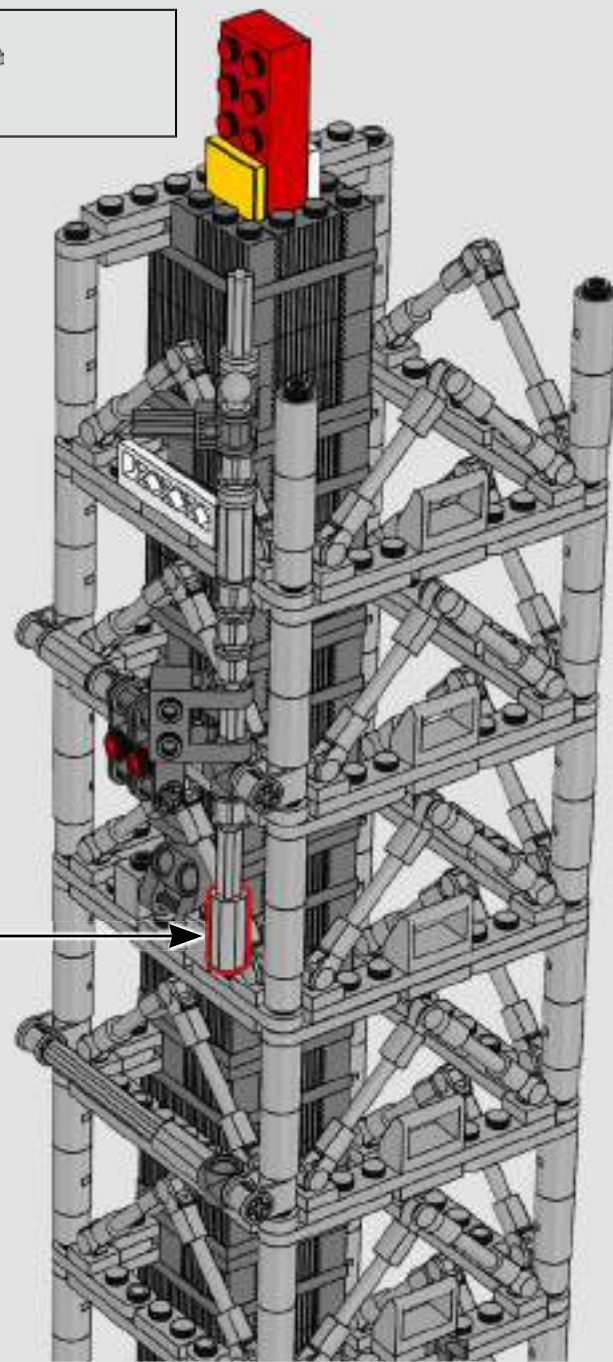


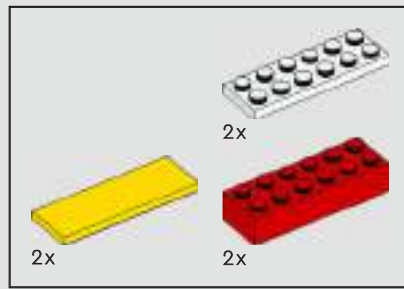
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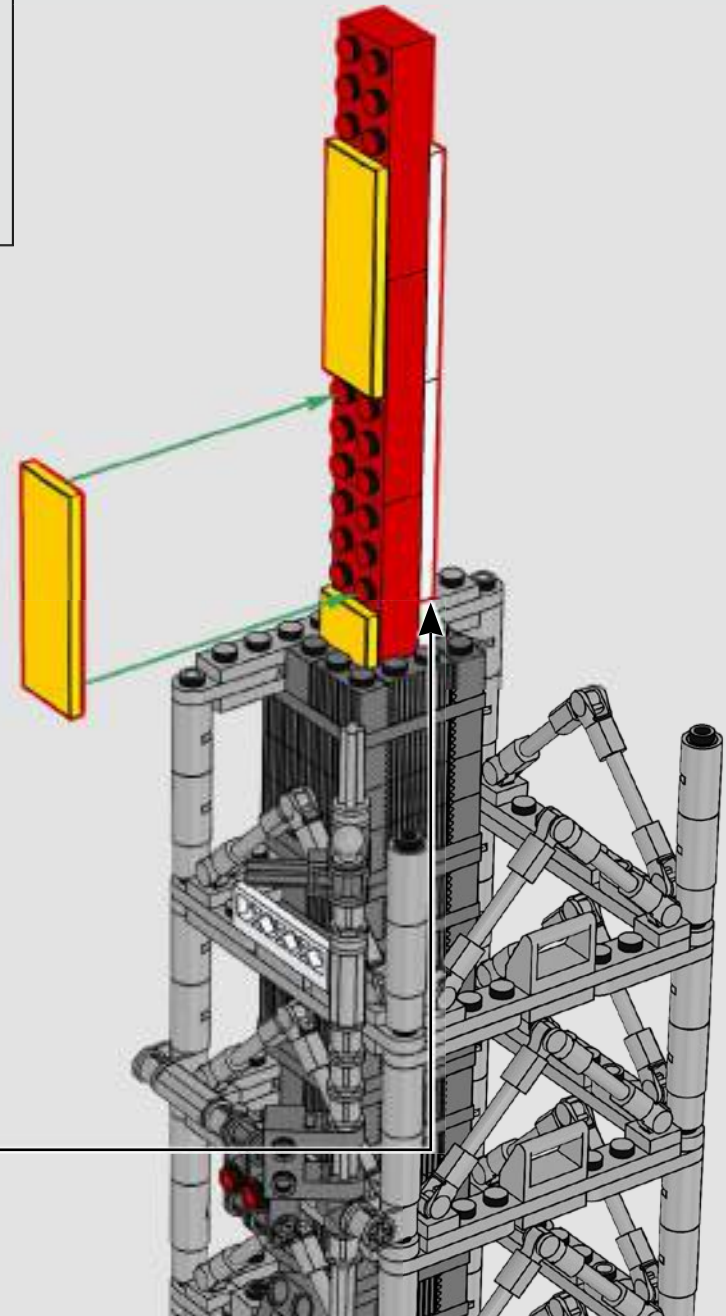
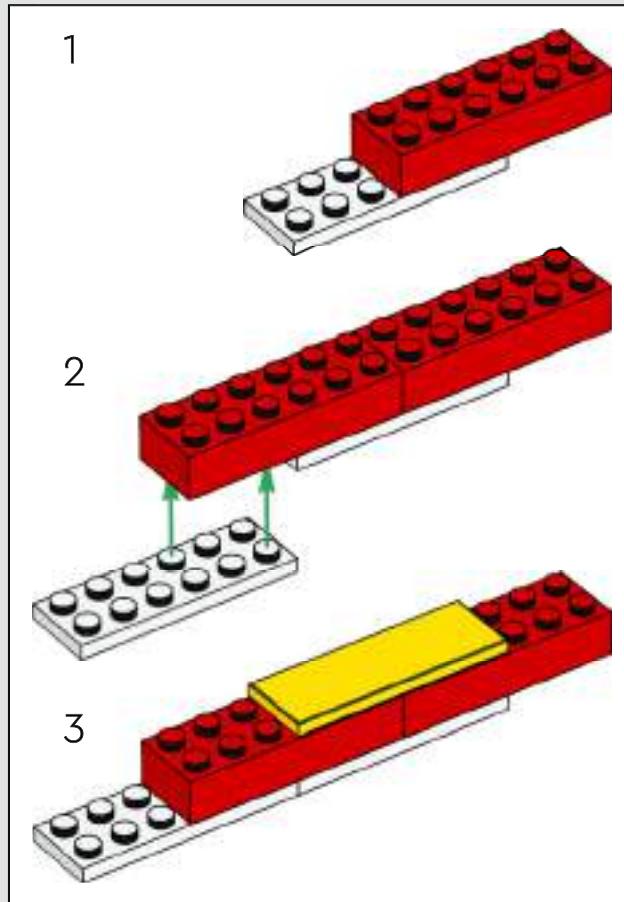


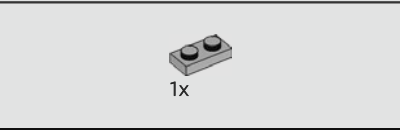
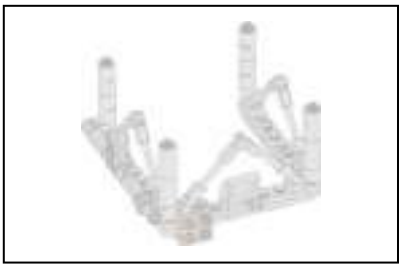
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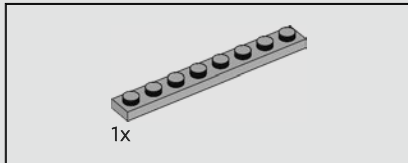
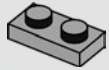
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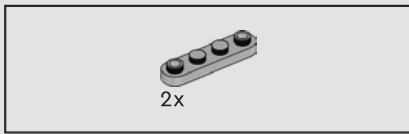
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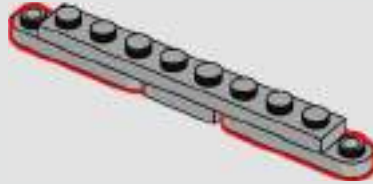
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298



2x

299

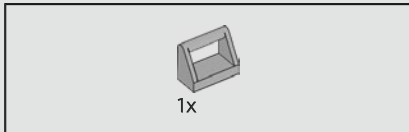
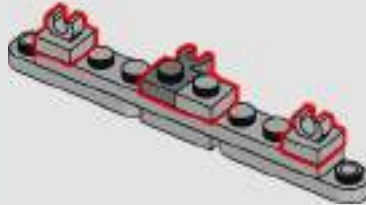


1x

1x

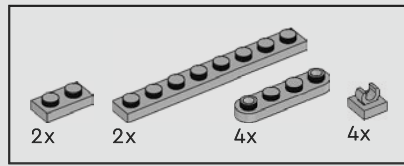
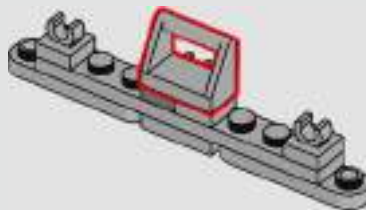
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300



1x

301



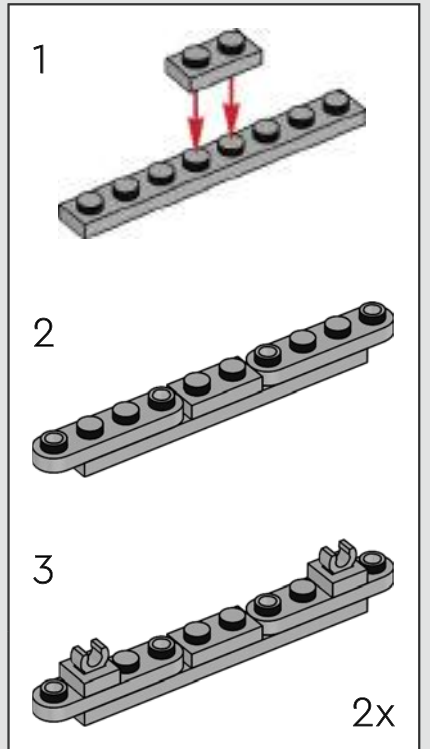
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2x

4x

4x

302

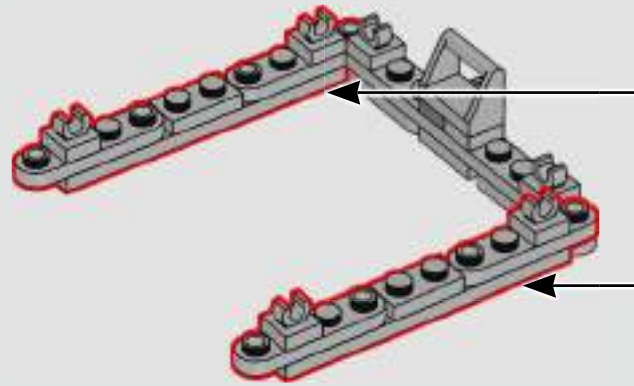


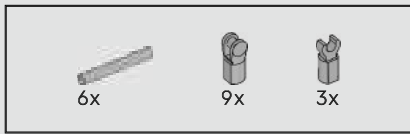
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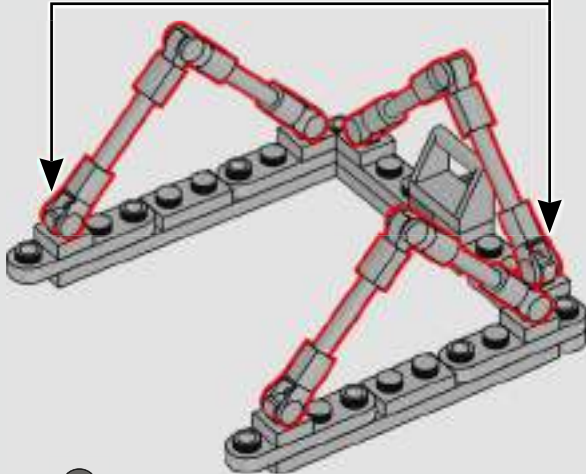
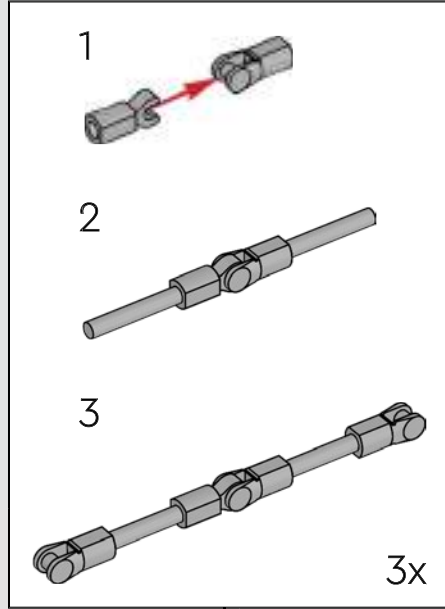
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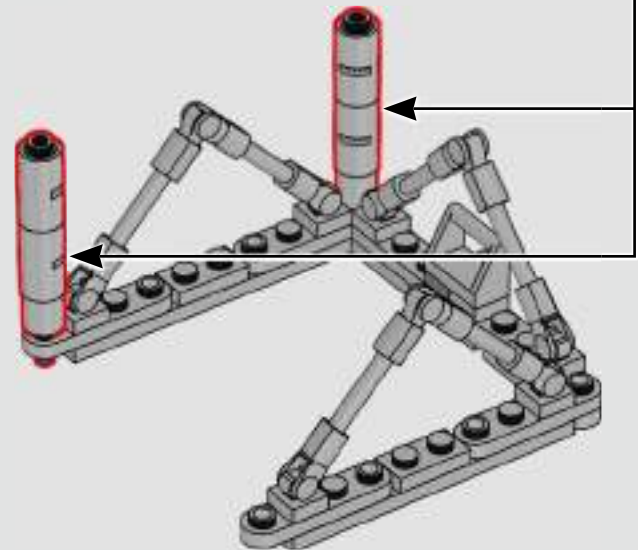
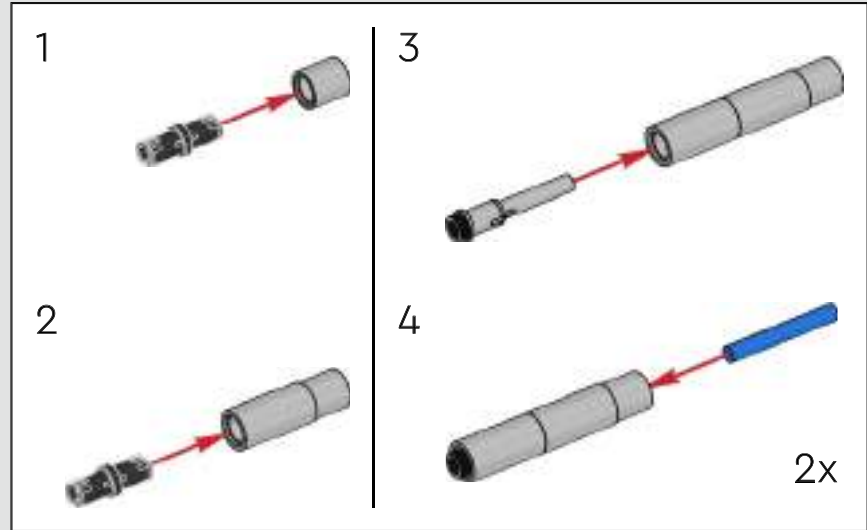


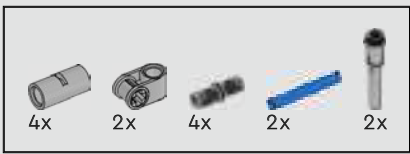


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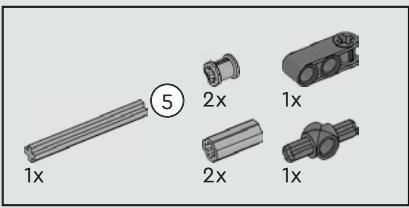
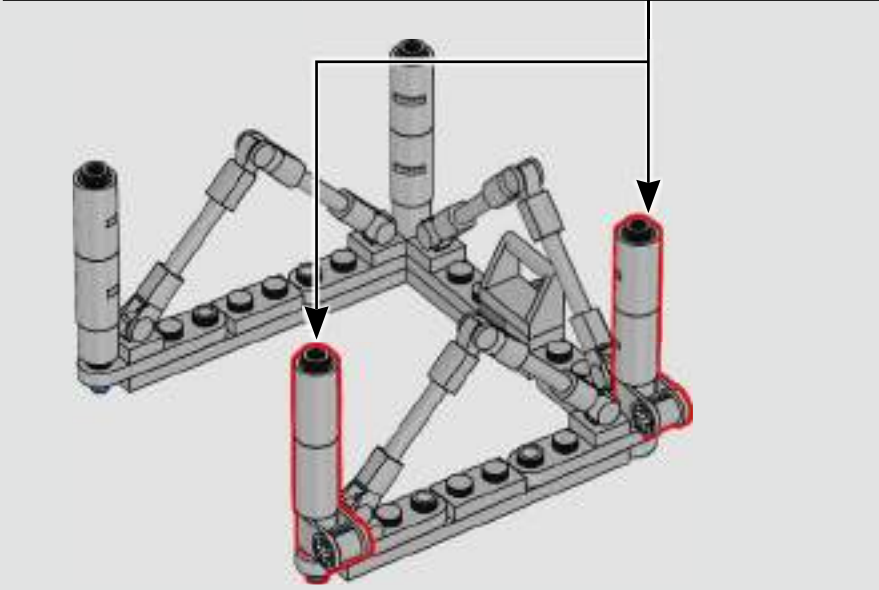
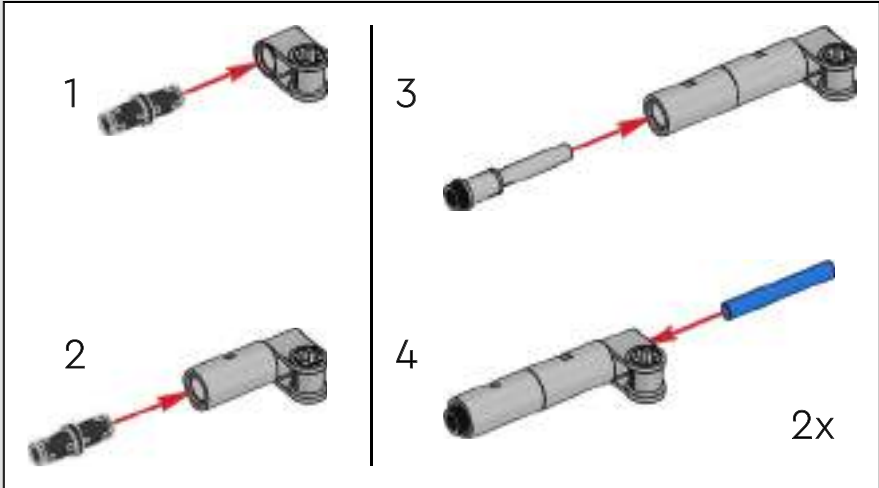


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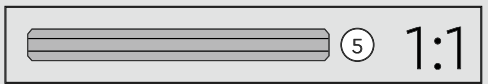
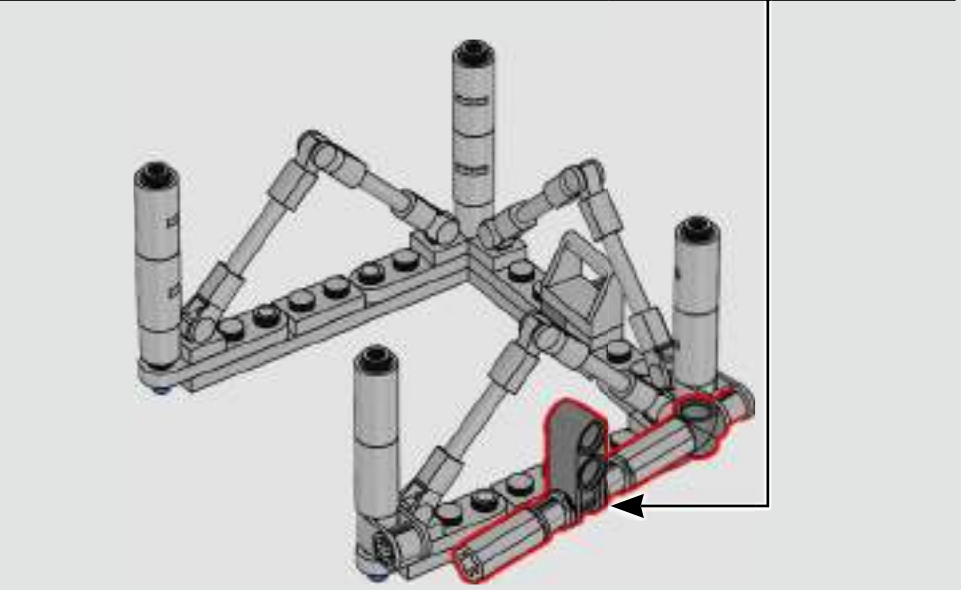
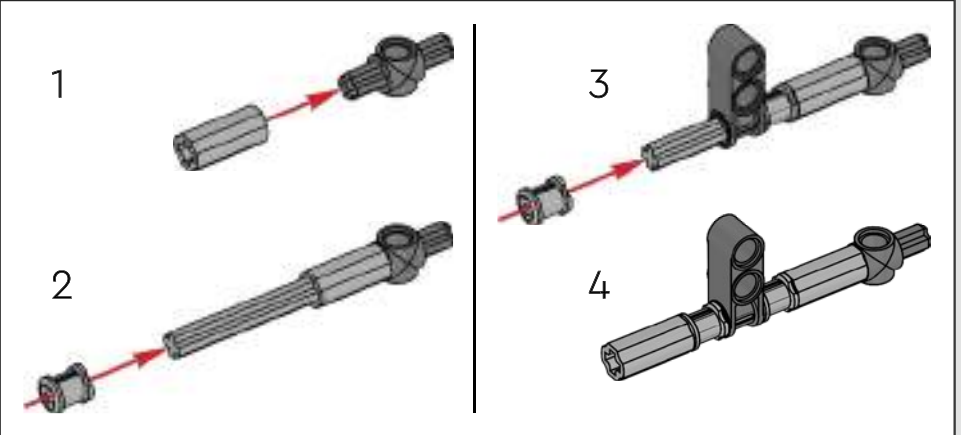




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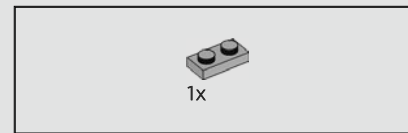
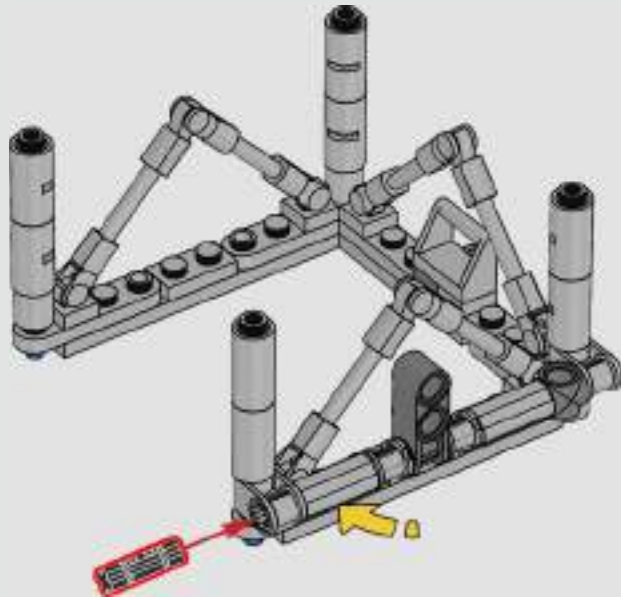


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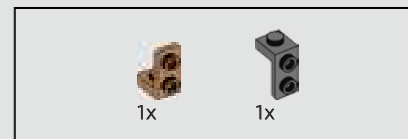
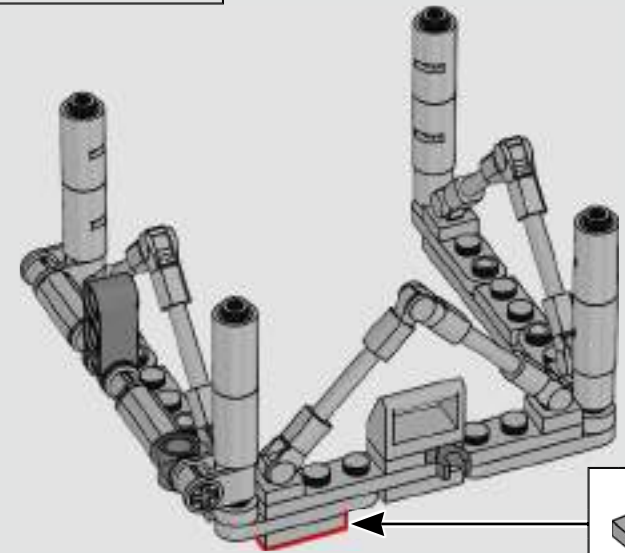
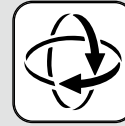




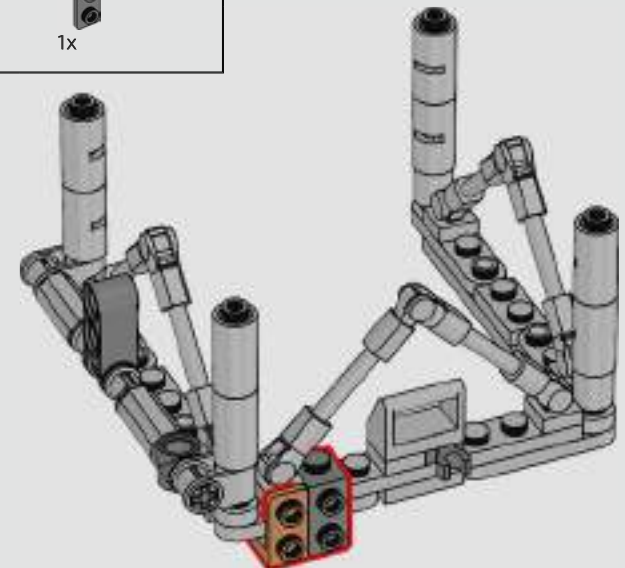
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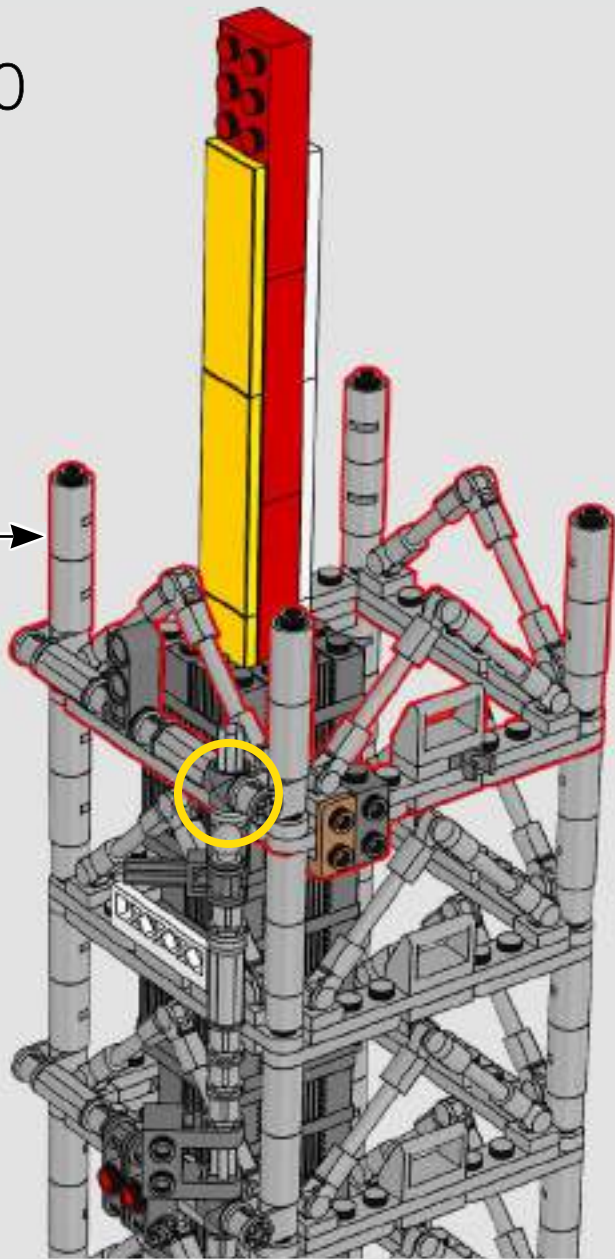
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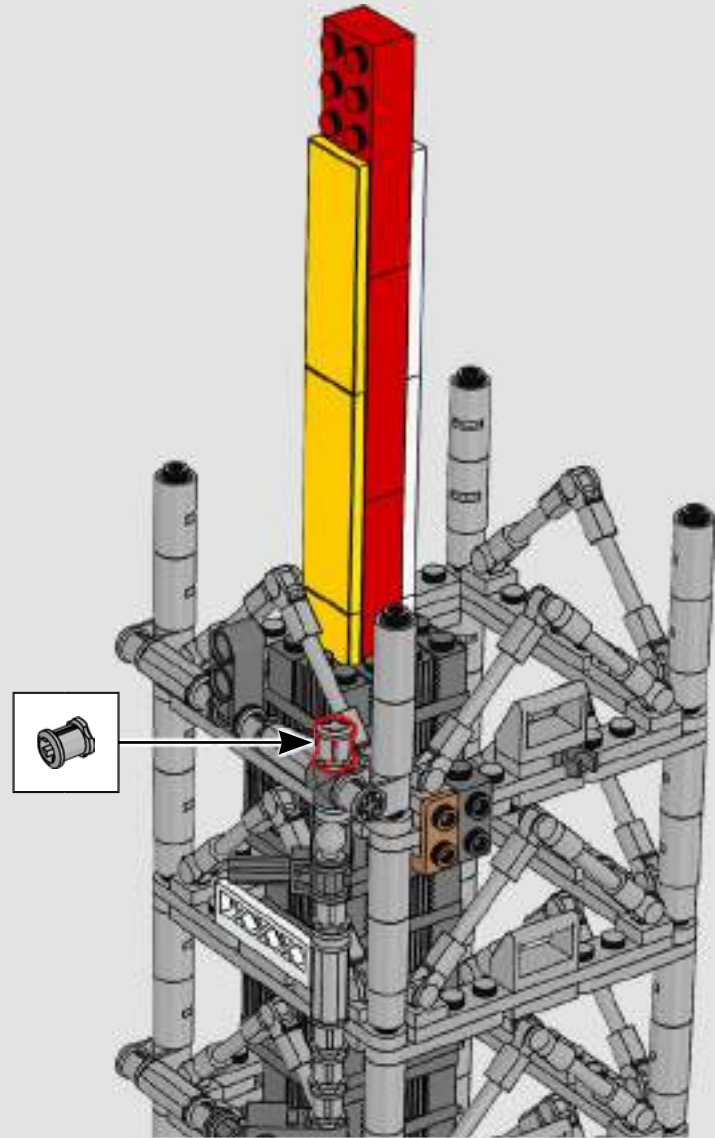
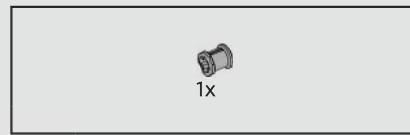
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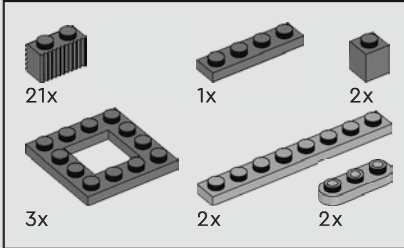
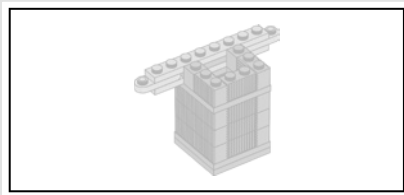


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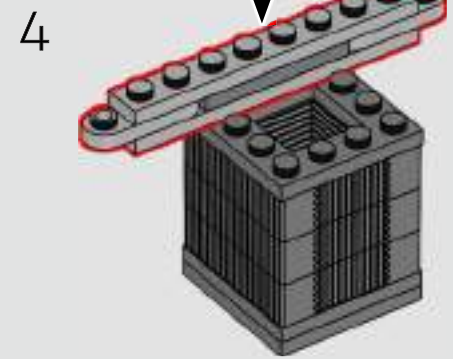
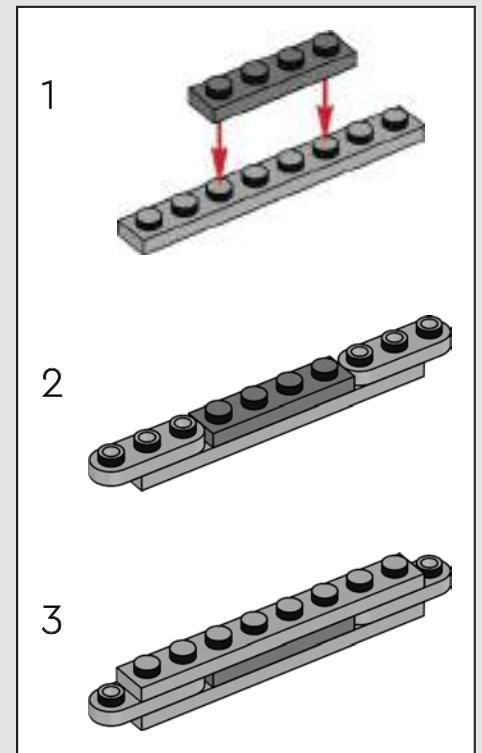
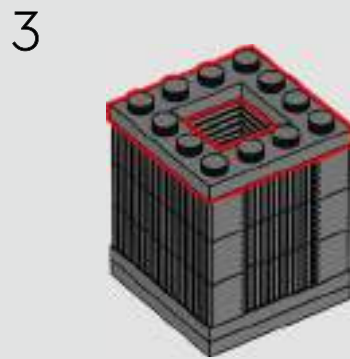
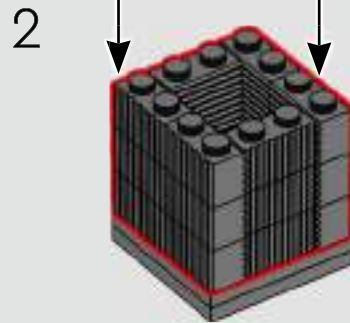
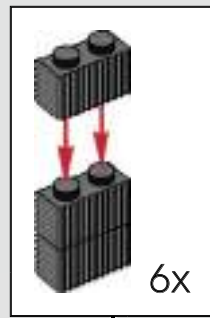
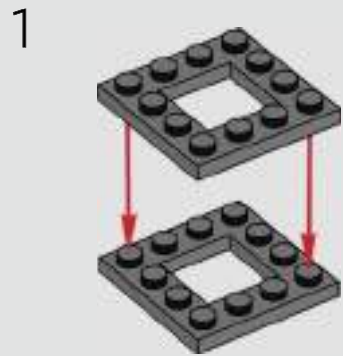


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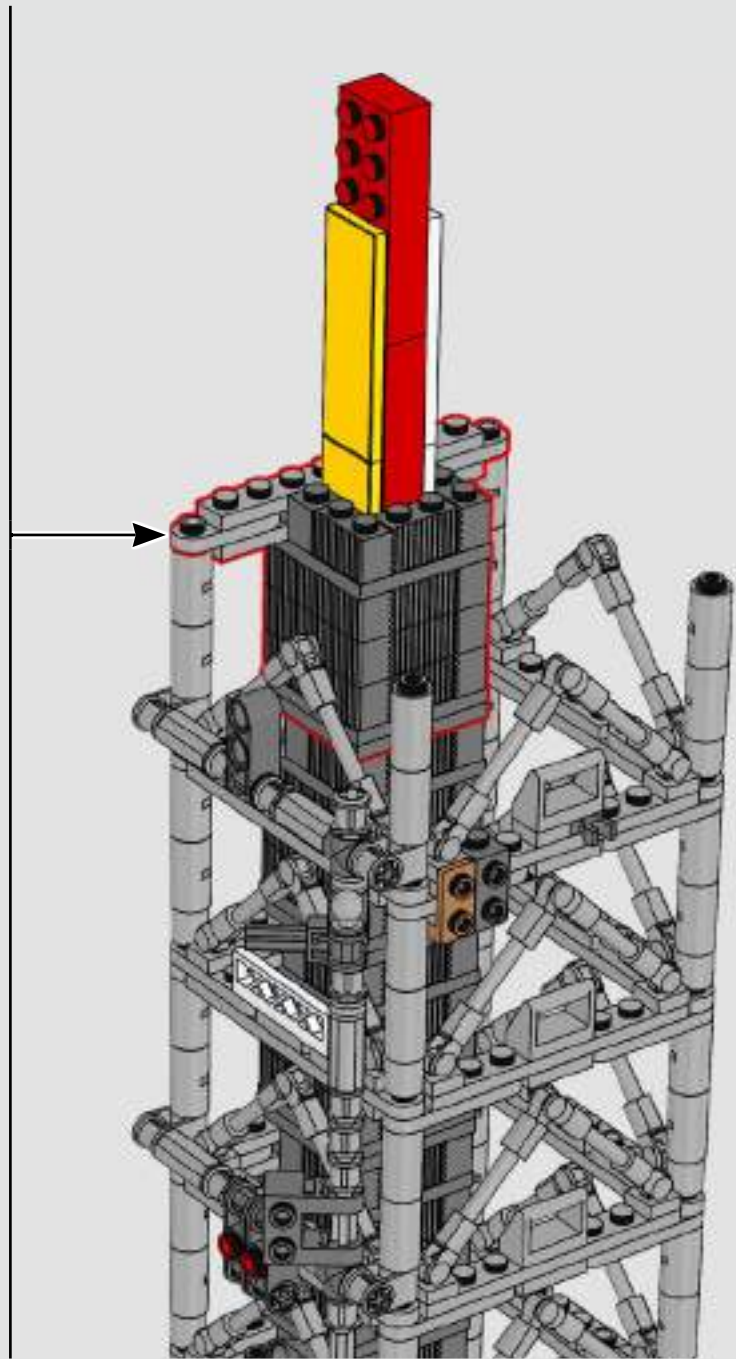
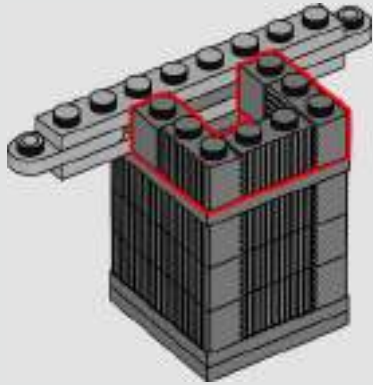


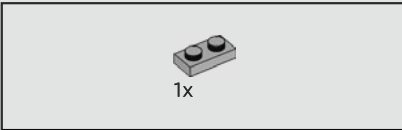
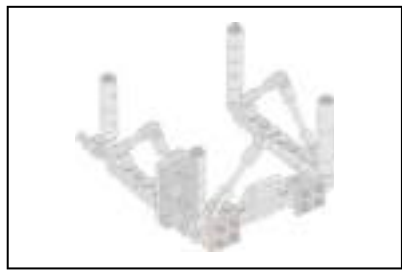


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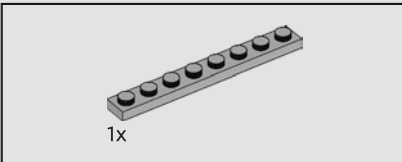
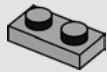


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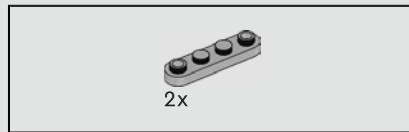




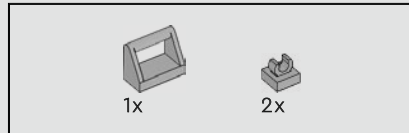
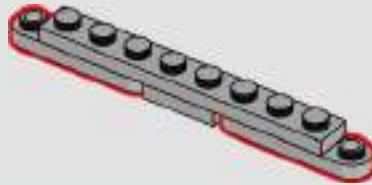
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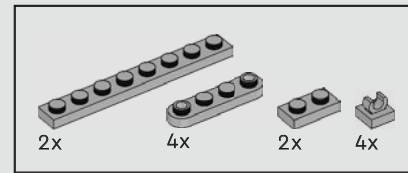
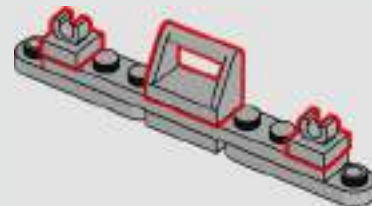
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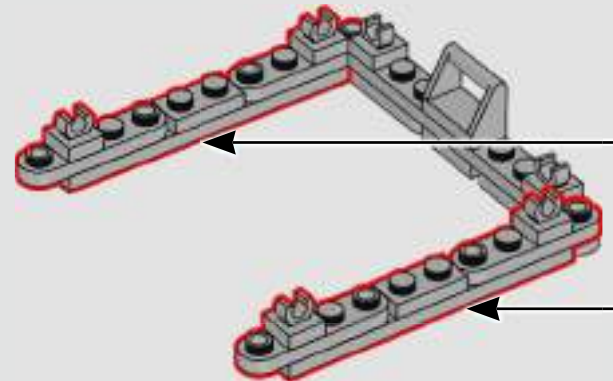
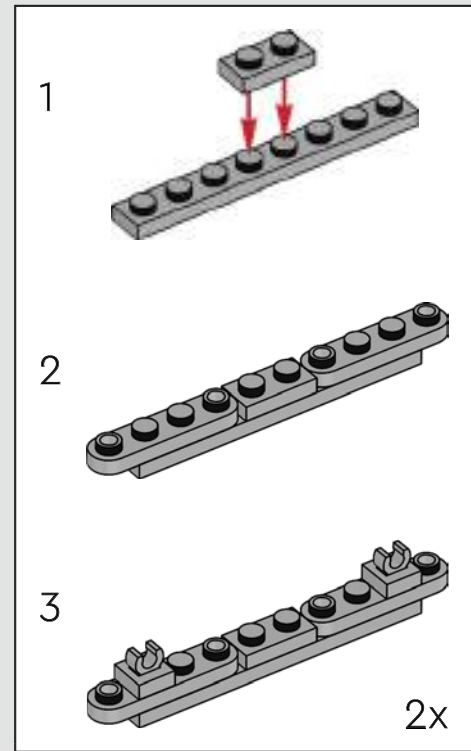
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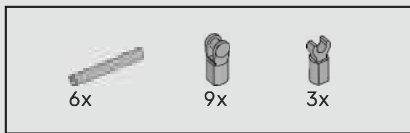


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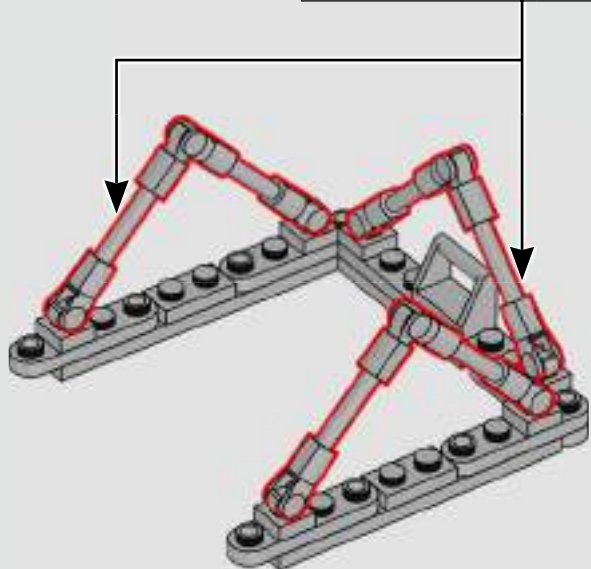
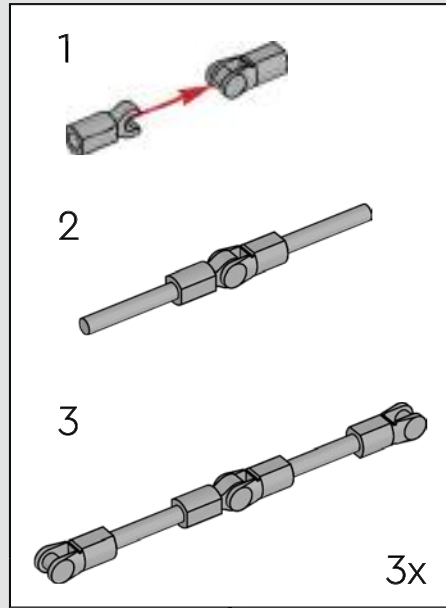


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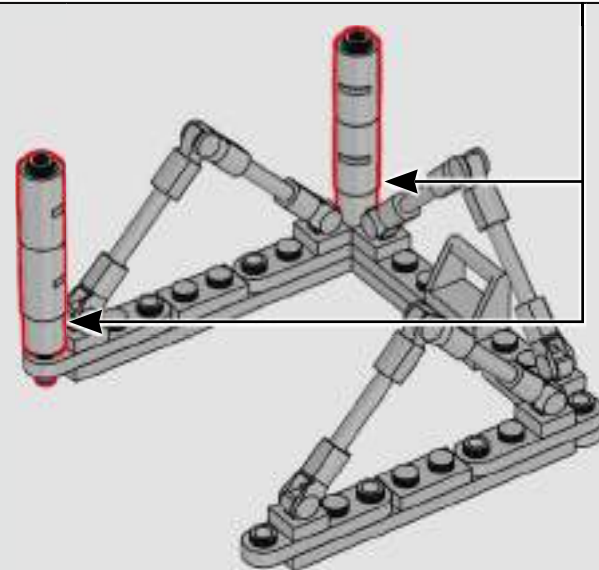
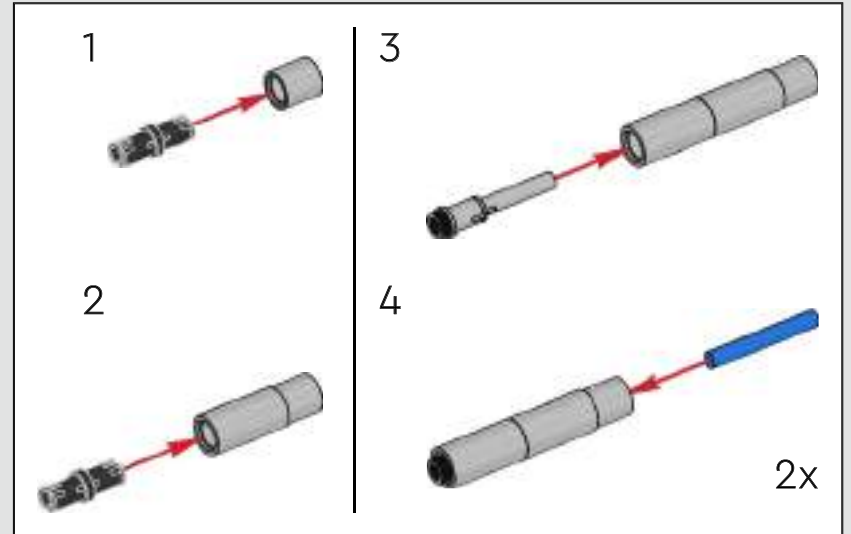


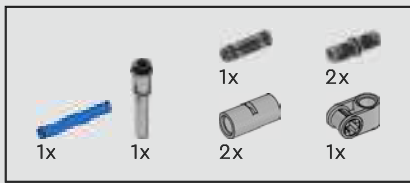


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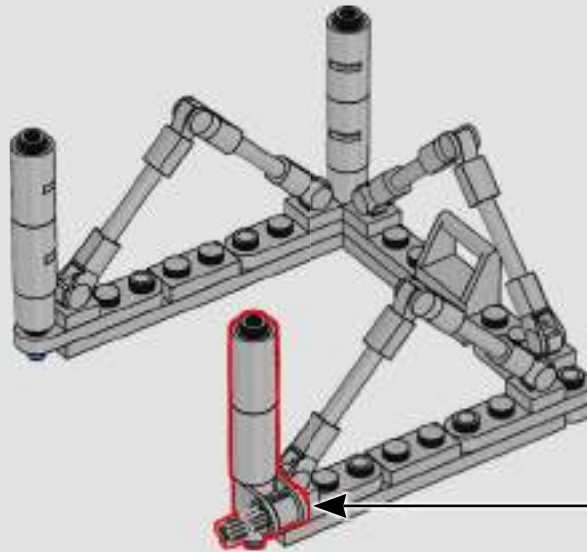
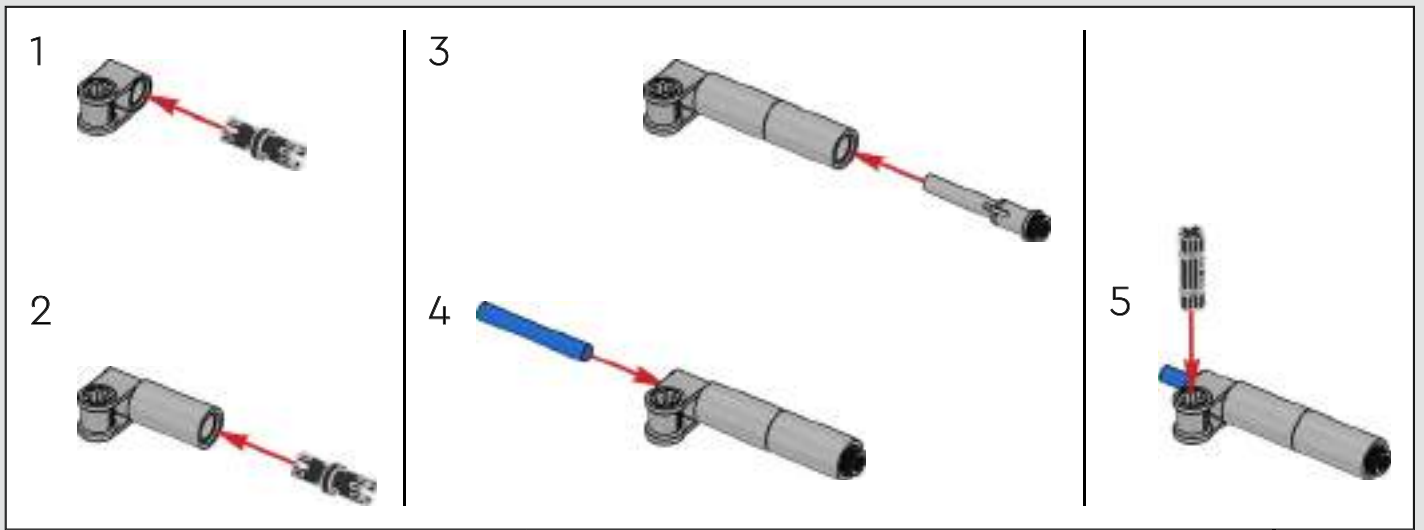


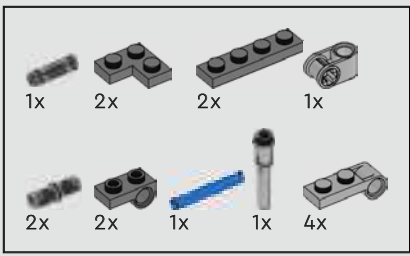
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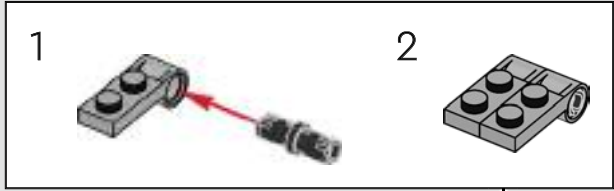
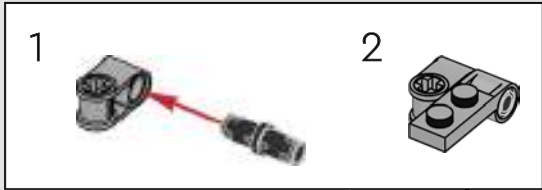
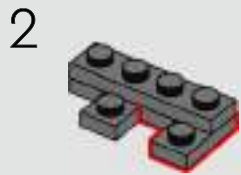
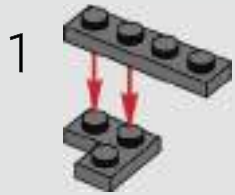


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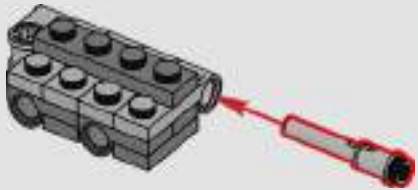
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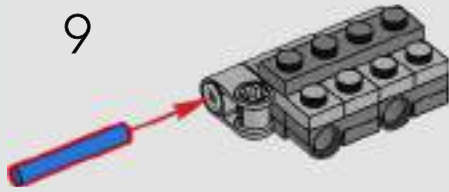
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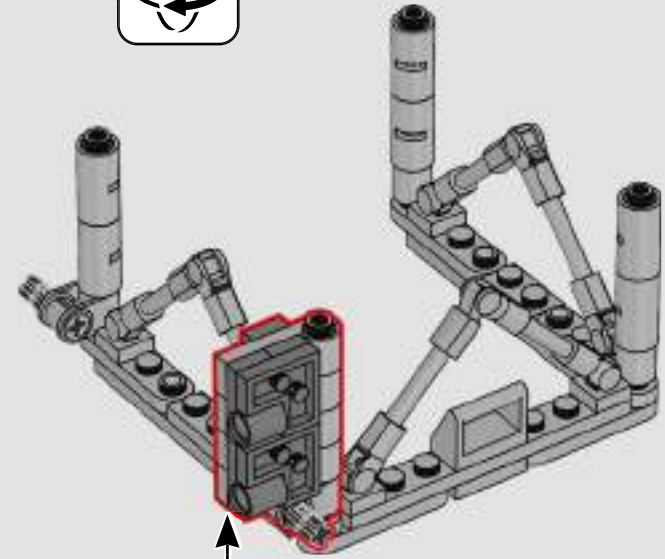
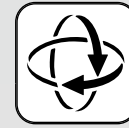
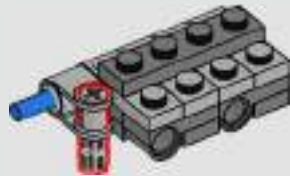
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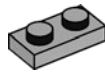
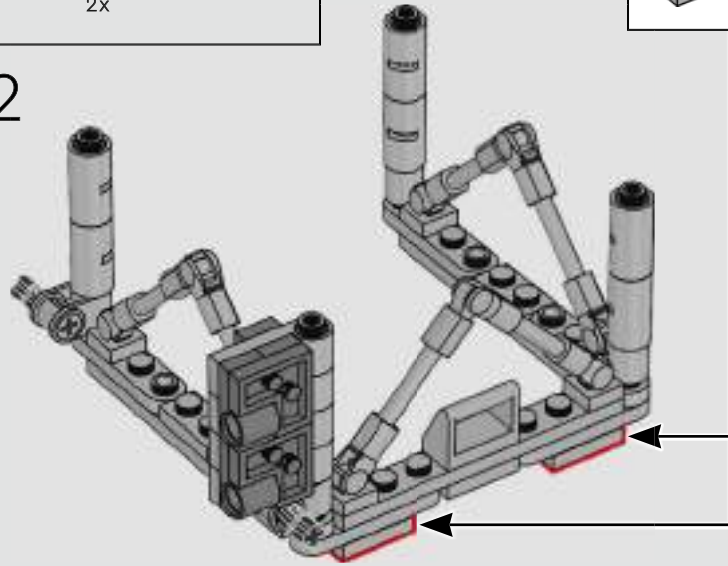
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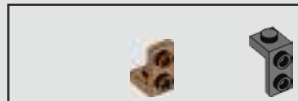


2x

322



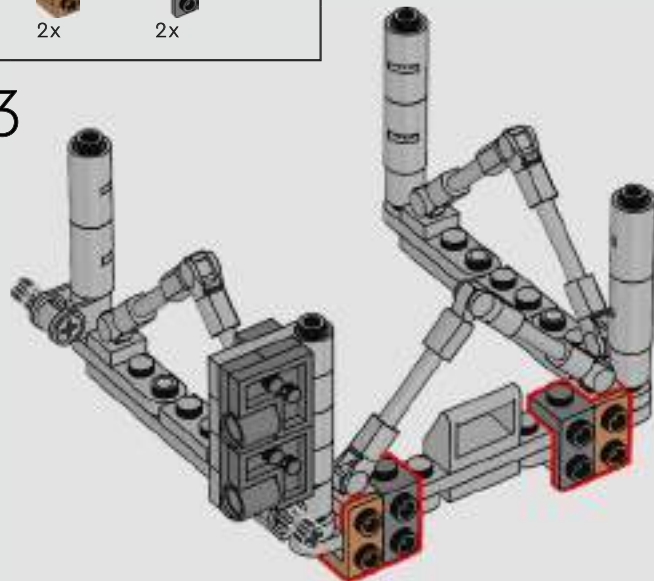
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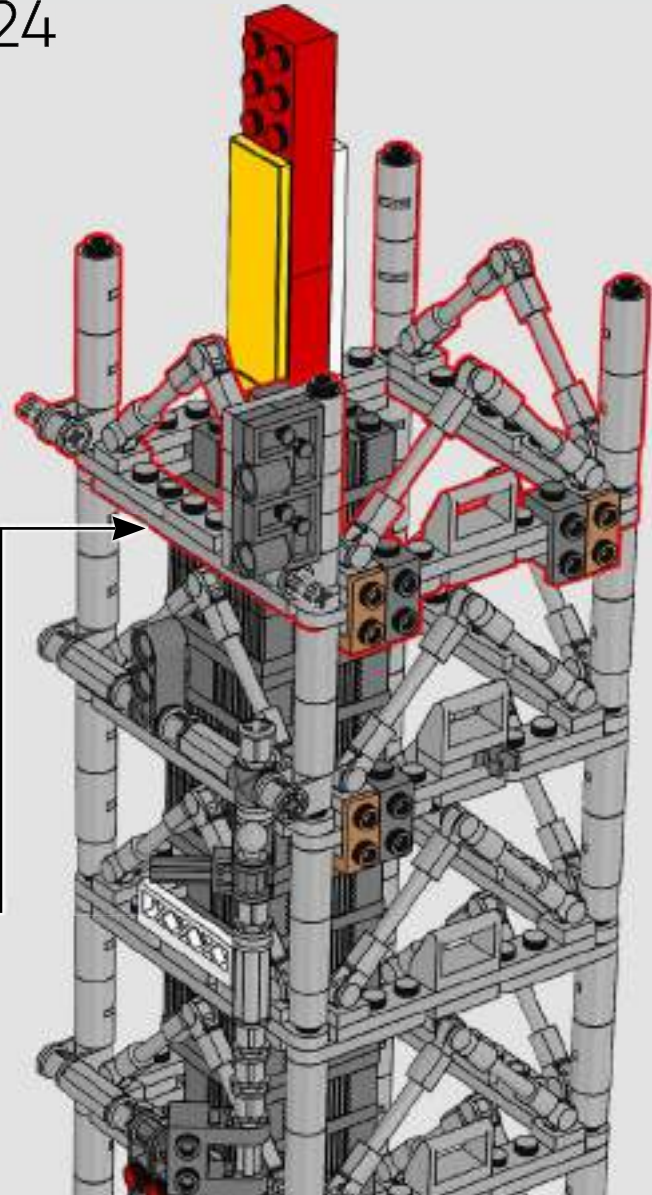
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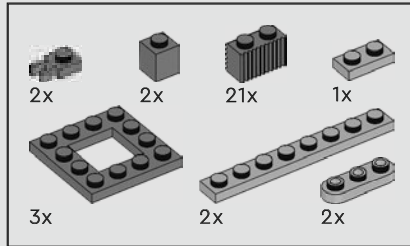
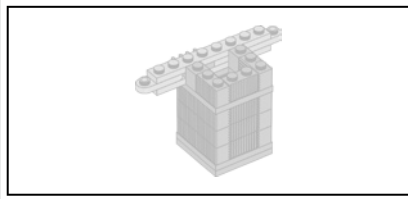
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323



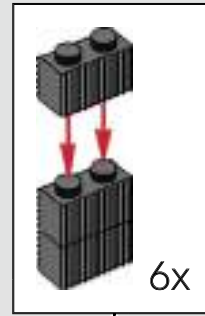
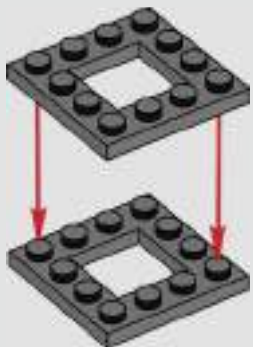
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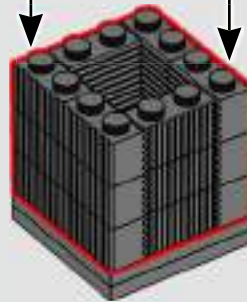


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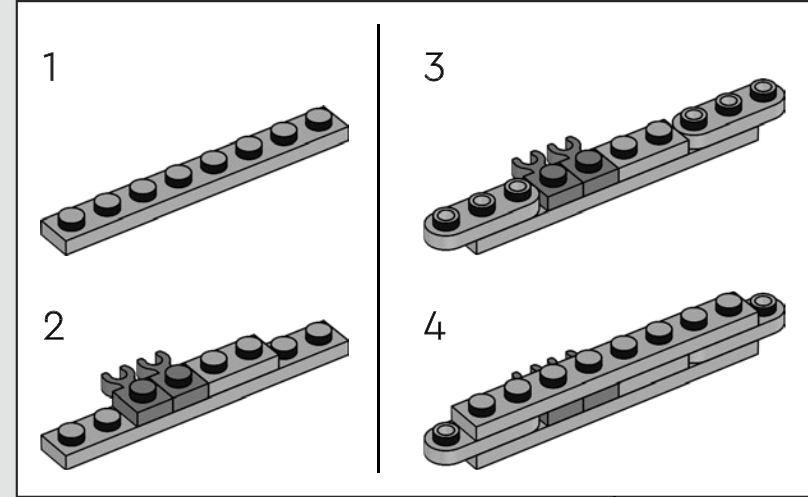
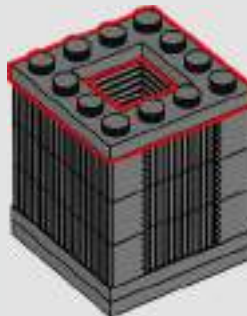
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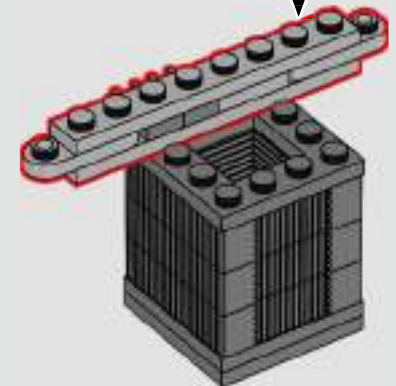
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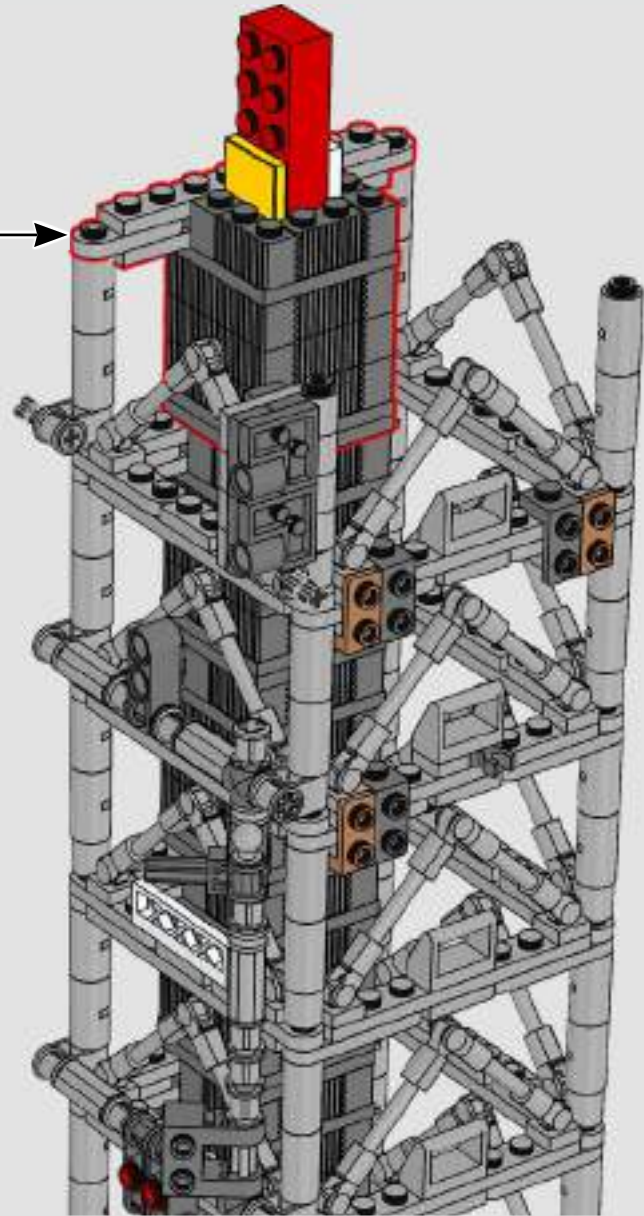
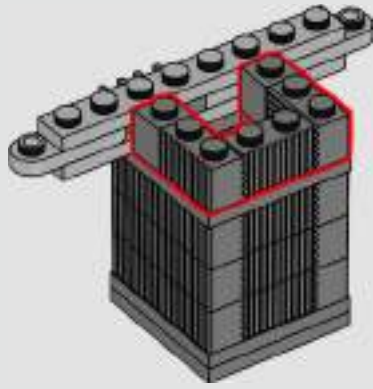
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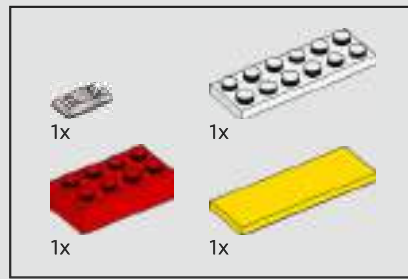


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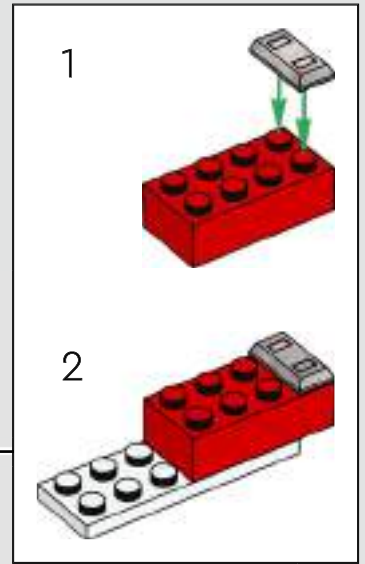
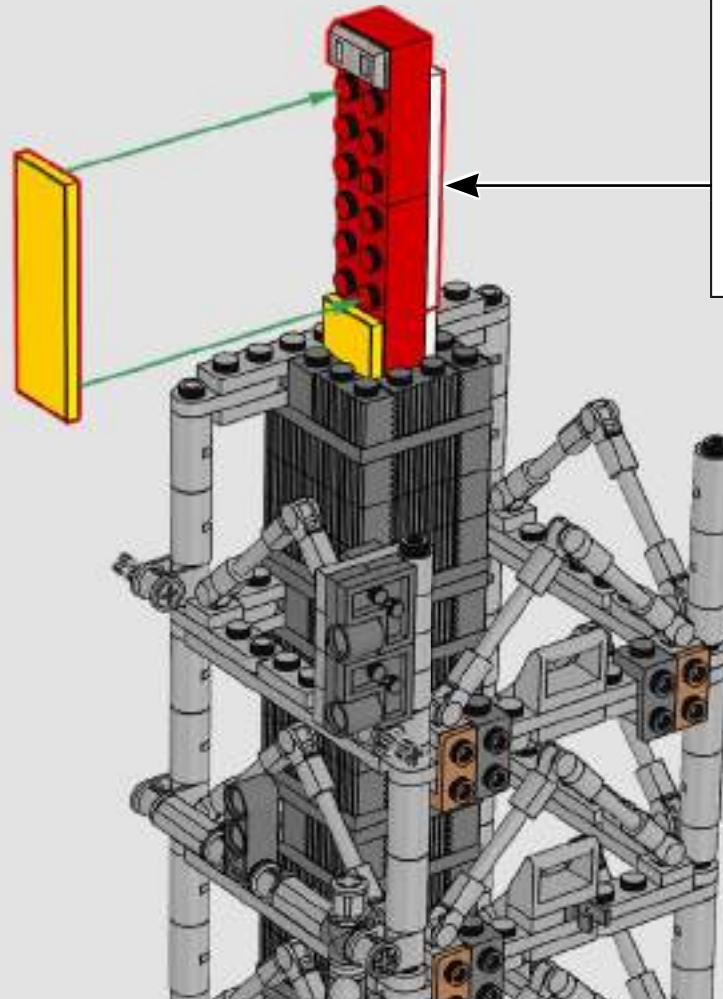


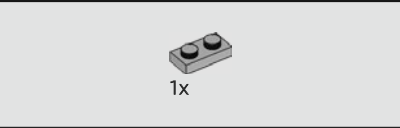
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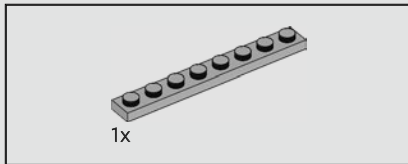
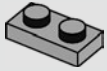
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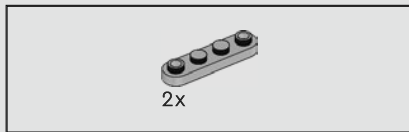
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327



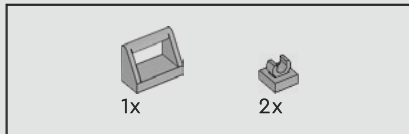
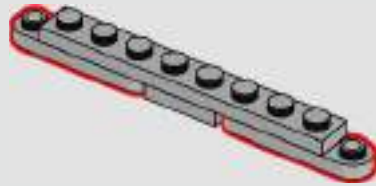
1x

328



2x

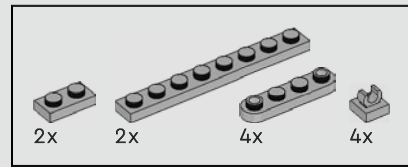
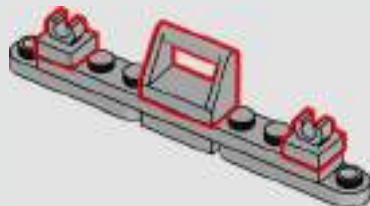
329



1x

2x

330



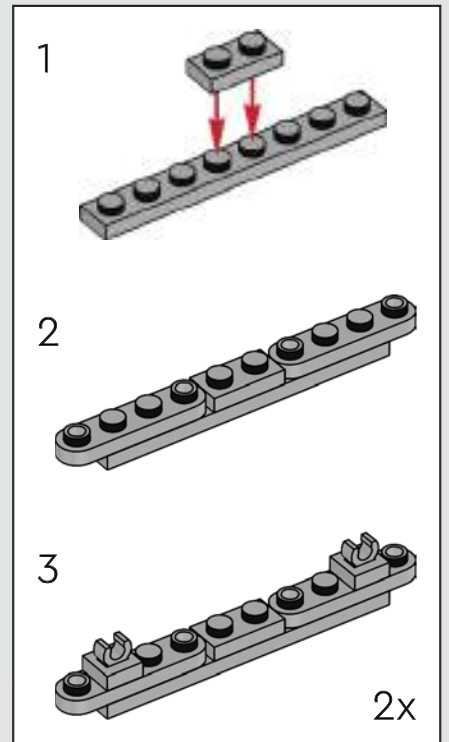
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2x

4x

4x

331

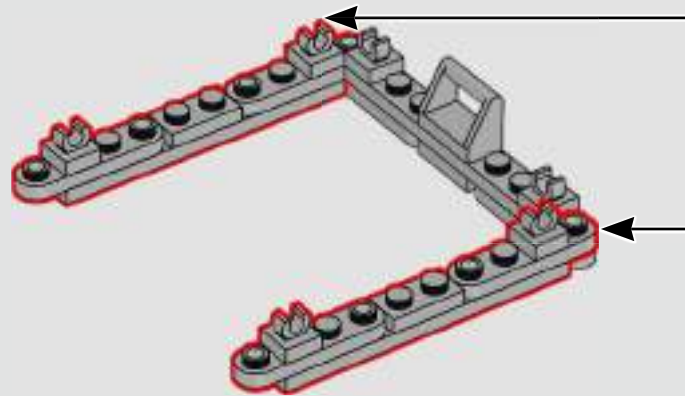


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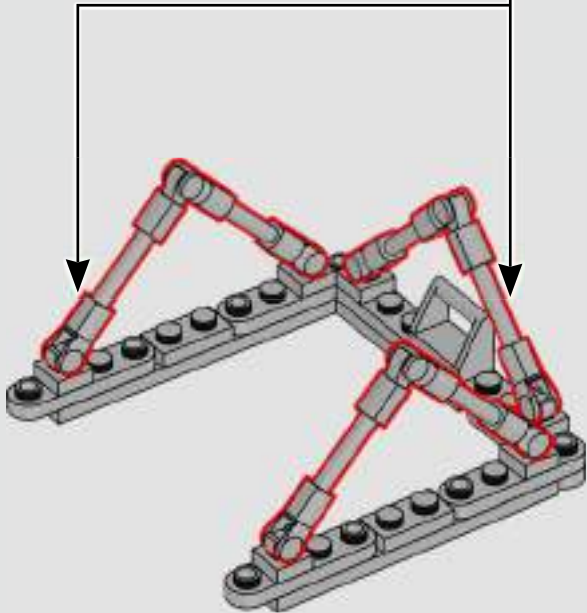
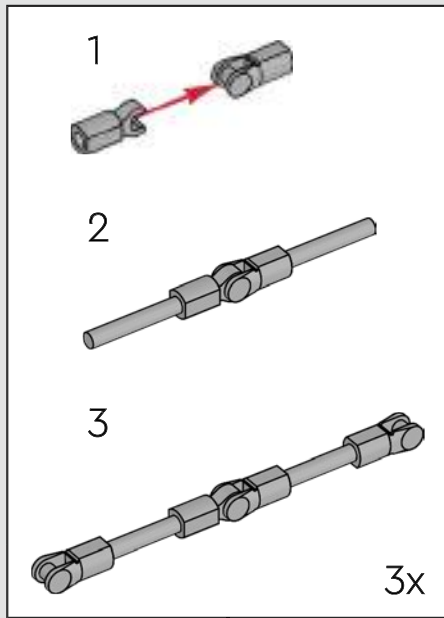
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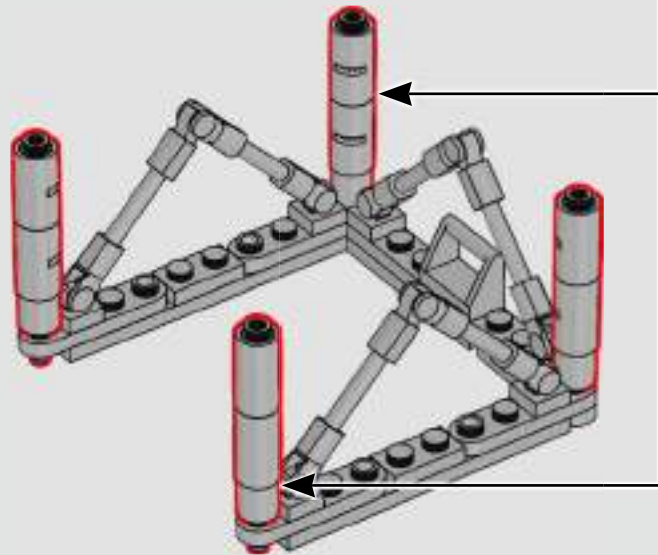
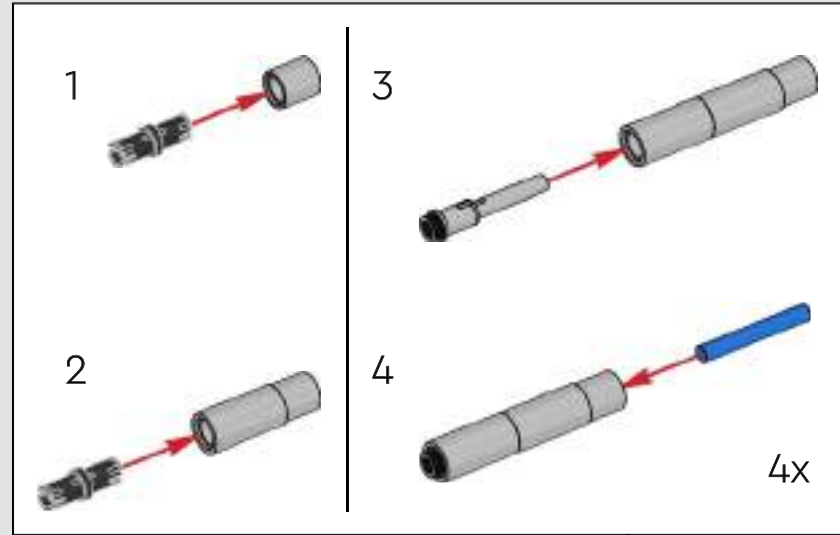




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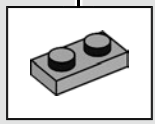
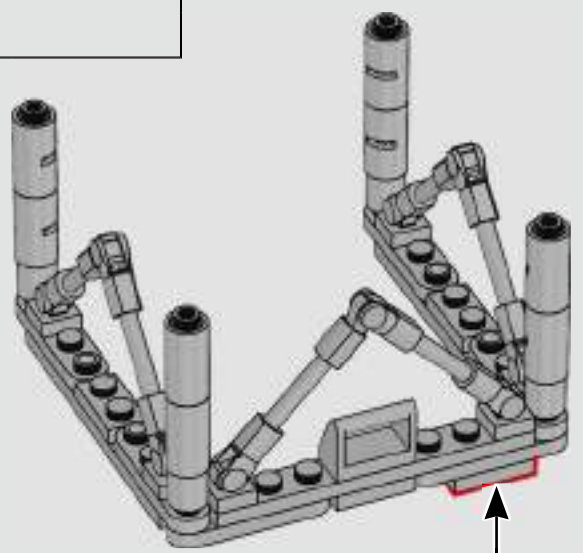
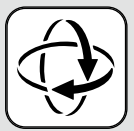
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1x

334

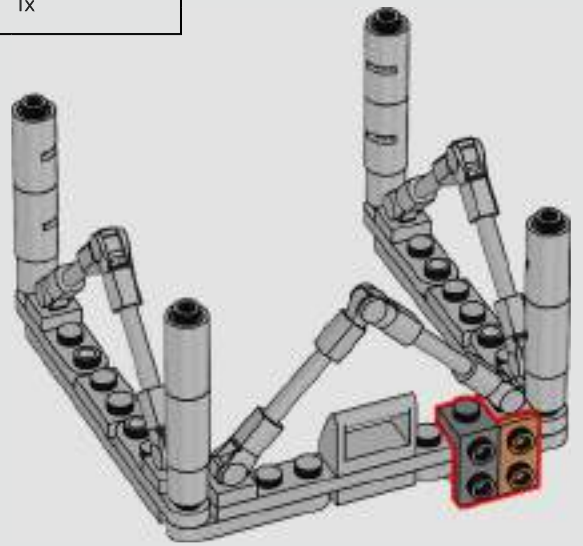


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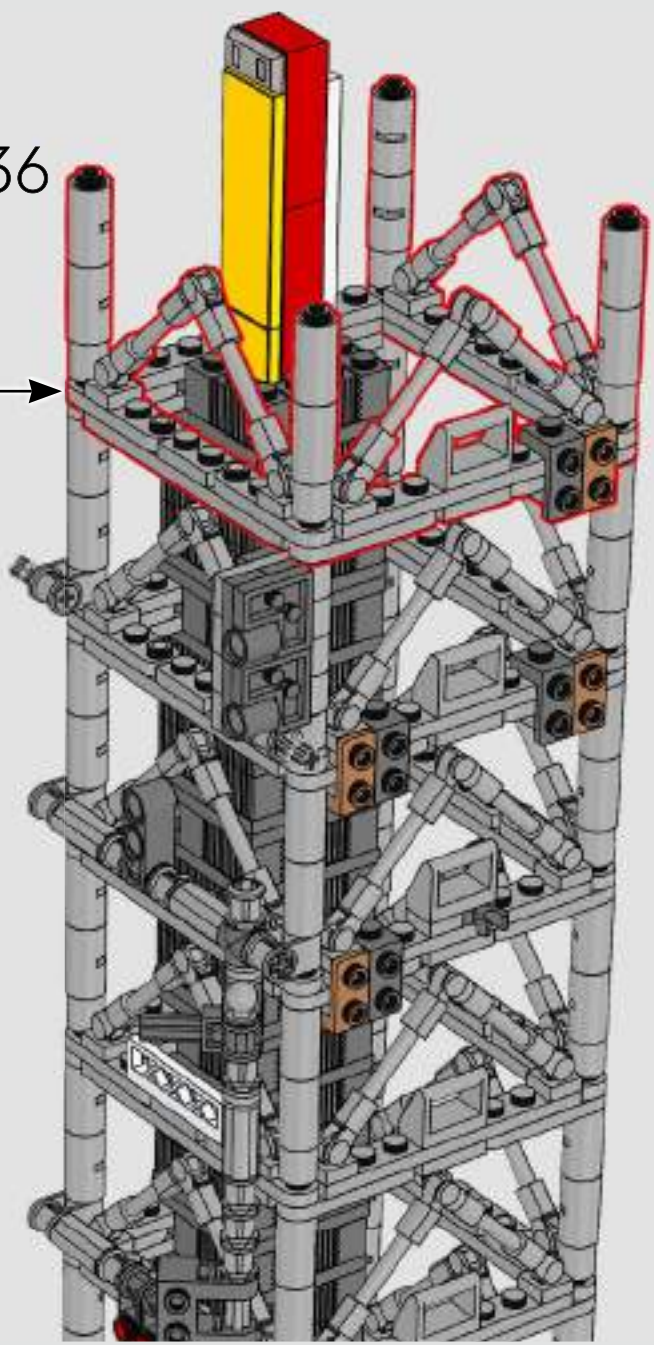


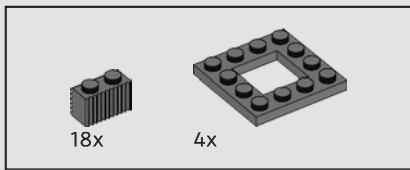
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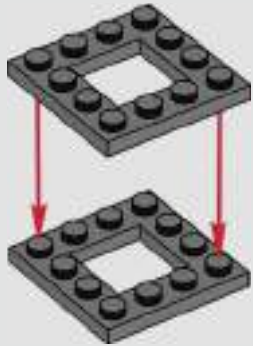
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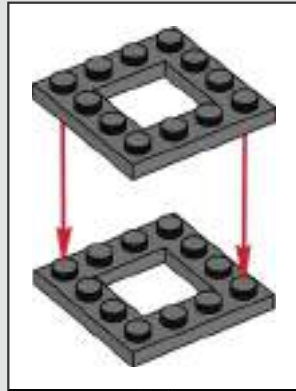
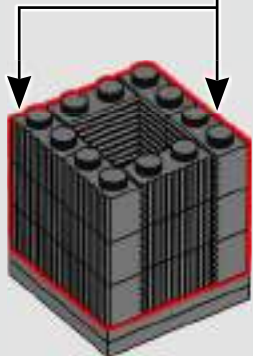
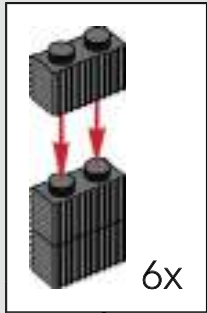


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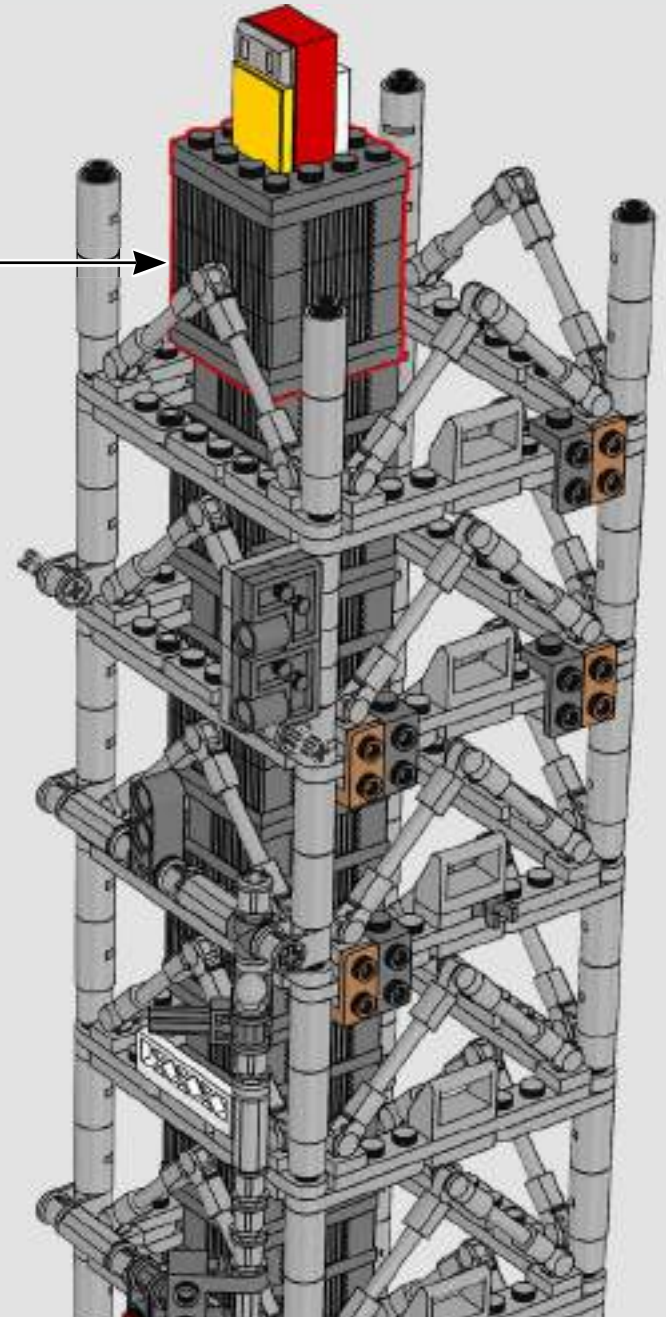
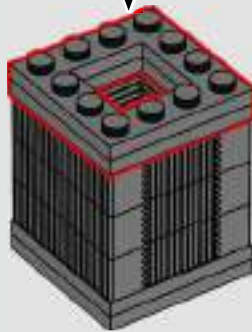
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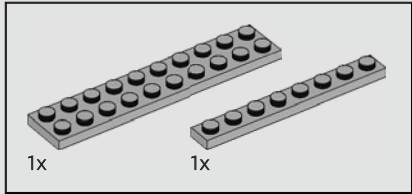
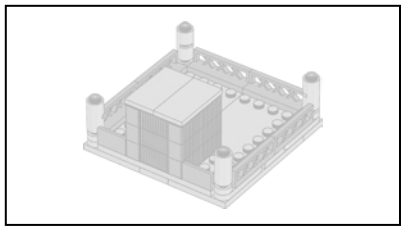


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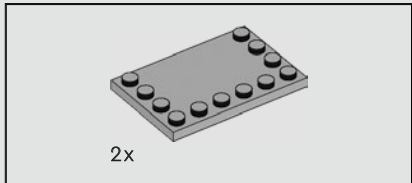
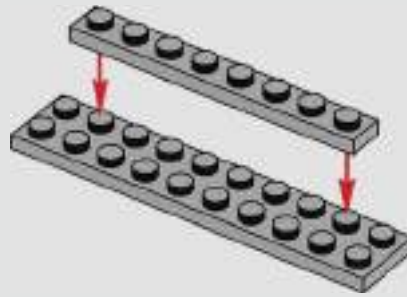


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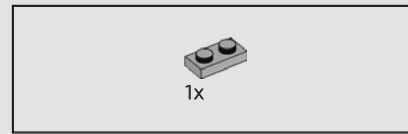
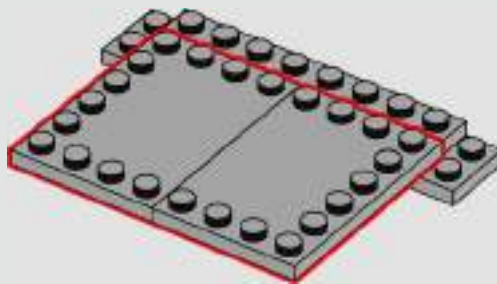




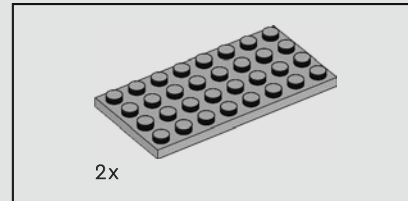
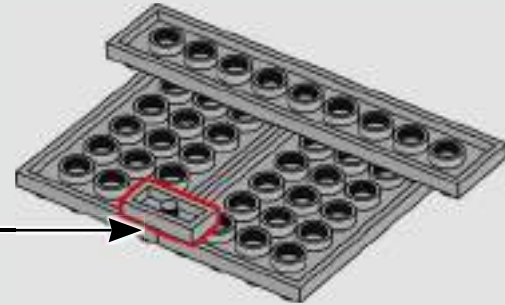
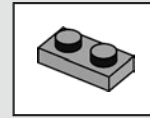
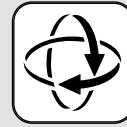
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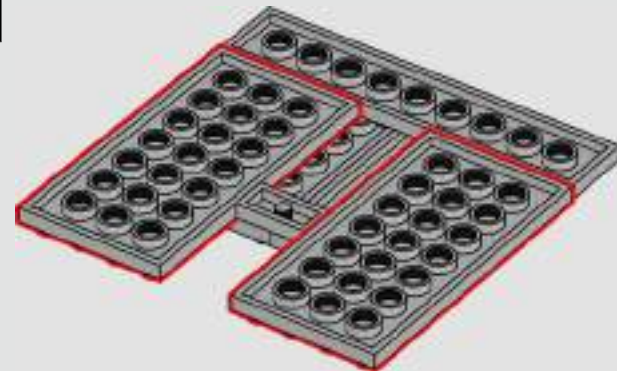
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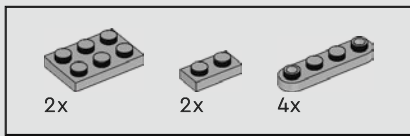


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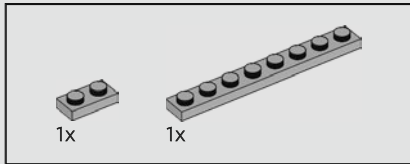
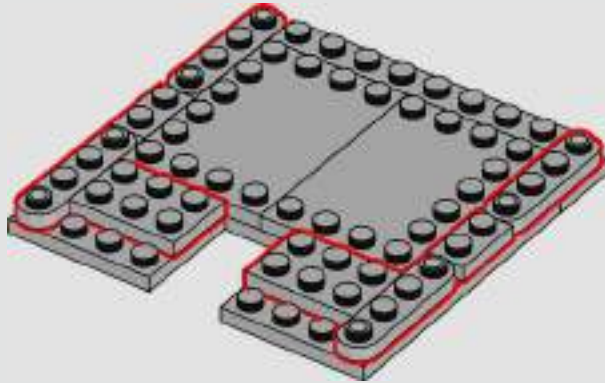


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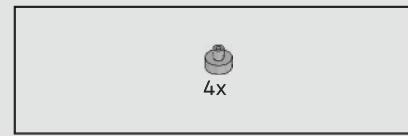
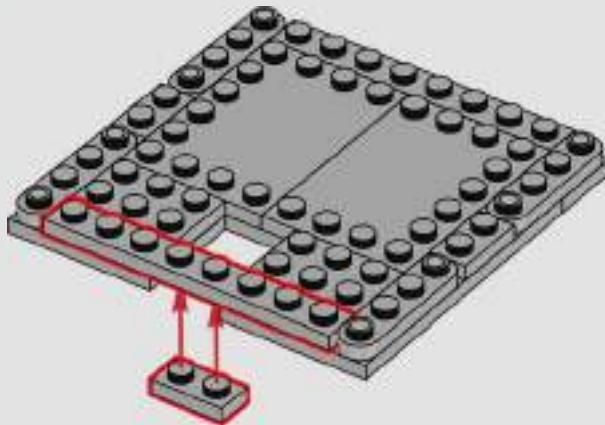




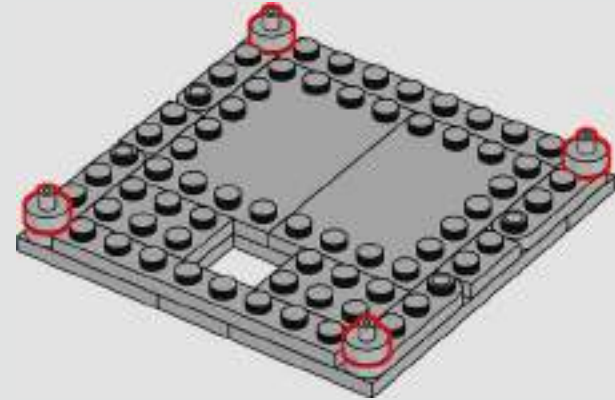
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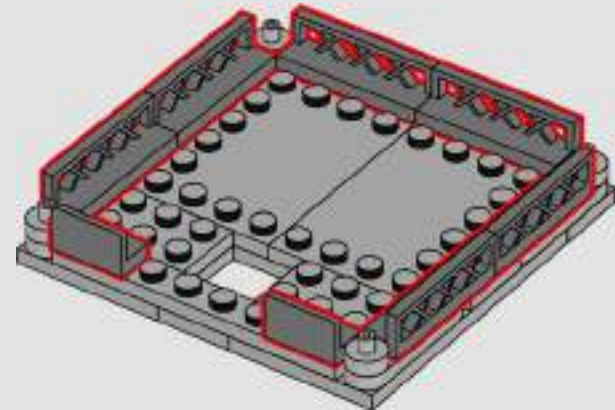
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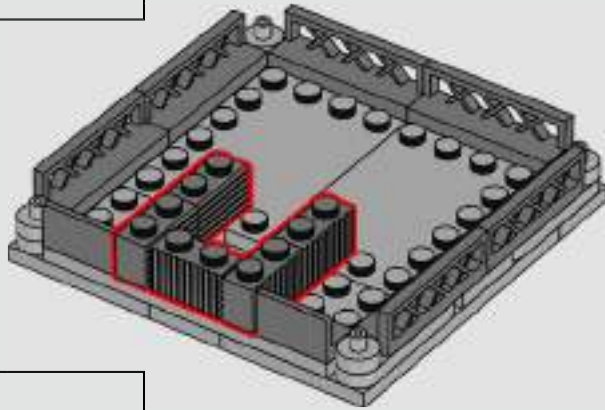
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5x

346



5x



1x

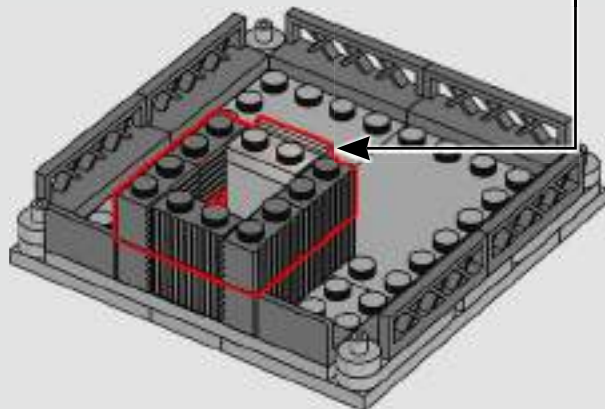
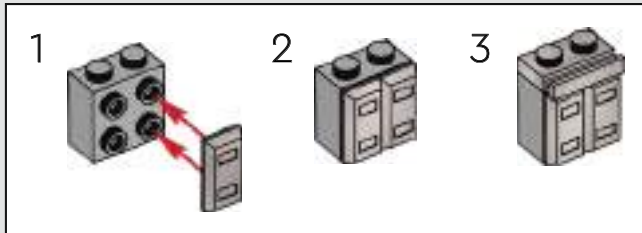


1x



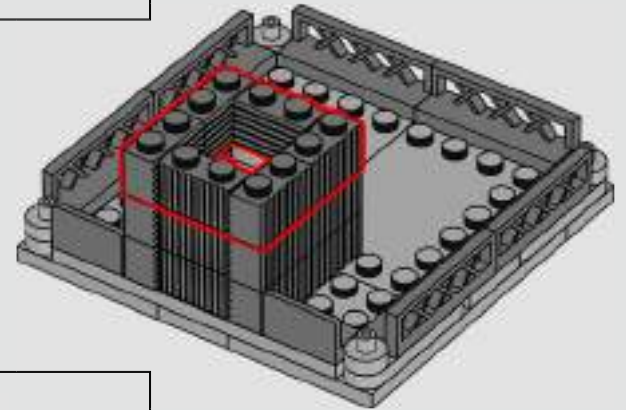
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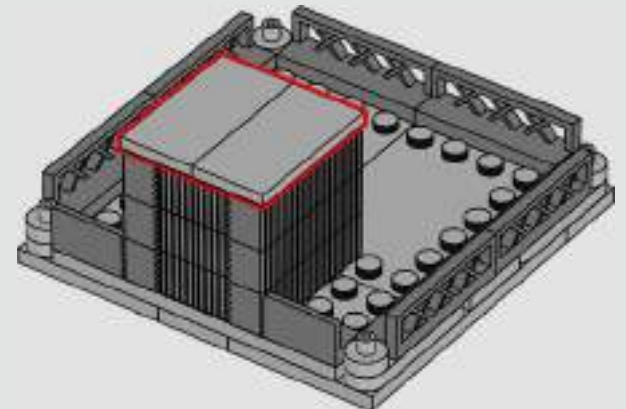
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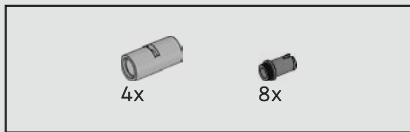
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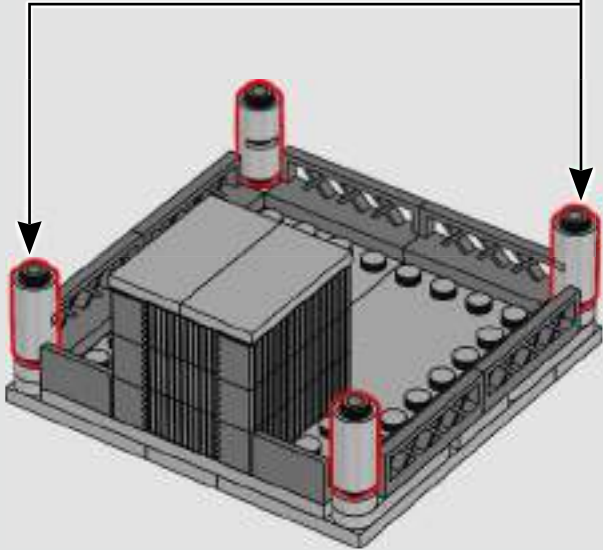
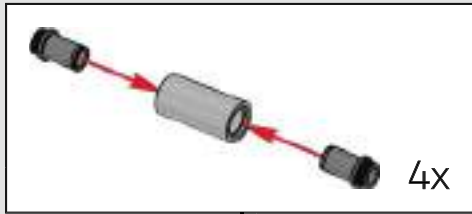
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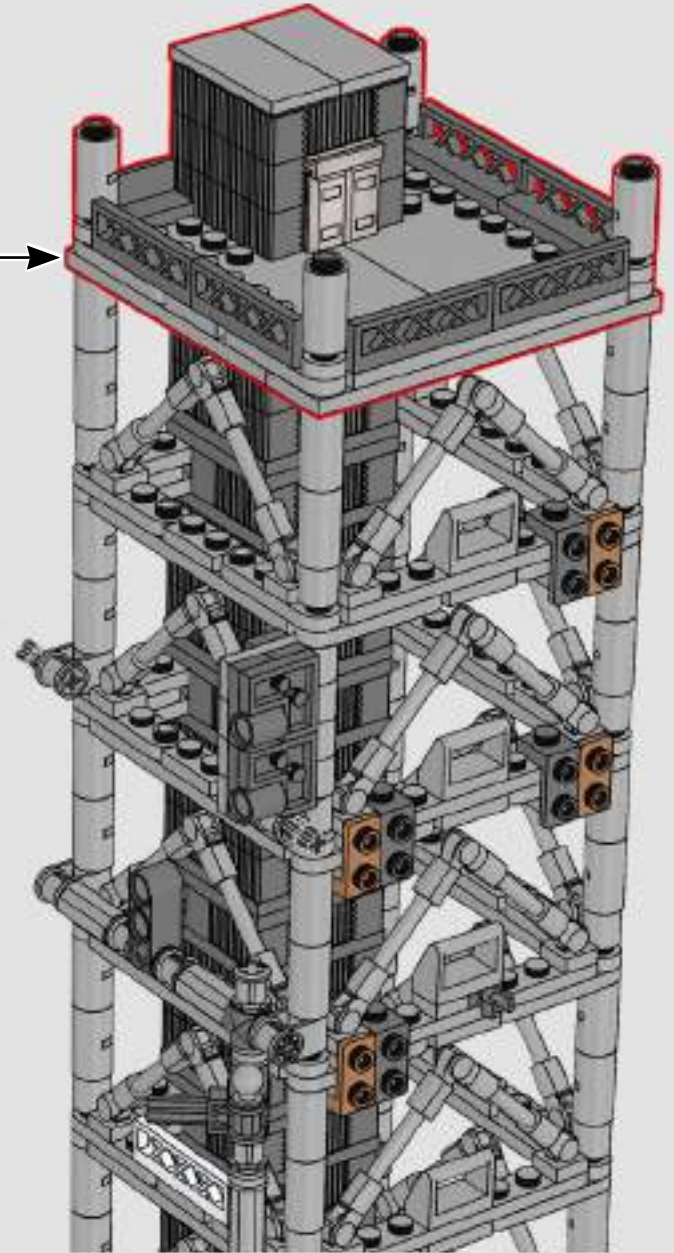


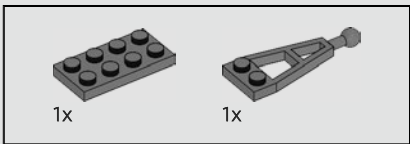
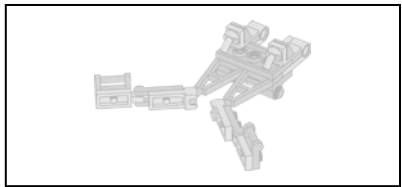


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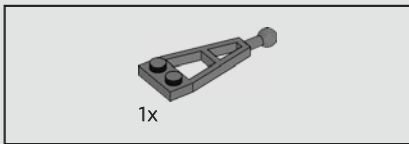
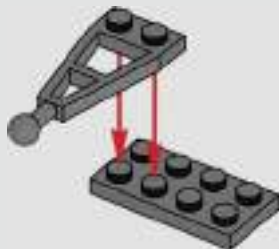


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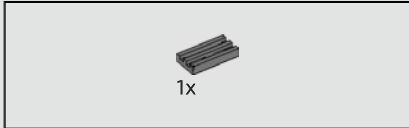




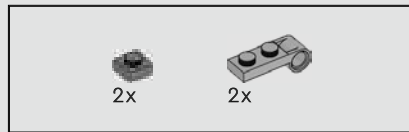
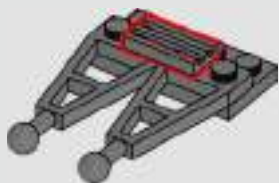
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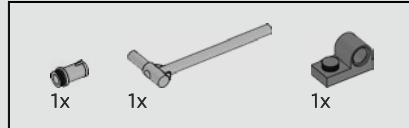
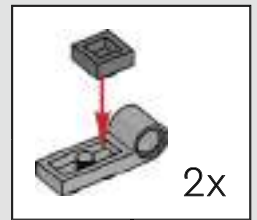
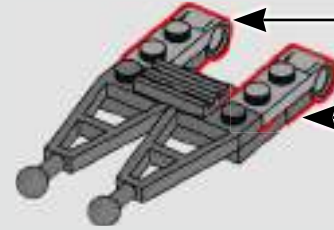
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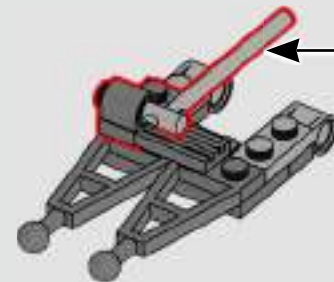
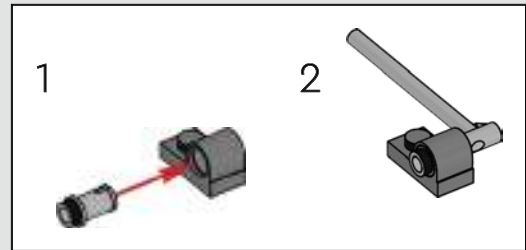
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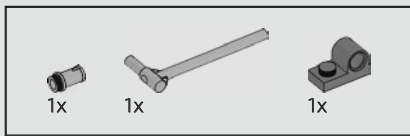


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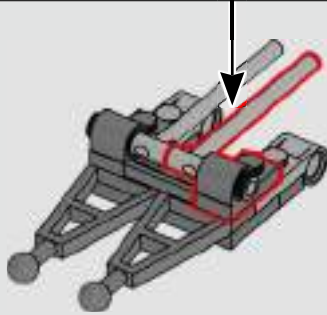
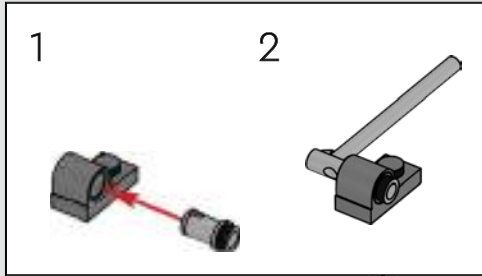


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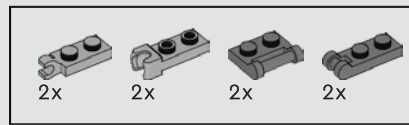
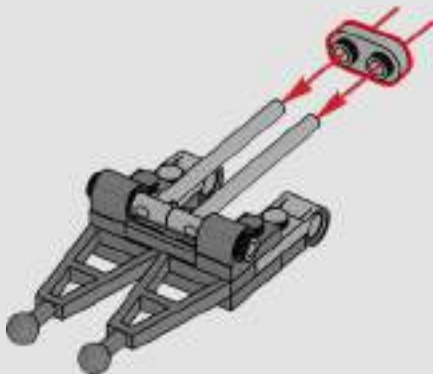




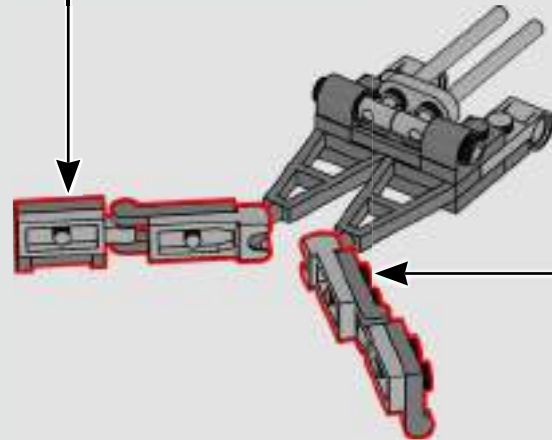
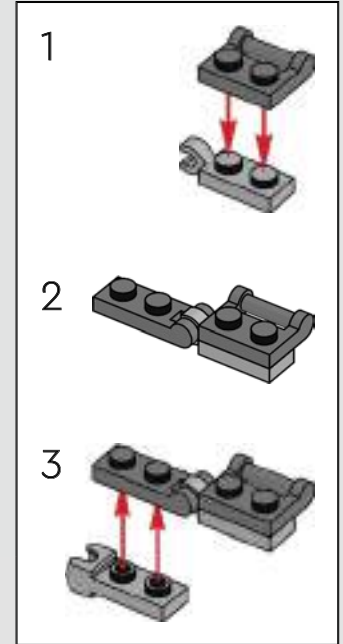
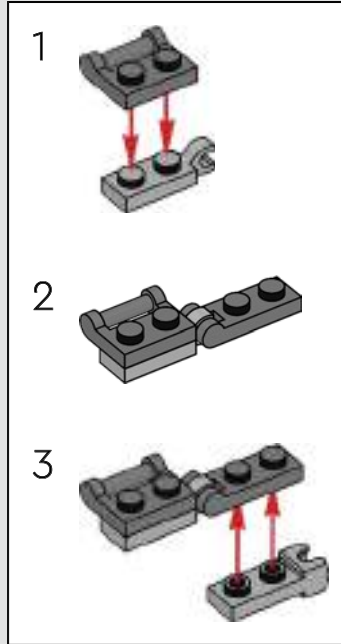
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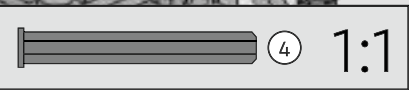
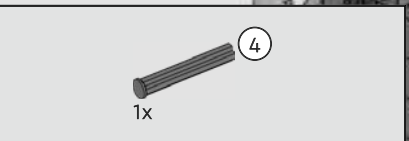
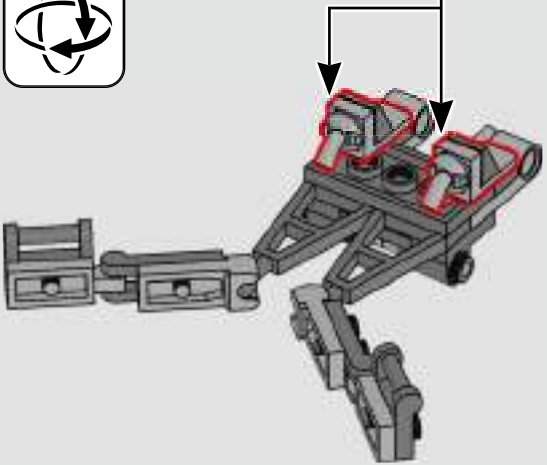
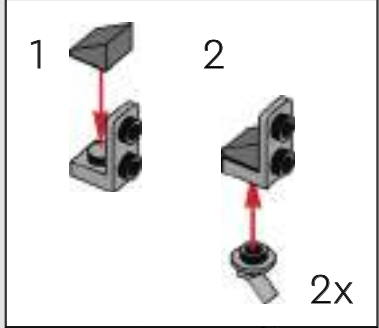


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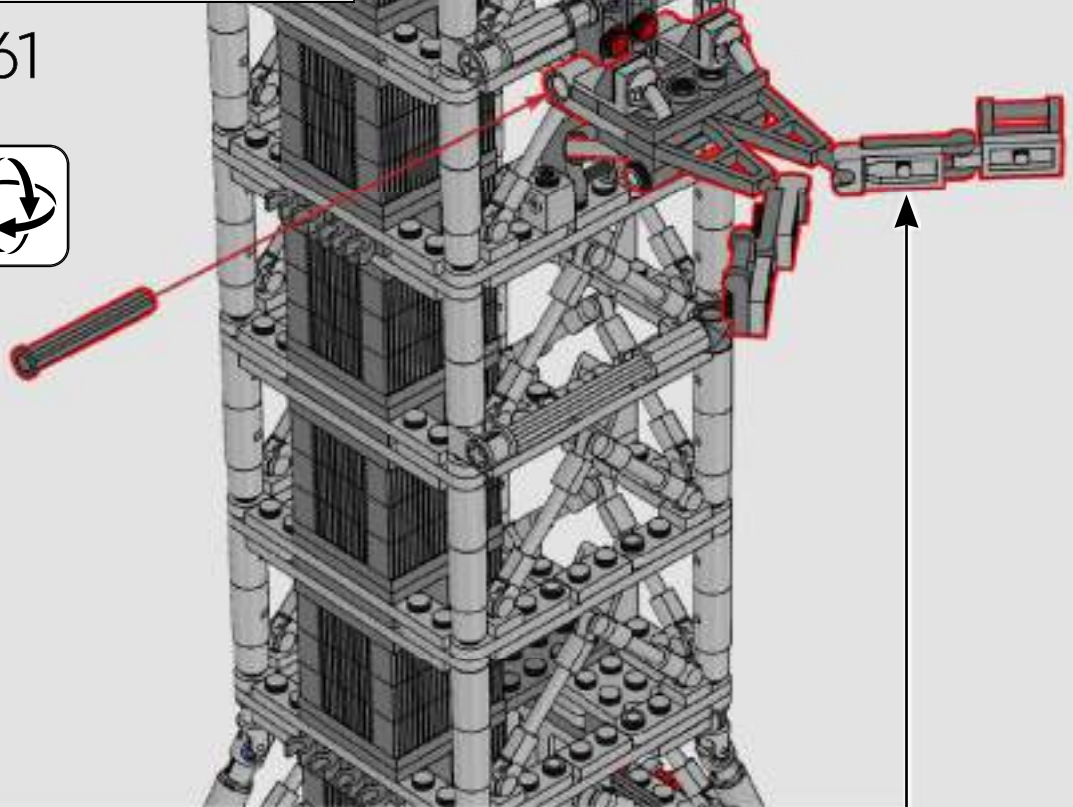


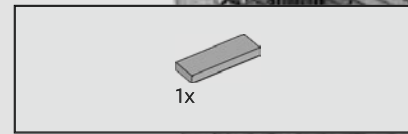
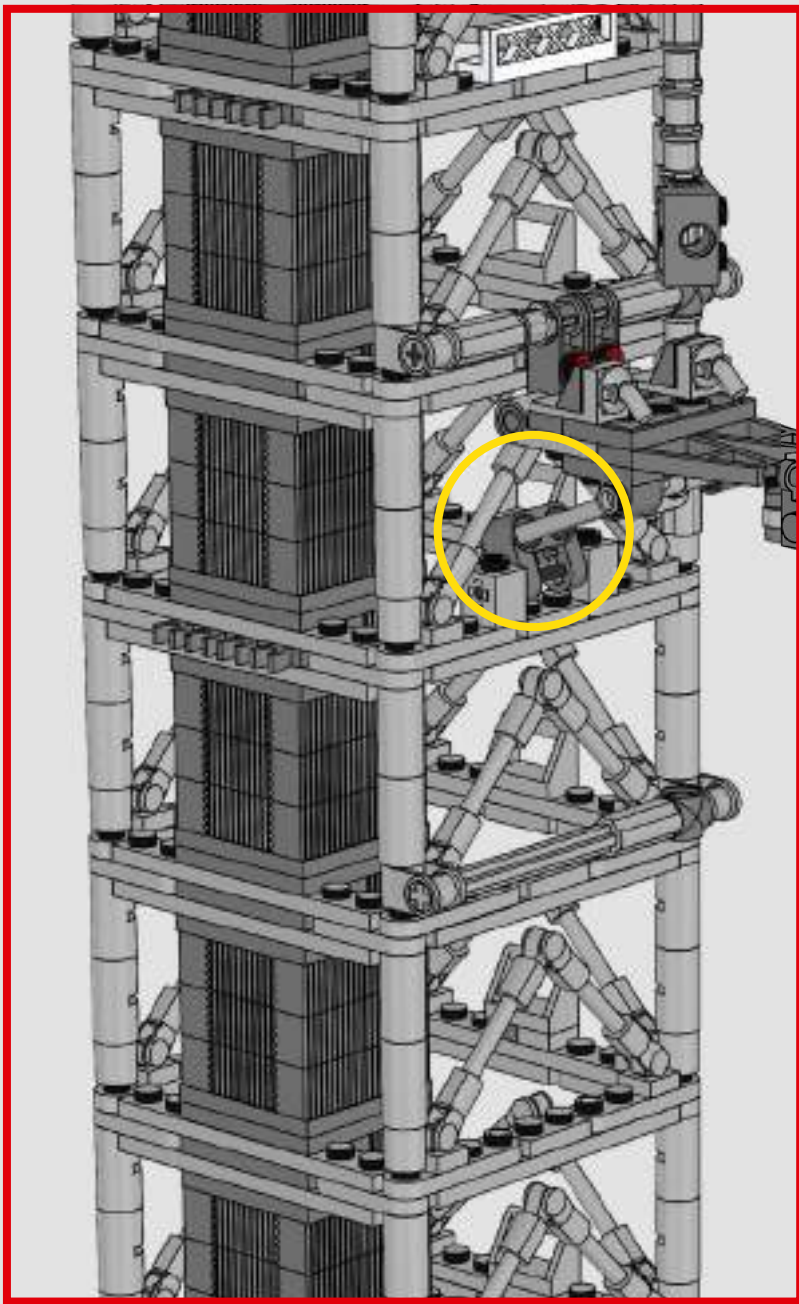


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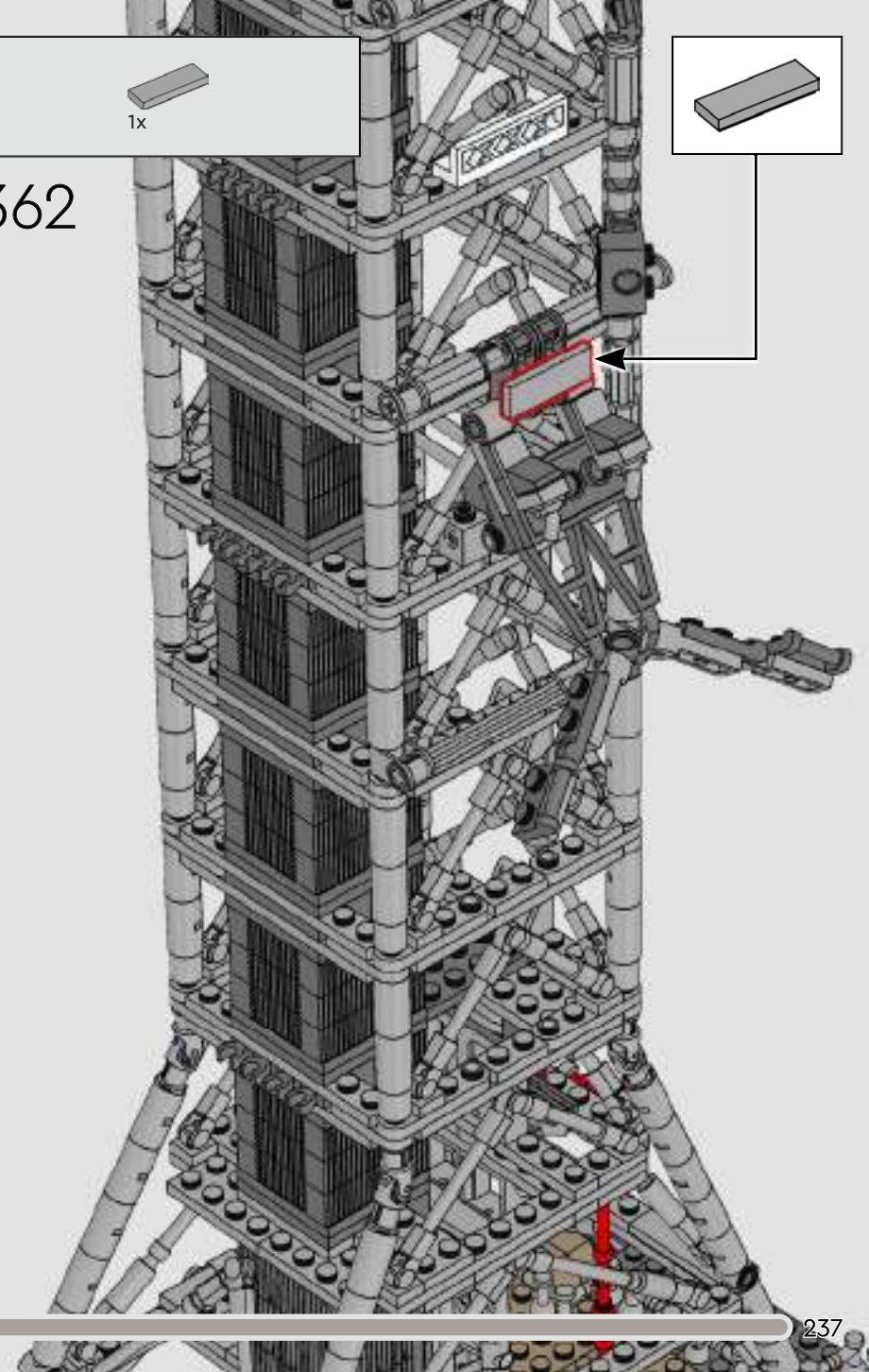
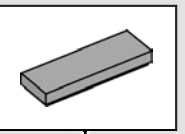


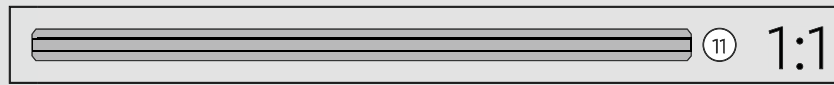
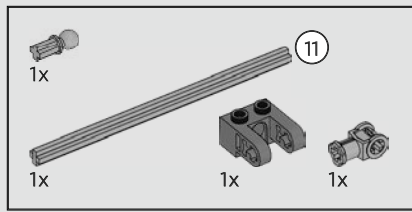
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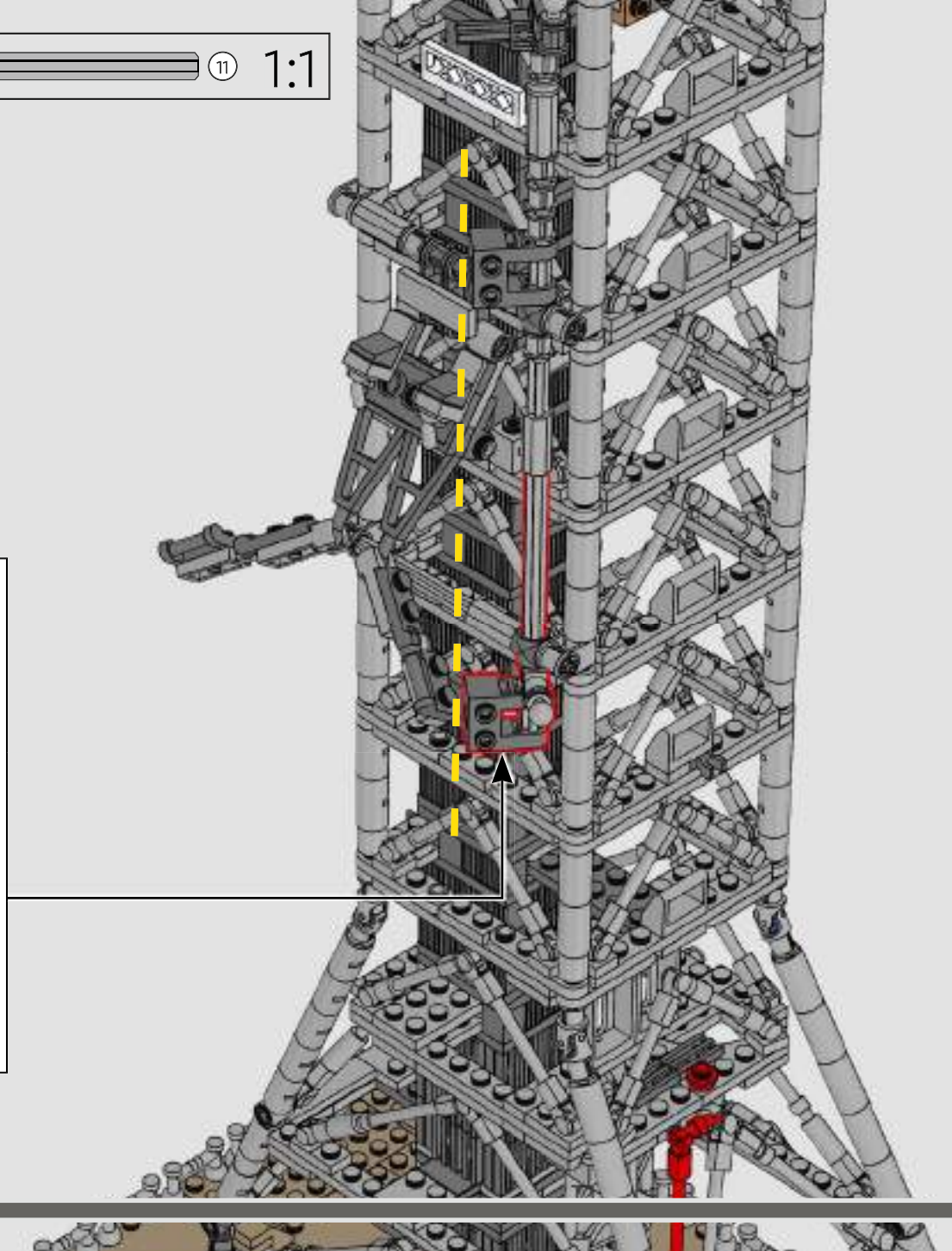
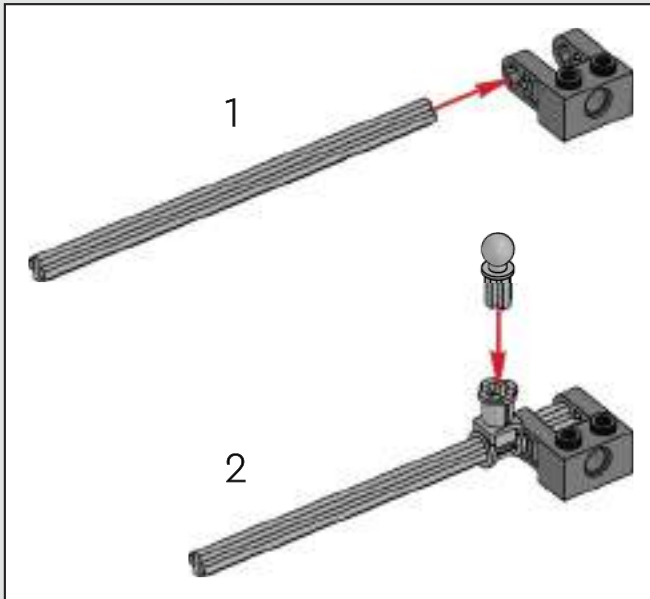


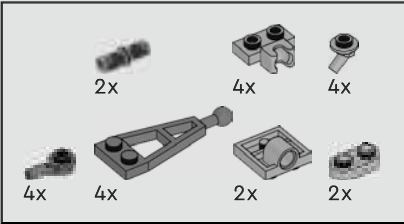
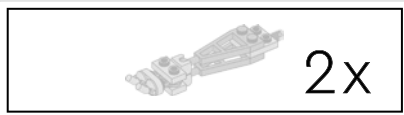
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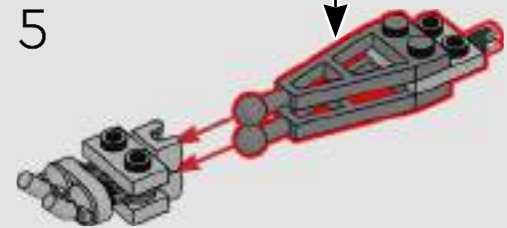
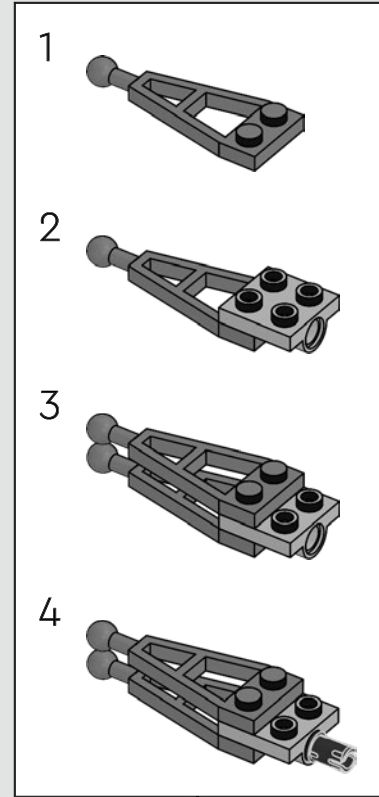
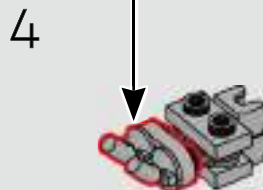
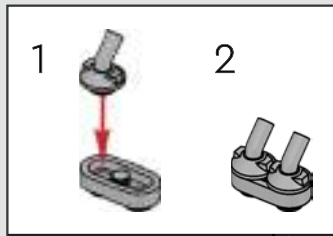


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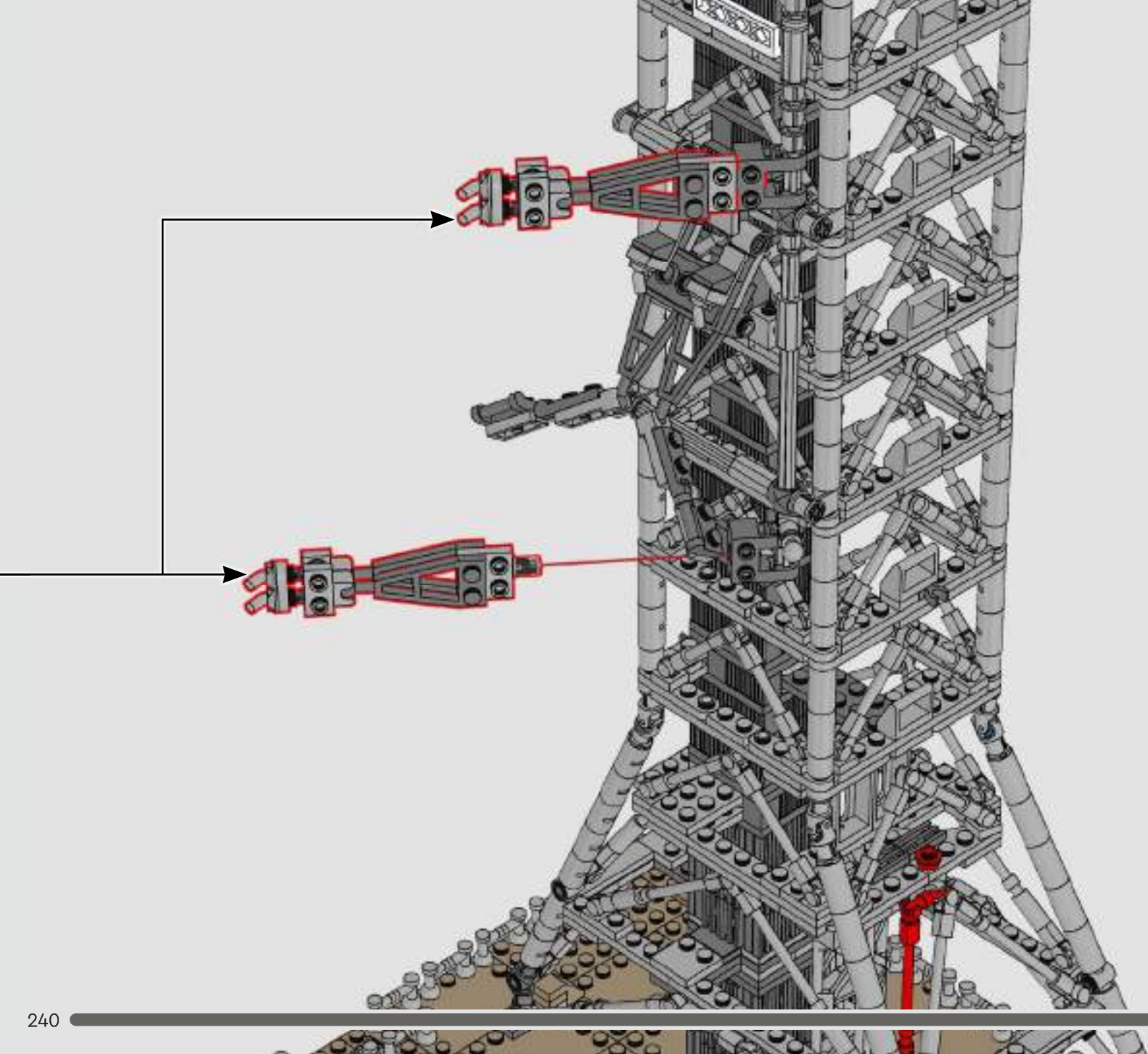


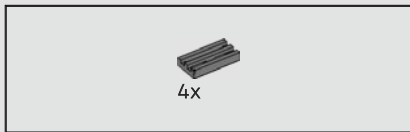


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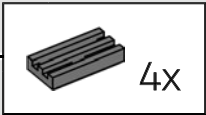
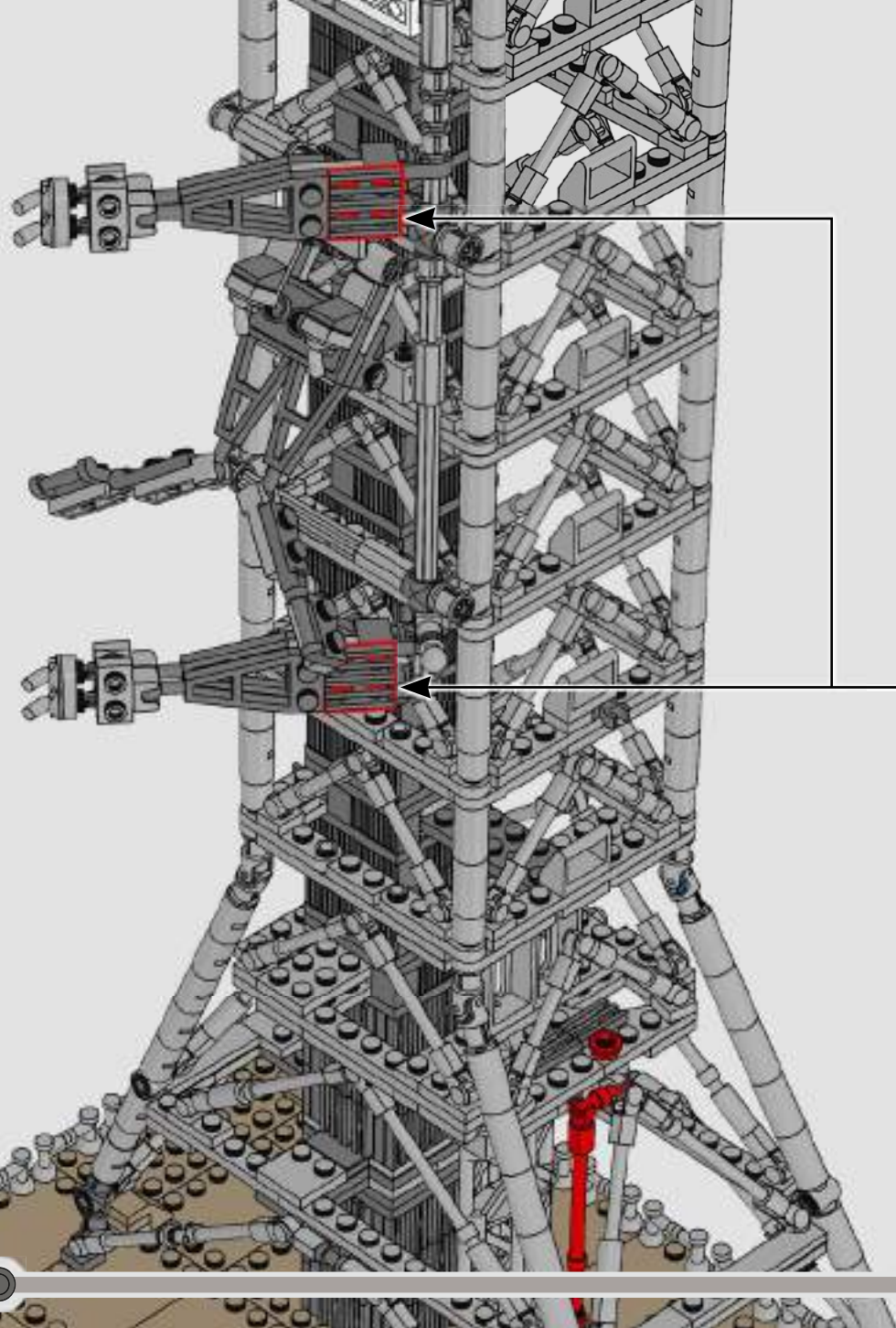


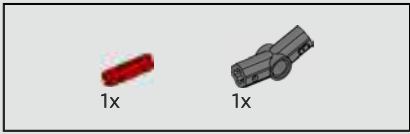
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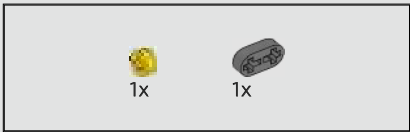
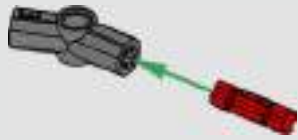


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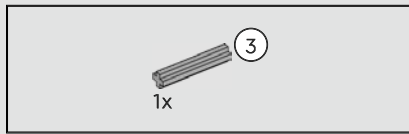
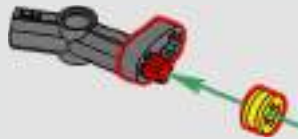




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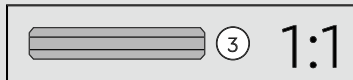
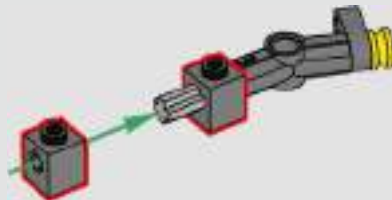
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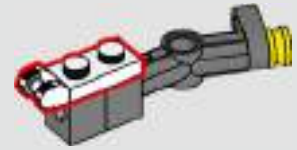
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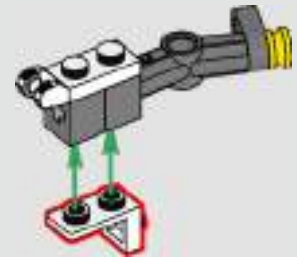
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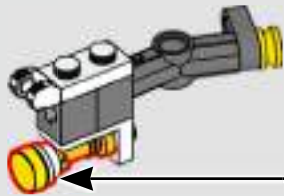
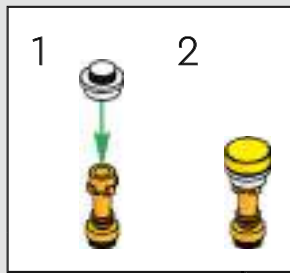


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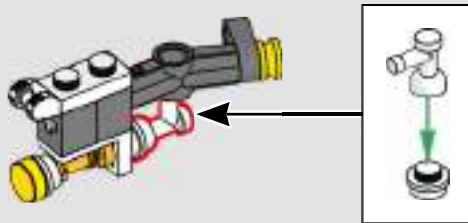




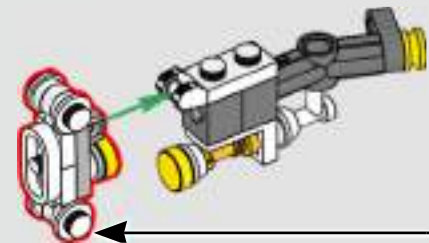
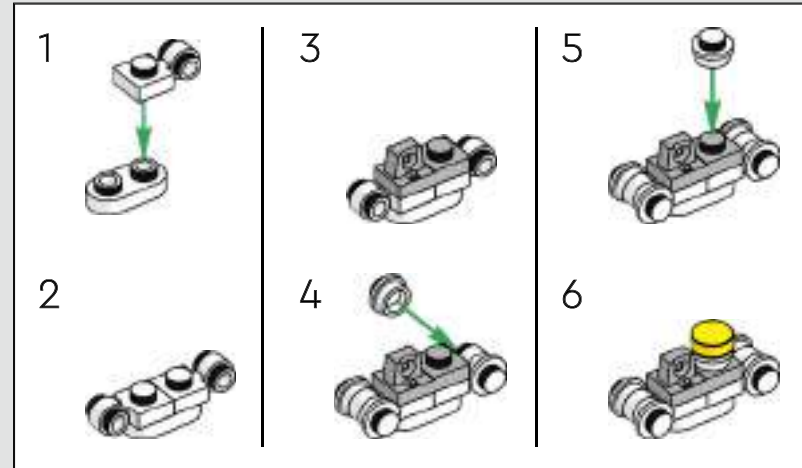
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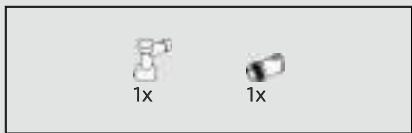


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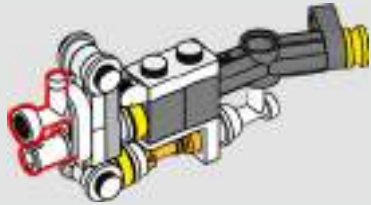


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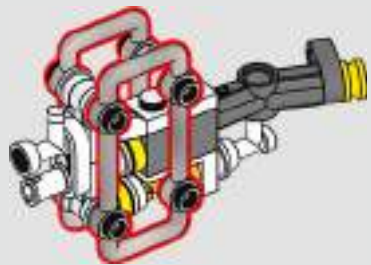




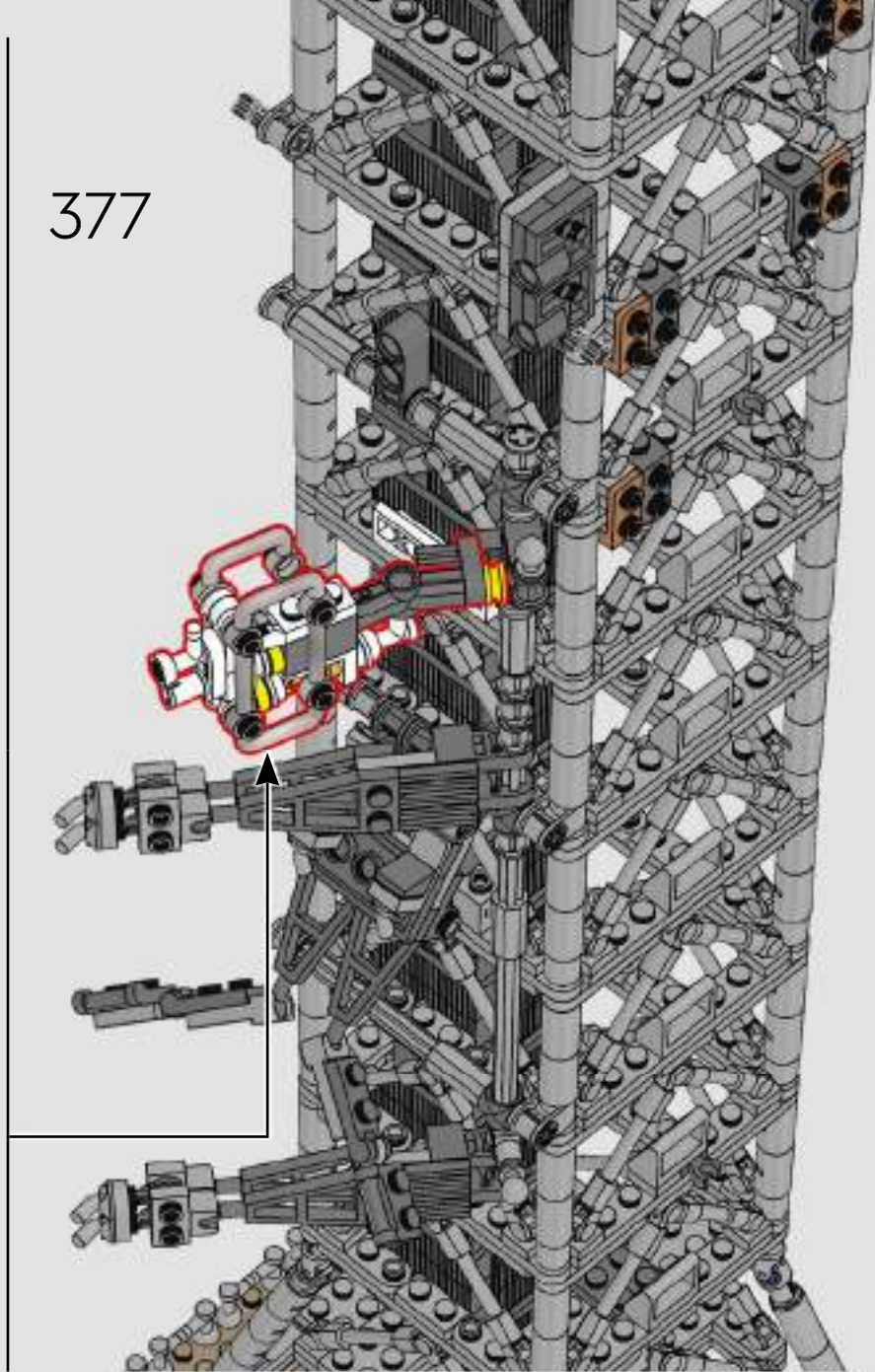
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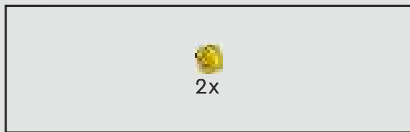


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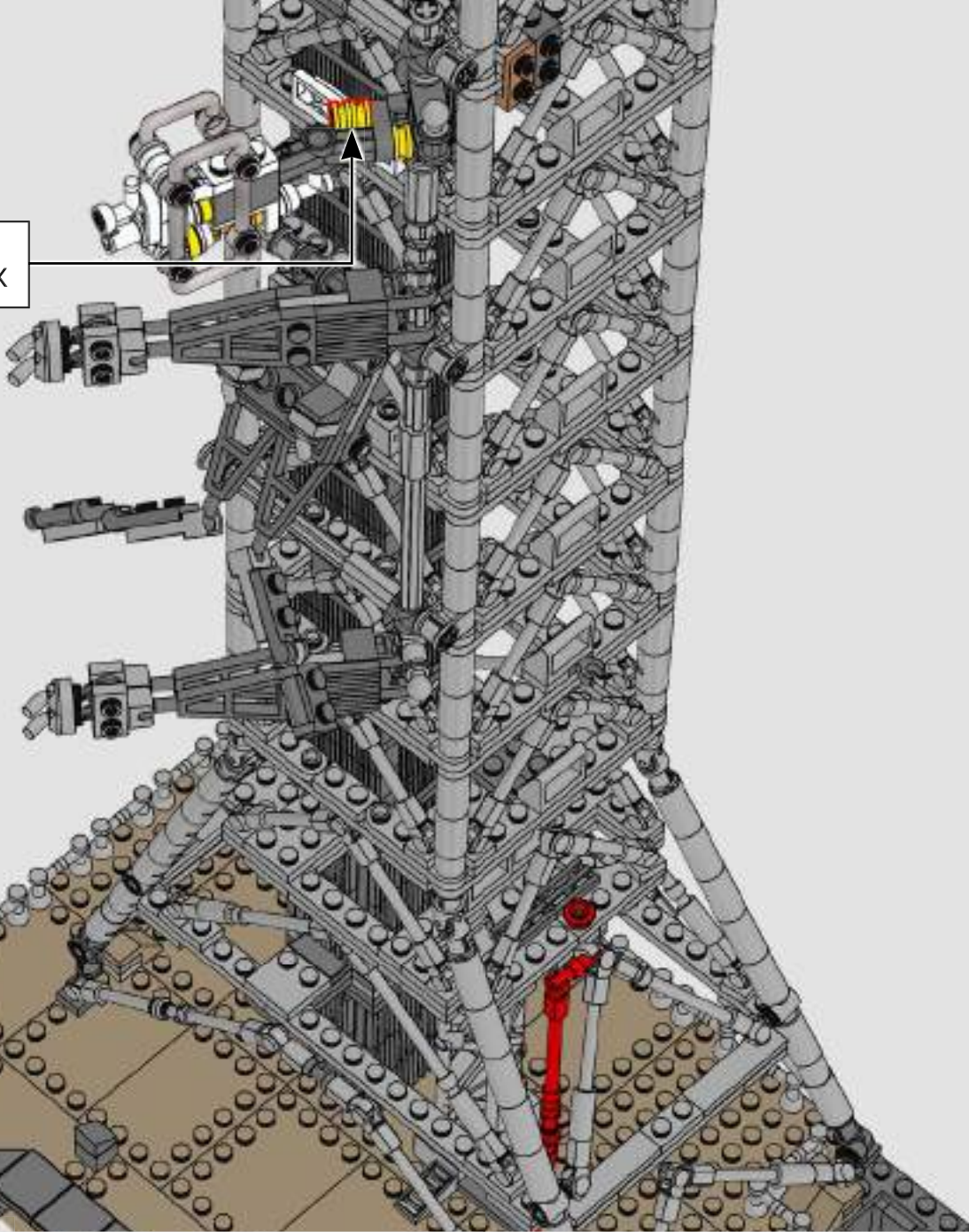
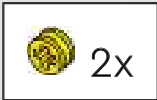


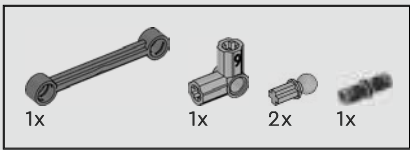
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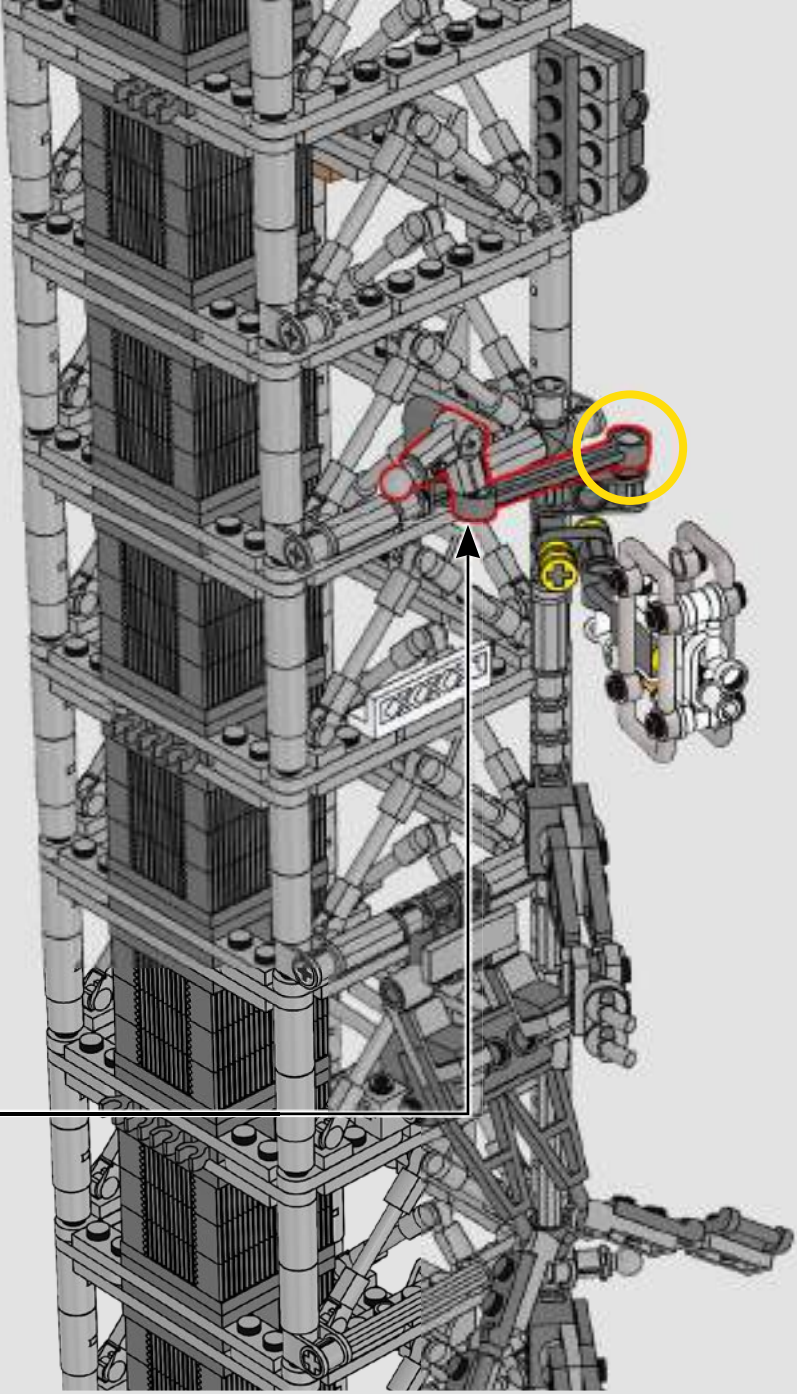
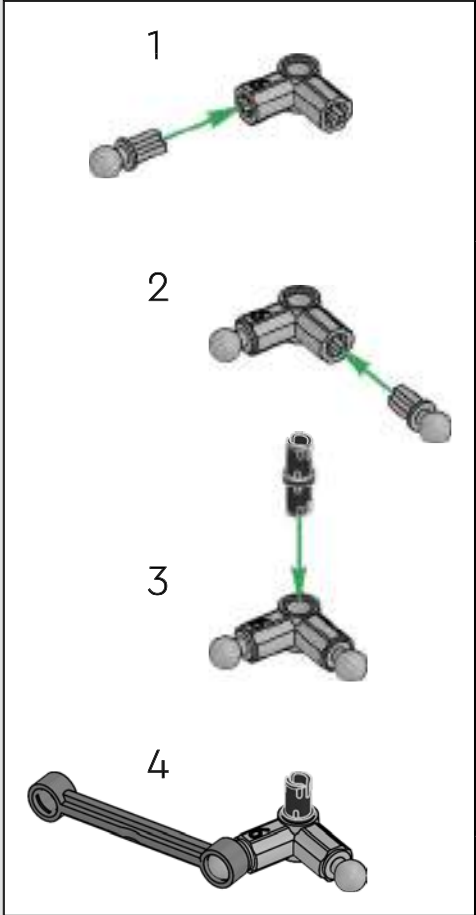


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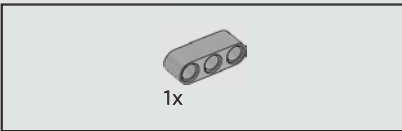


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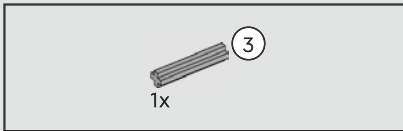
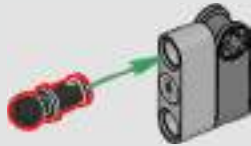
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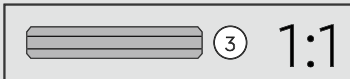
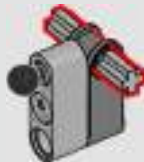
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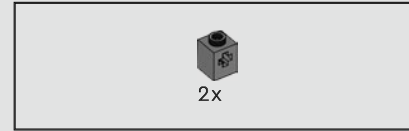
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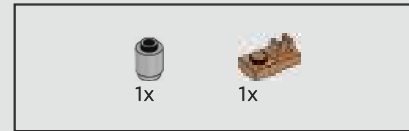
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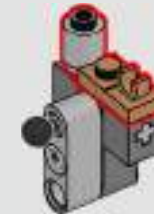
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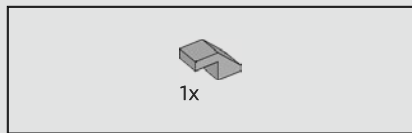


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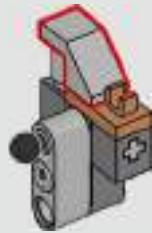


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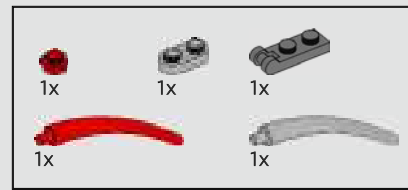
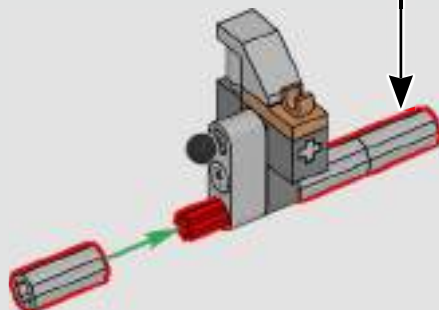
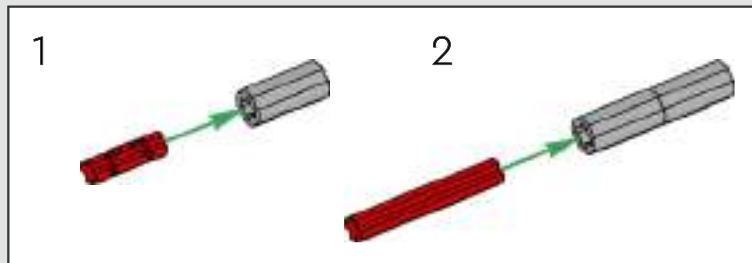




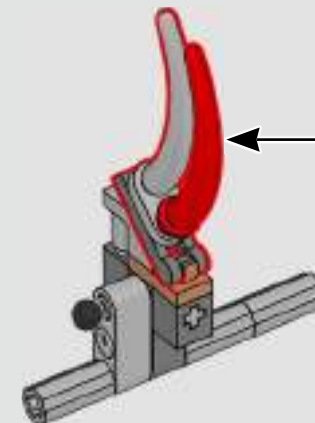
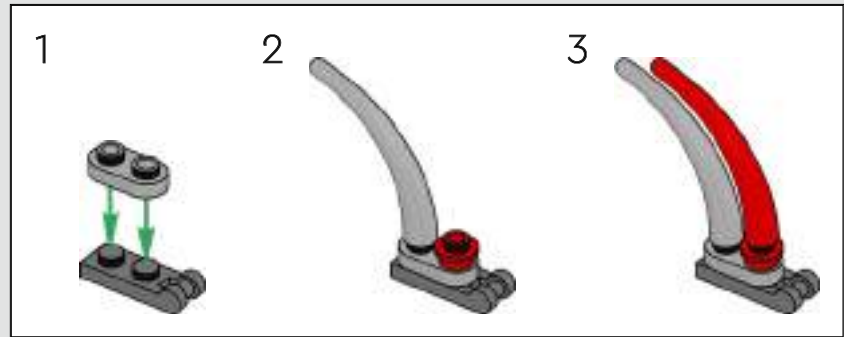
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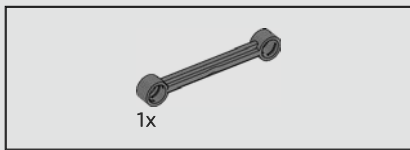


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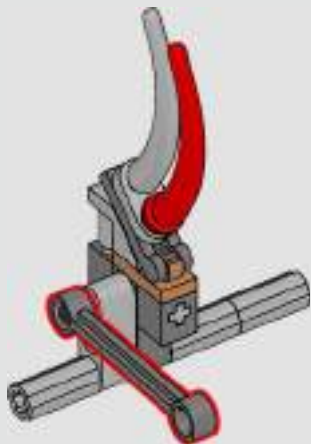


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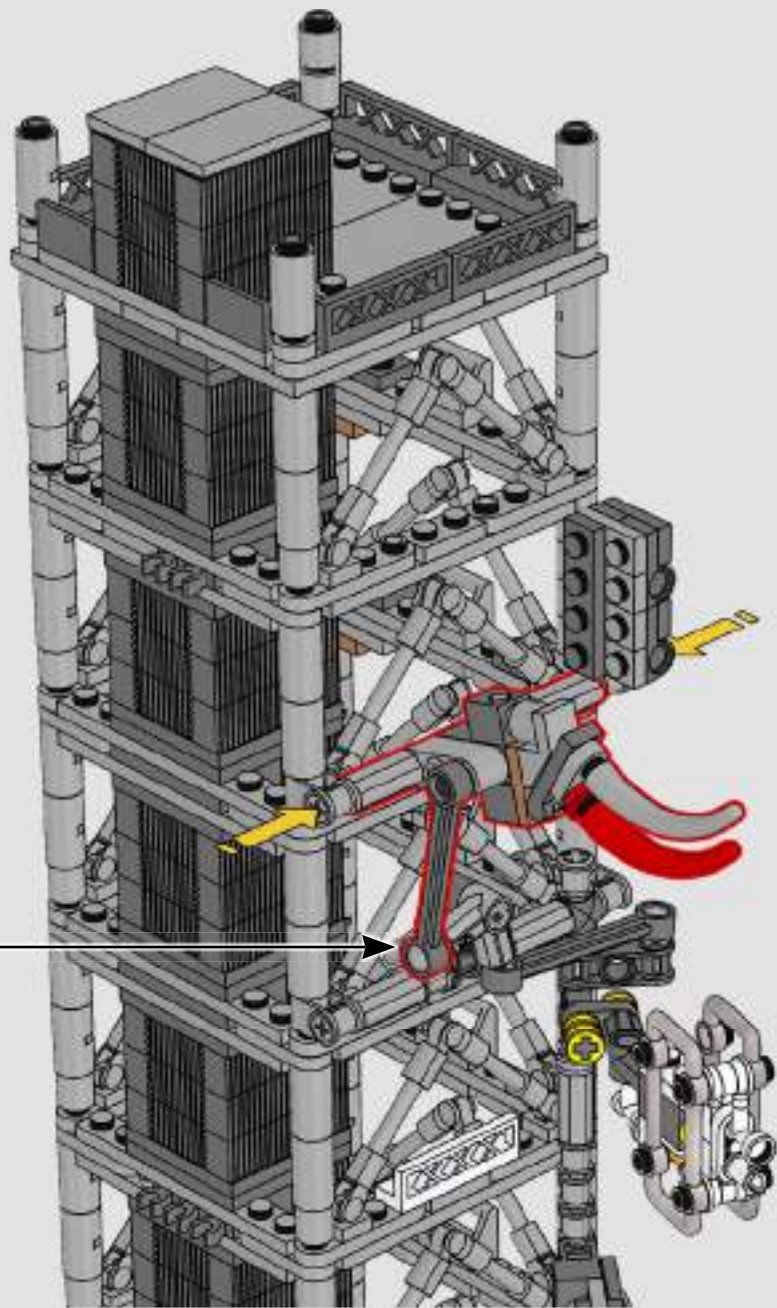


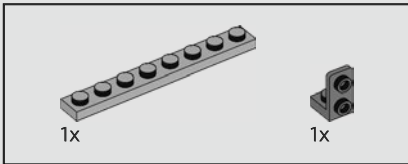
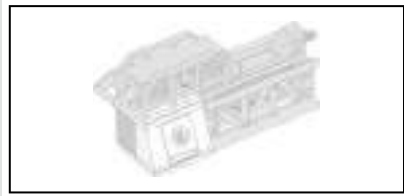


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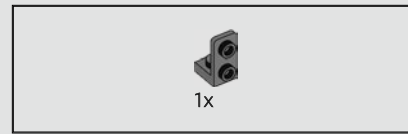
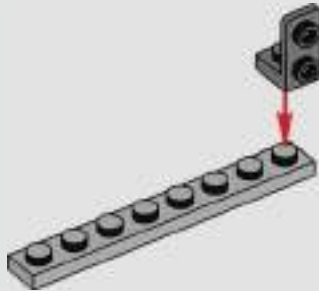


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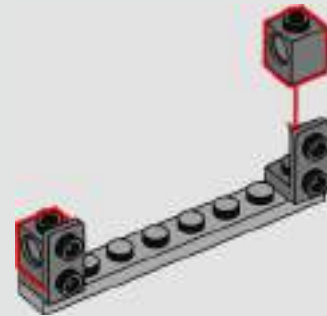
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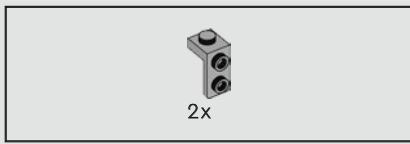


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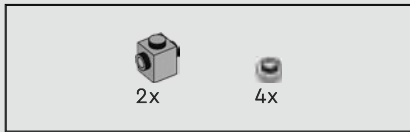
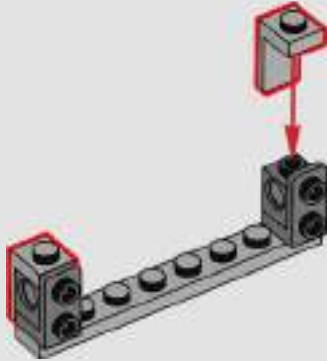


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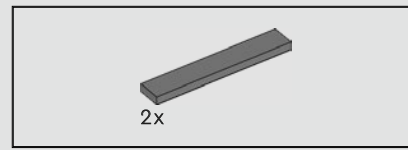
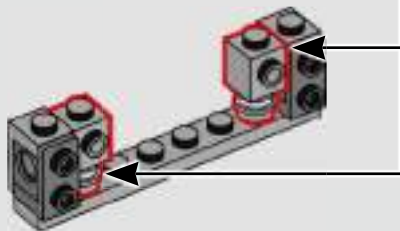
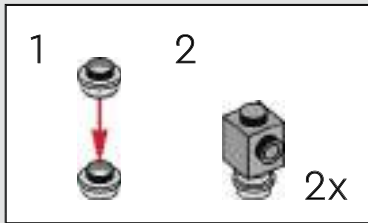




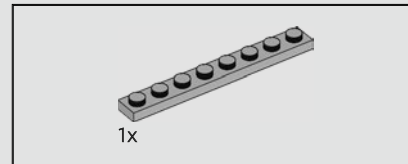
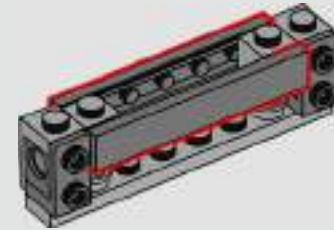
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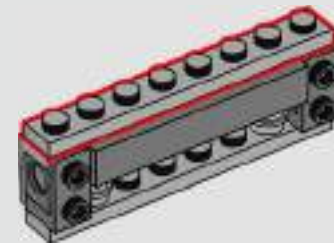
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396

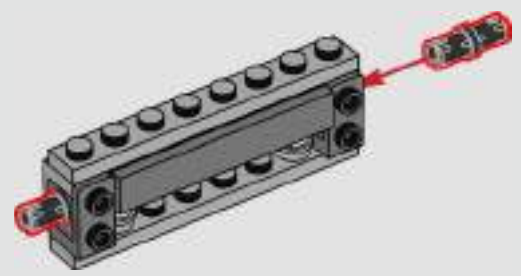


397



2x

398

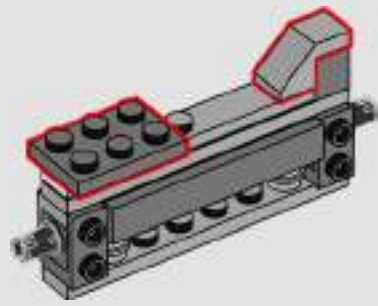


1x



1x

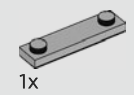
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1x

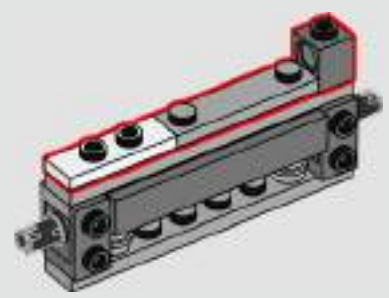


1x



1x

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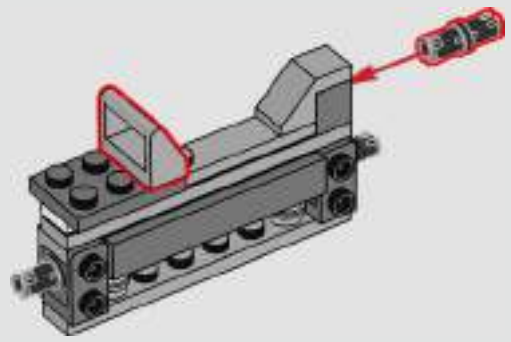


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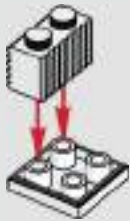
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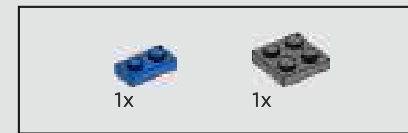
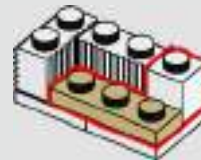
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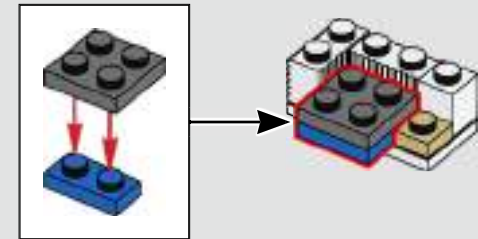
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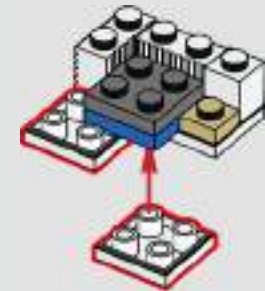
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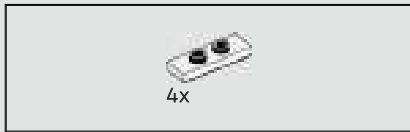
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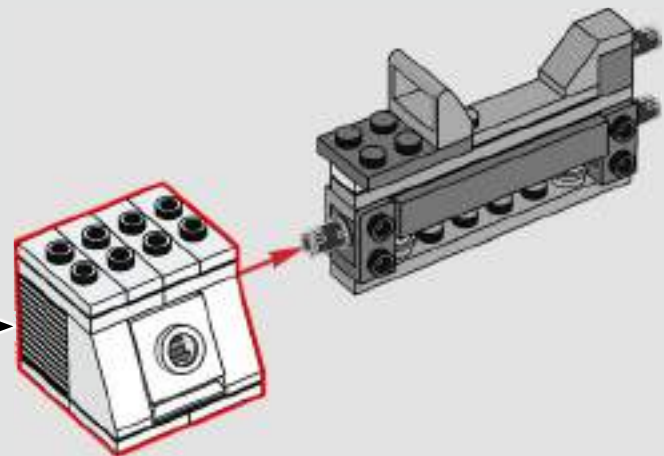
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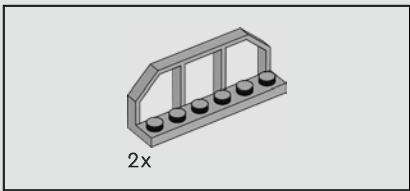
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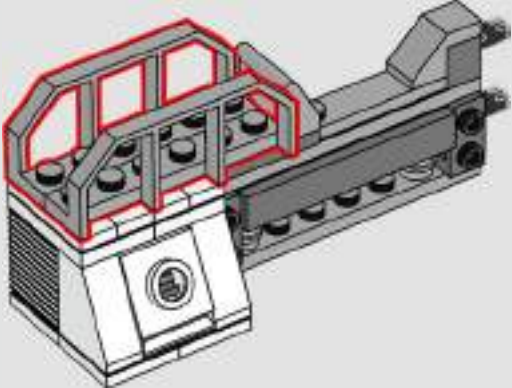
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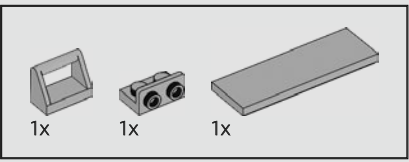
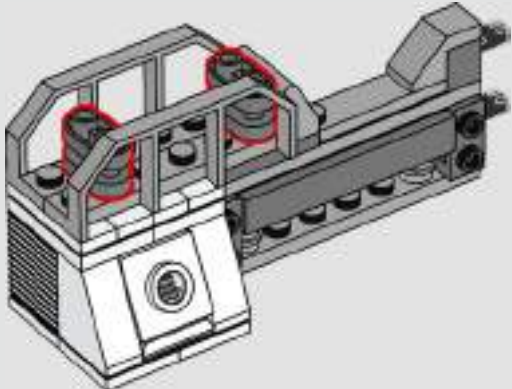
A new 2x2 turntable element was used to make the hatch on the crew bridge.



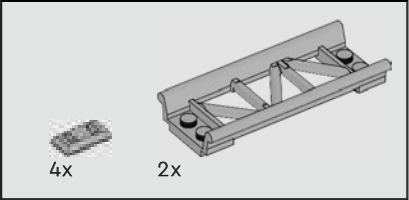
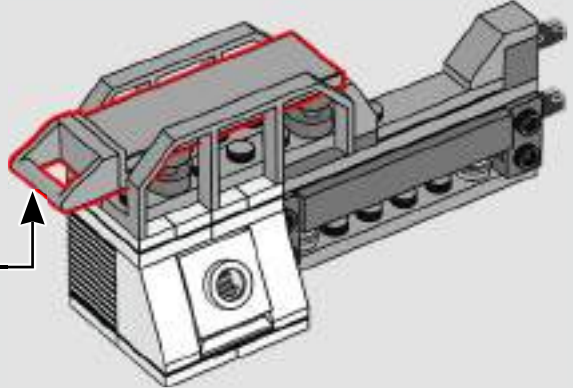
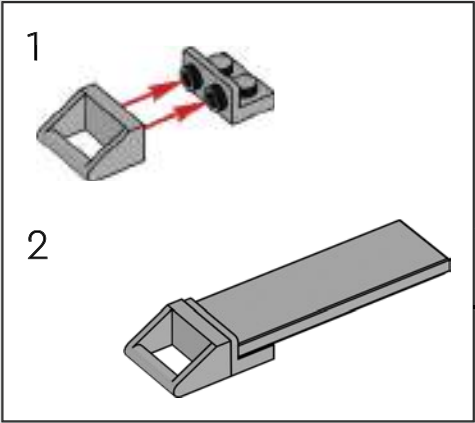
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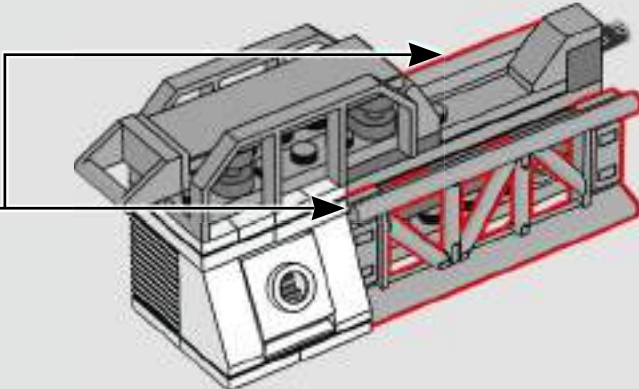
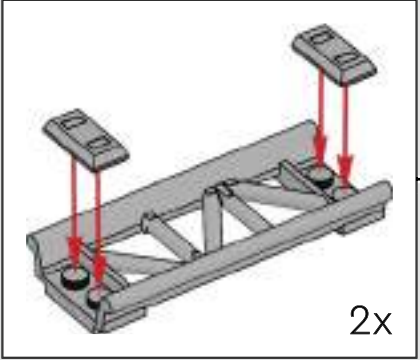
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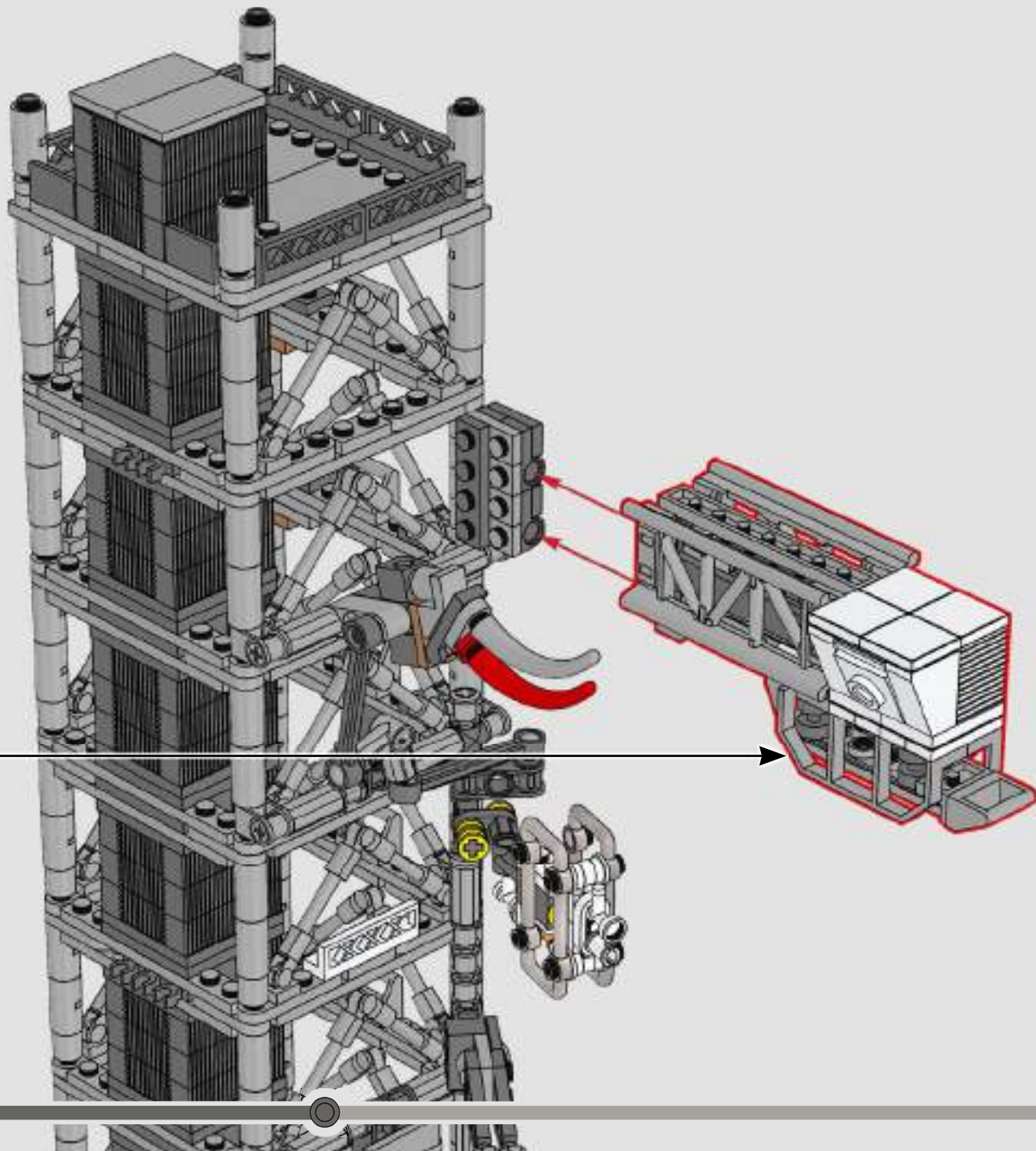
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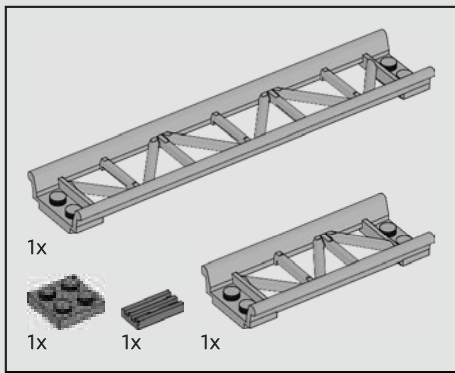


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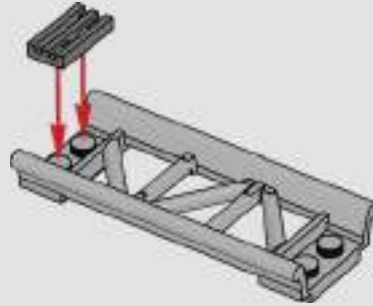
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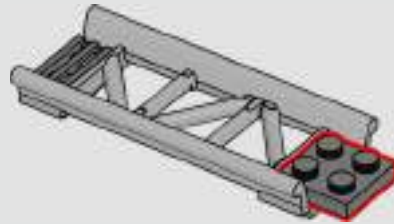


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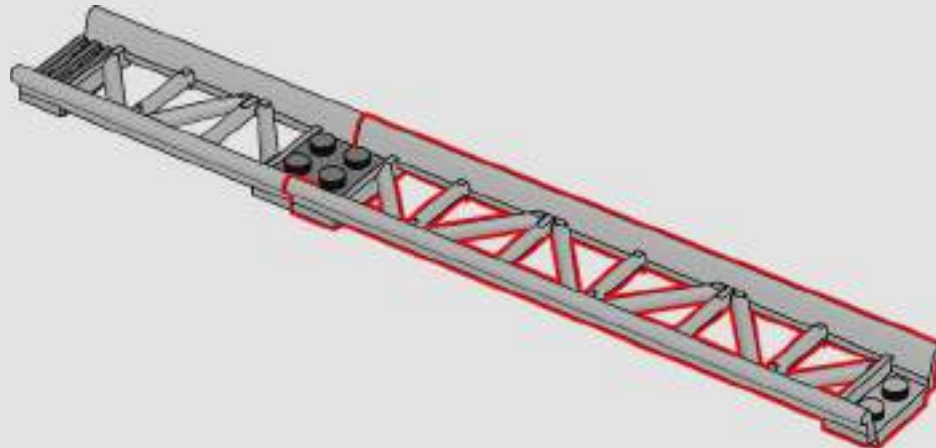
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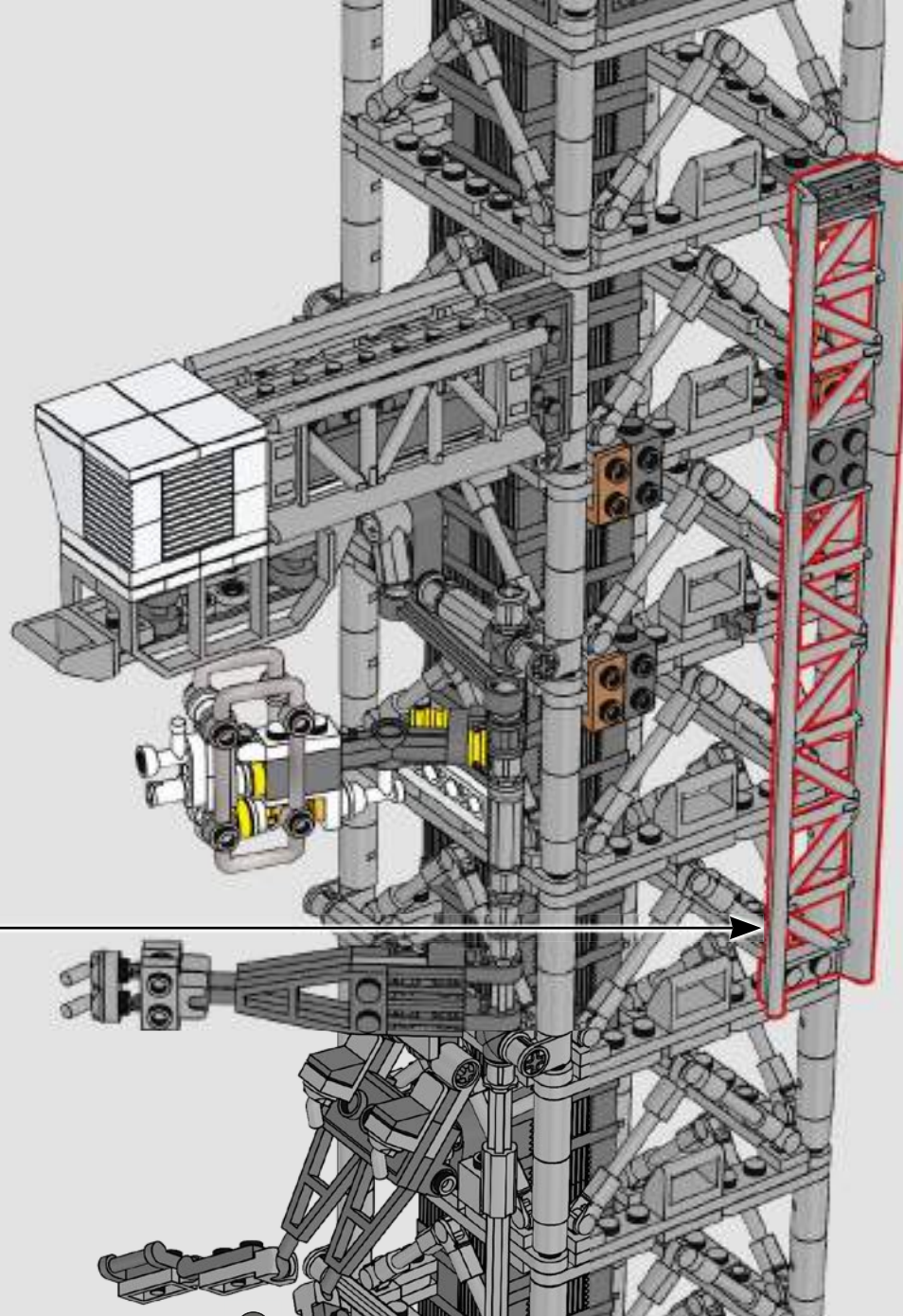


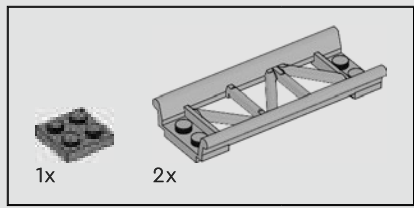
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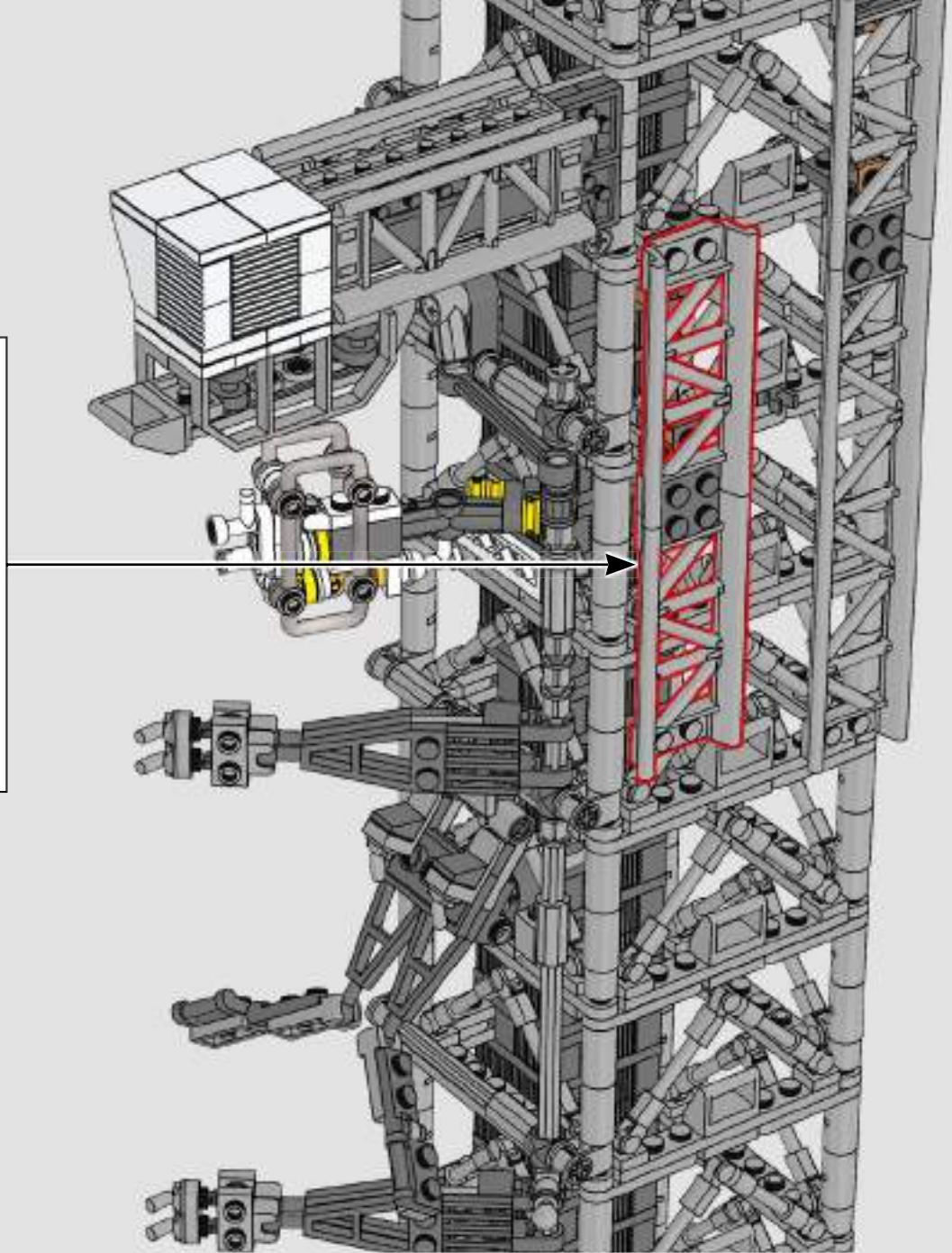
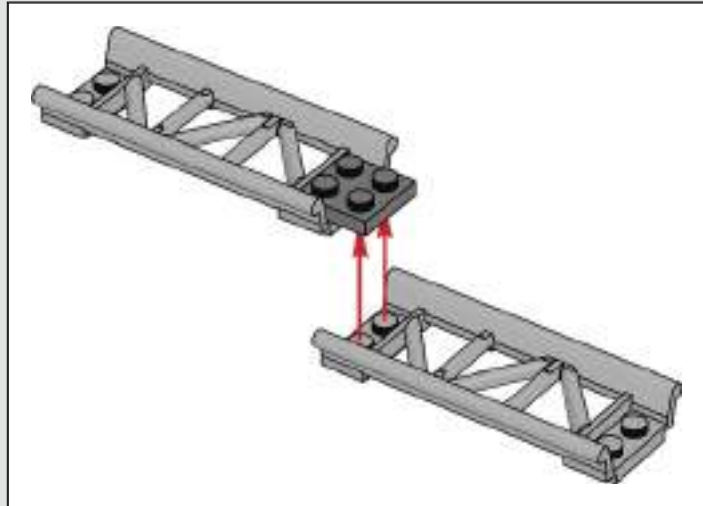
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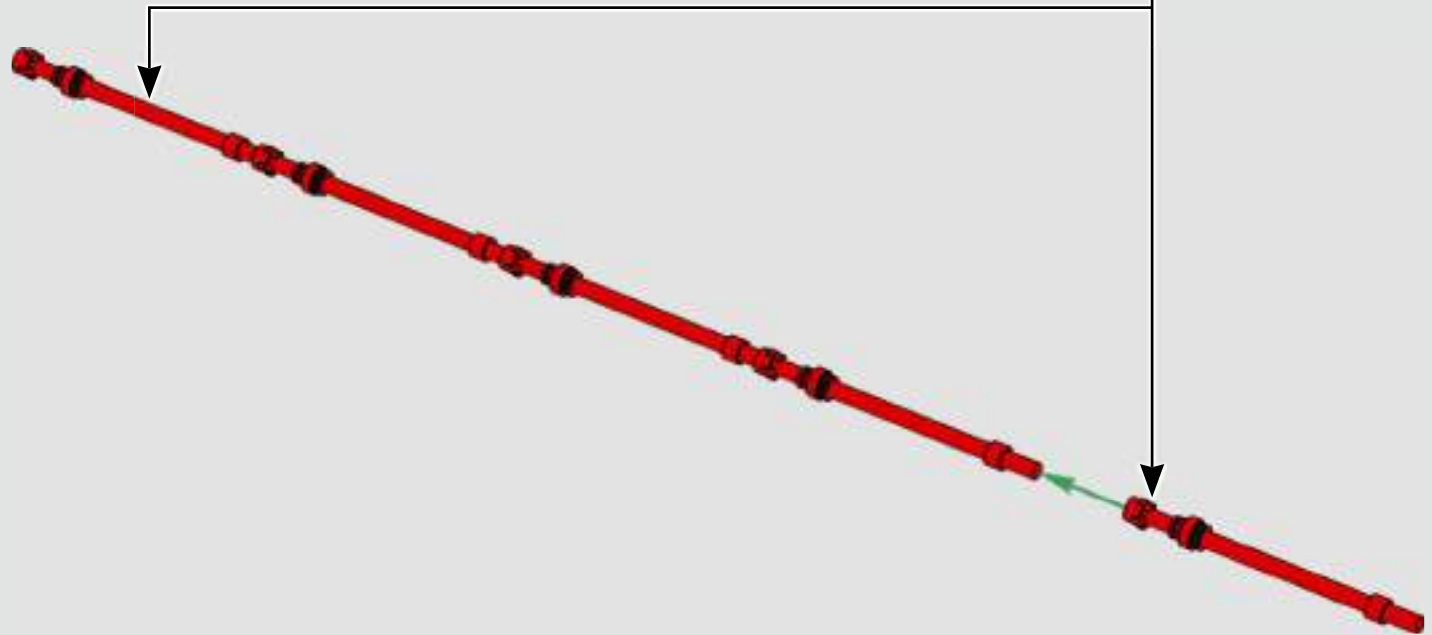
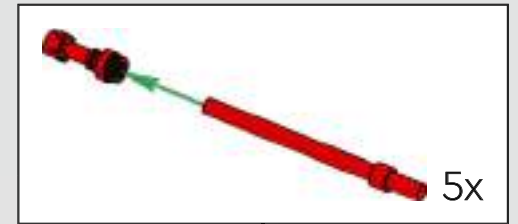


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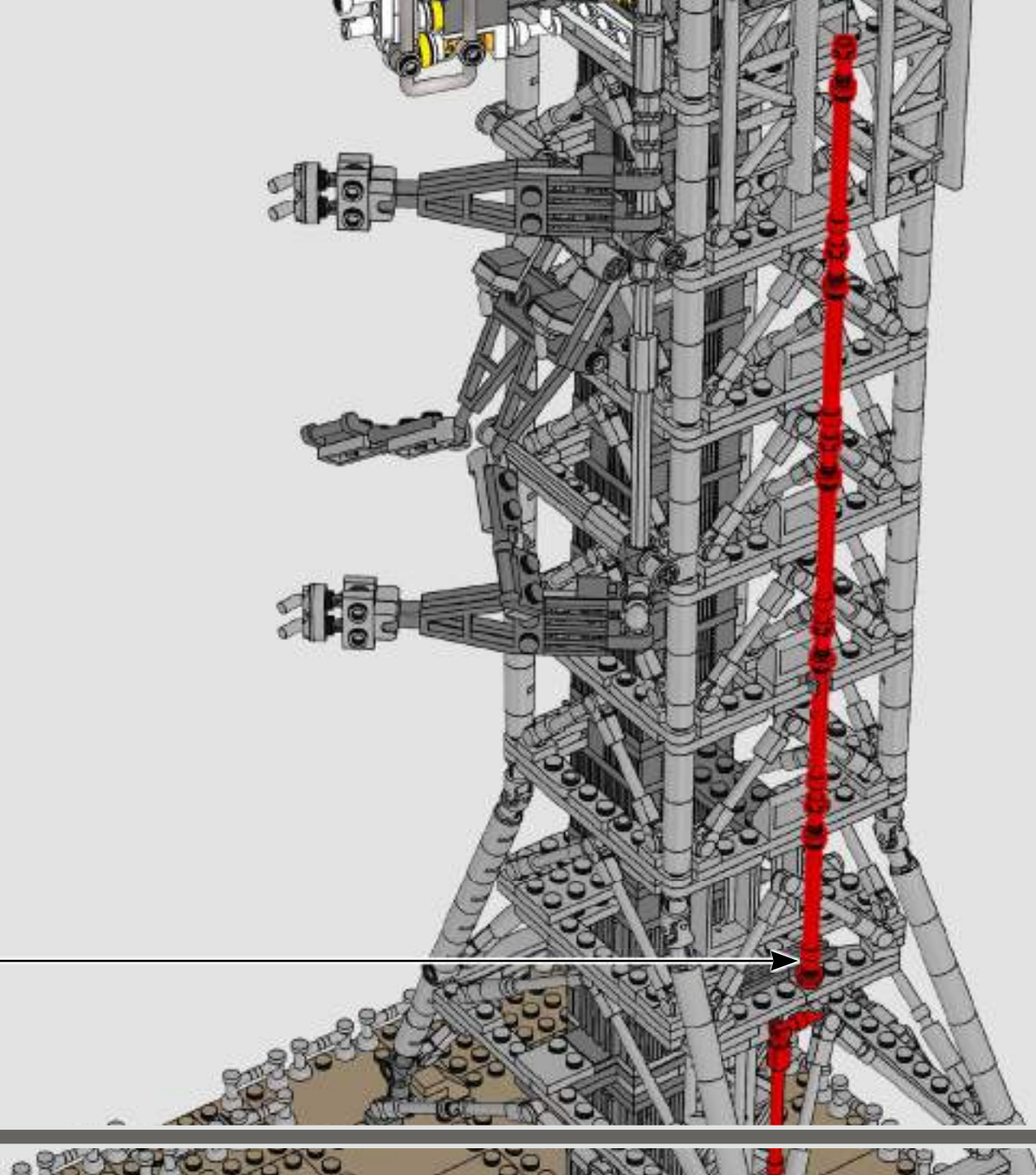




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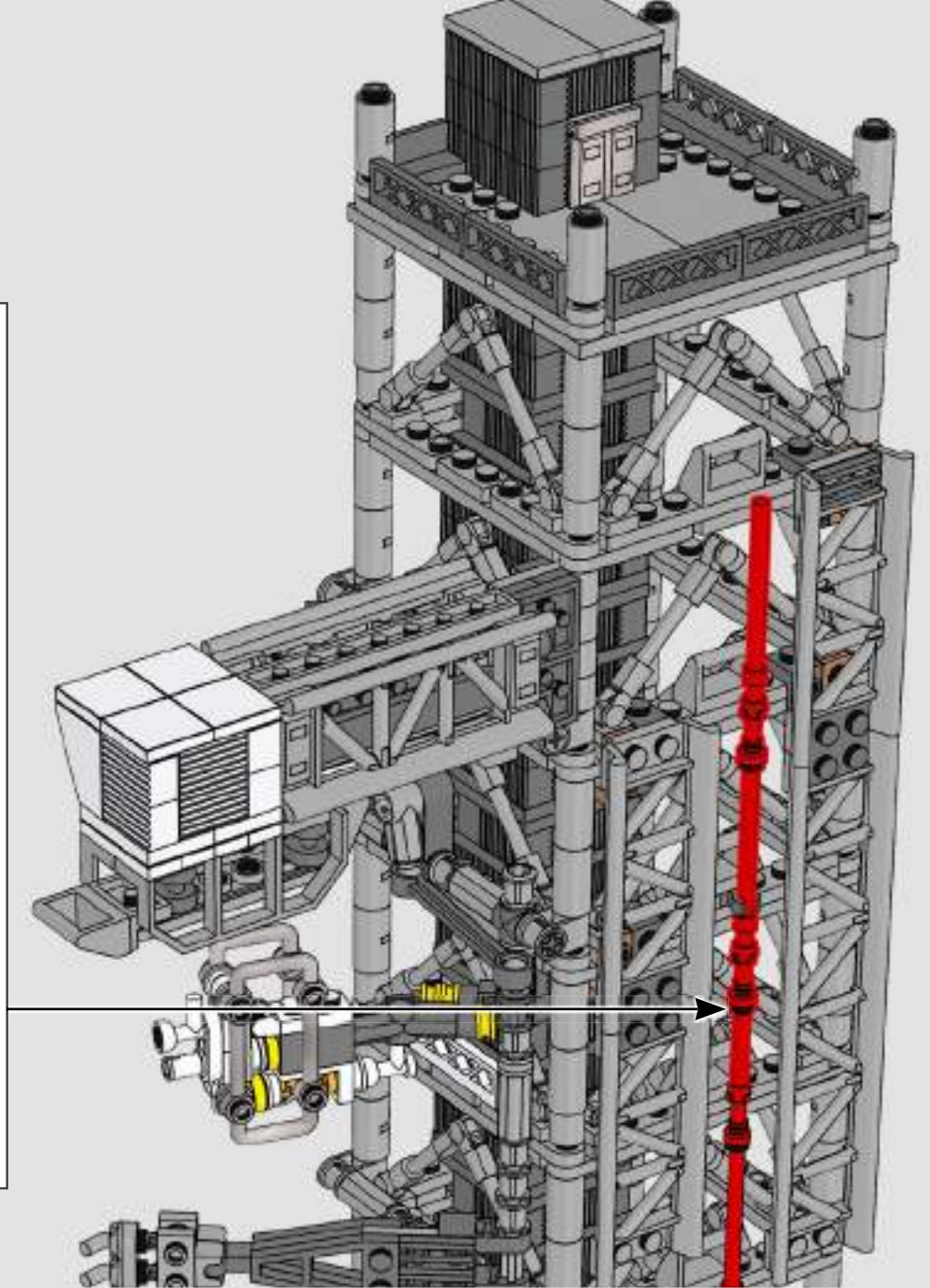
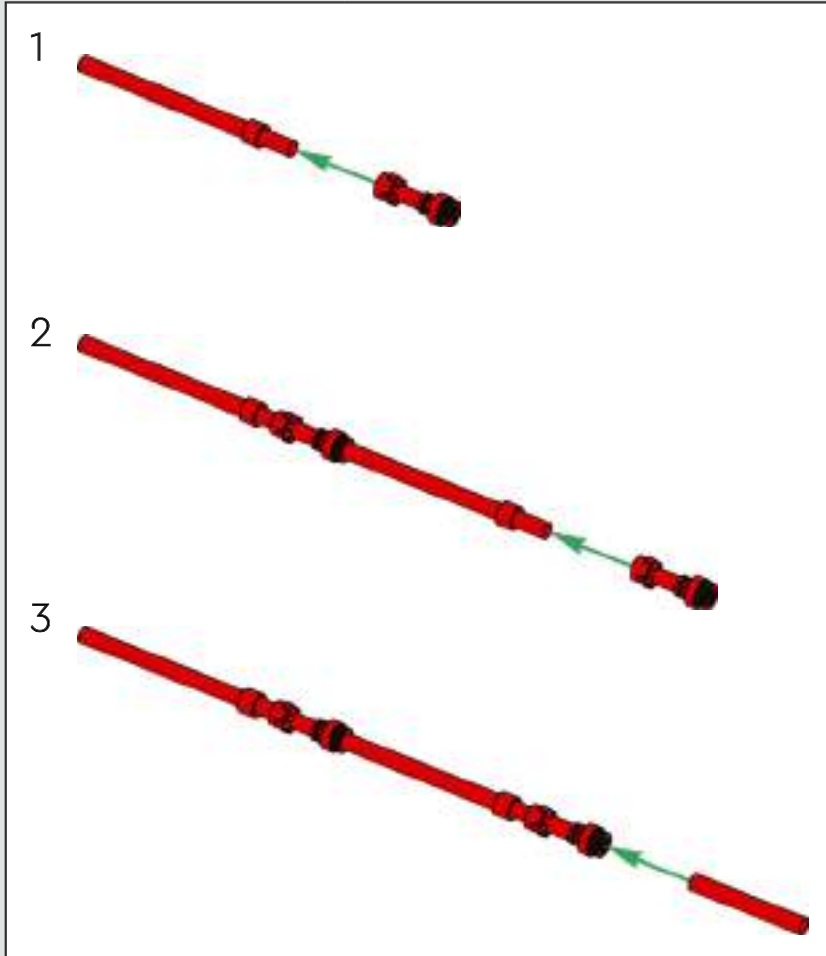


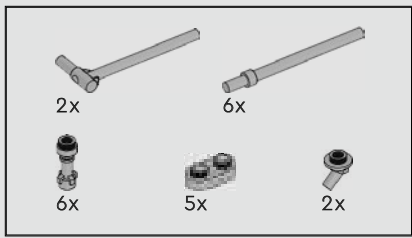
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426

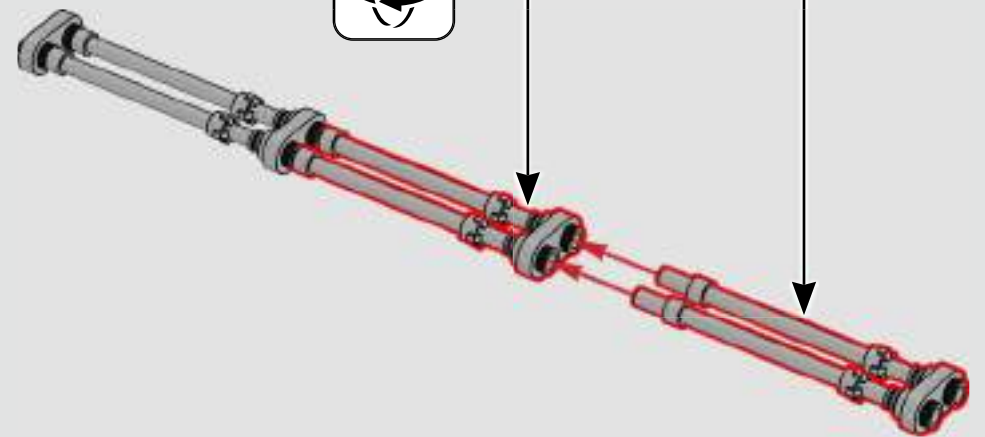
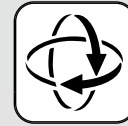
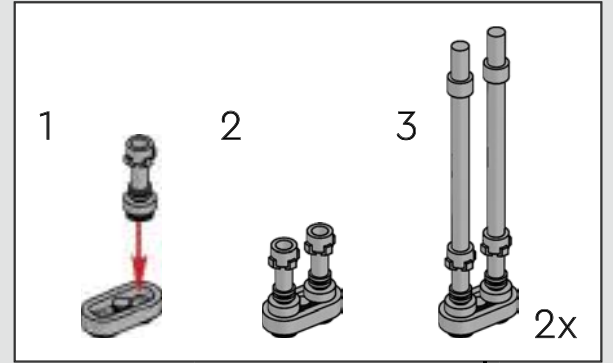




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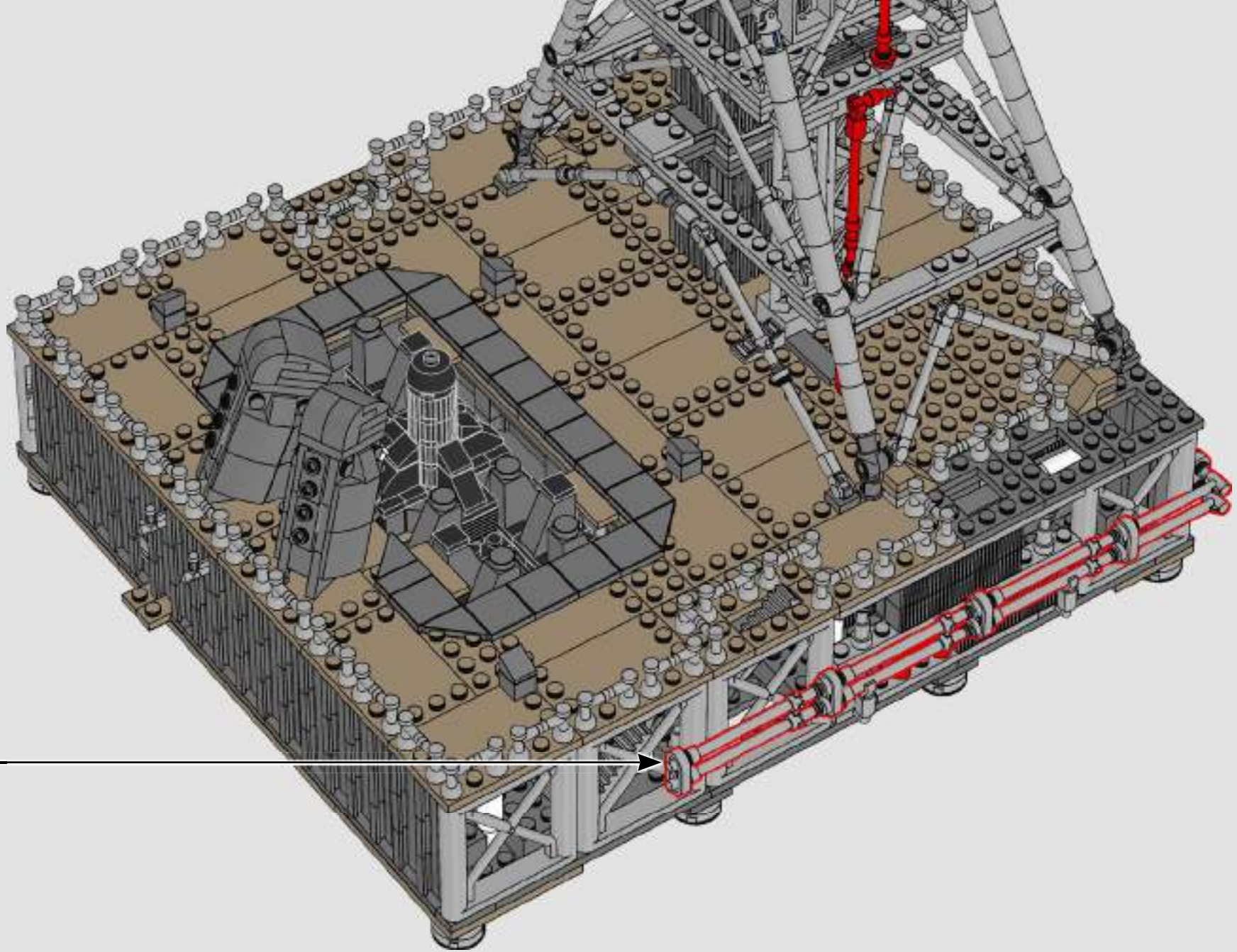


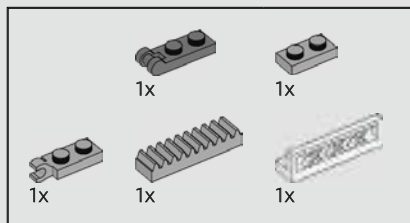
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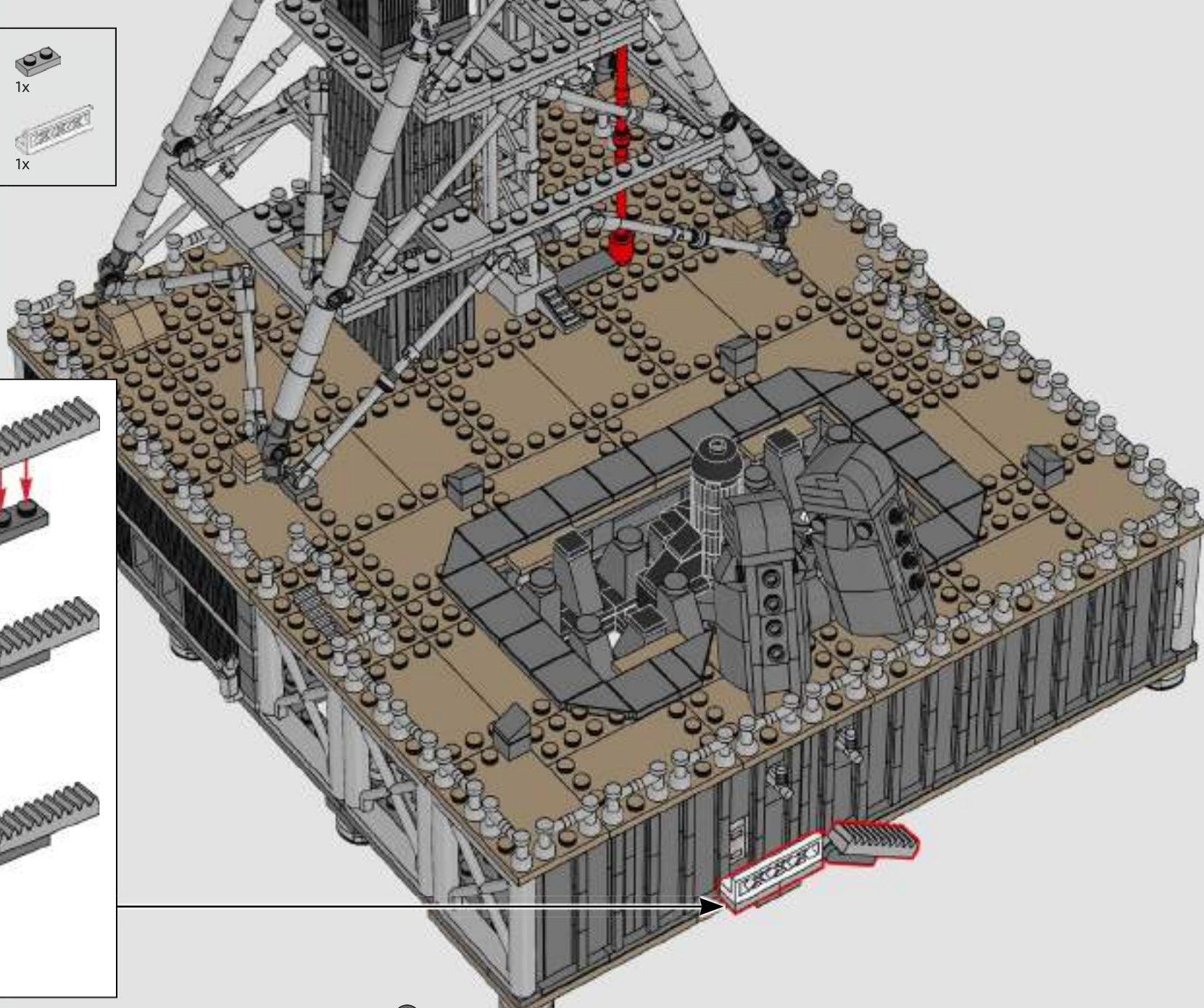
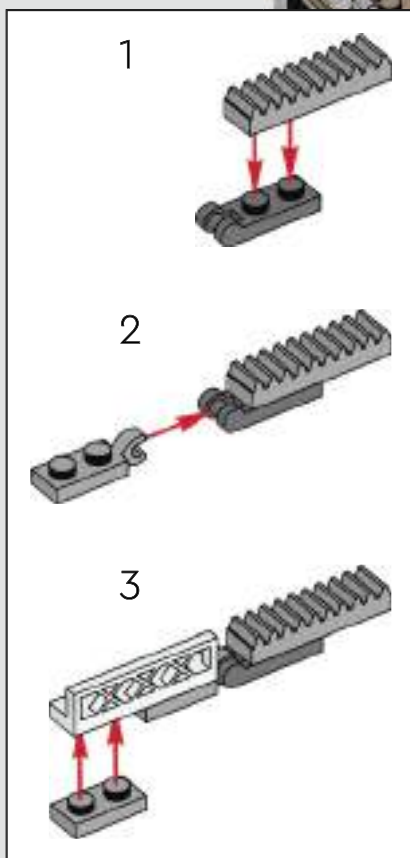
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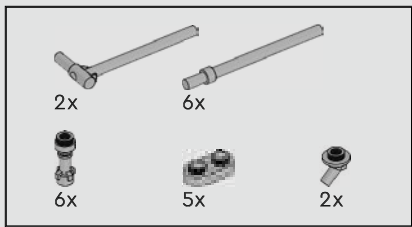




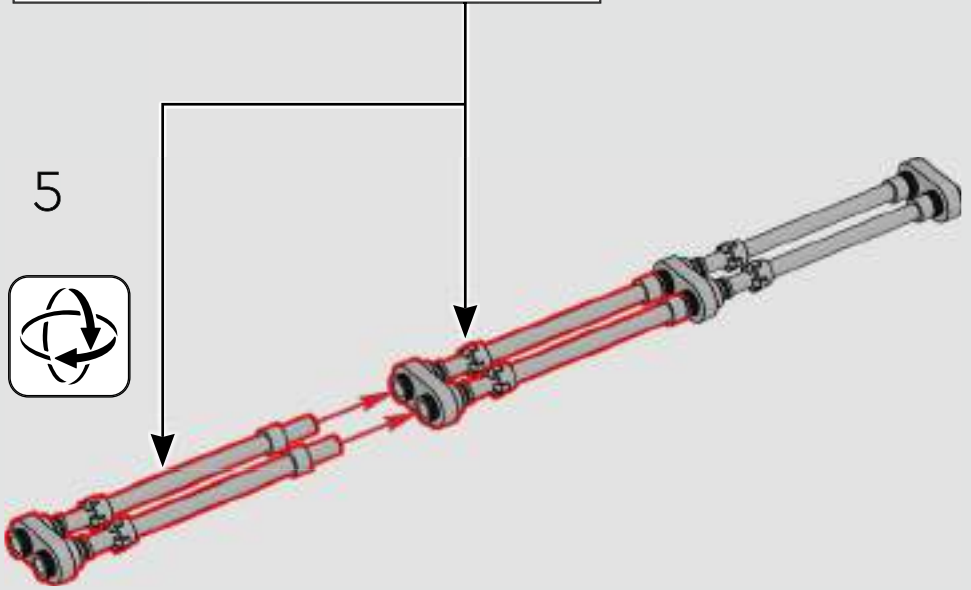
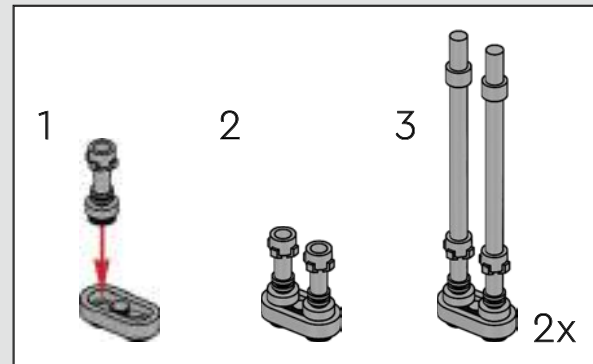
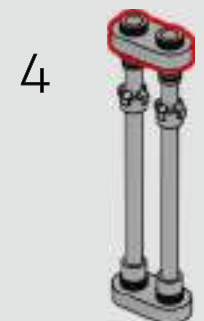


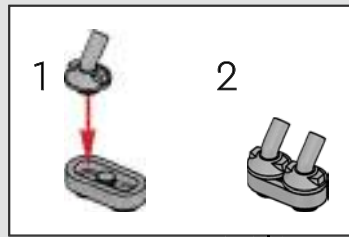
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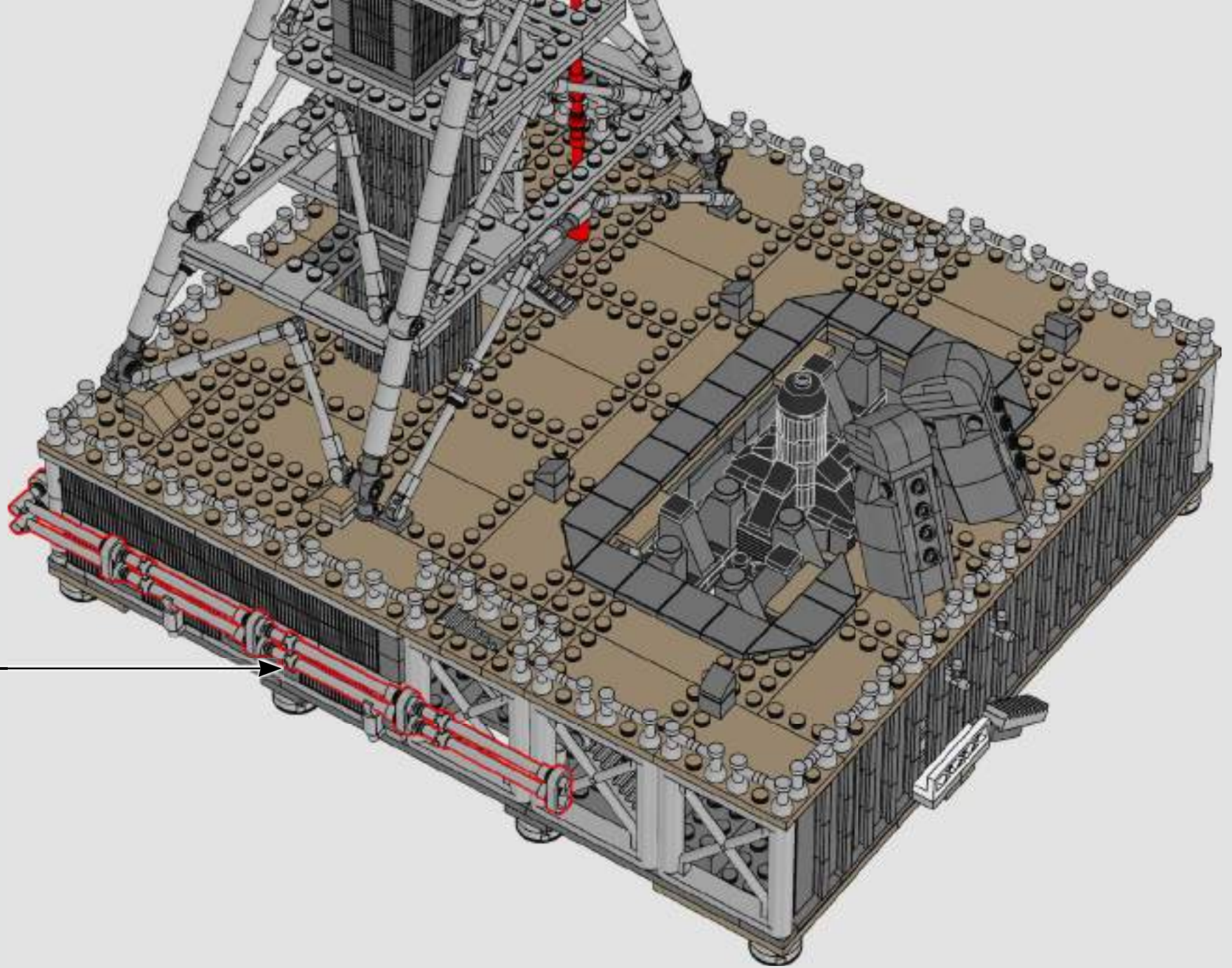


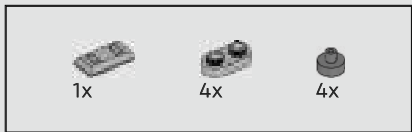


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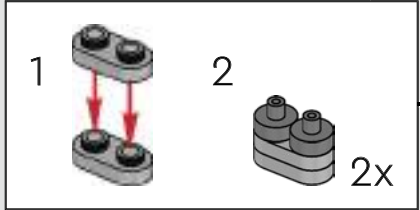
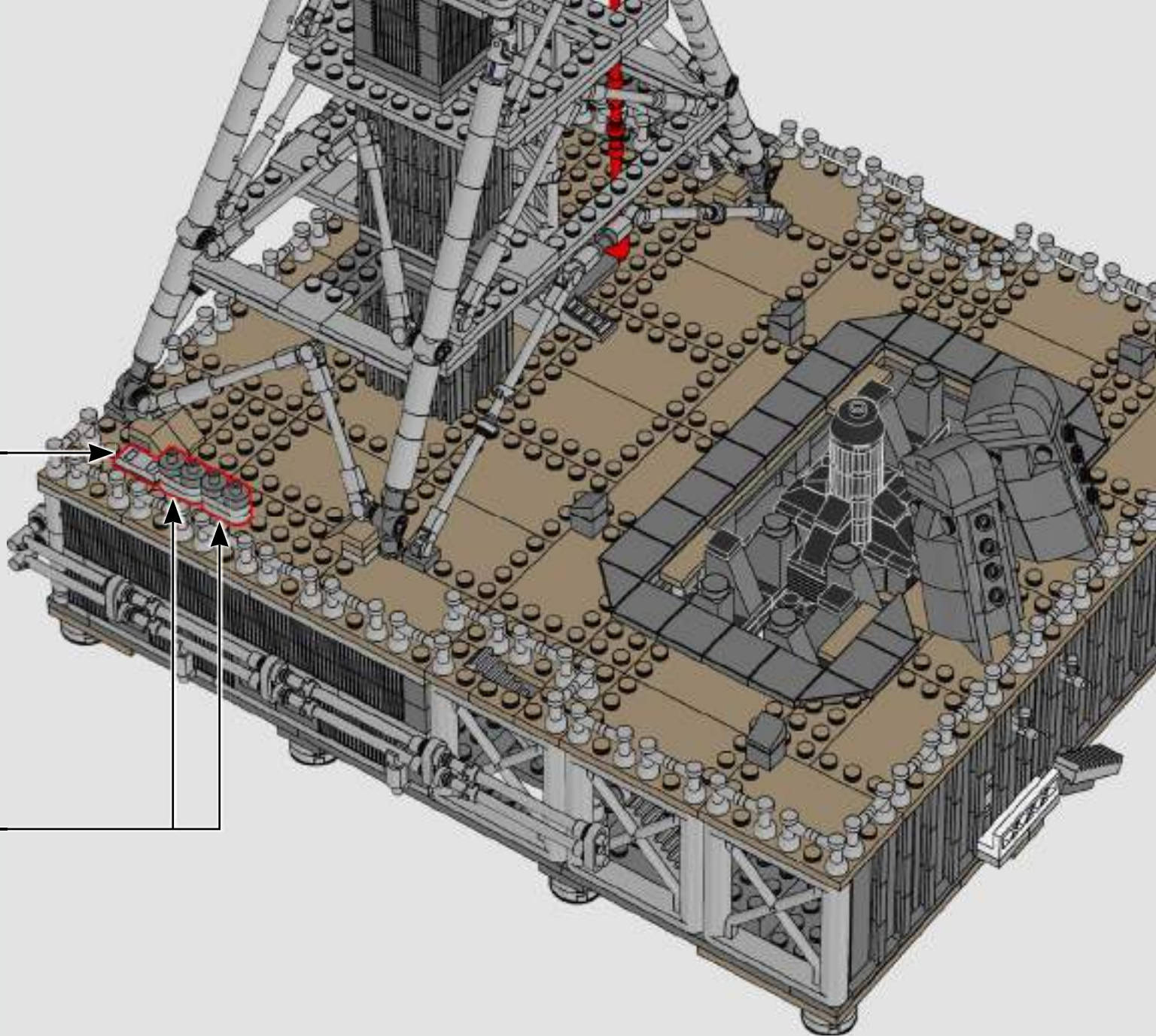
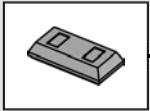


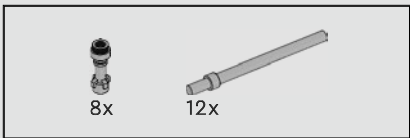




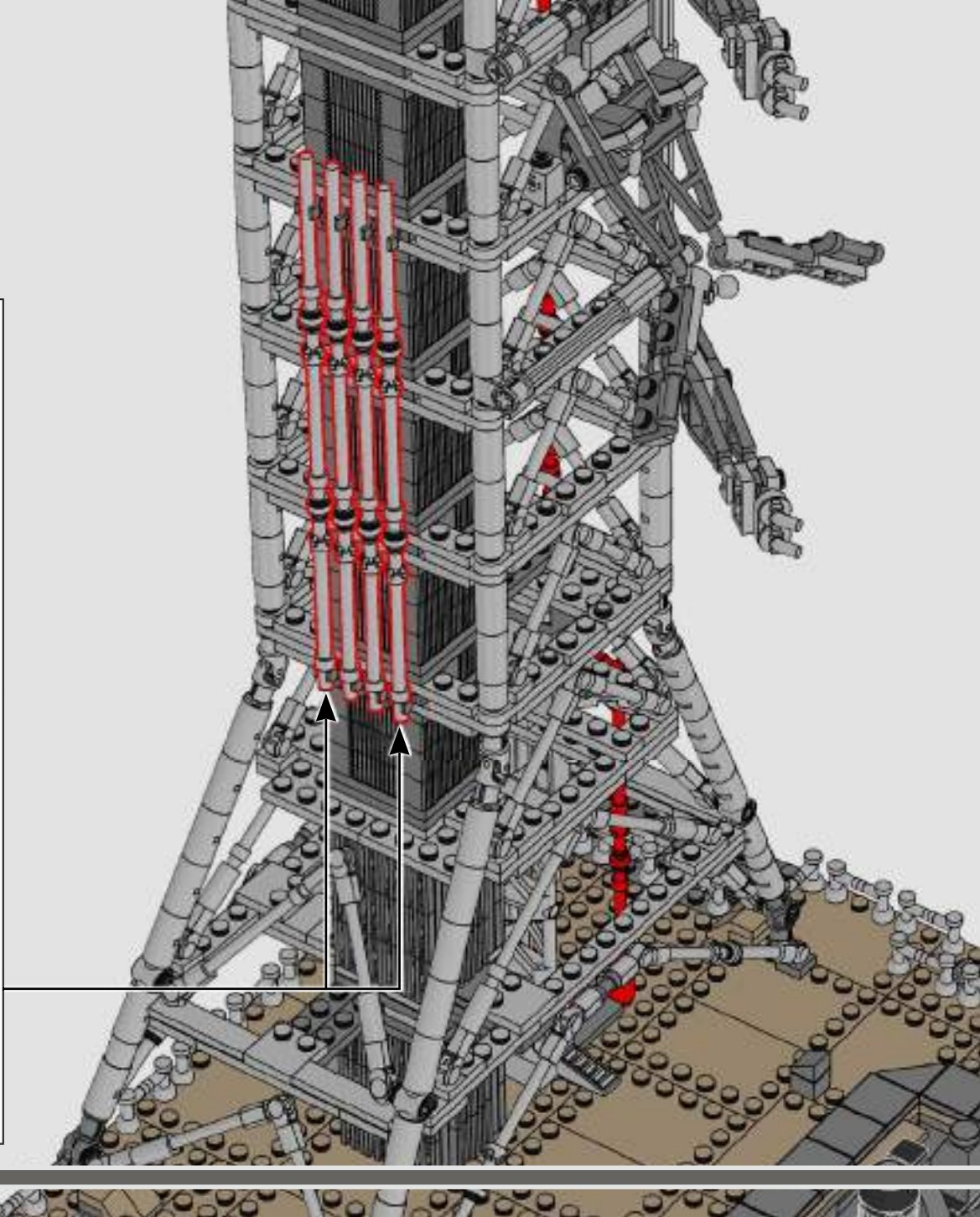
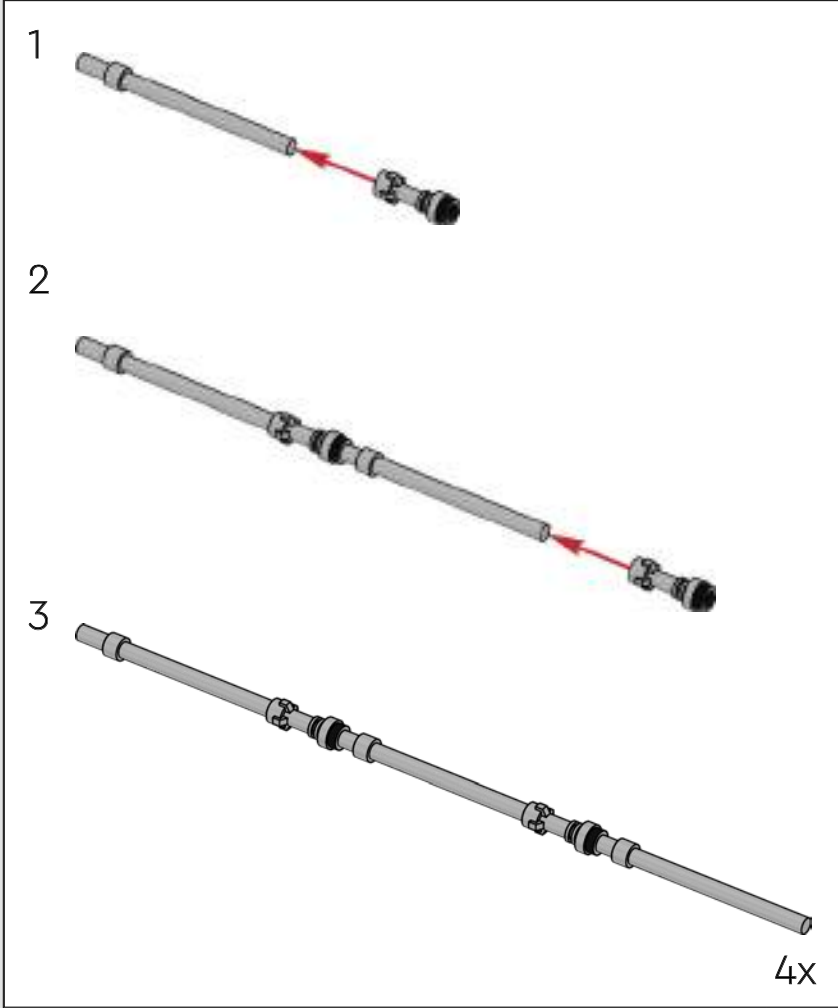


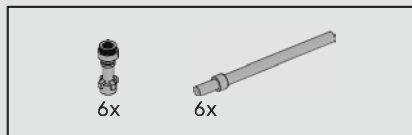
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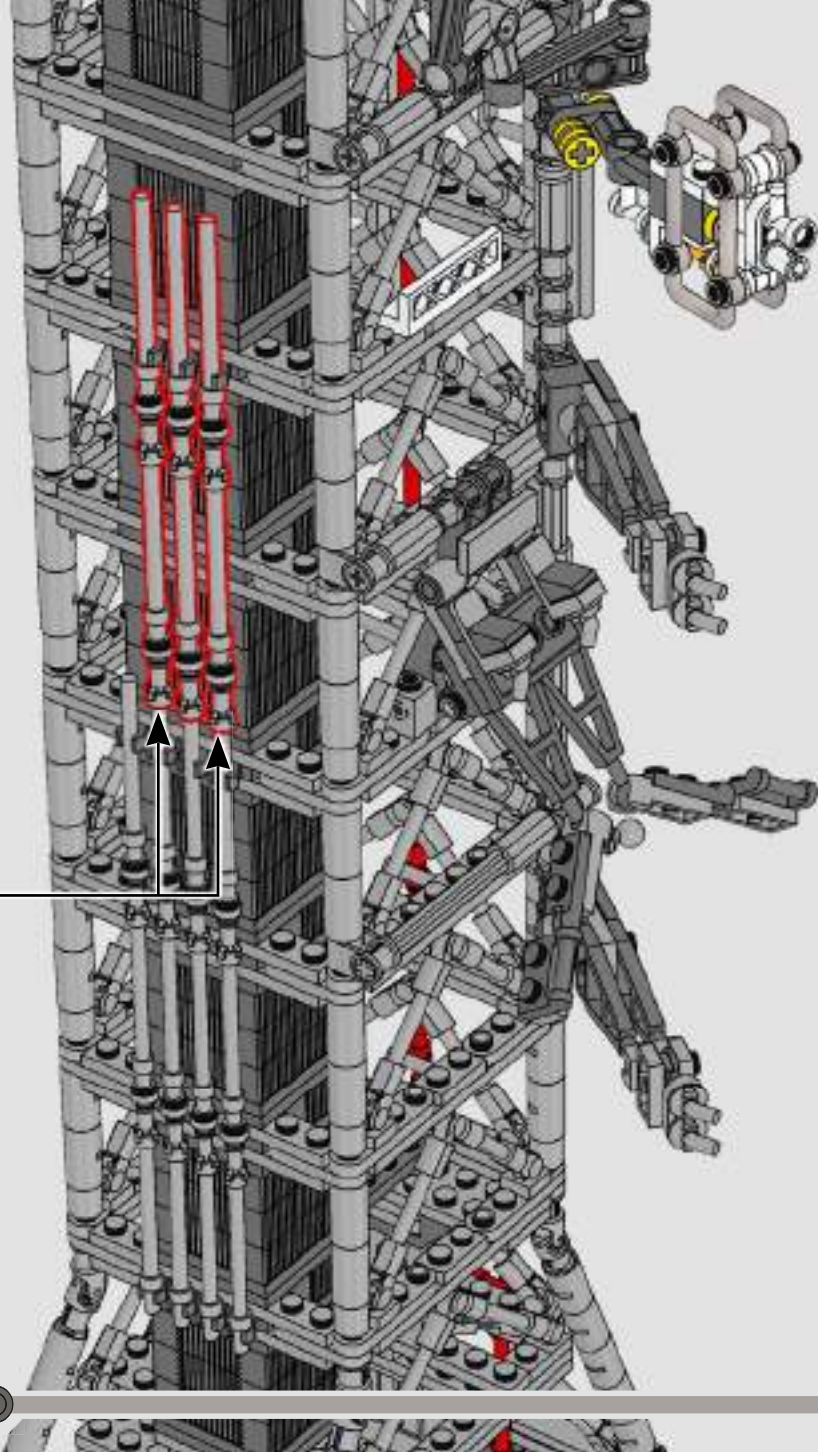
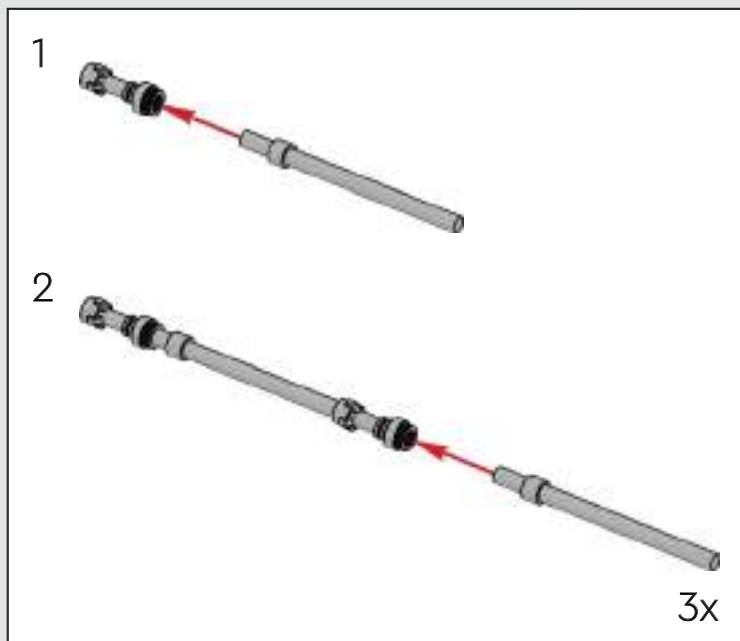


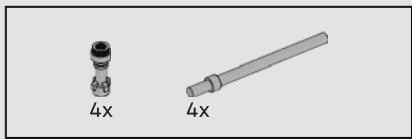
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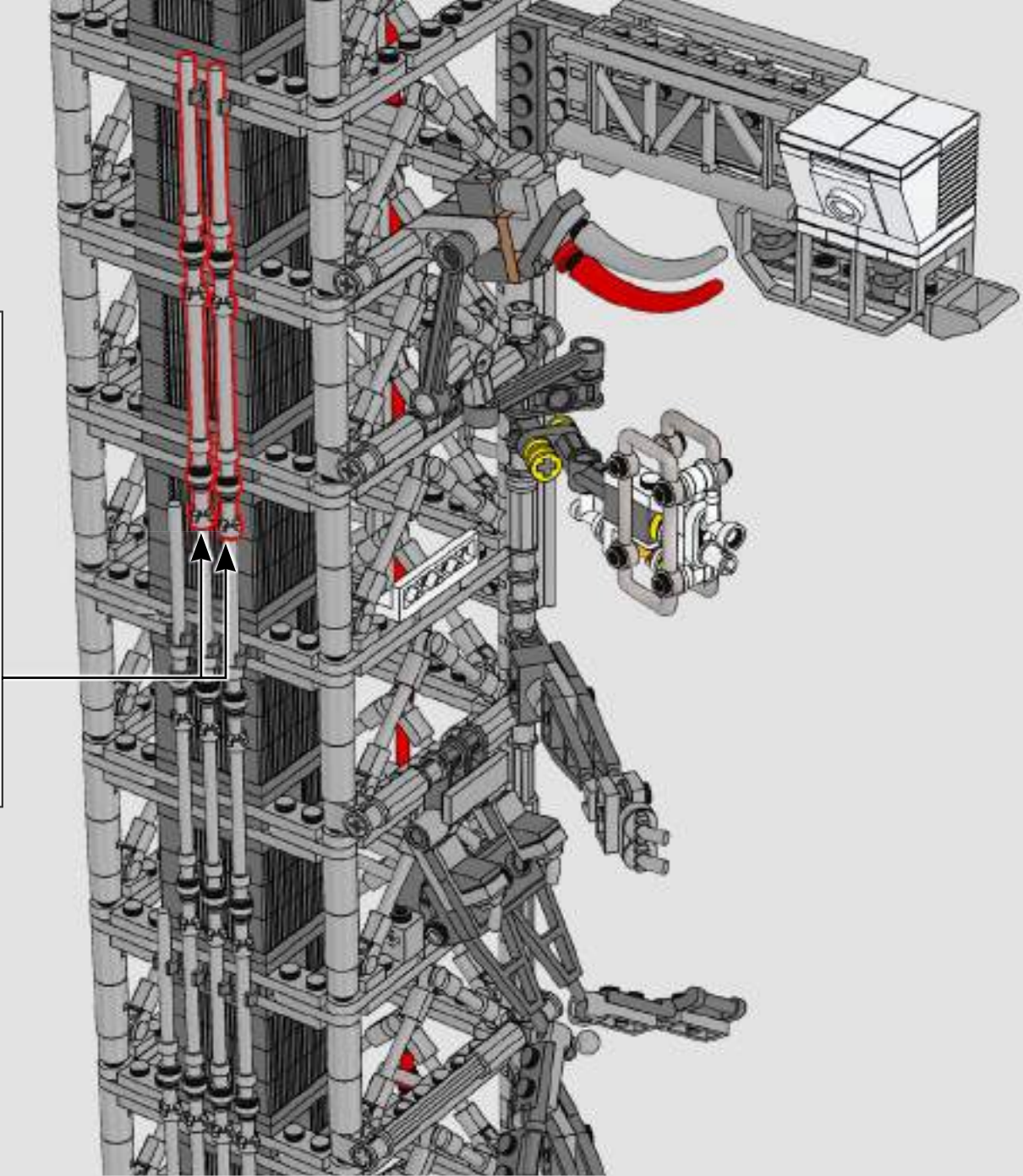
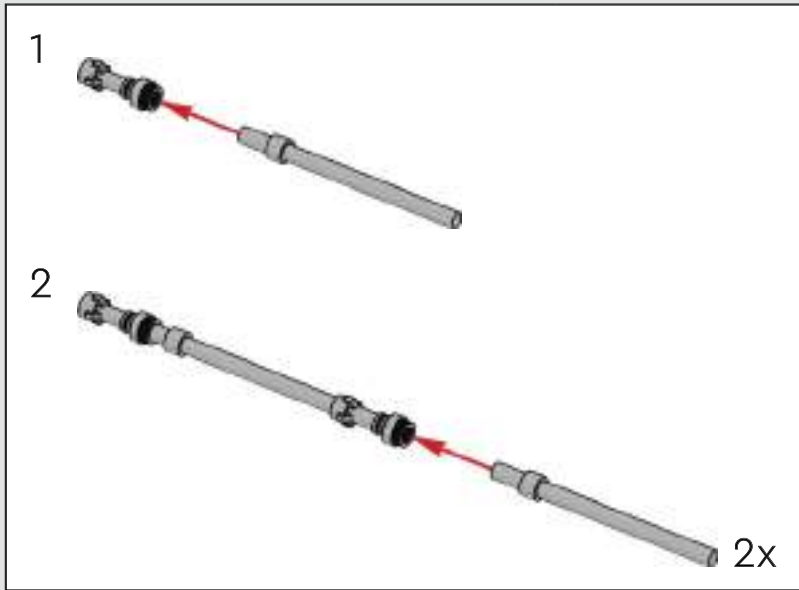


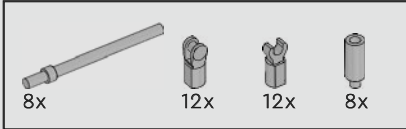
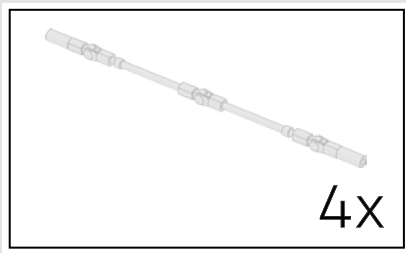
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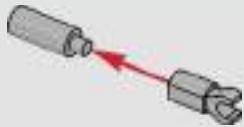
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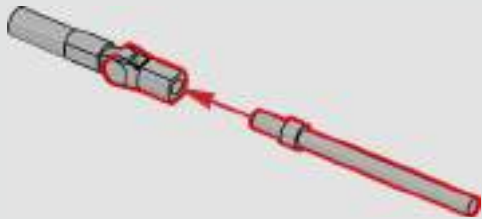


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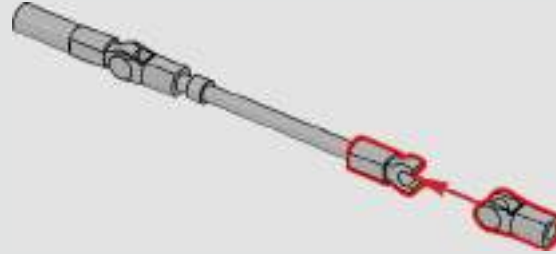
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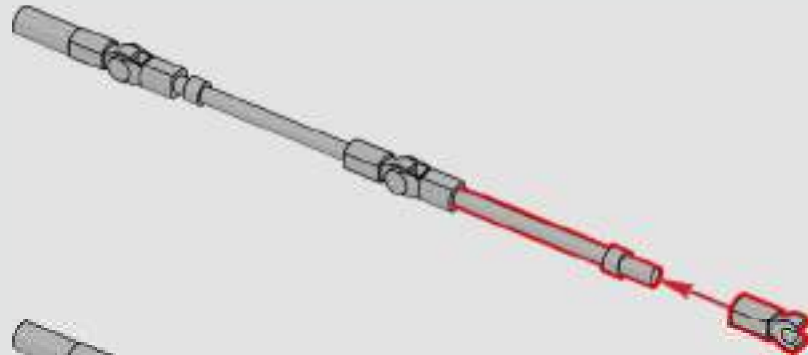
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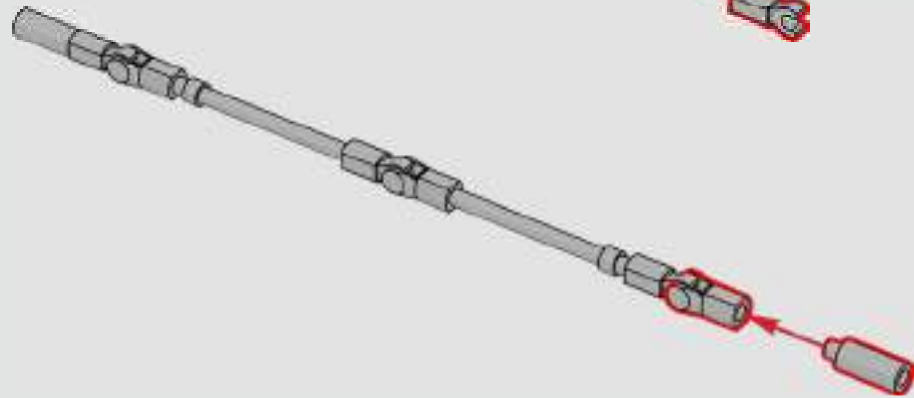
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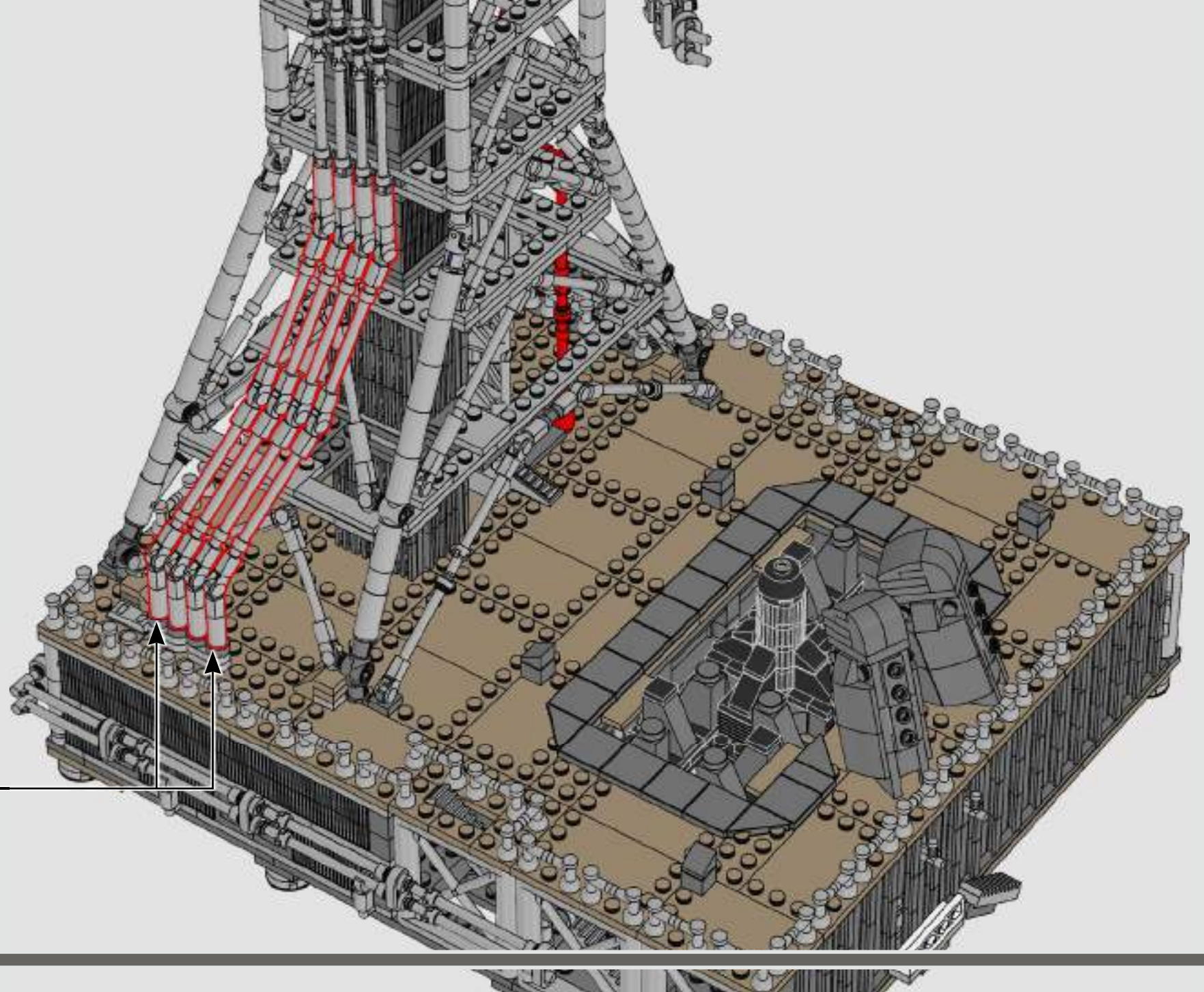
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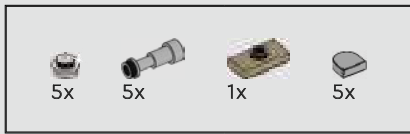


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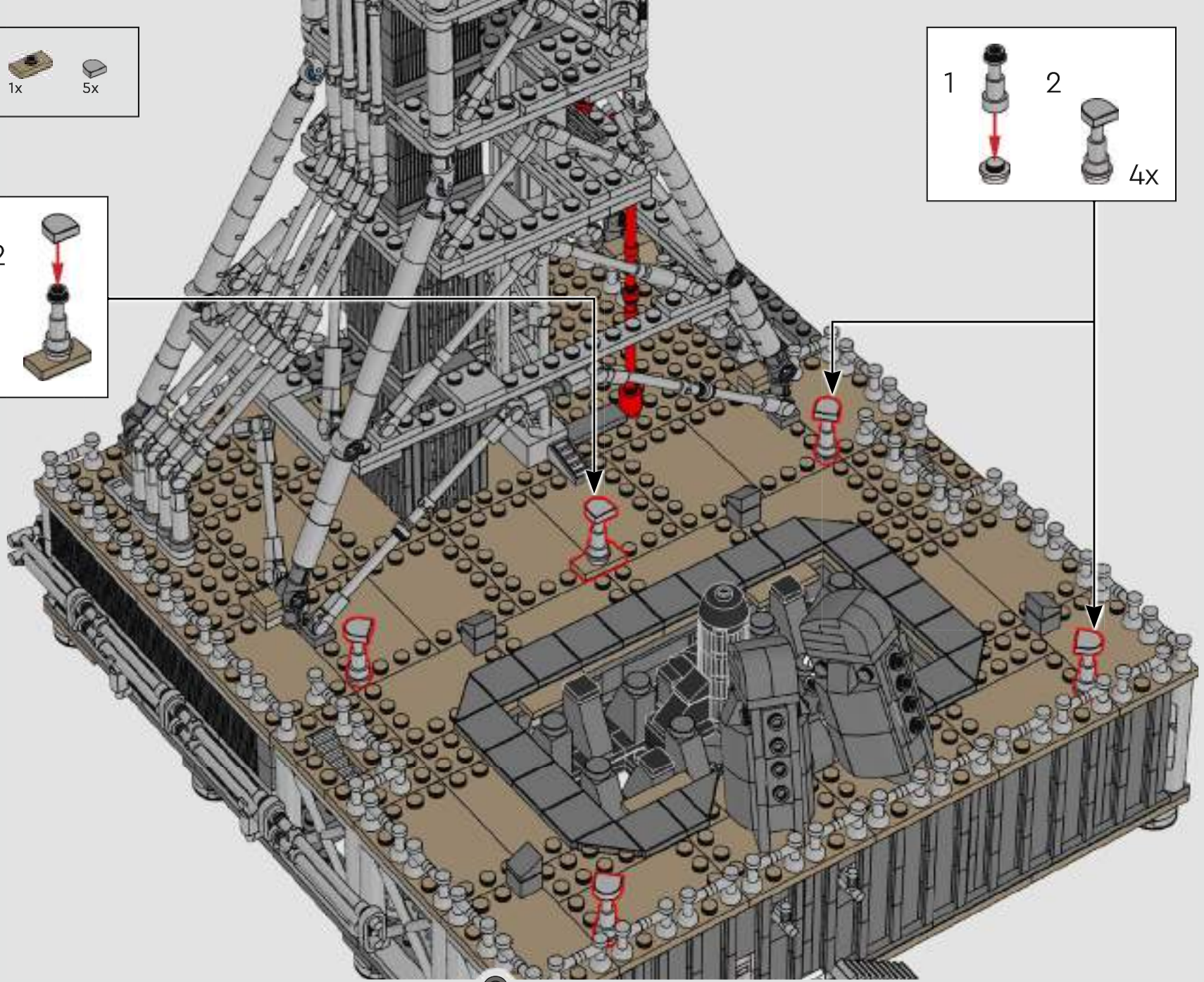
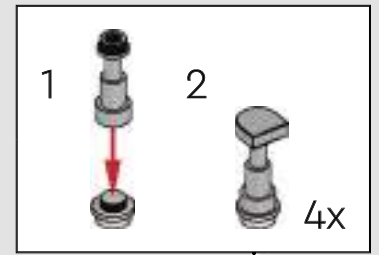
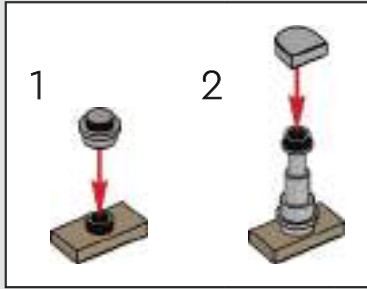


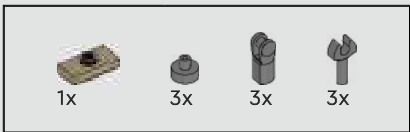
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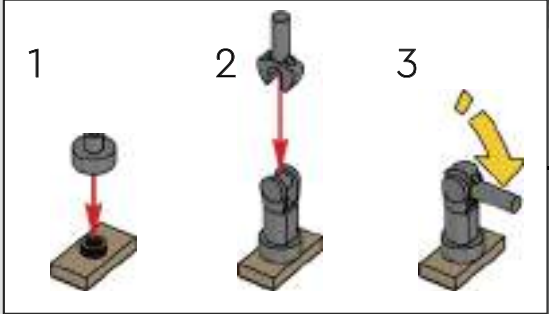
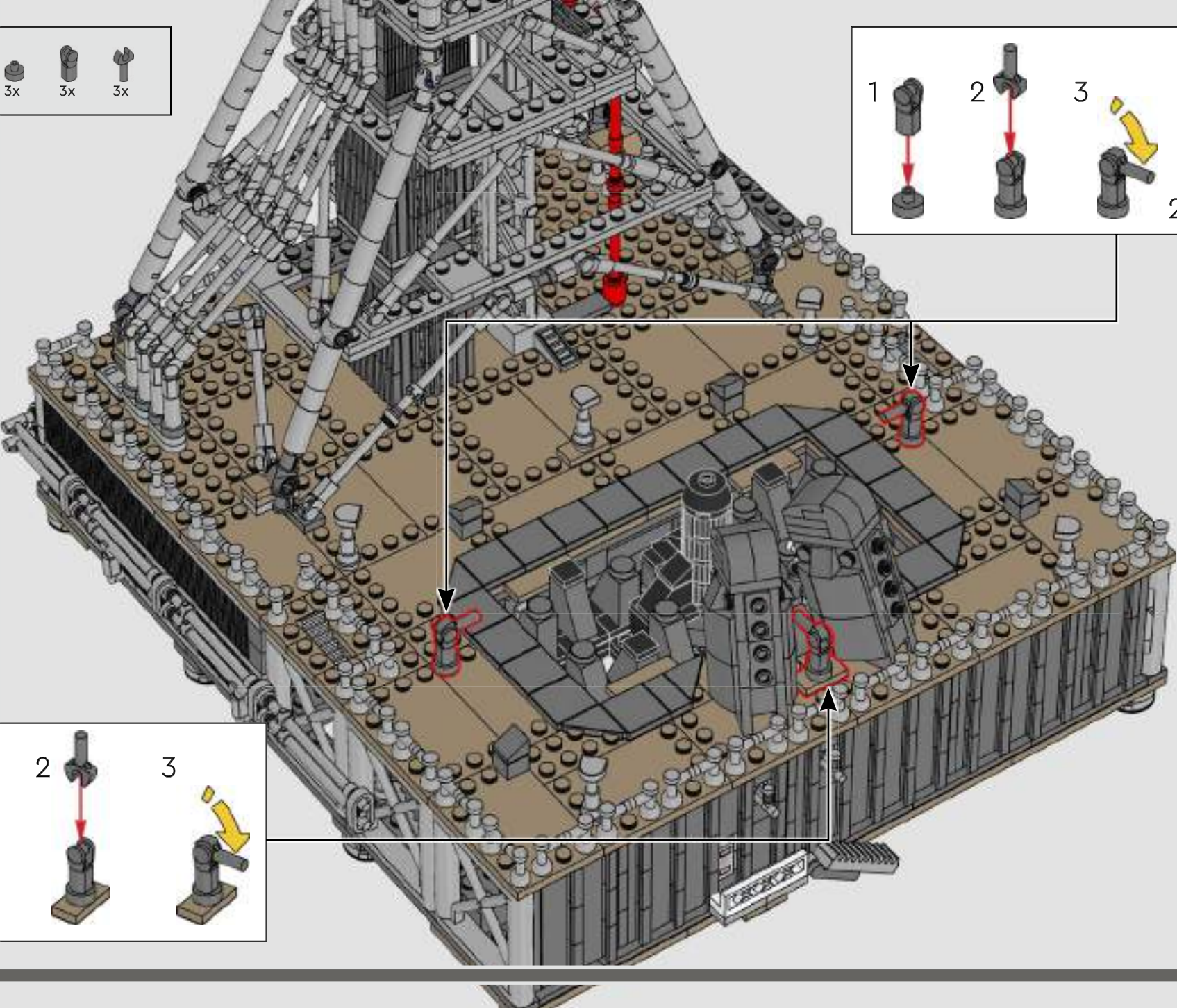
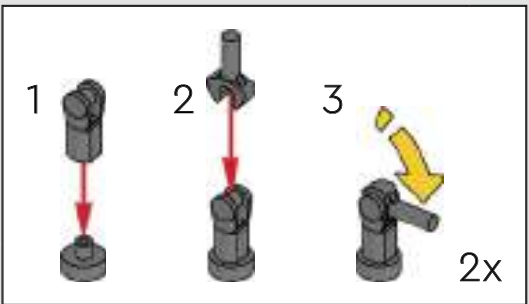


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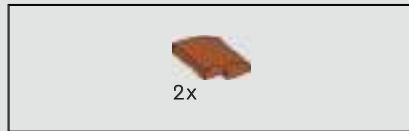
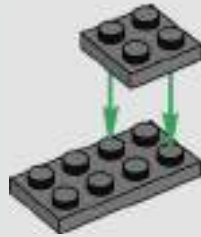


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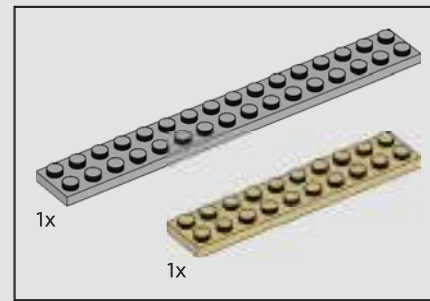




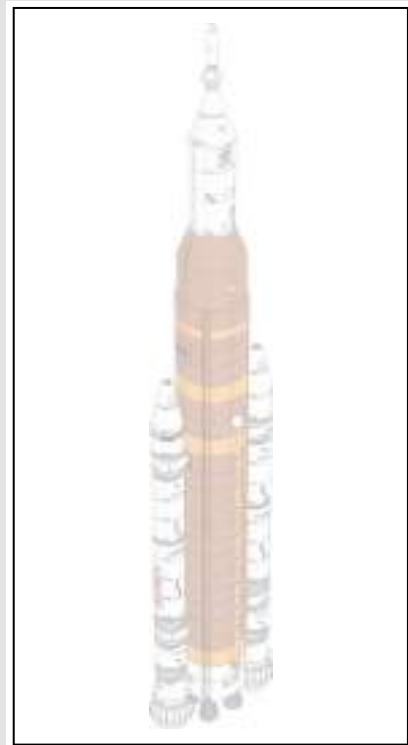
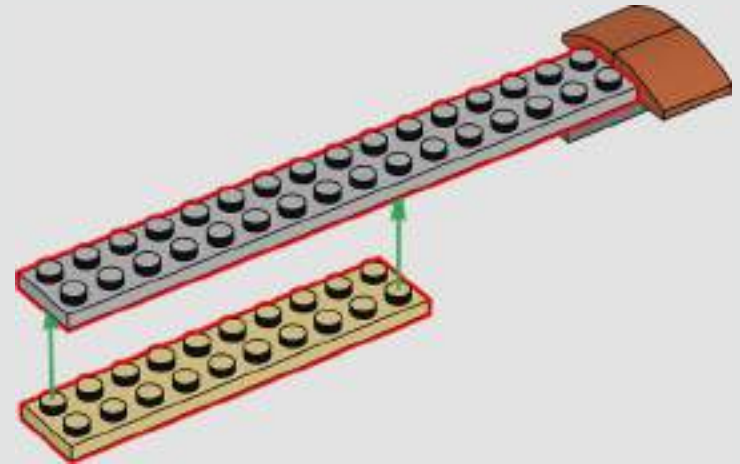
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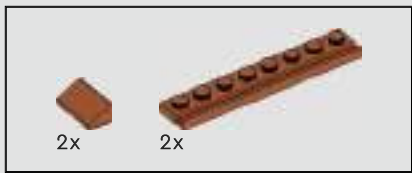


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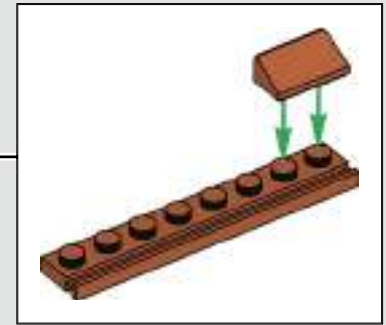
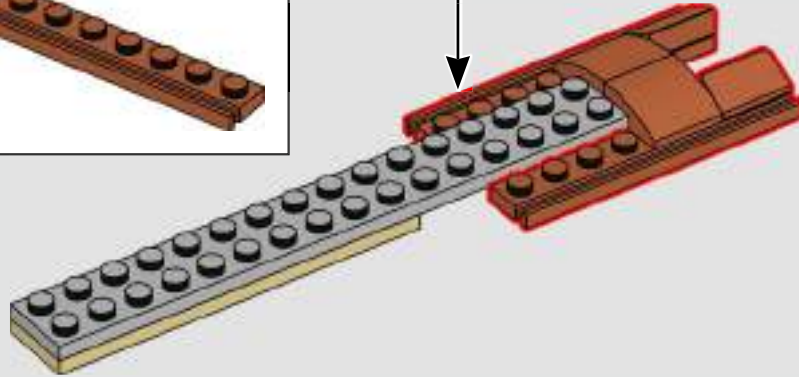
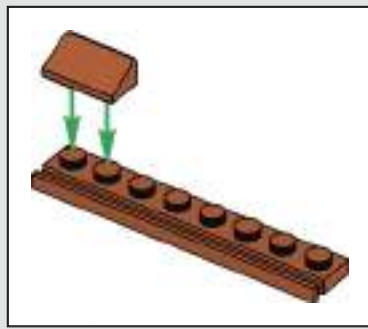


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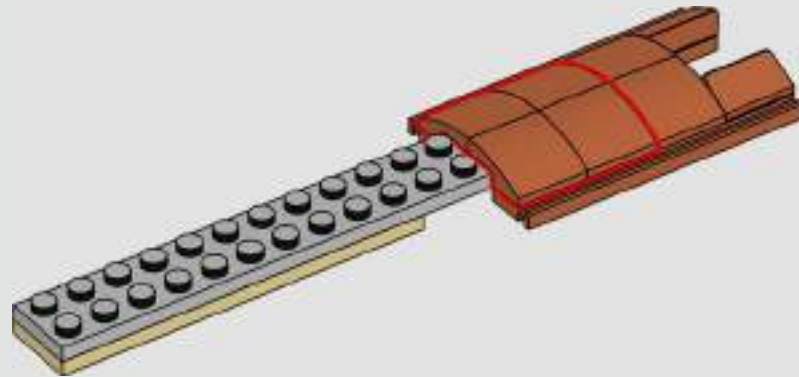


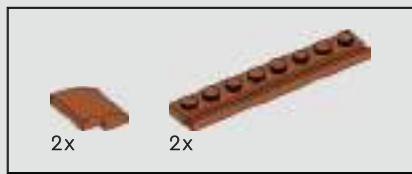


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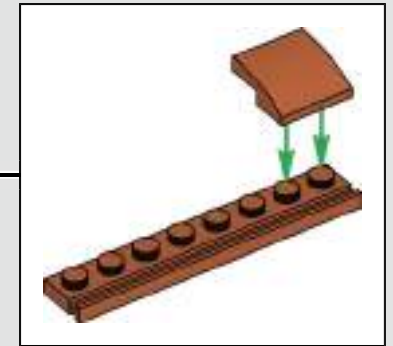
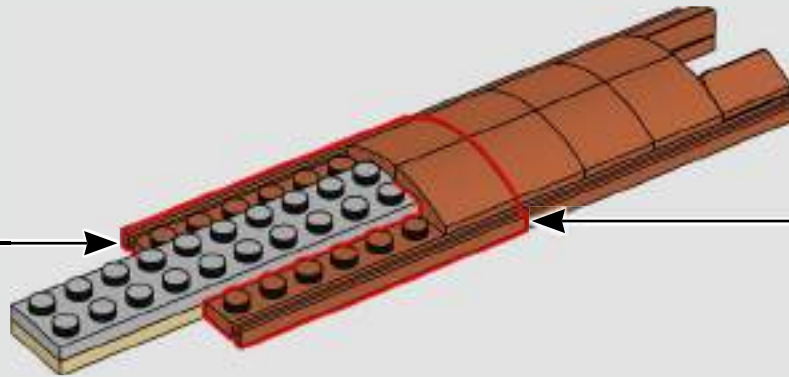
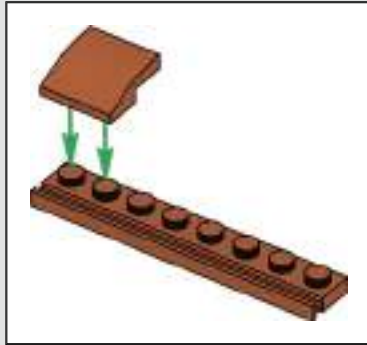


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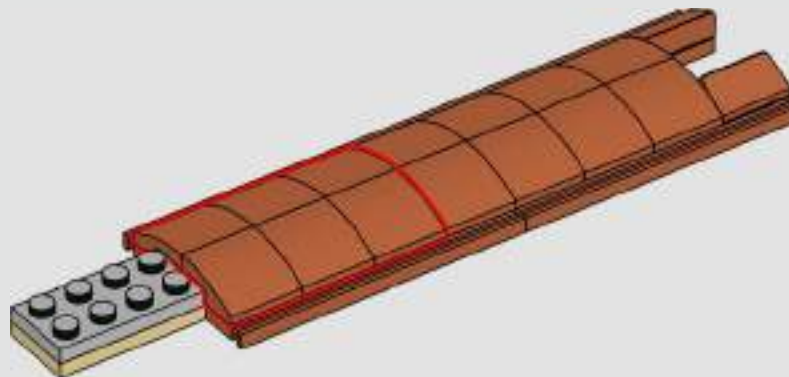


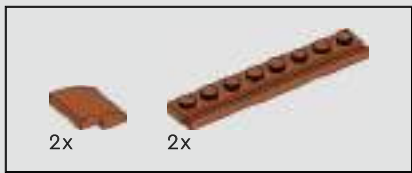


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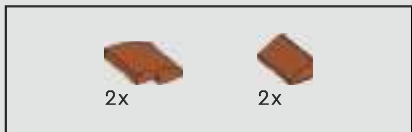
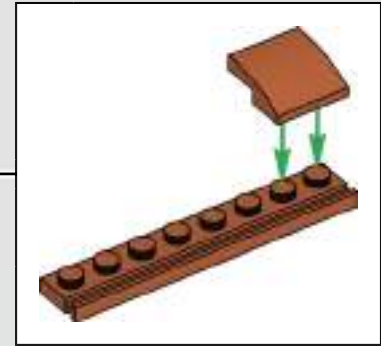
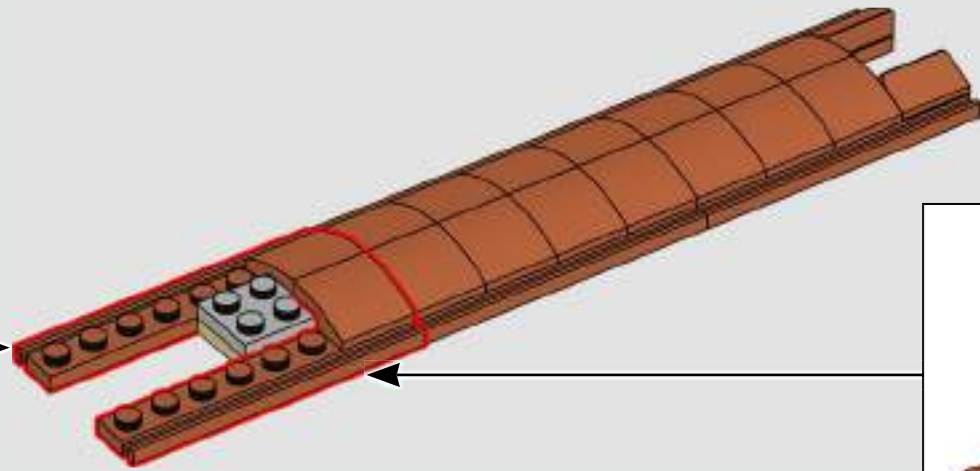
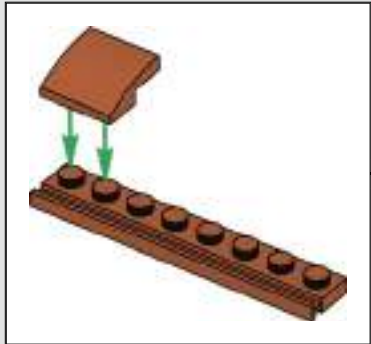


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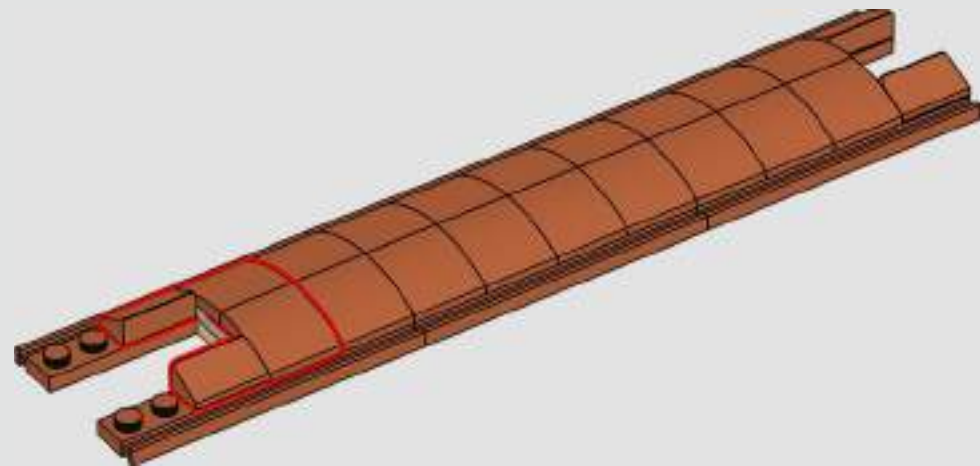


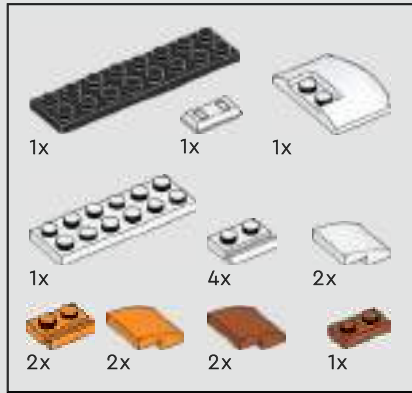


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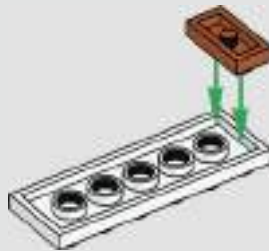
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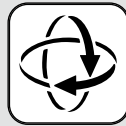


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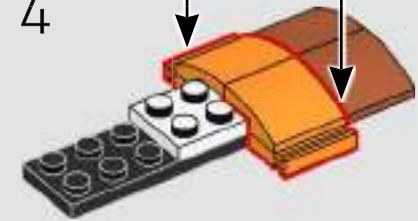
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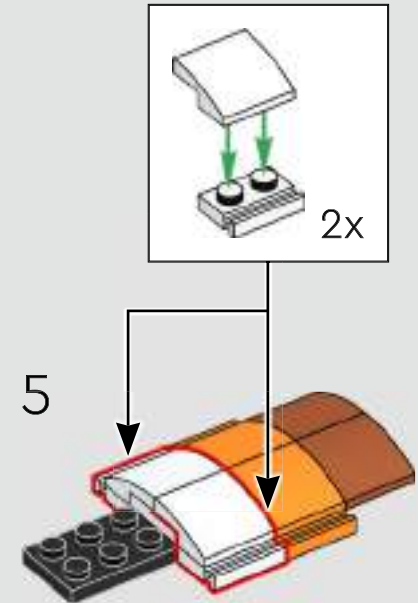
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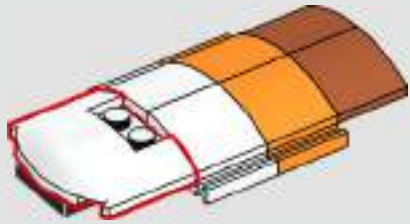
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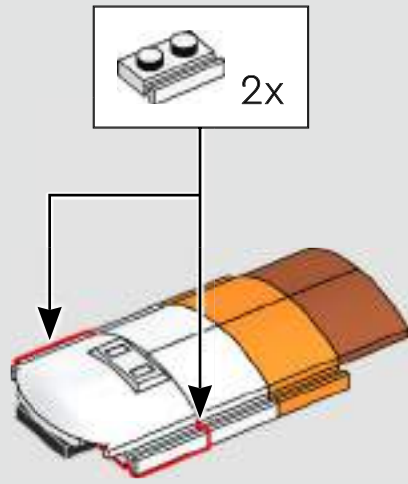
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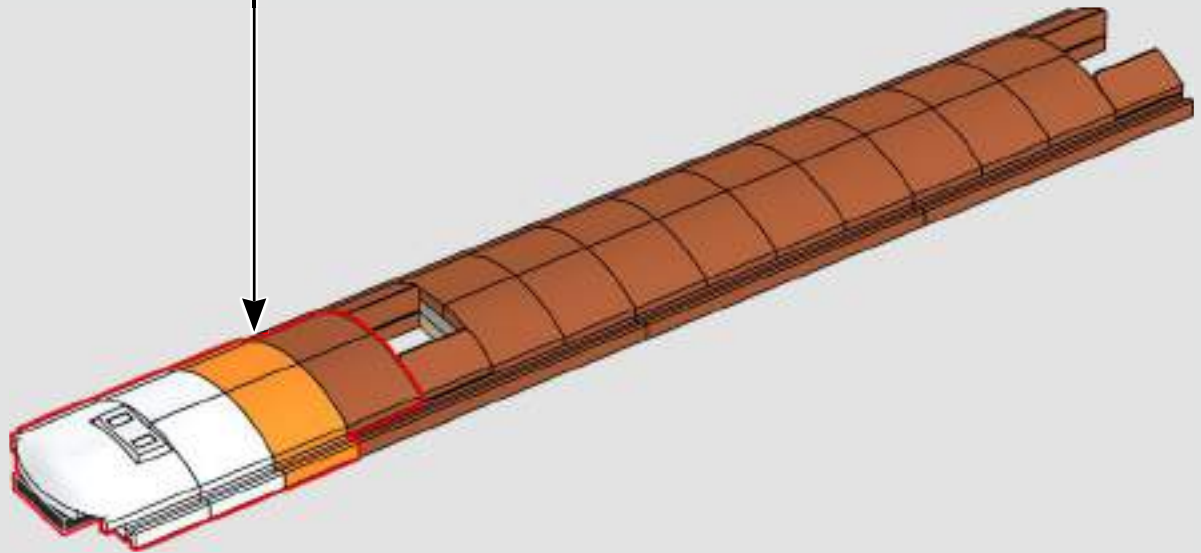
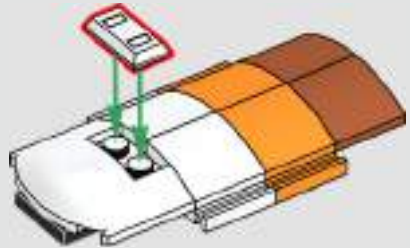
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8



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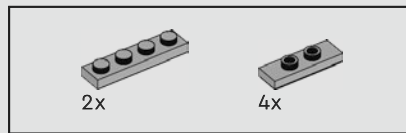




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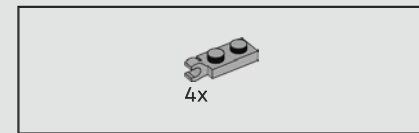
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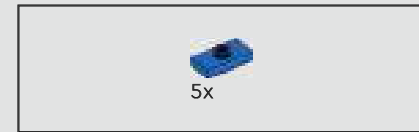
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450



451



452

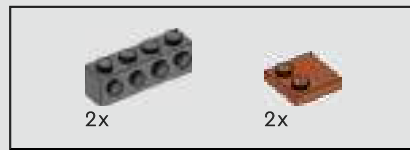




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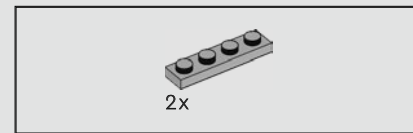
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455



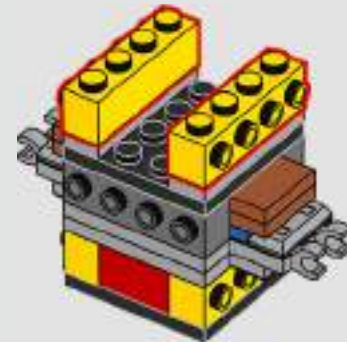
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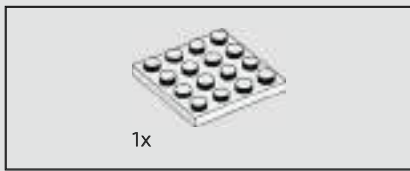


457



458

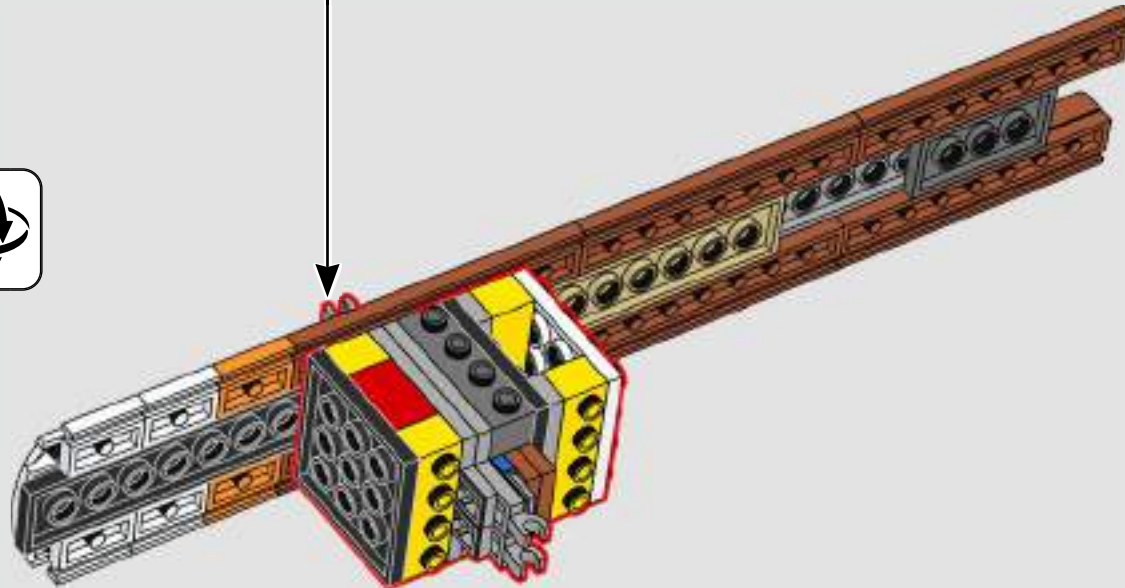




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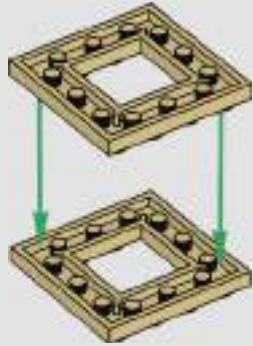


460





461



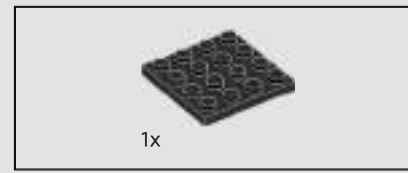
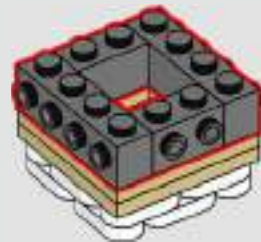
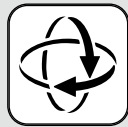
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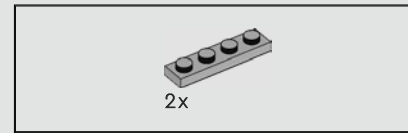
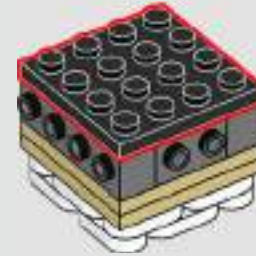
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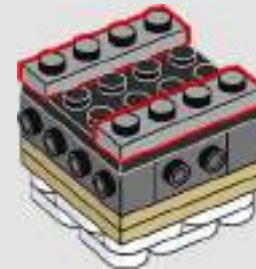
464



465



466





2x

467



1x

468



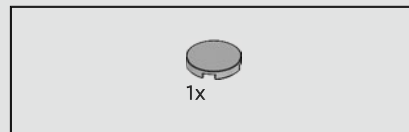
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469



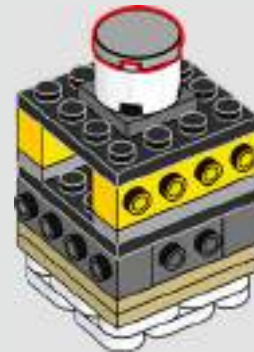
1x

470



1x

471

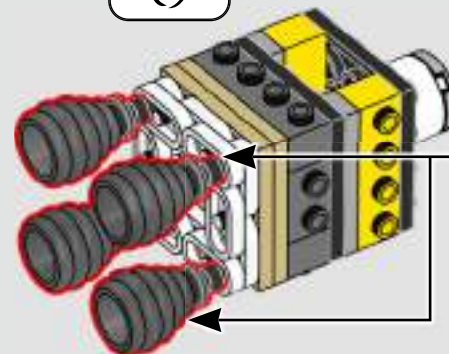
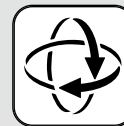


4x

4x

4x

472



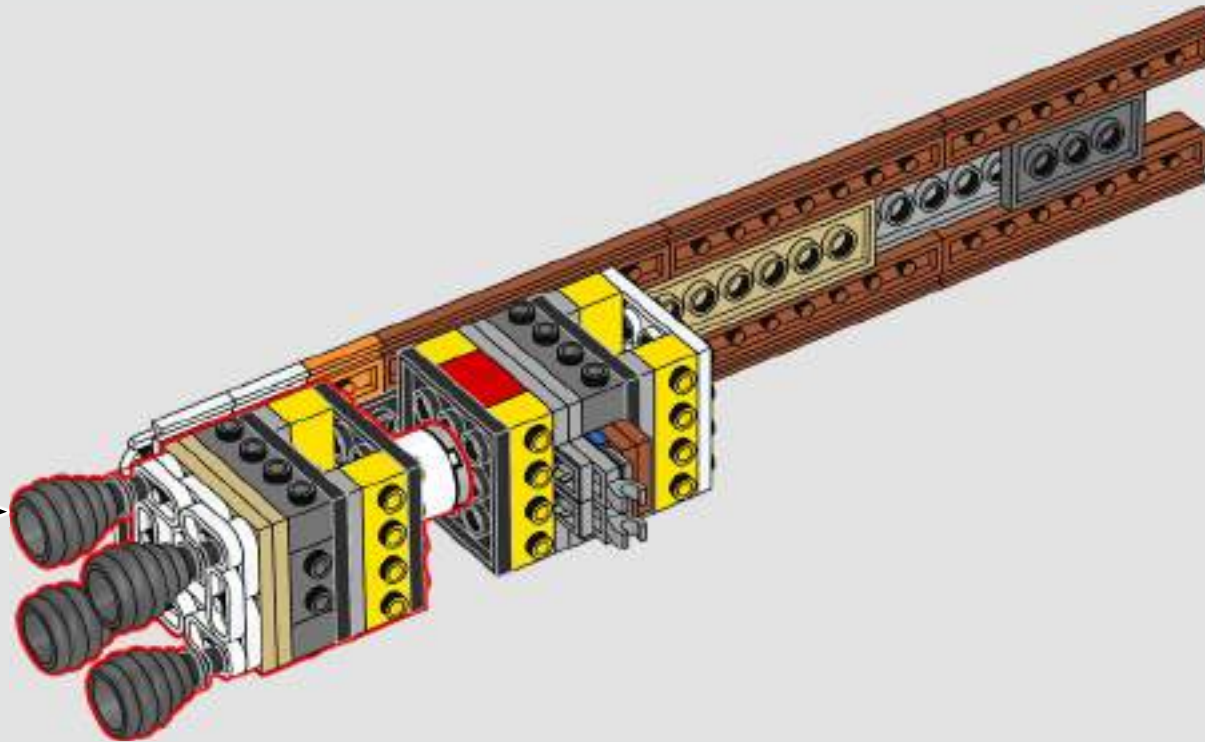
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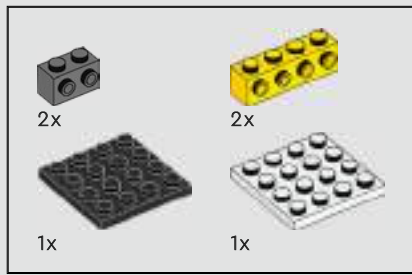
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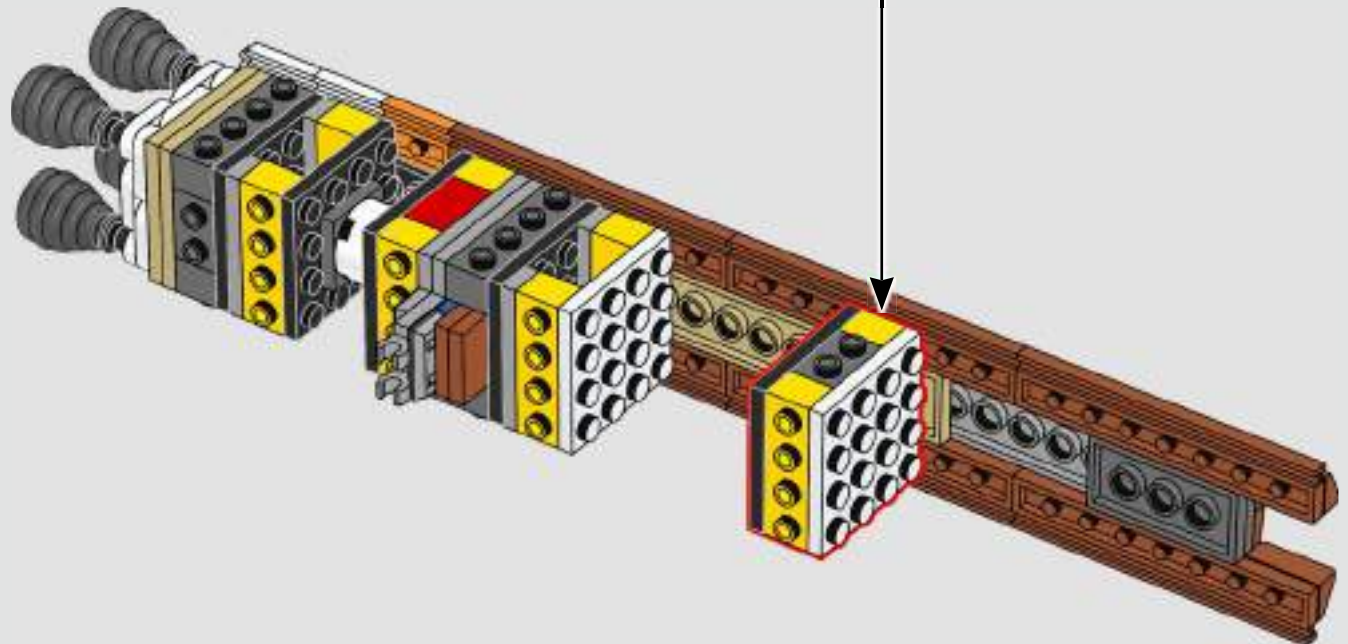
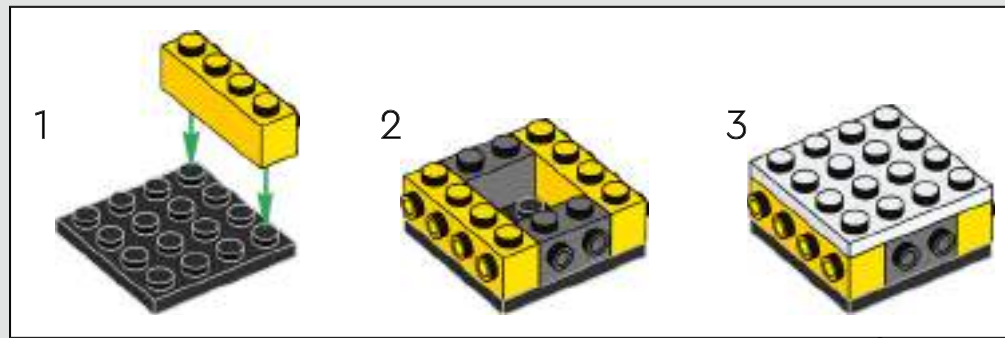
The LEGO® element used for the main engine nozzles was originally meant to depict a beehive but is called 'Mini hat no. 54'.

473



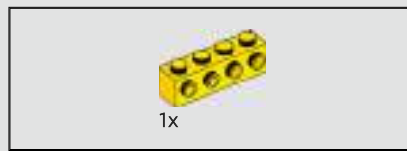


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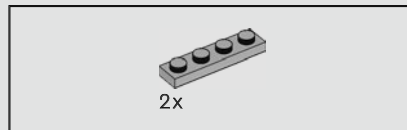




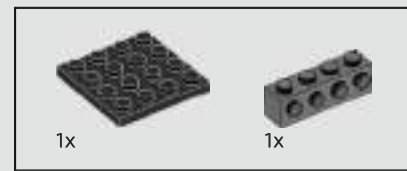
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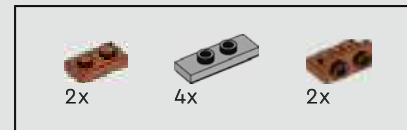
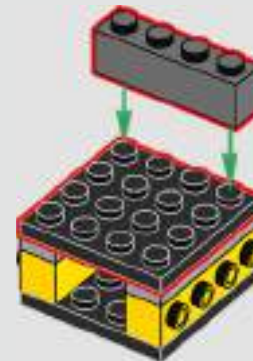
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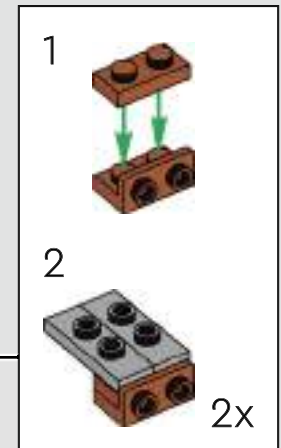
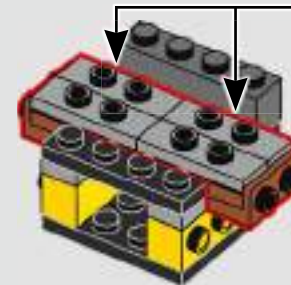
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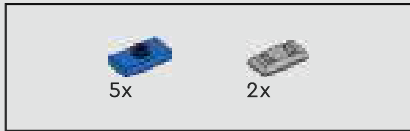


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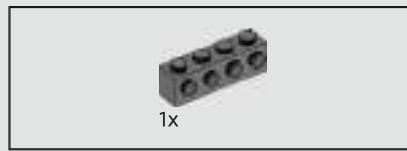
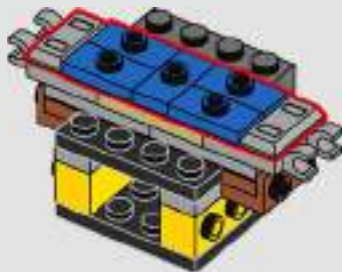




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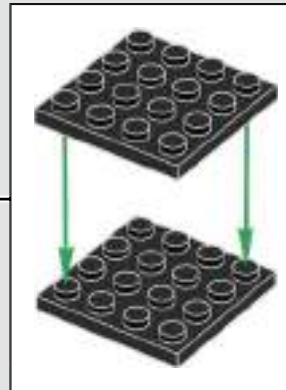
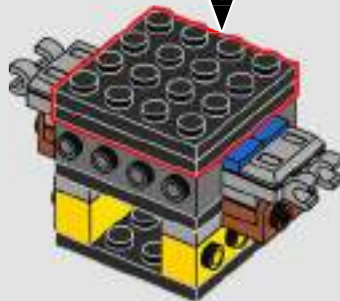
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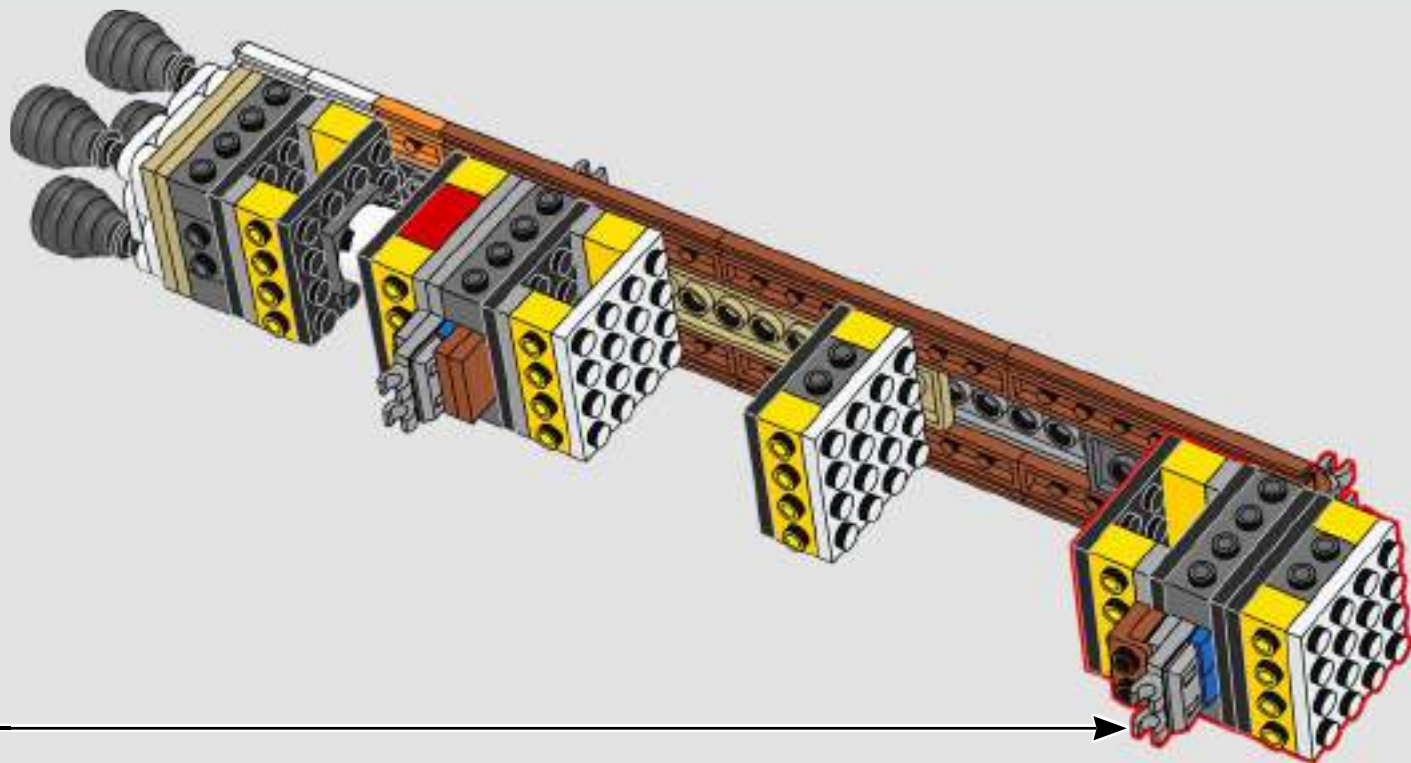
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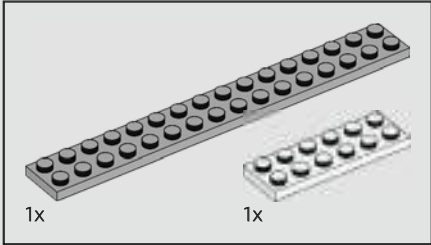
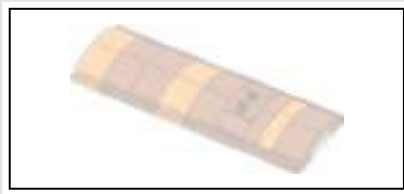


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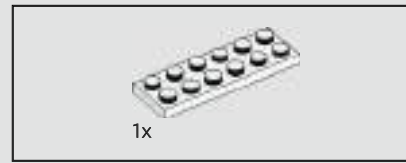
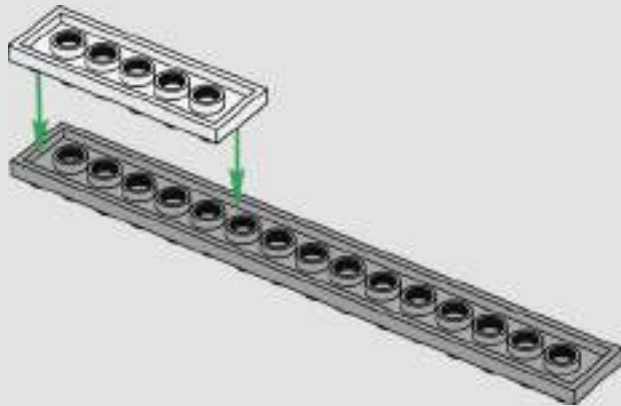


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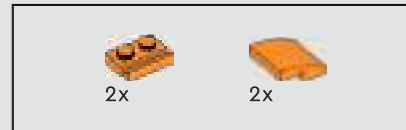
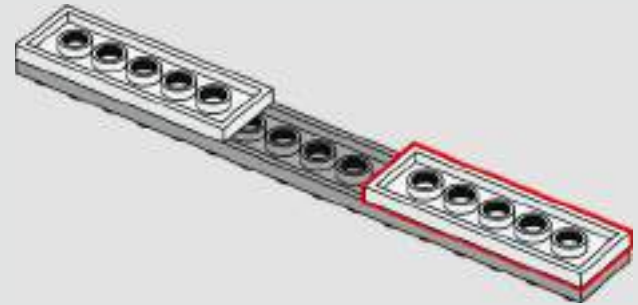




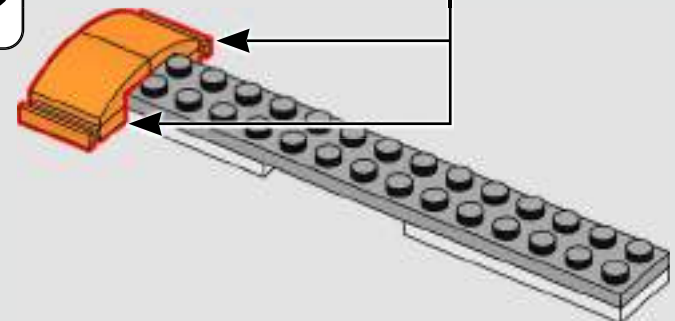
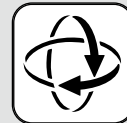
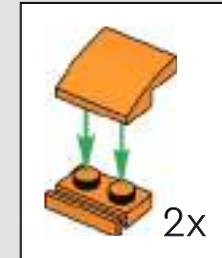
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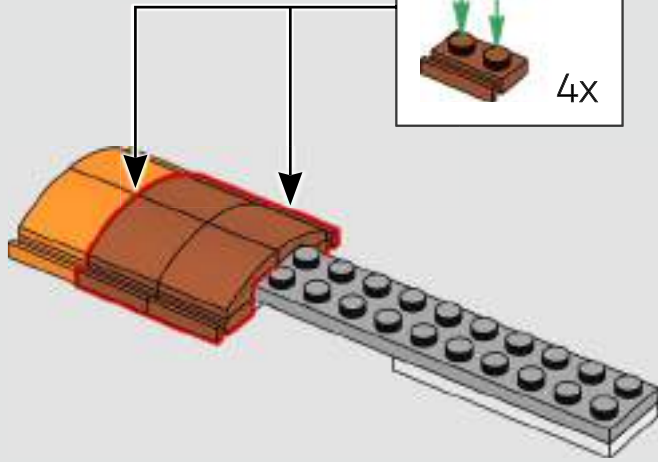
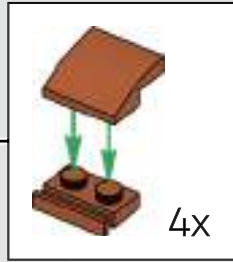


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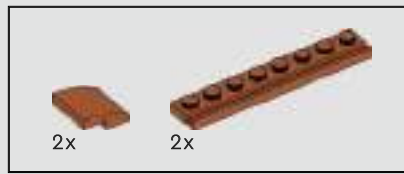
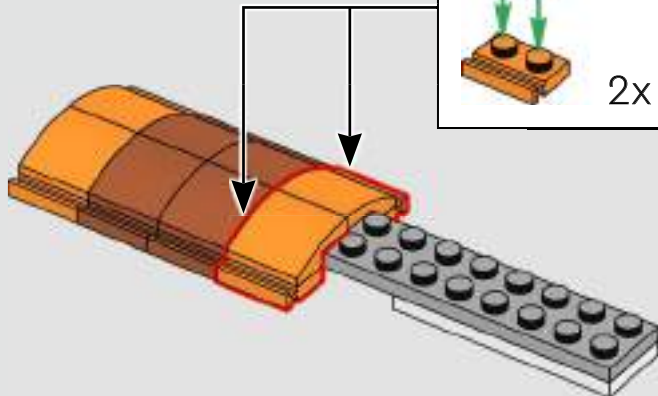
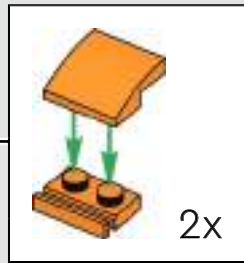




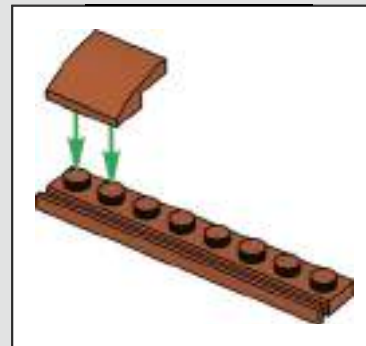
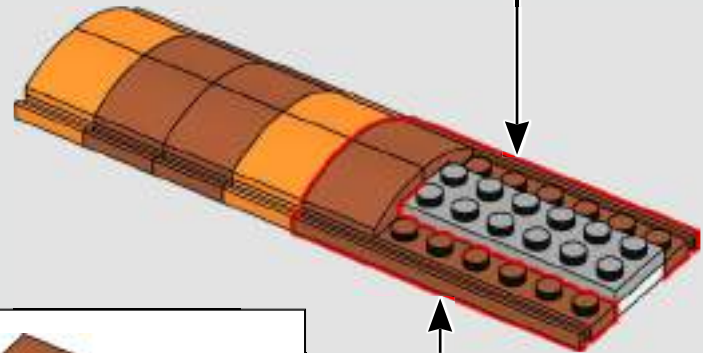
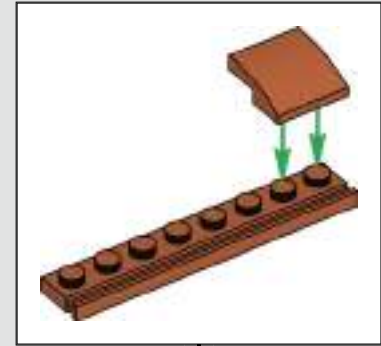
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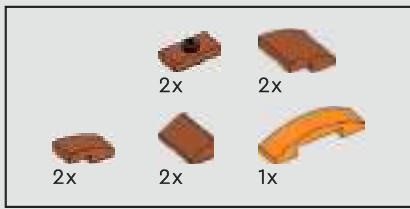


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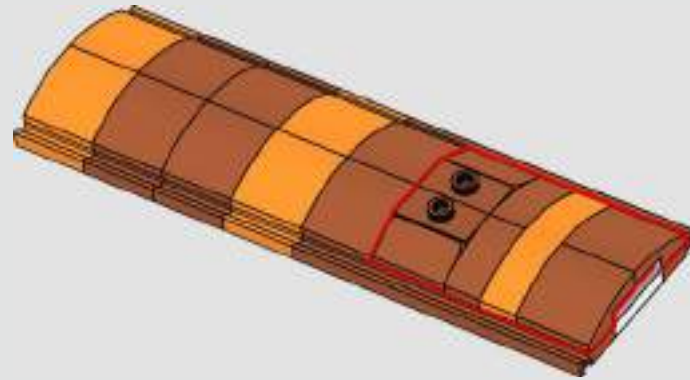


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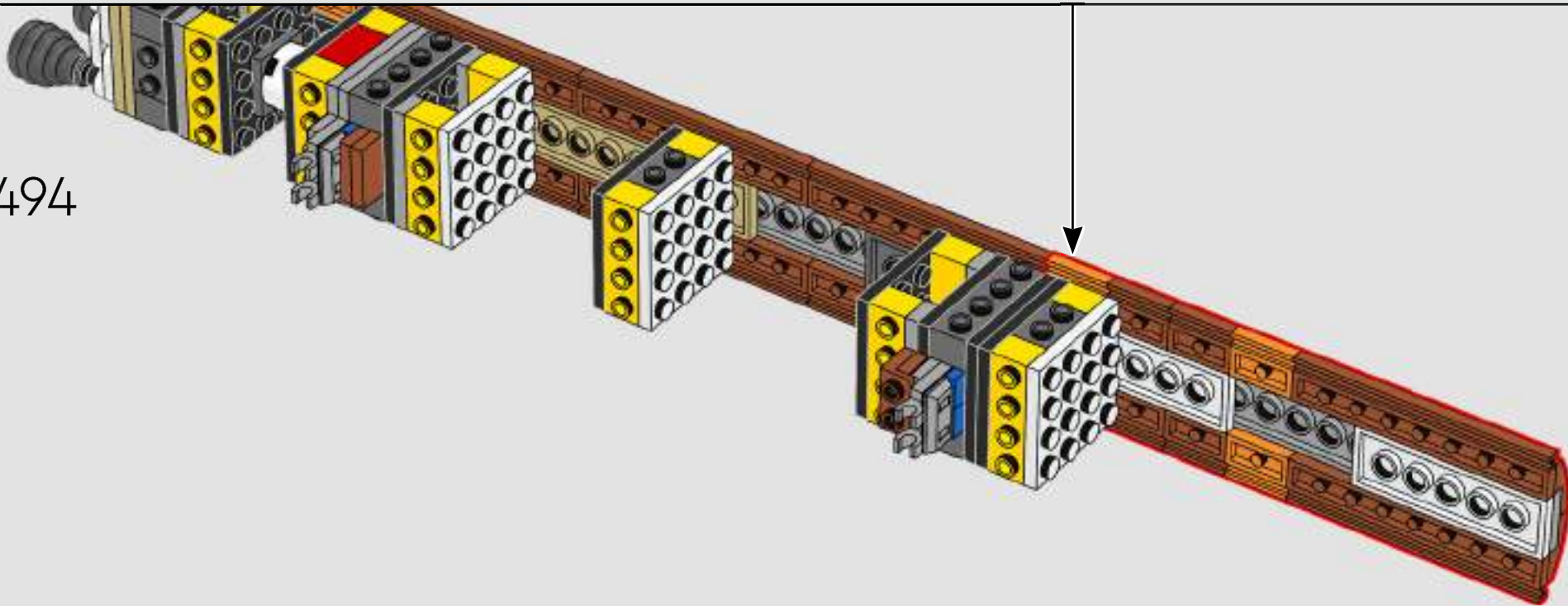




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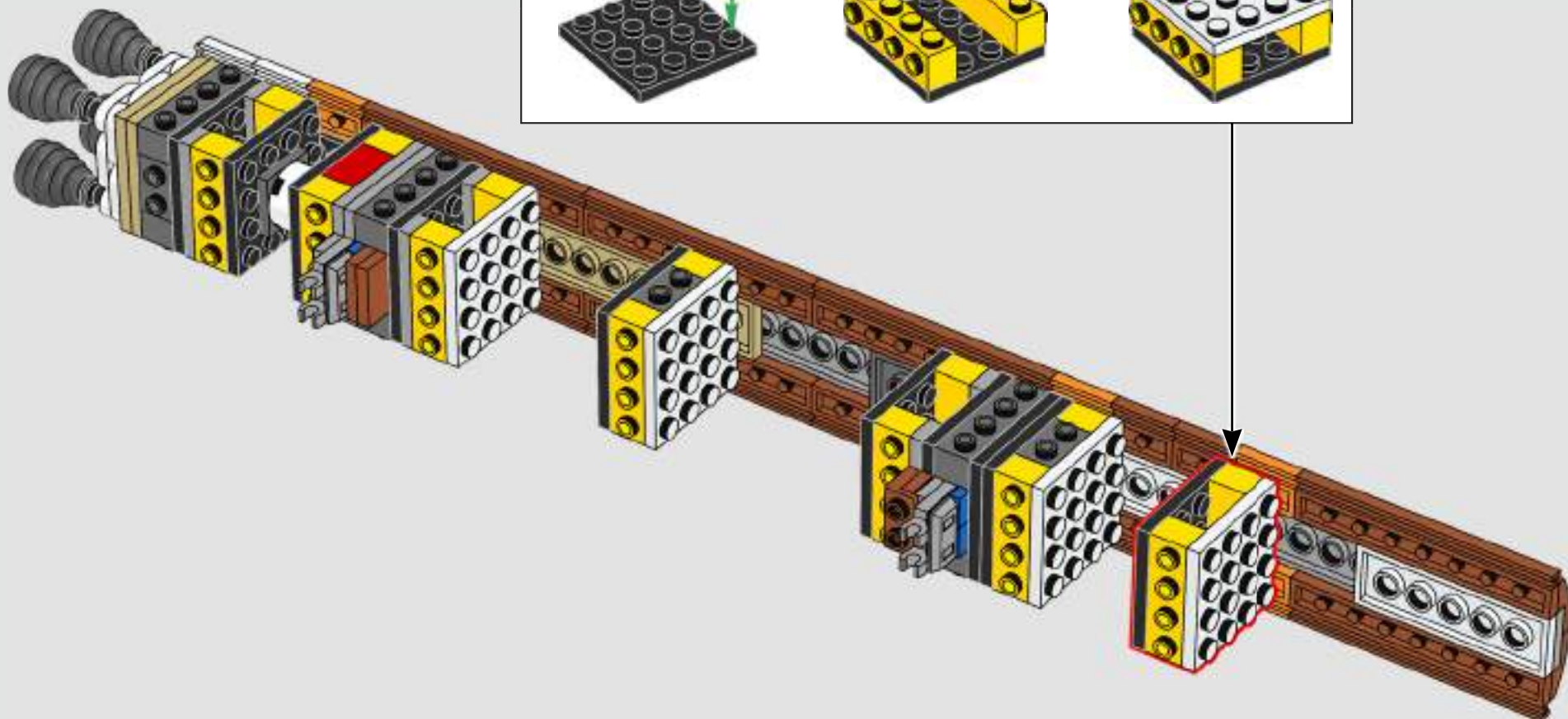
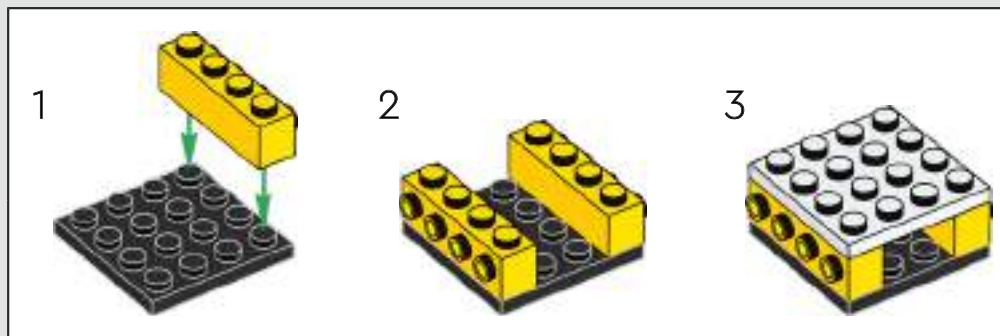


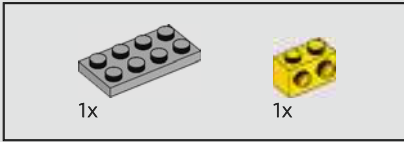
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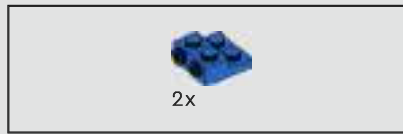




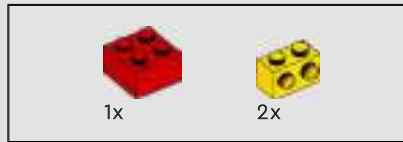
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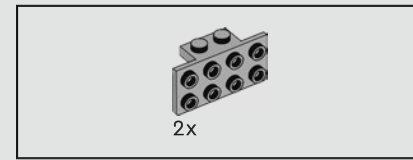
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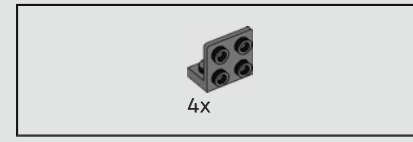
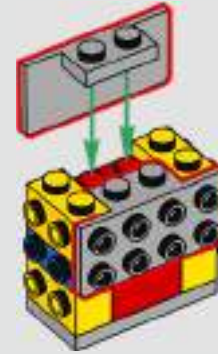
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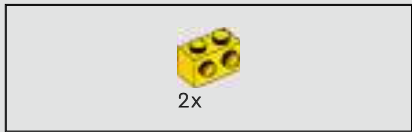
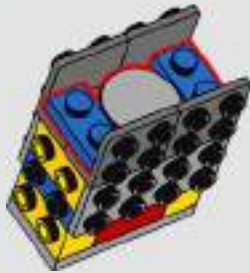


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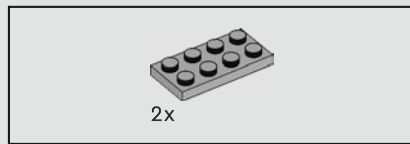




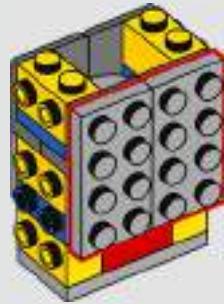
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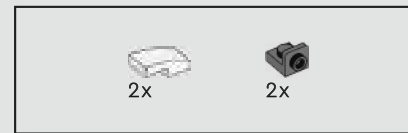
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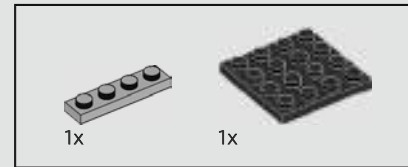
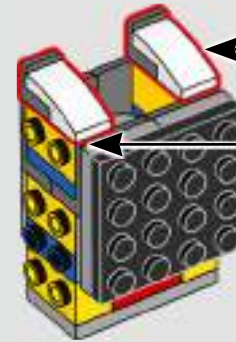
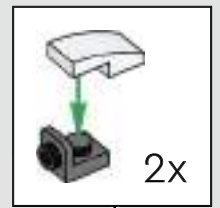
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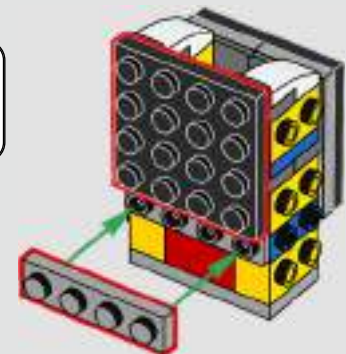
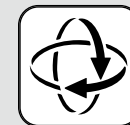
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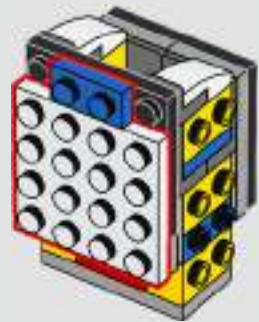


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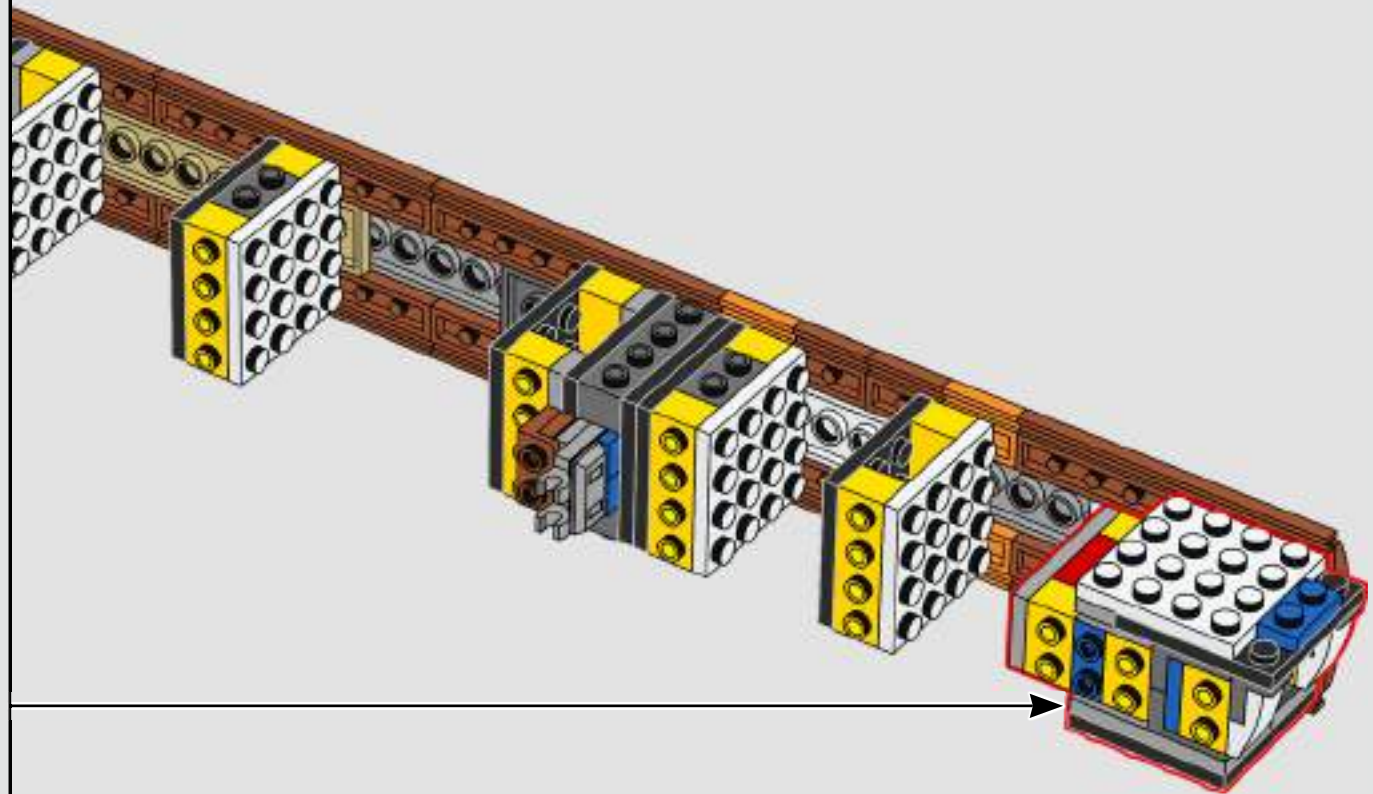




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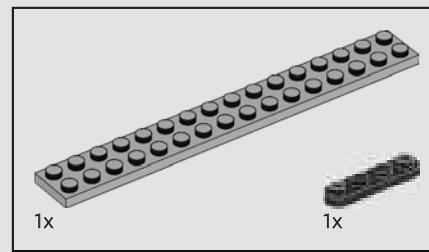


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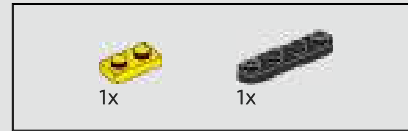
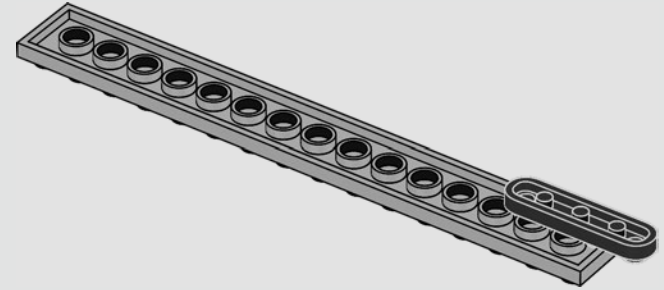


The core stage was developed specifically for the SLS. It consists of propellant tanks, avionics and related equipment. The four RS-25 engines provide attachment points for the boosters.

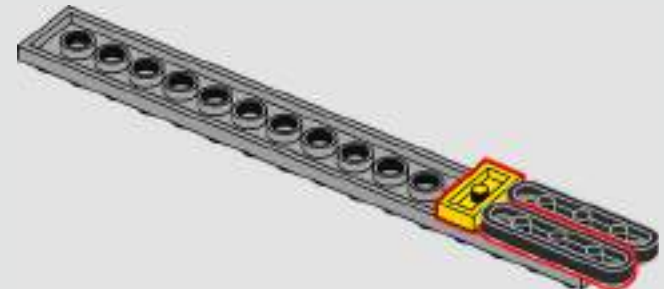




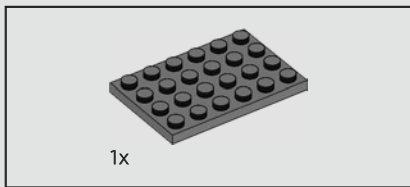
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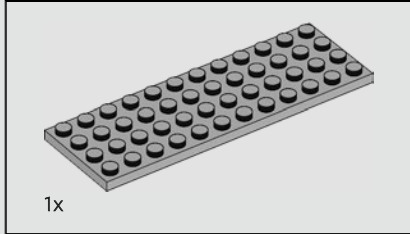
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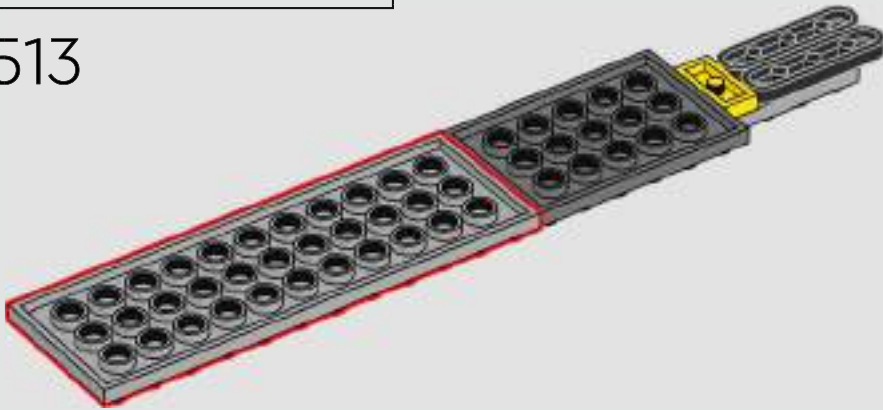
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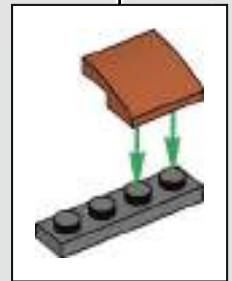
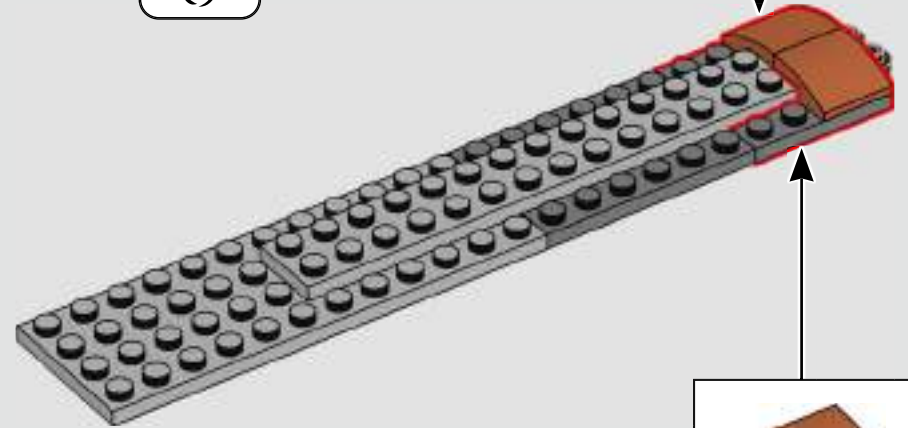
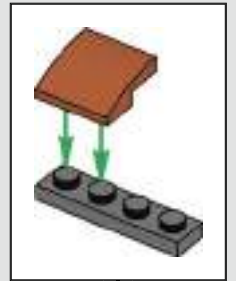
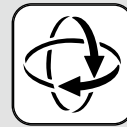
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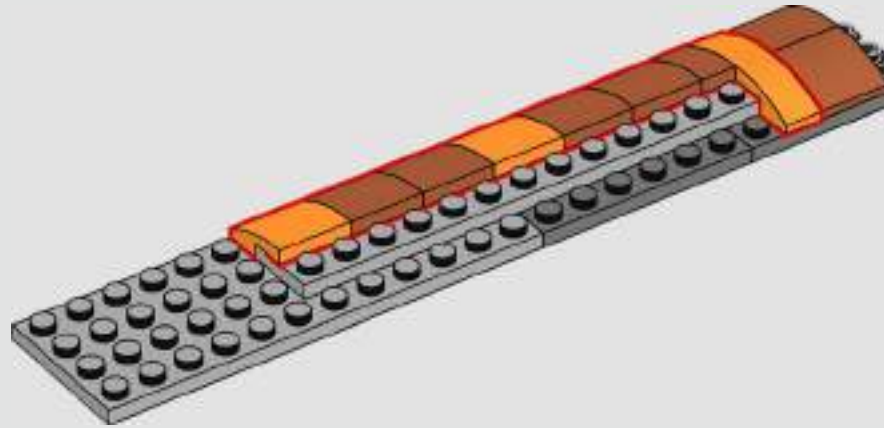


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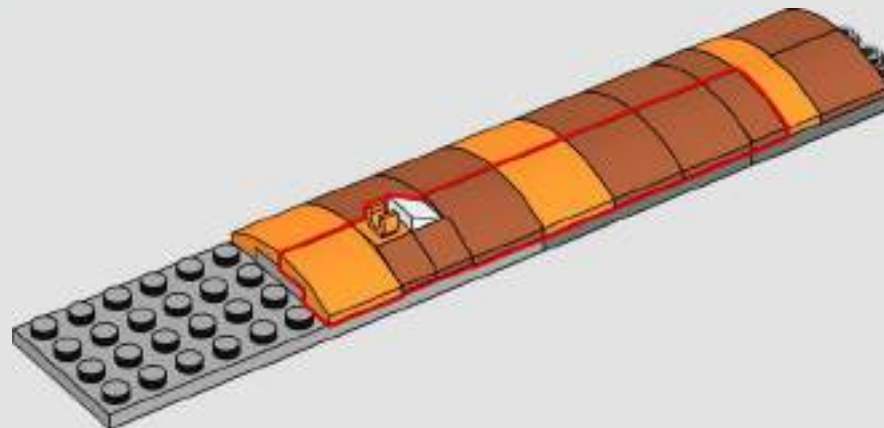


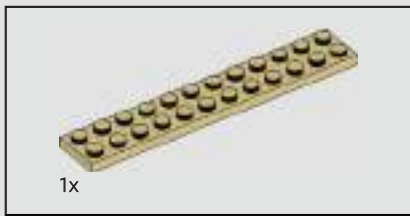


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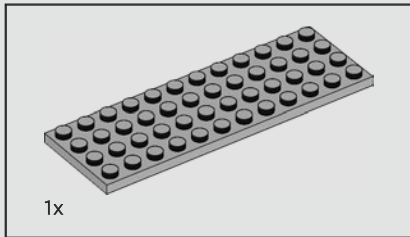
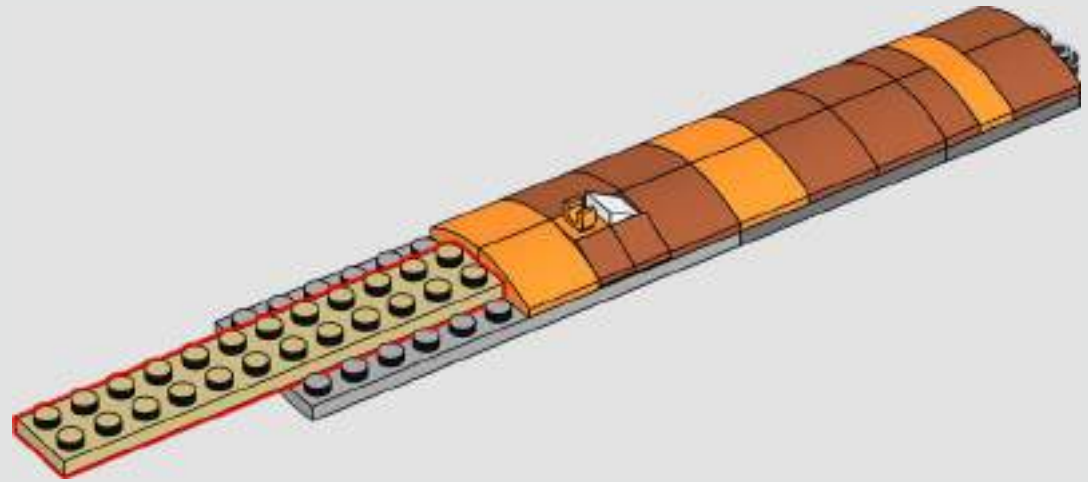


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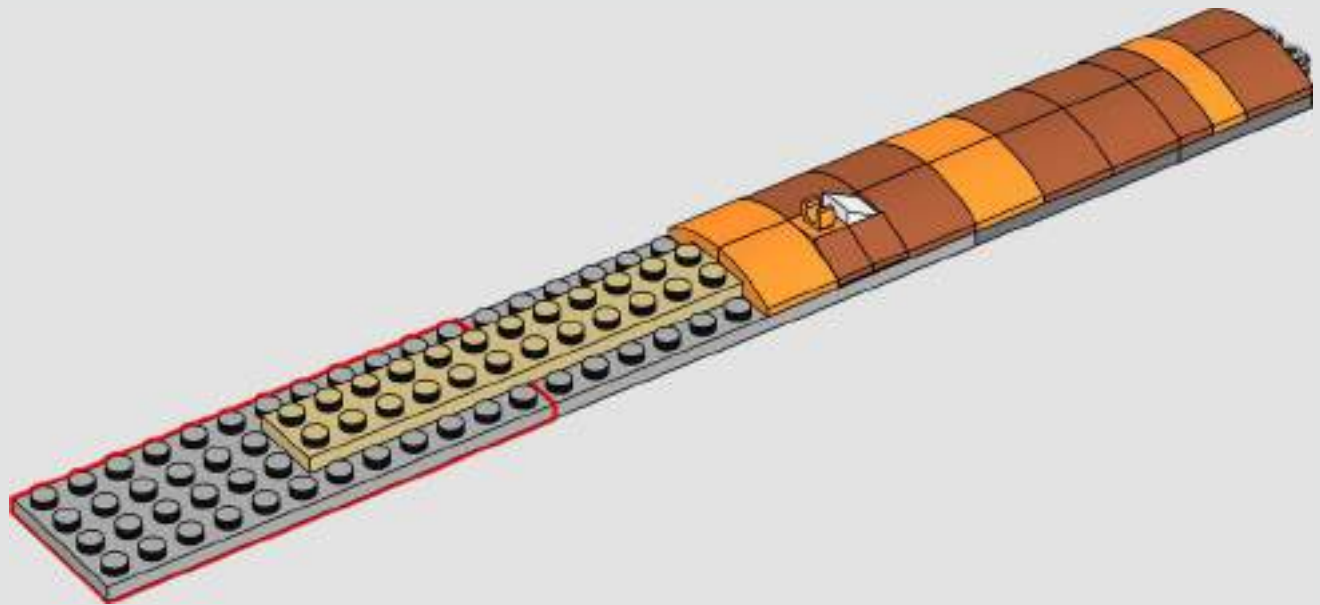




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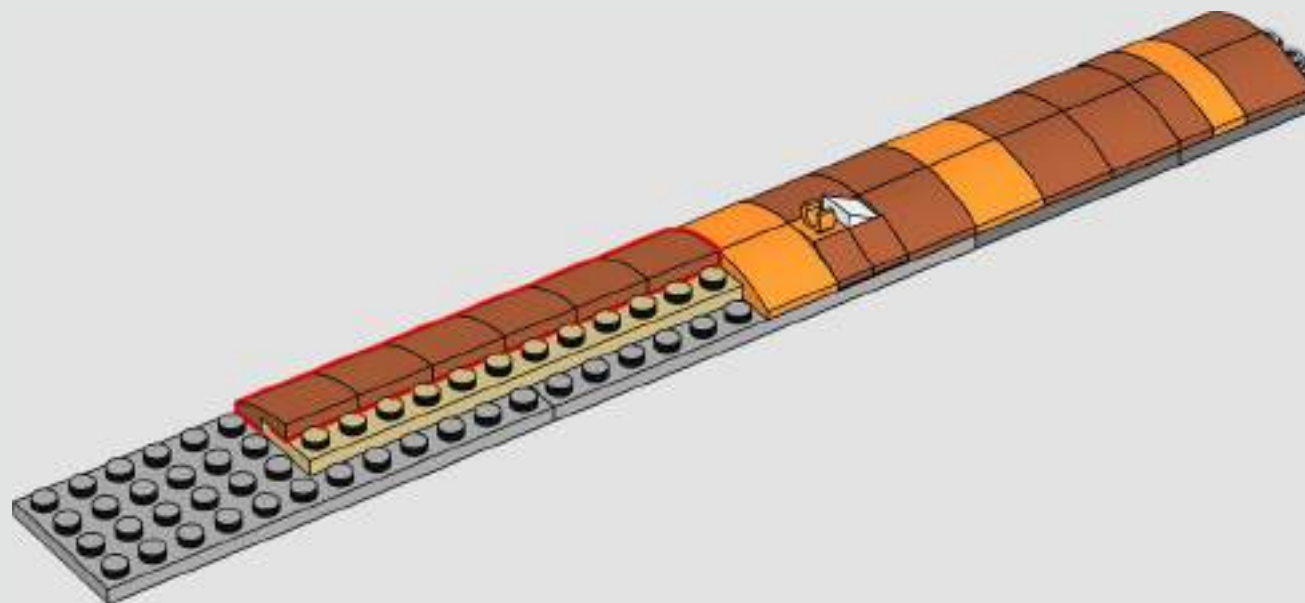


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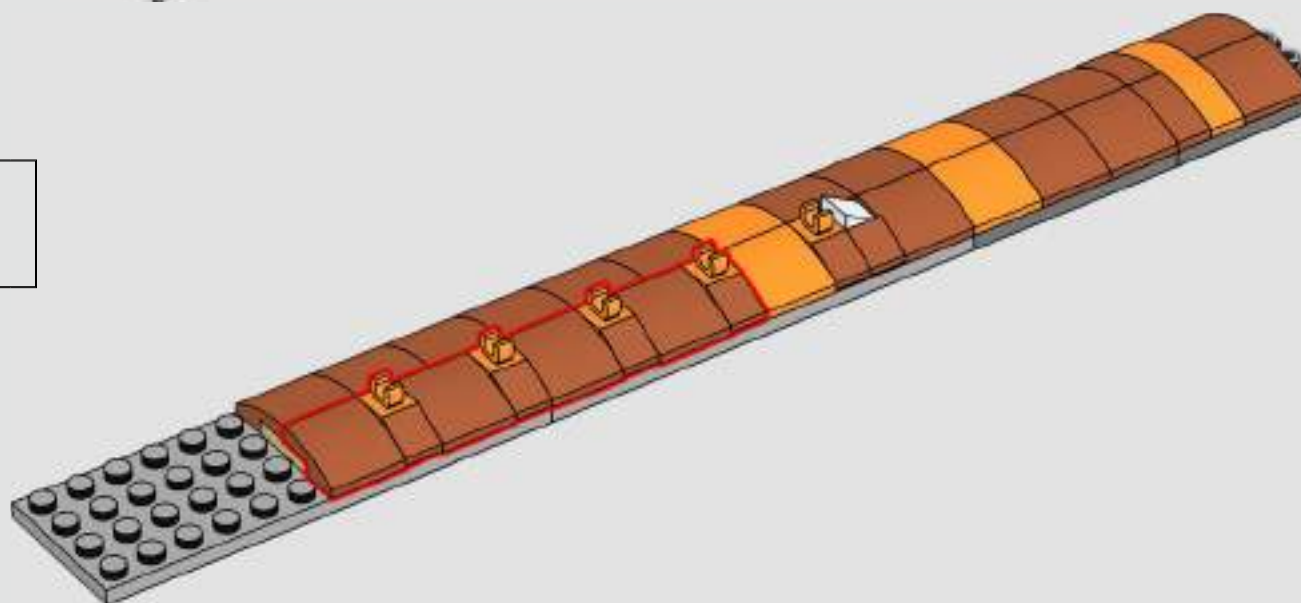


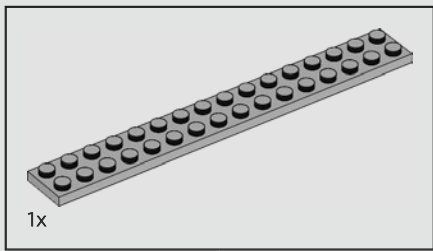


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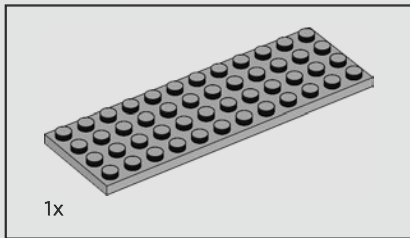
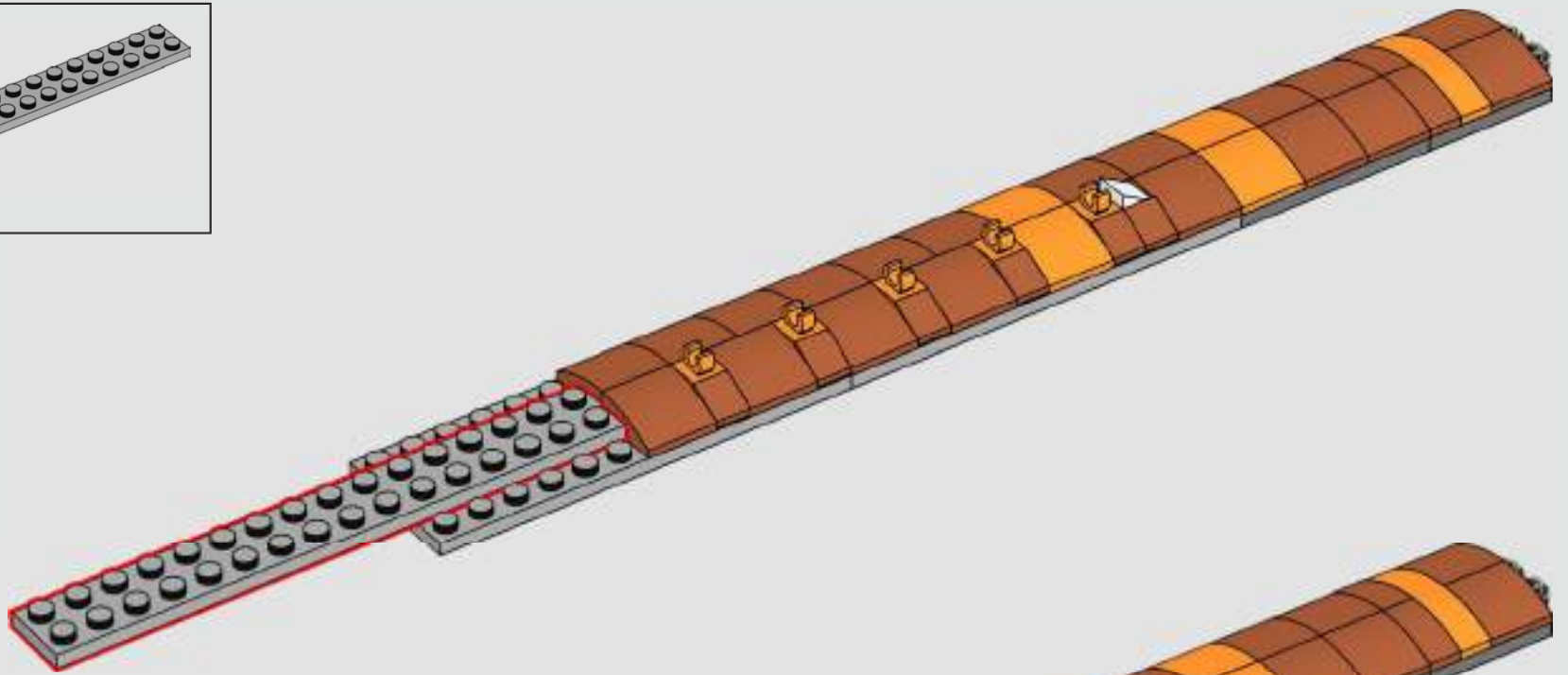


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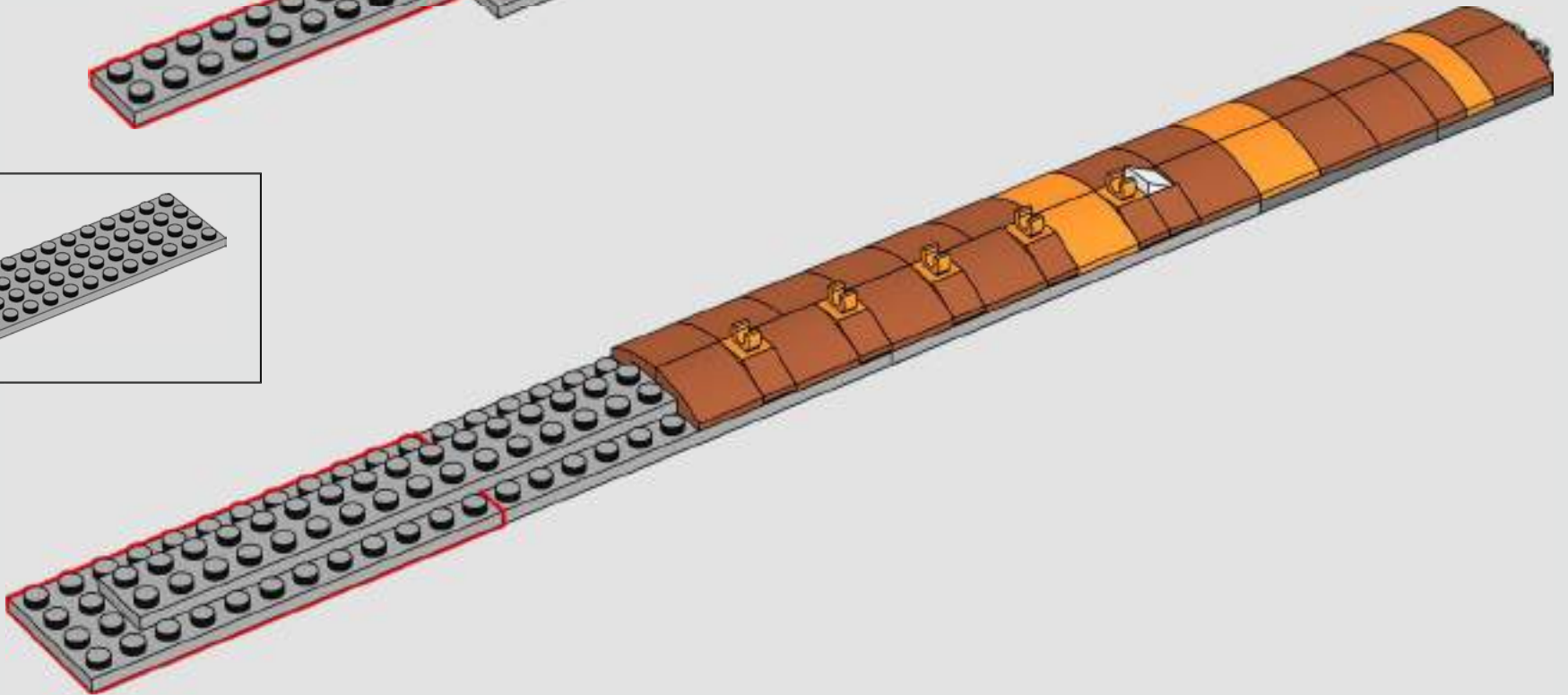




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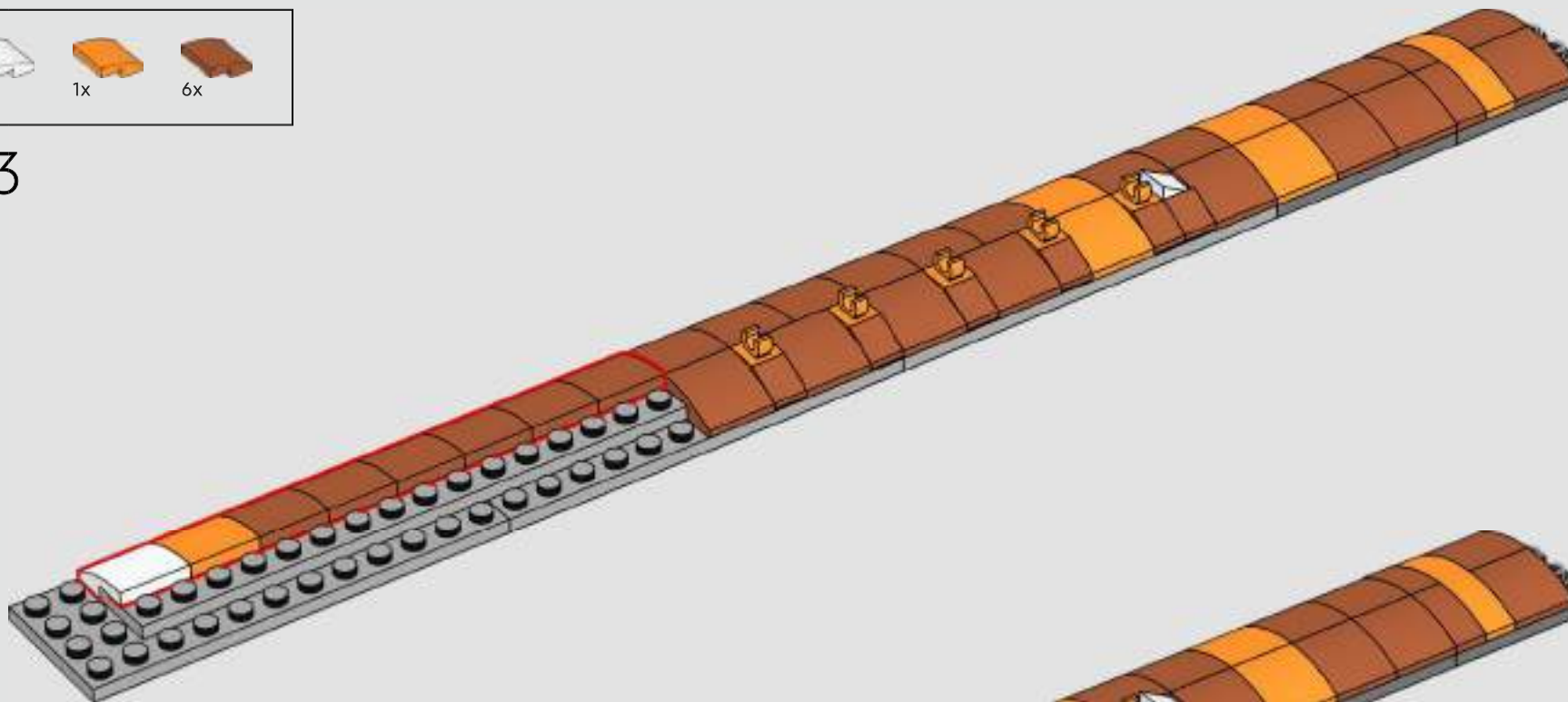


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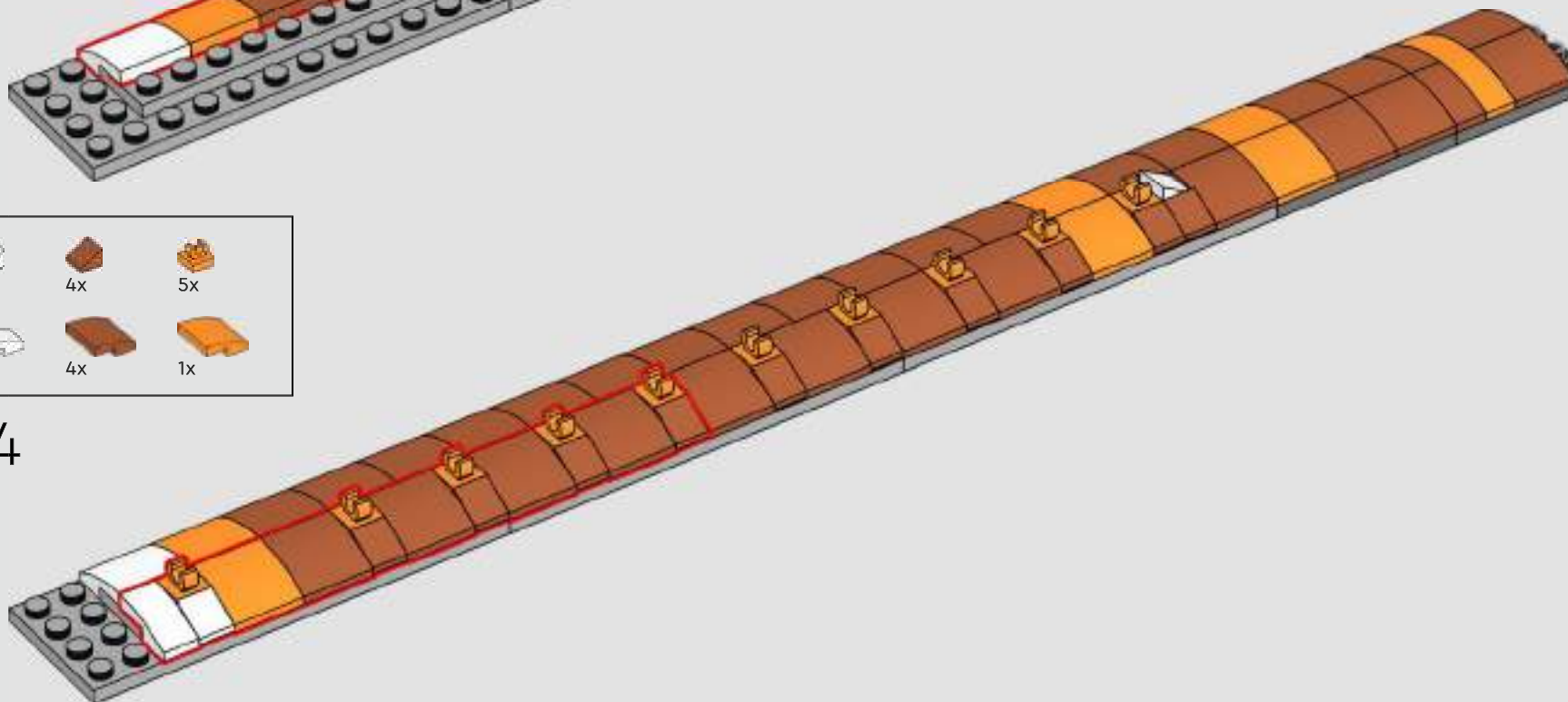




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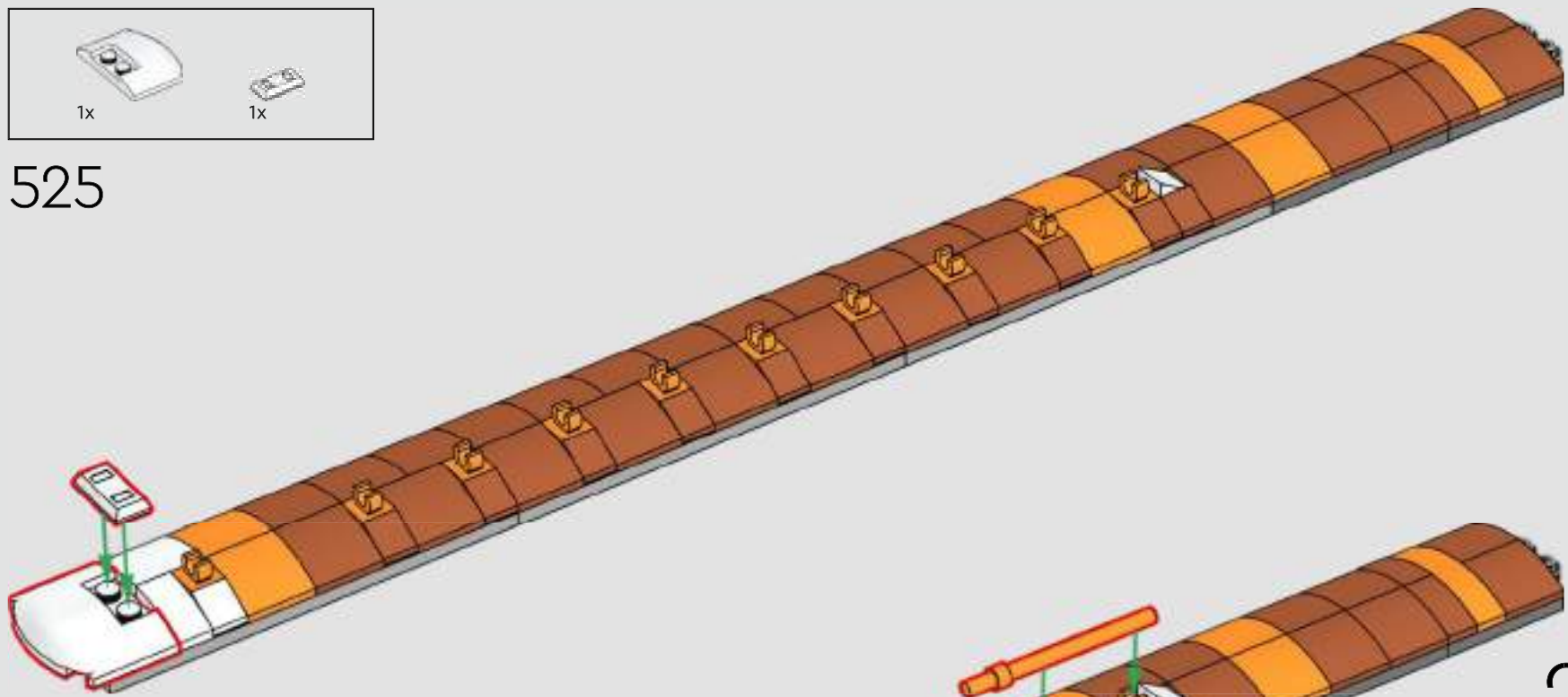


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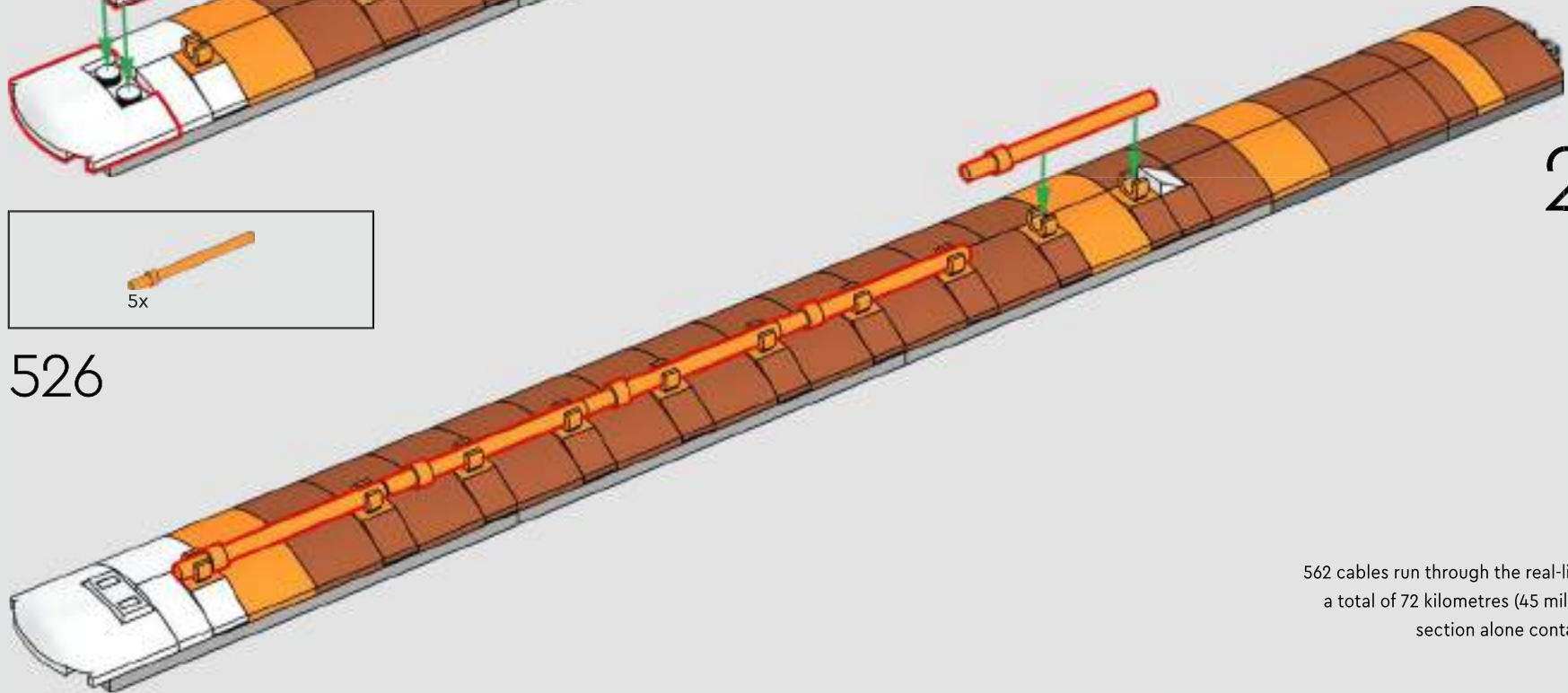




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526

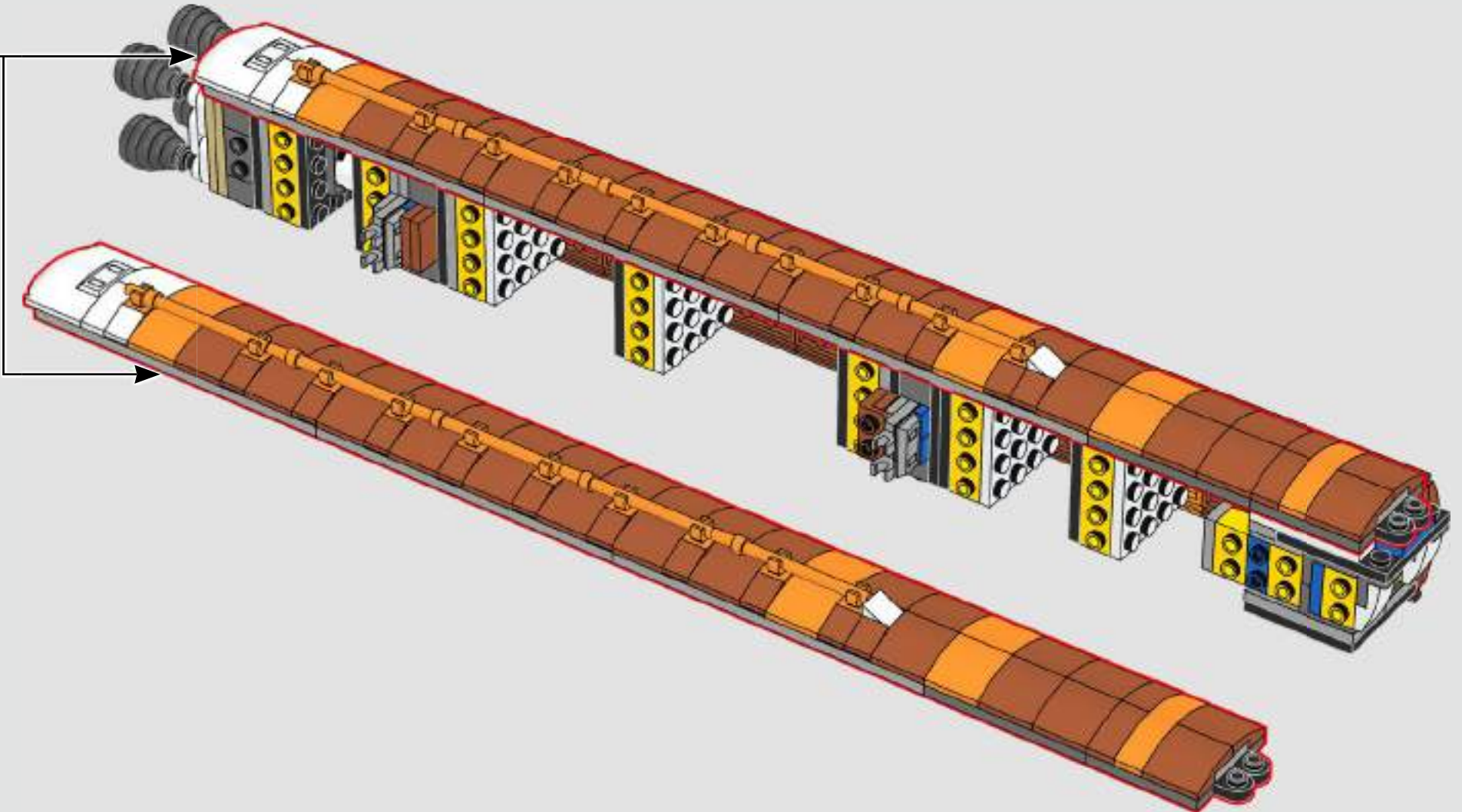


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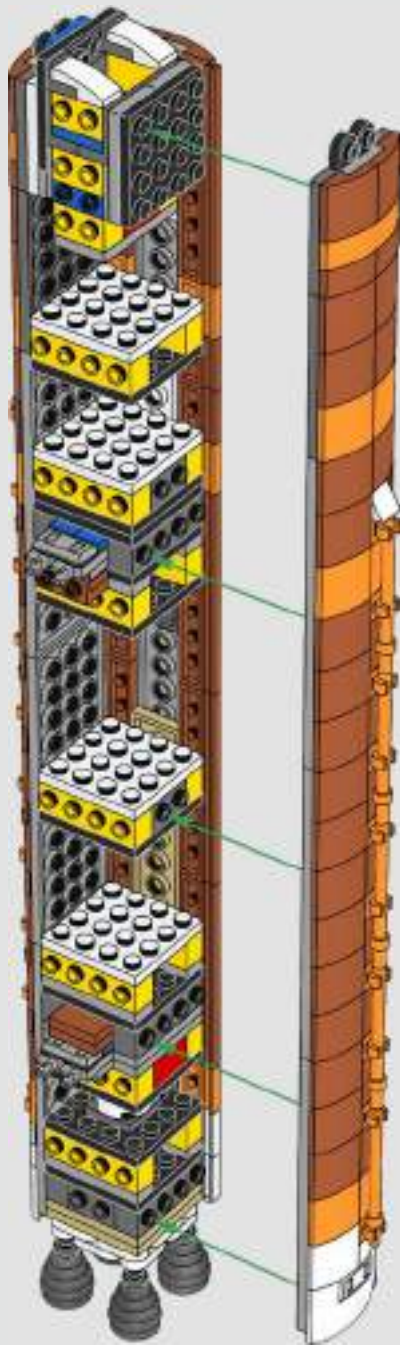
562 cables run through the real-life core stage – a total of 72 kilometres (45 miles). The engine section alone contains 231 cables.

The multiple colours of the first rocket stage are due to different types of foam insulation. This coating gets darker the longer it is exposed to sunlight.

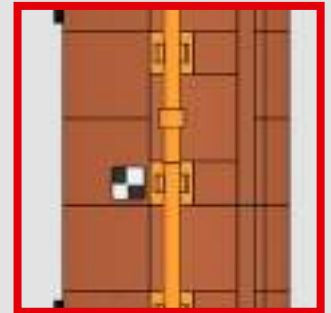
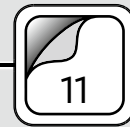
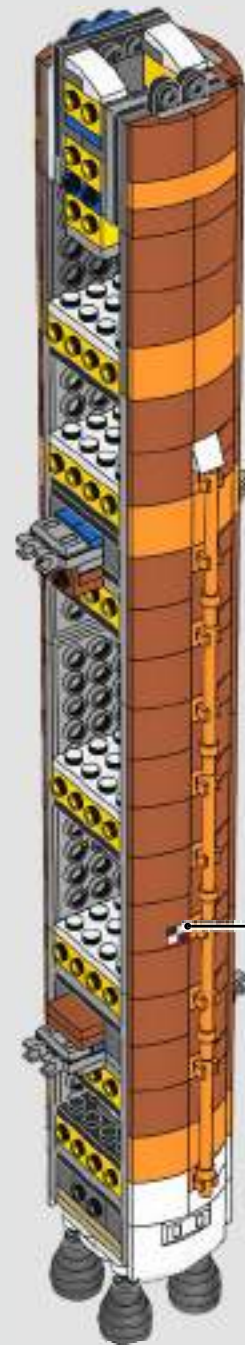
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528

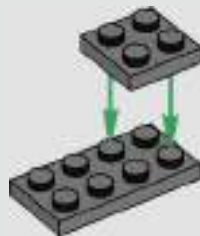


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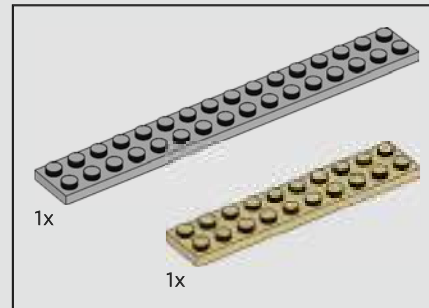




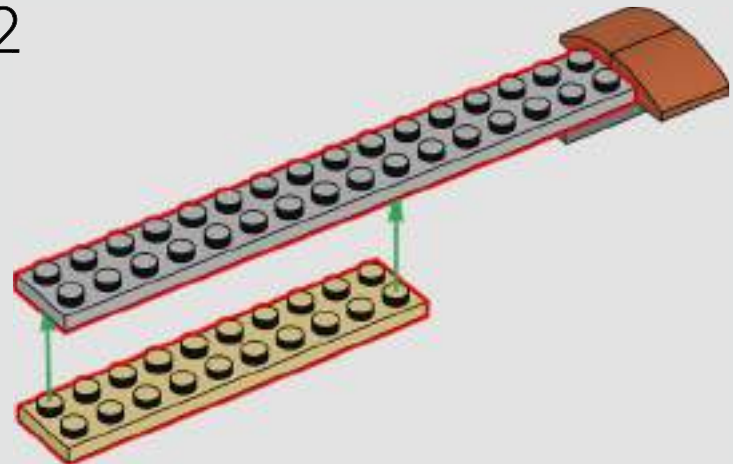
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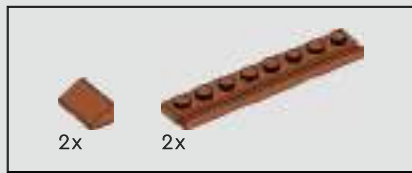


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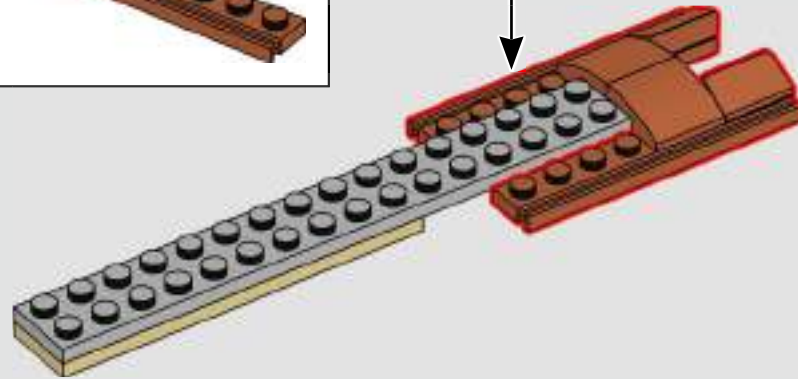
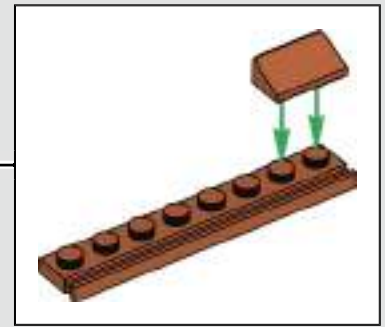
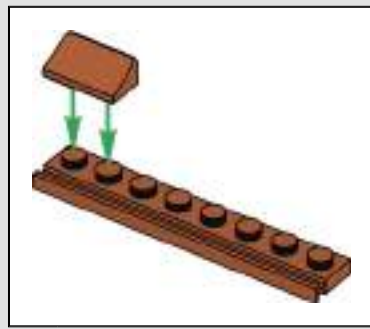


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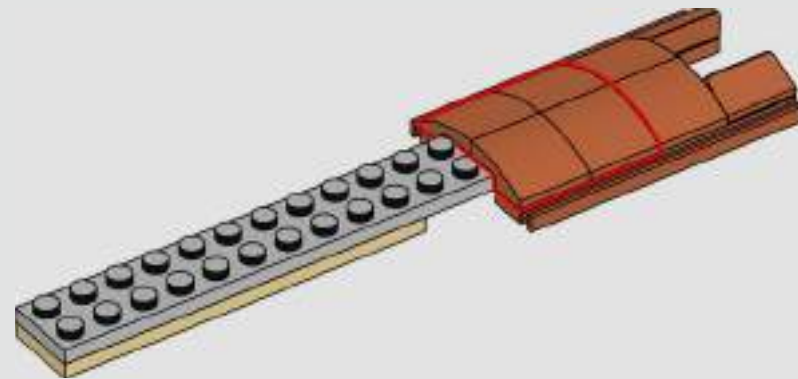


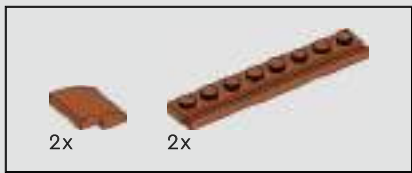


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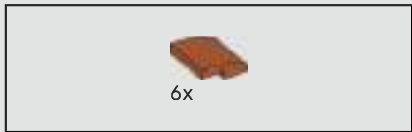
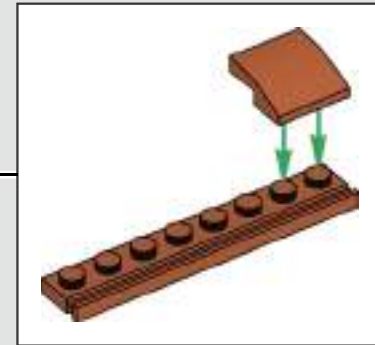
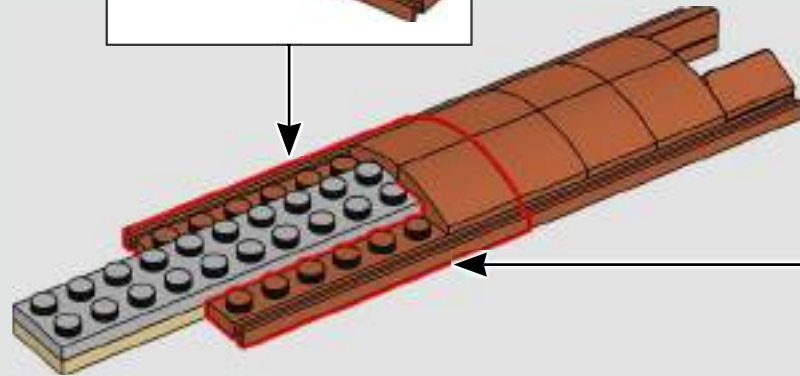
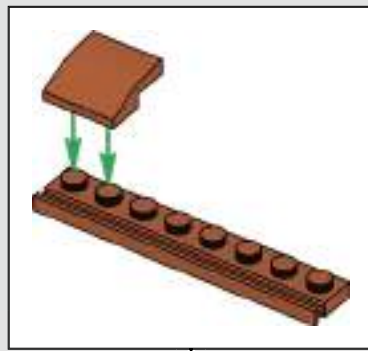


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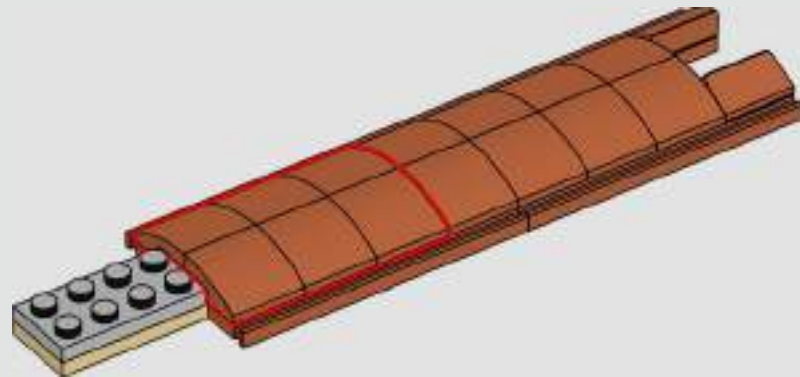


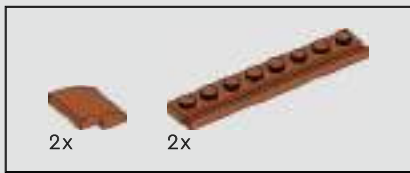


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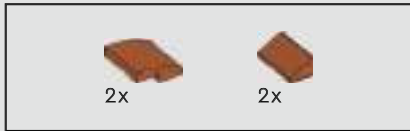
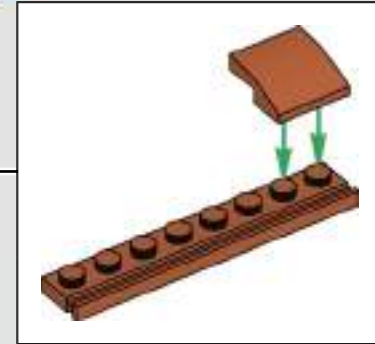
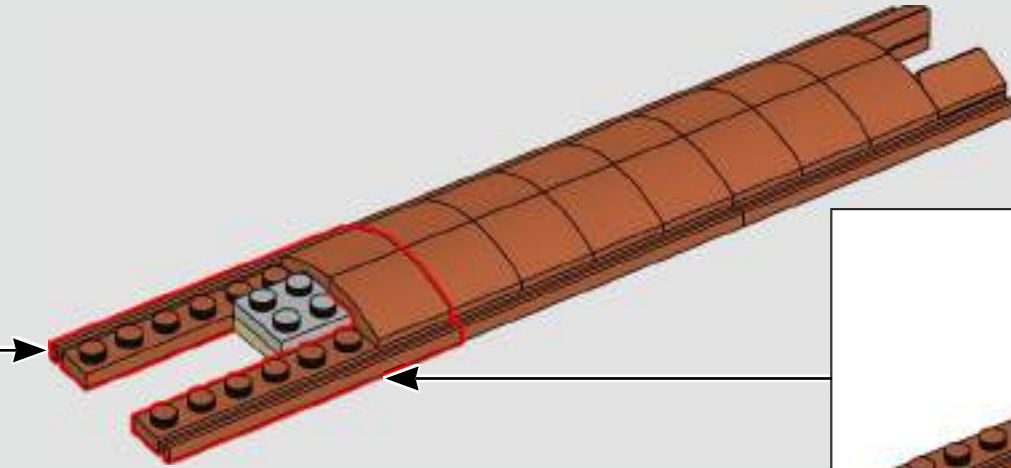
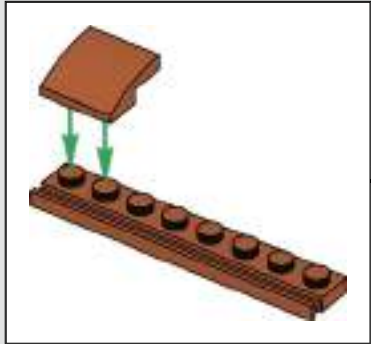


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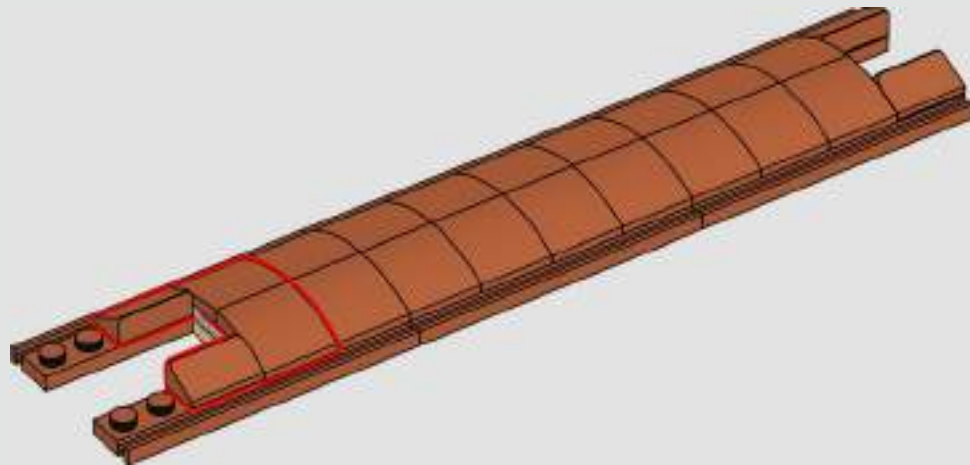


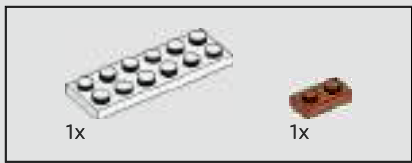


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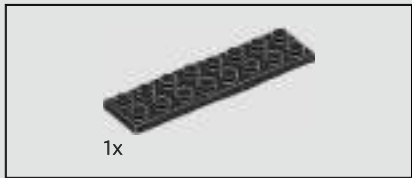
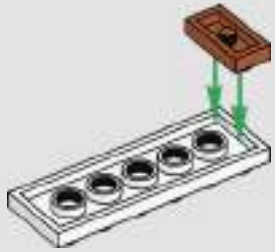


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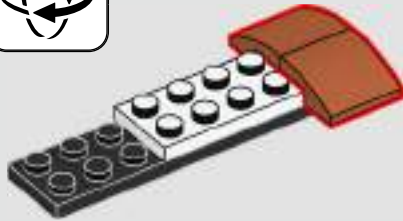
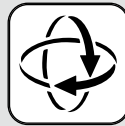
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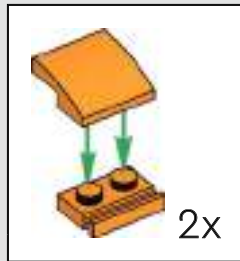
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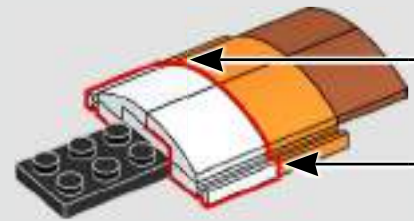
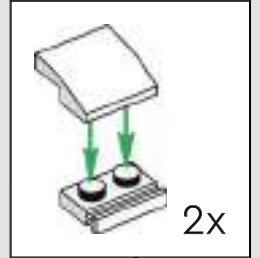
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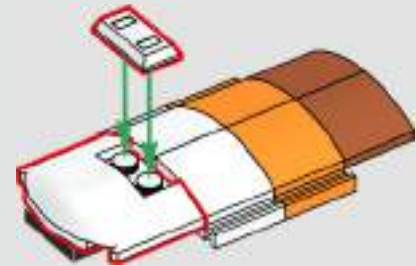
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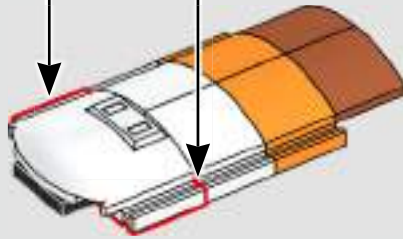


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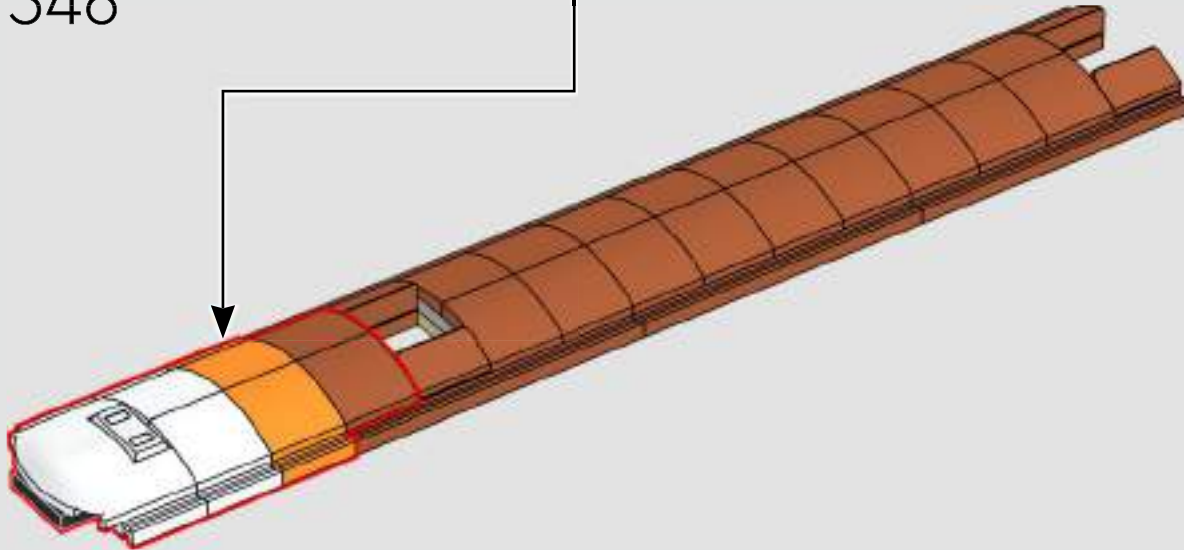




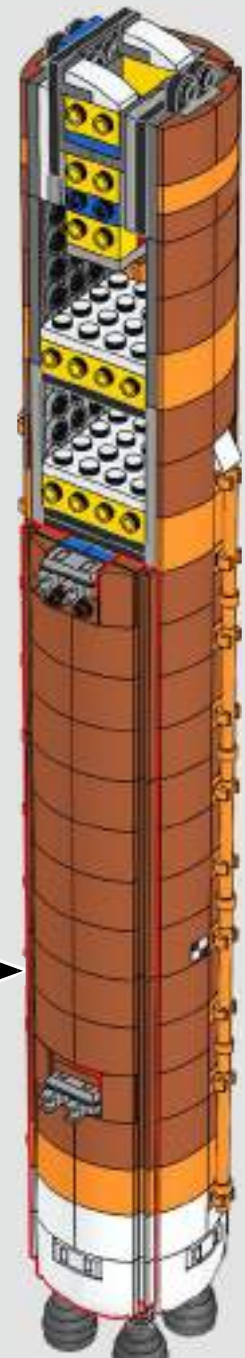
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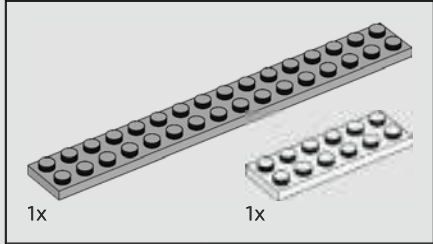
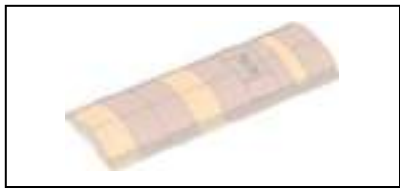


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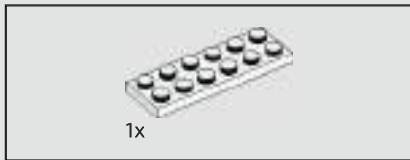
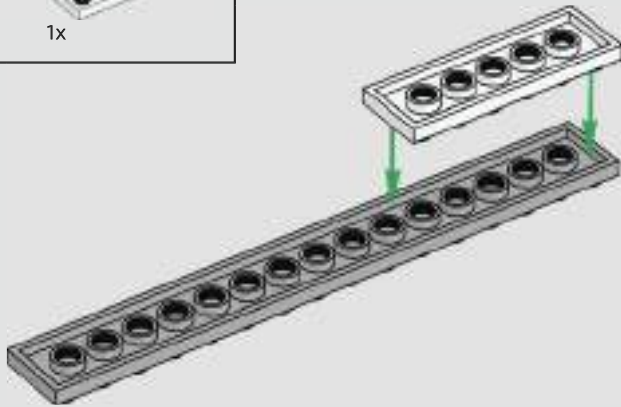


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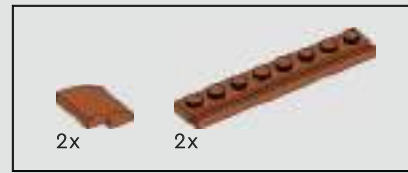
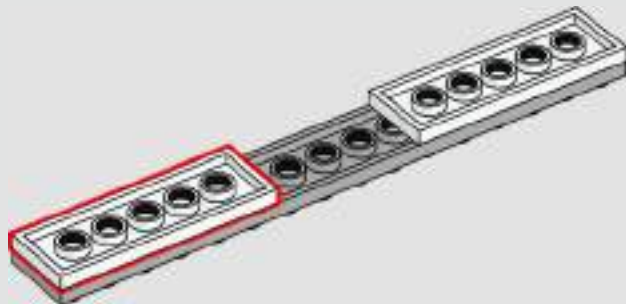




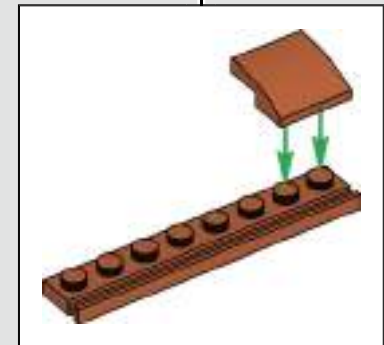
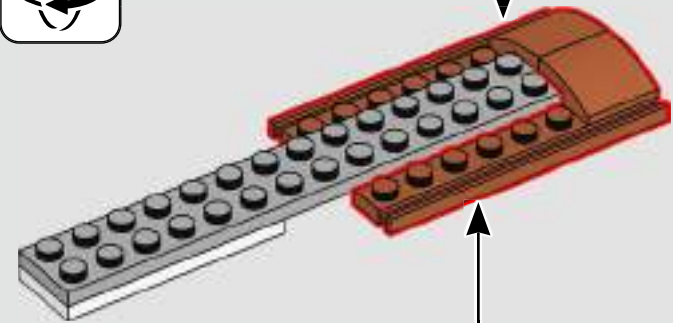
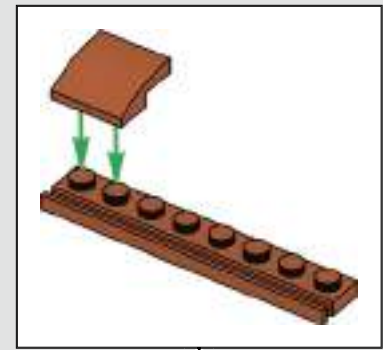
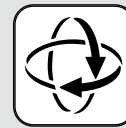
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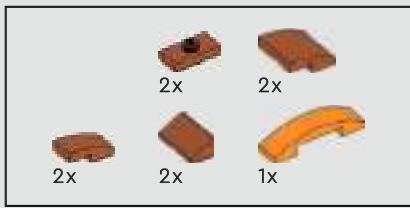


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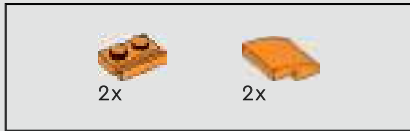
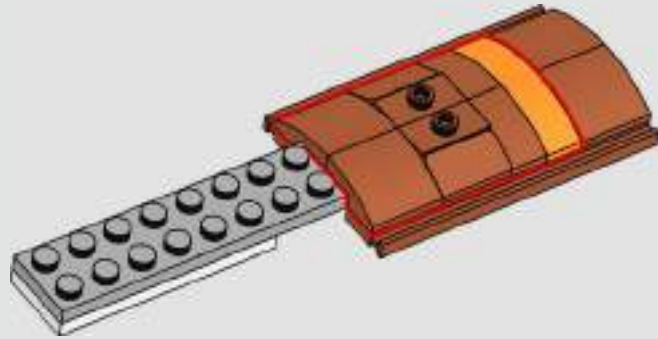


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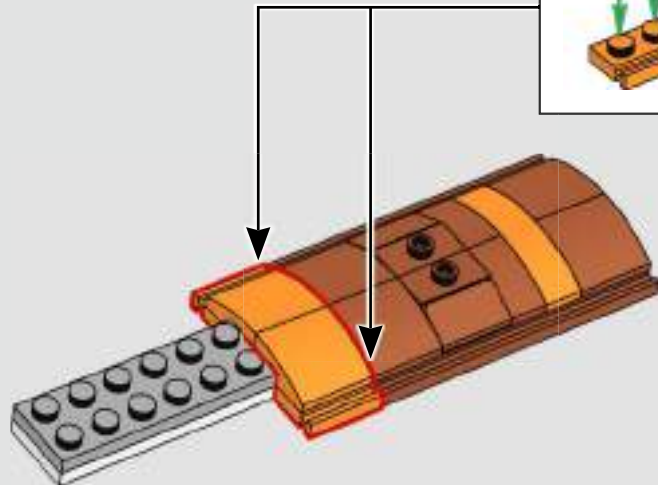
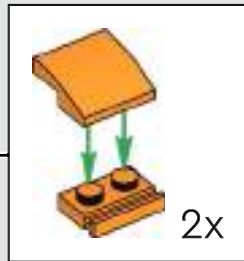




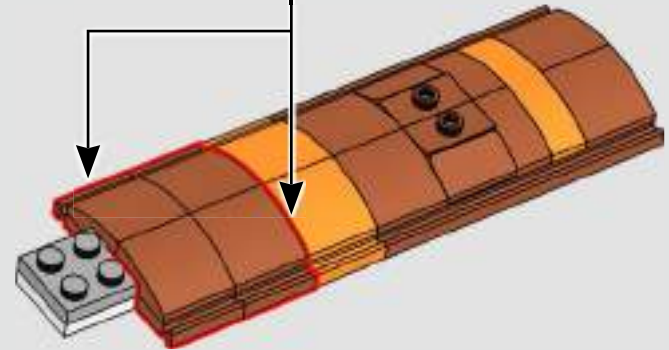
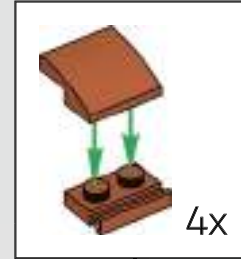
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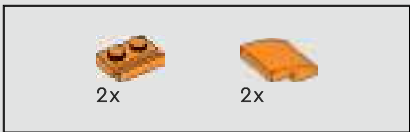


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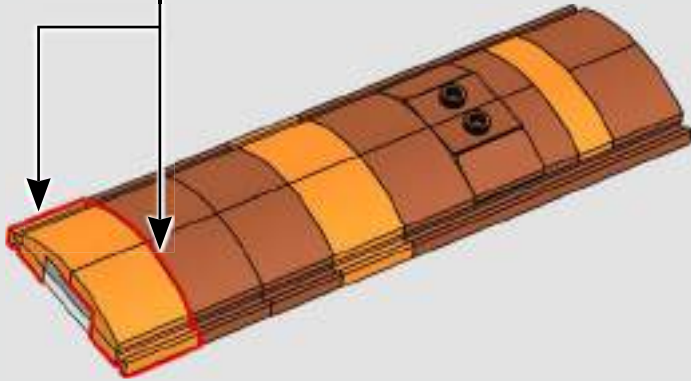
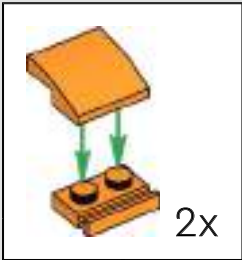


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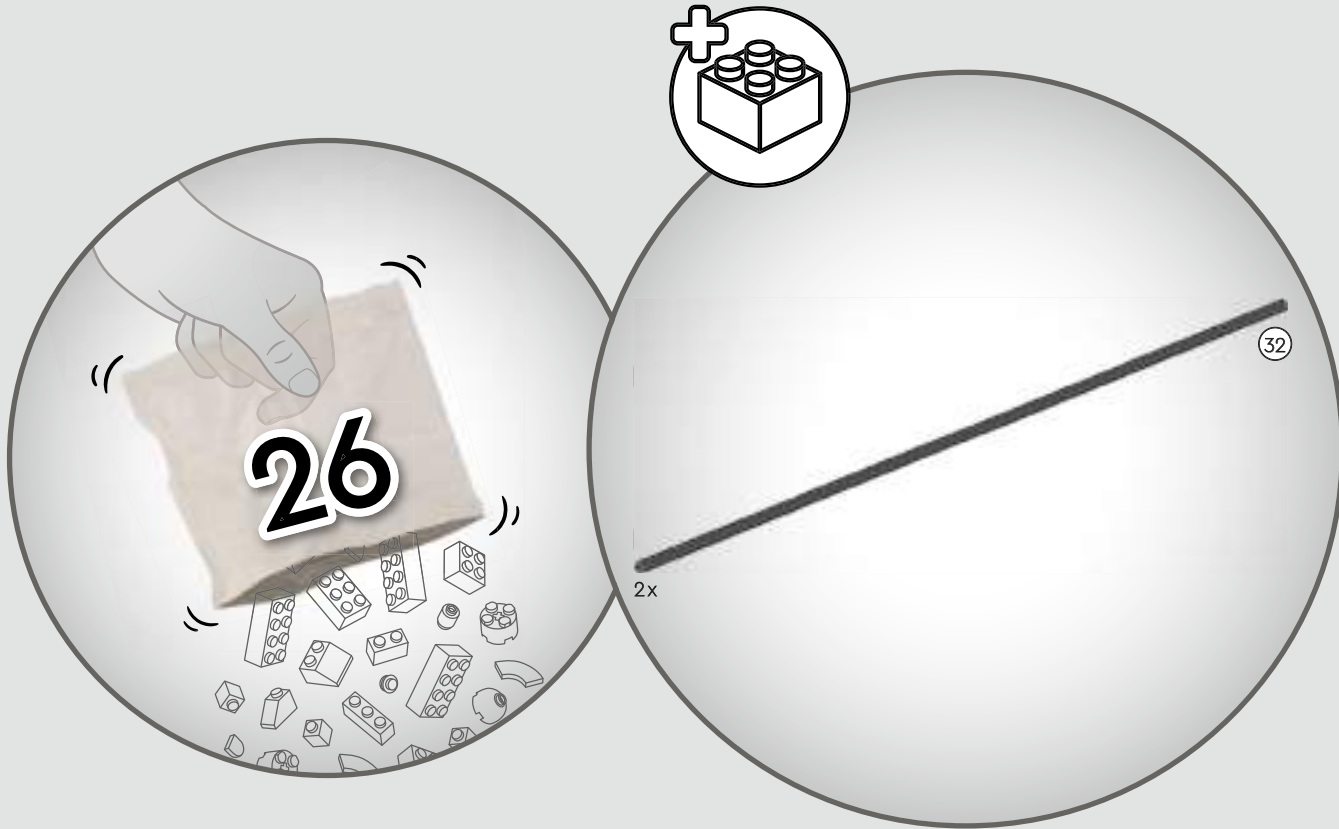


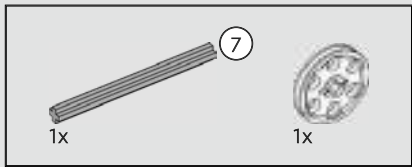
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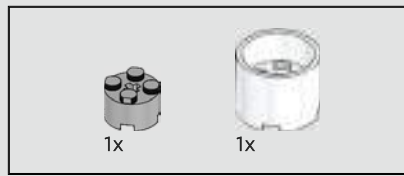
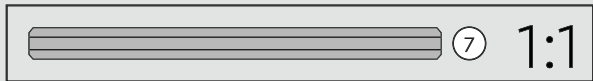
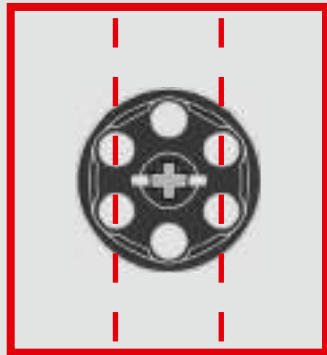
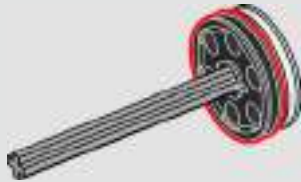




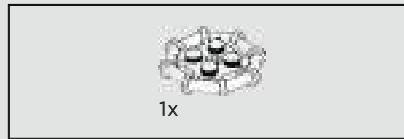
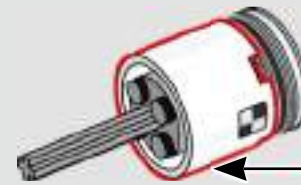
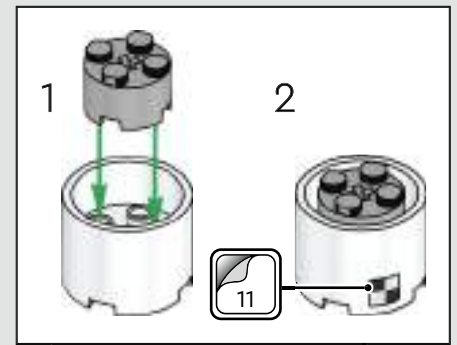
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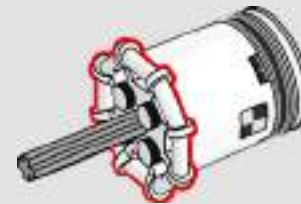
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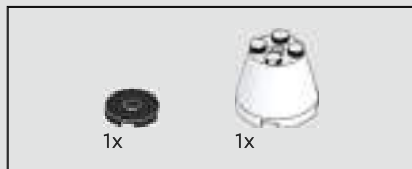
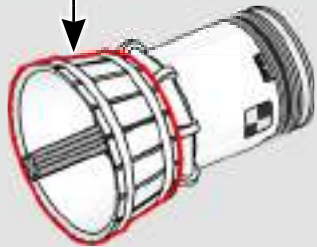
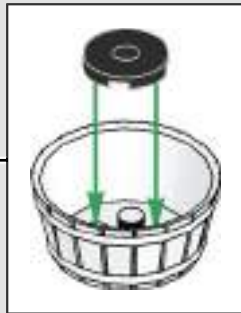


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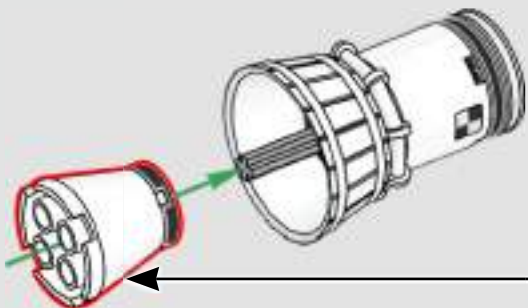




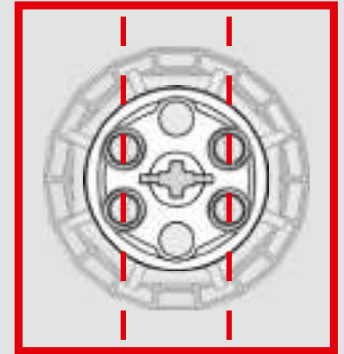
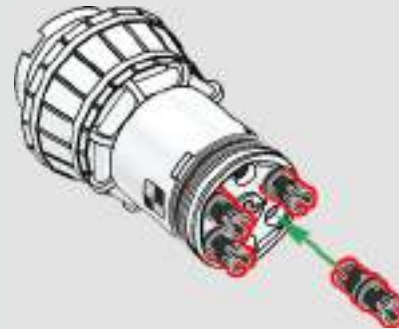
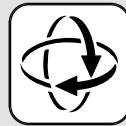
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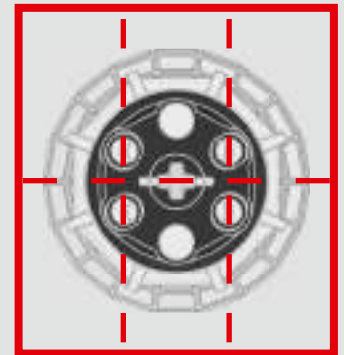
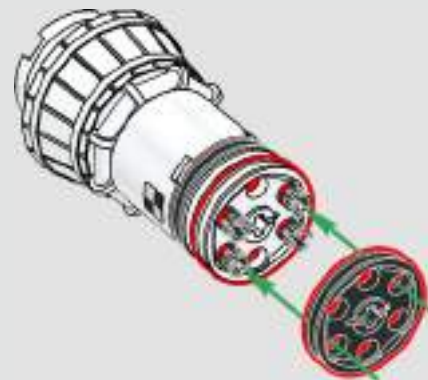
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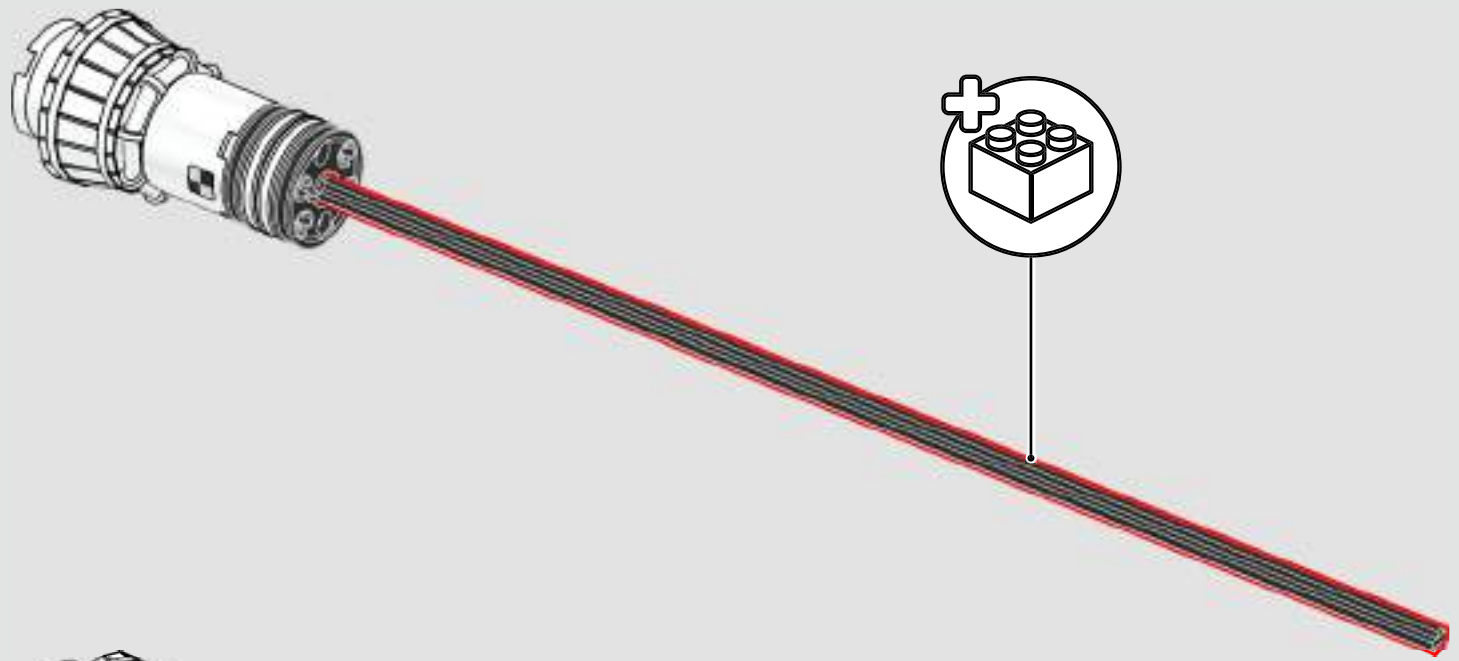
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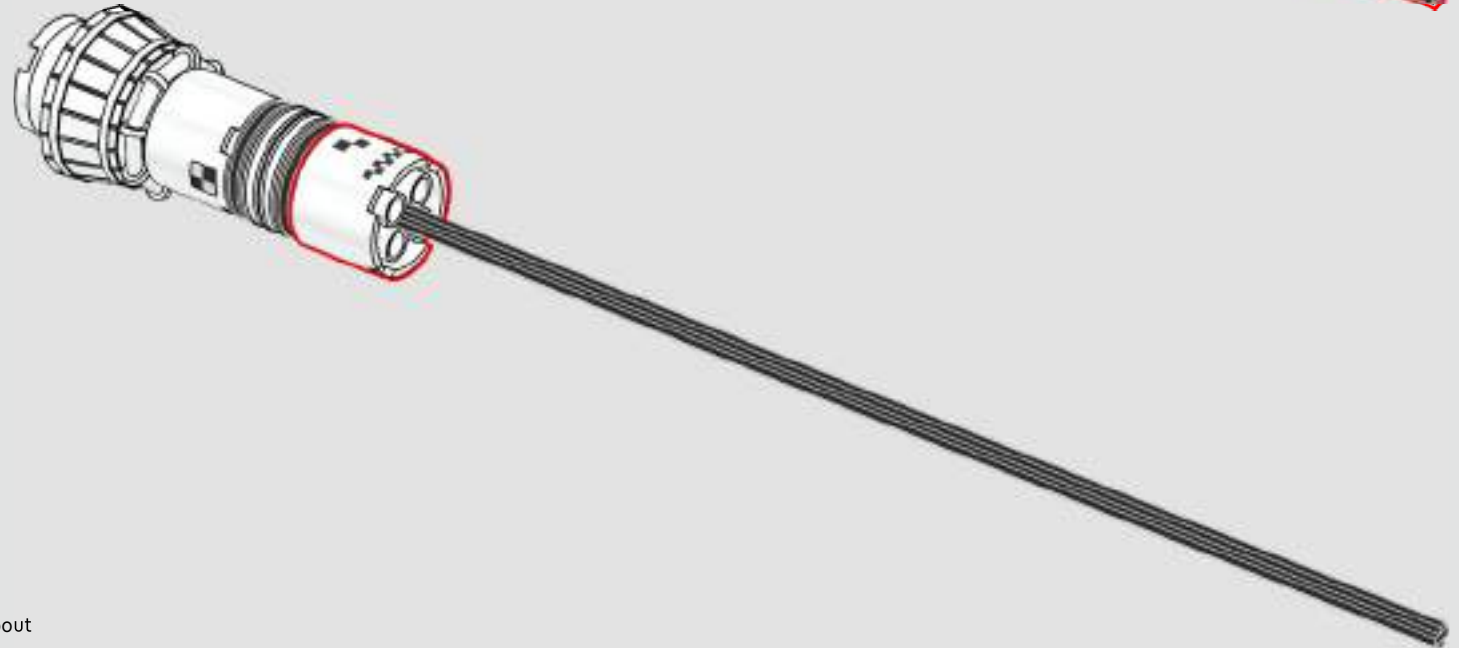
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564



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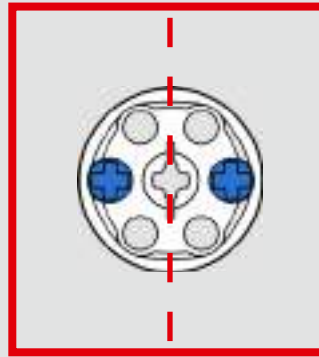


After the SLS launches, boosters operate for about two minutes, then separate from the core stage.



566

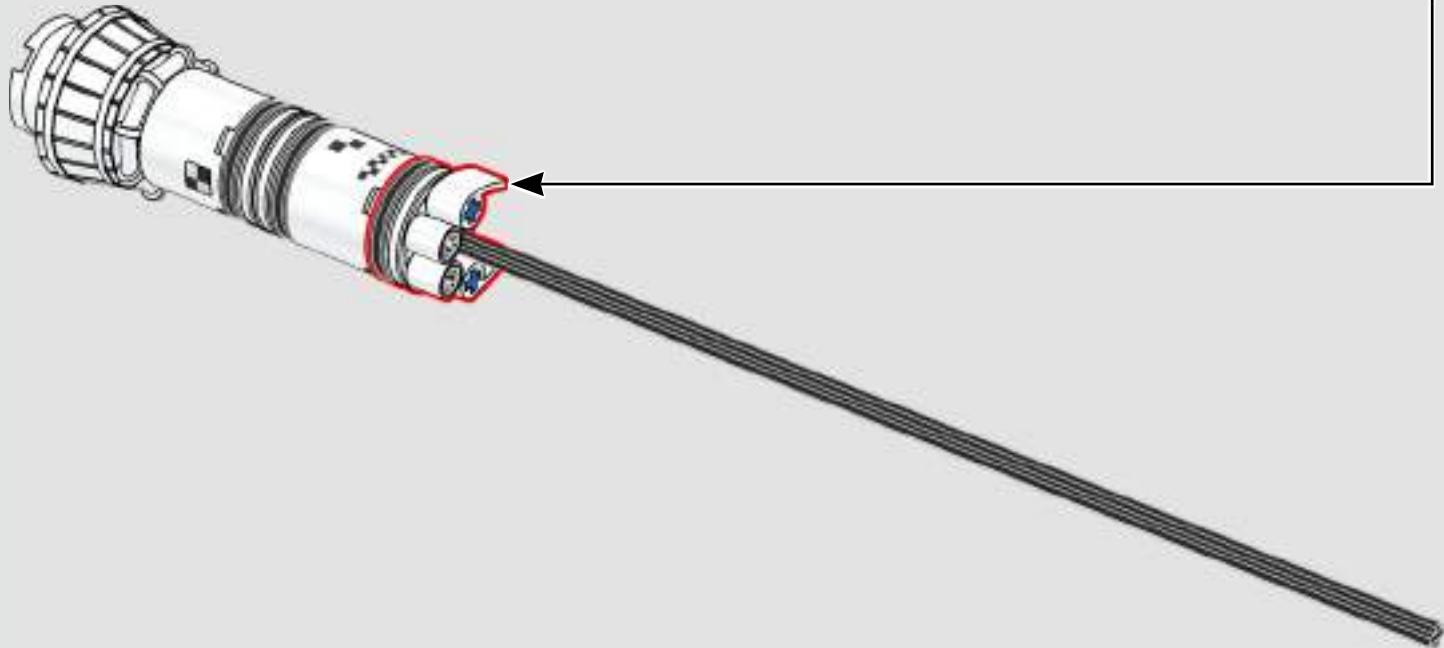
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2



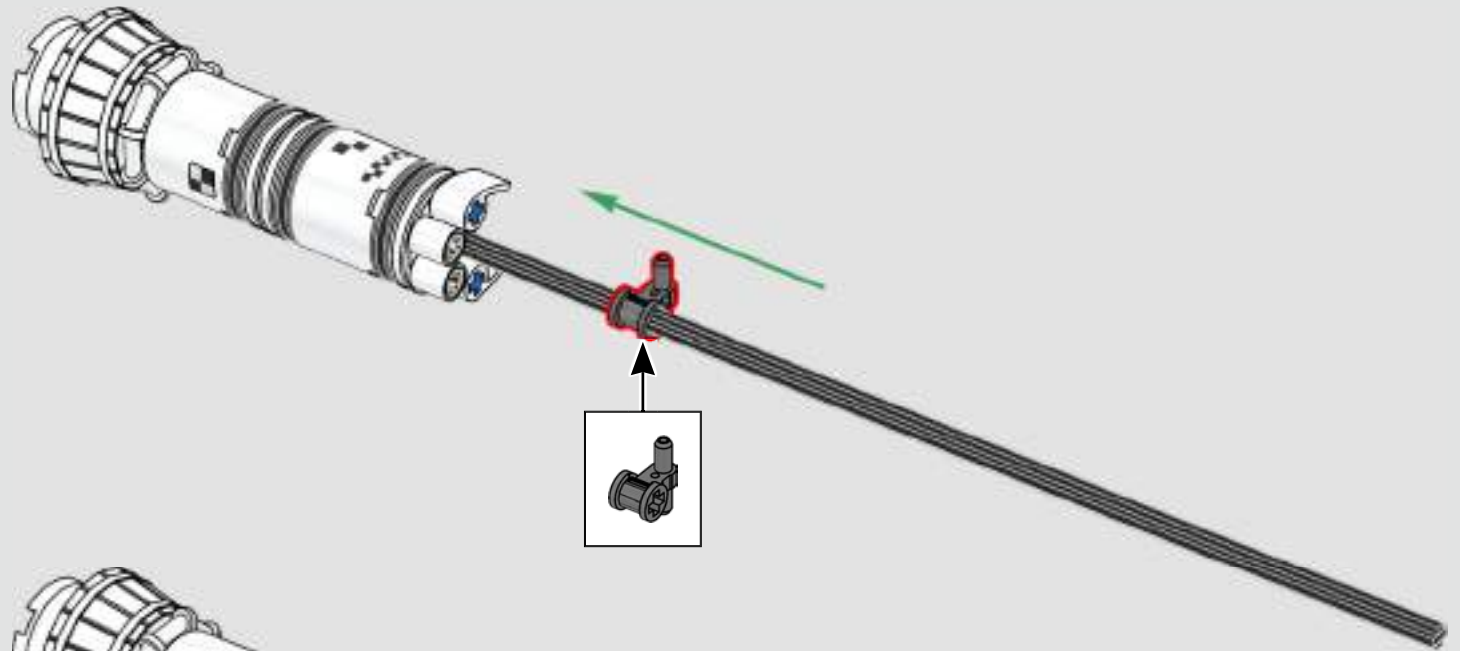
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1x

567

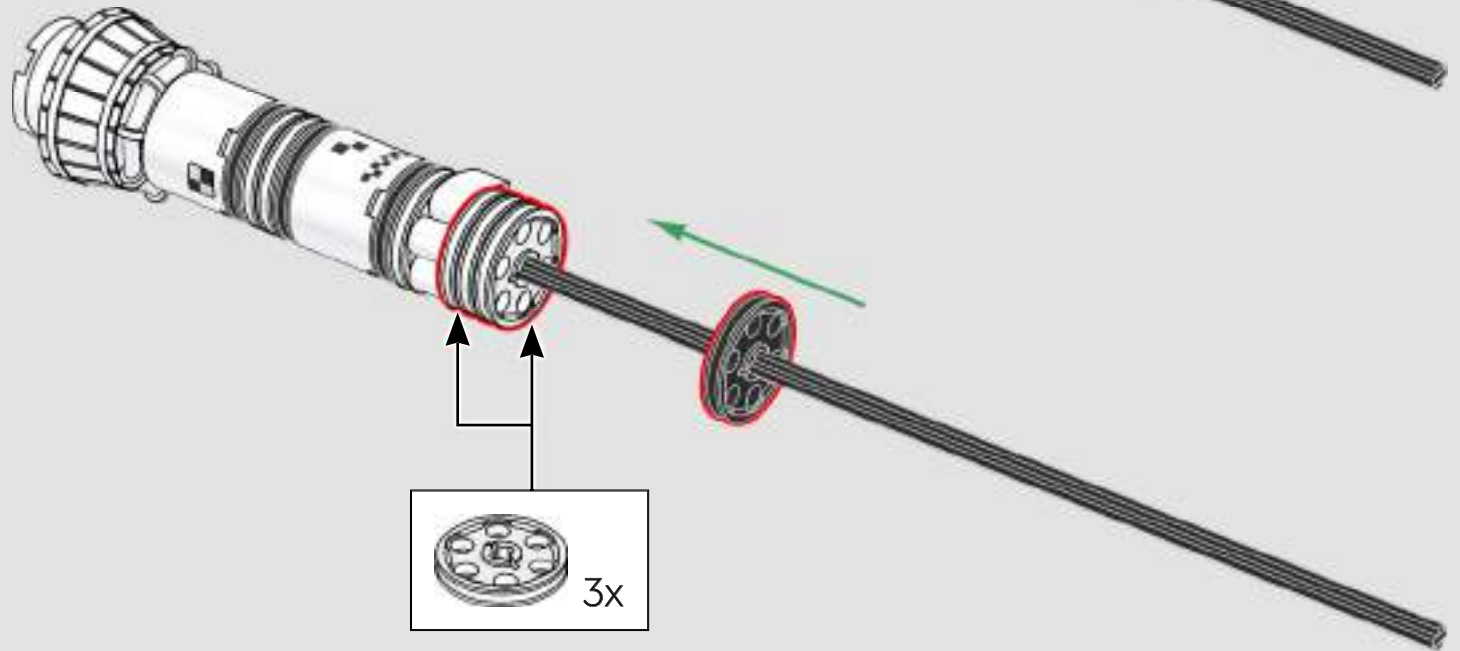


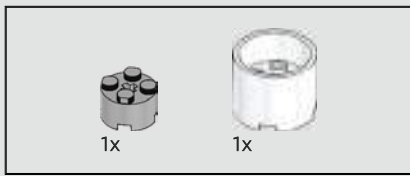
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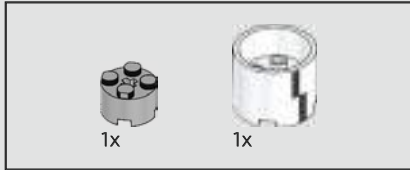
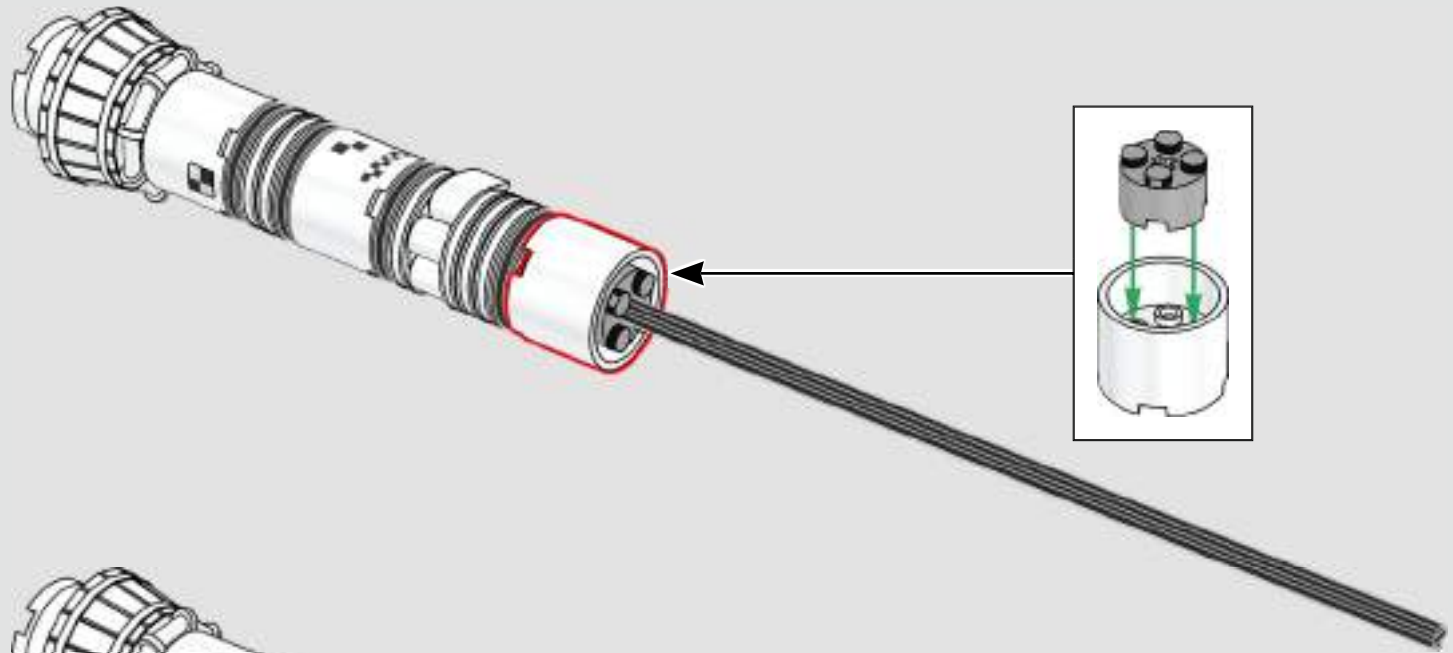
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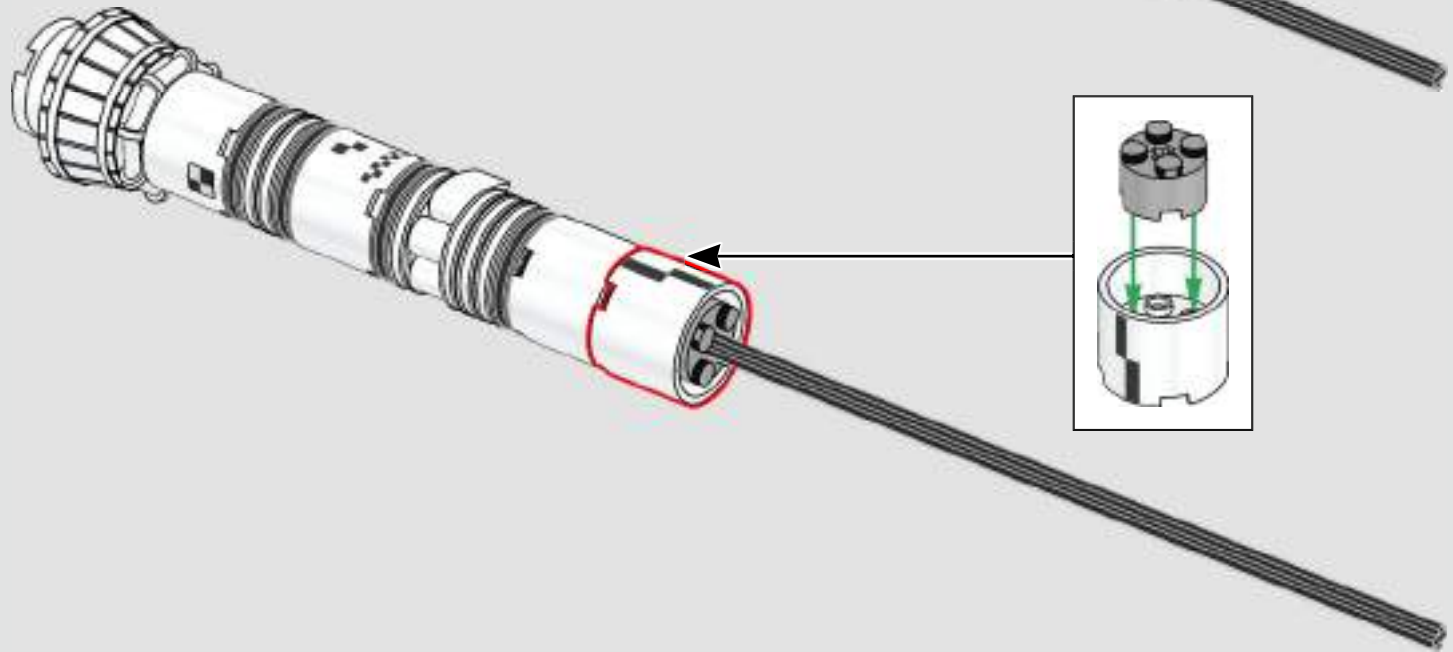


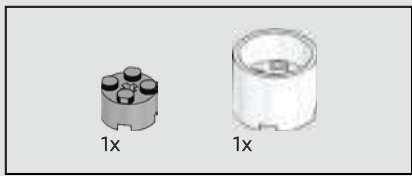


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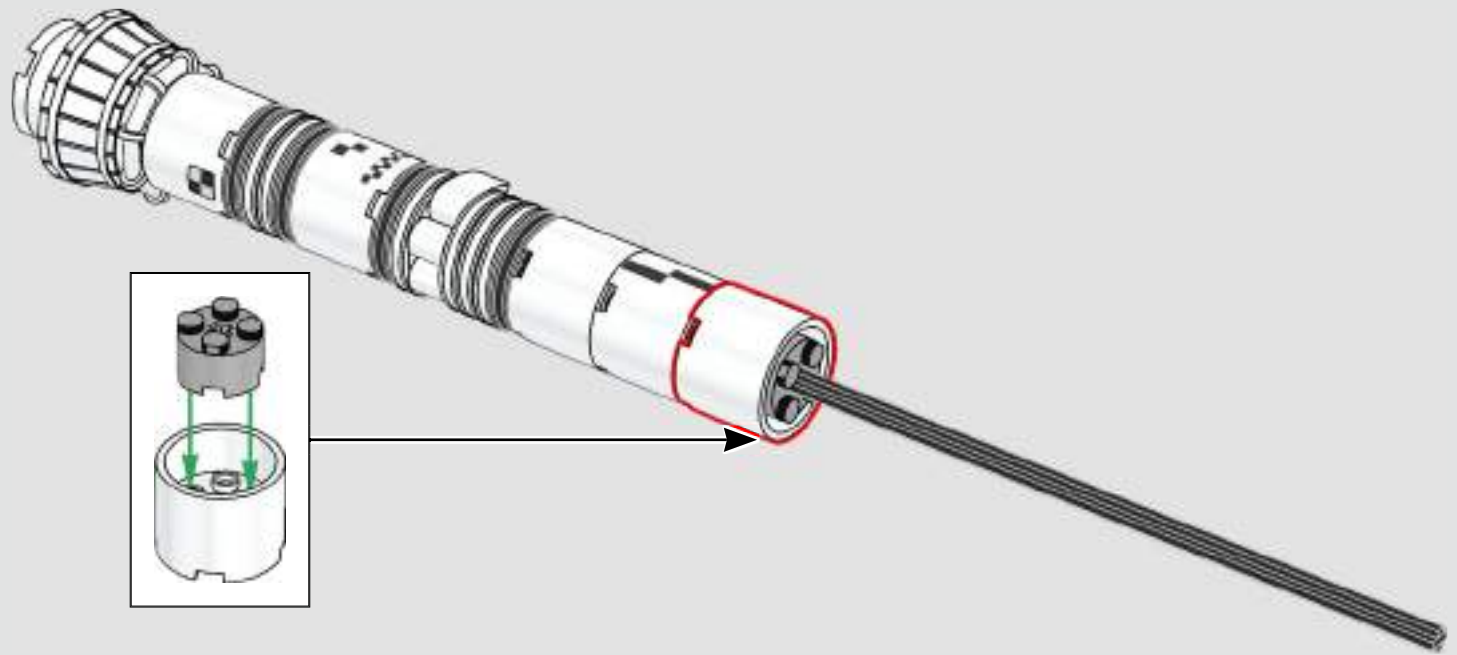


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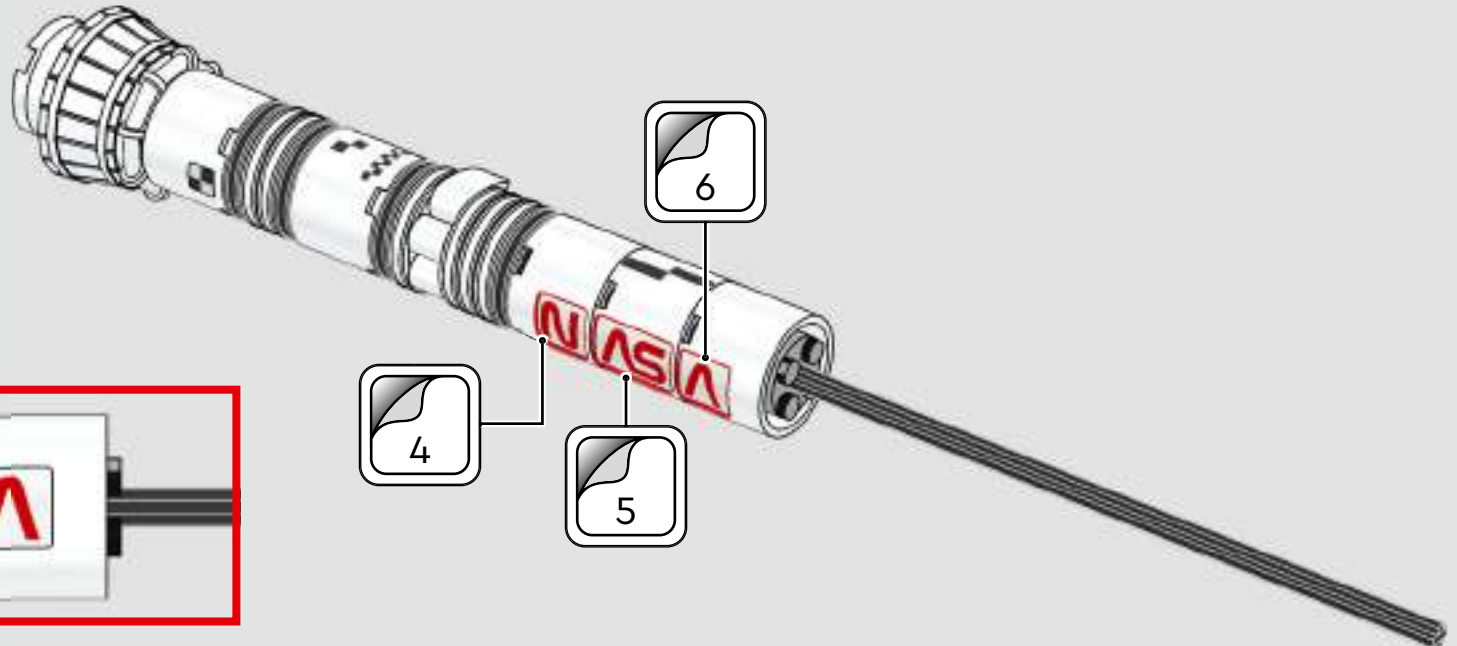


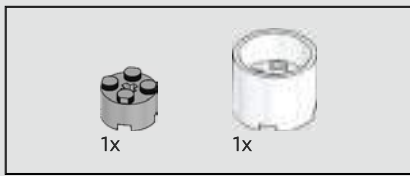


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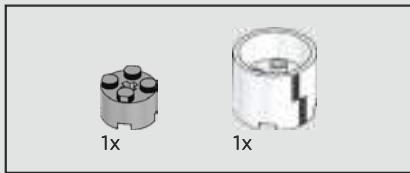
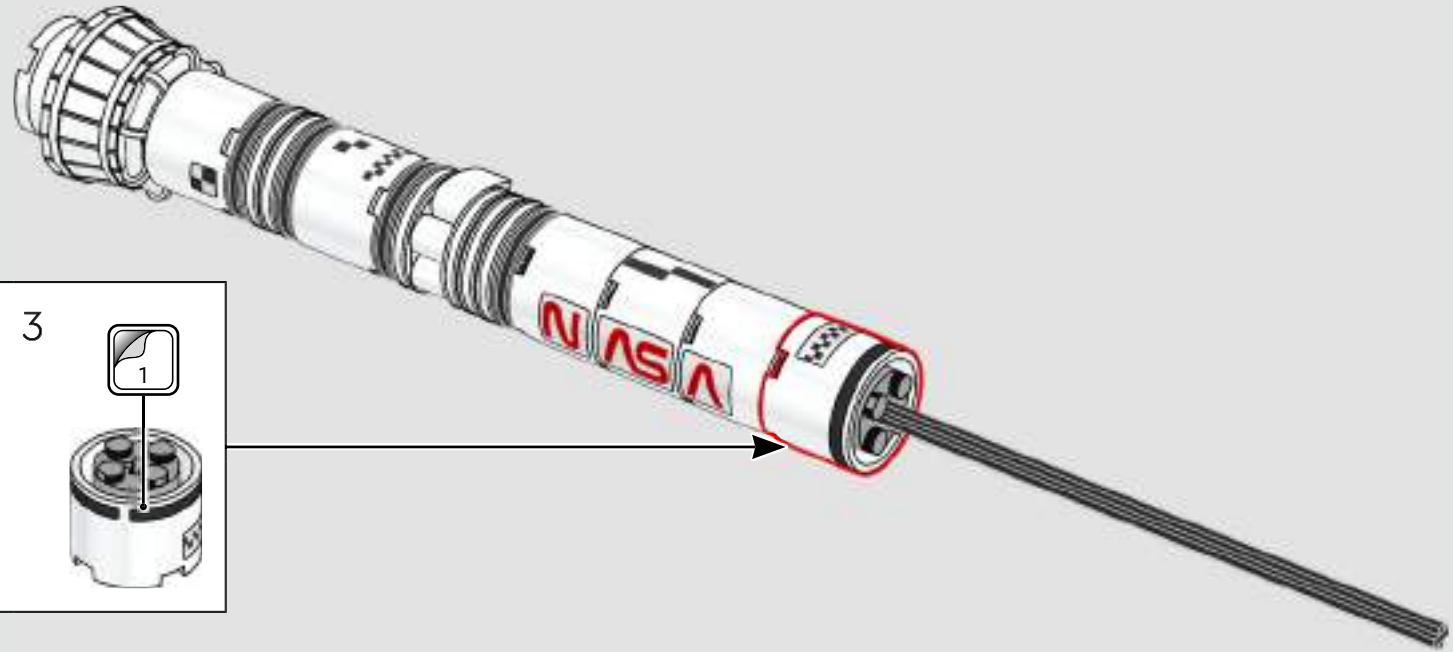
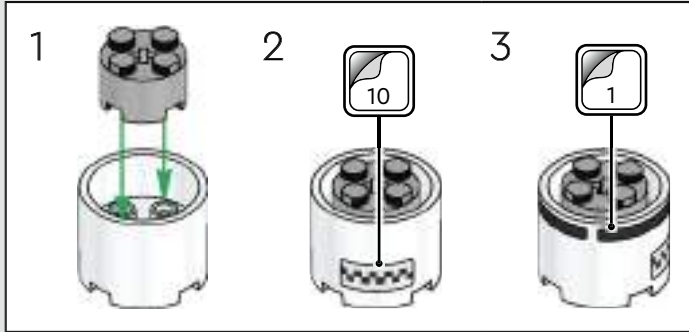


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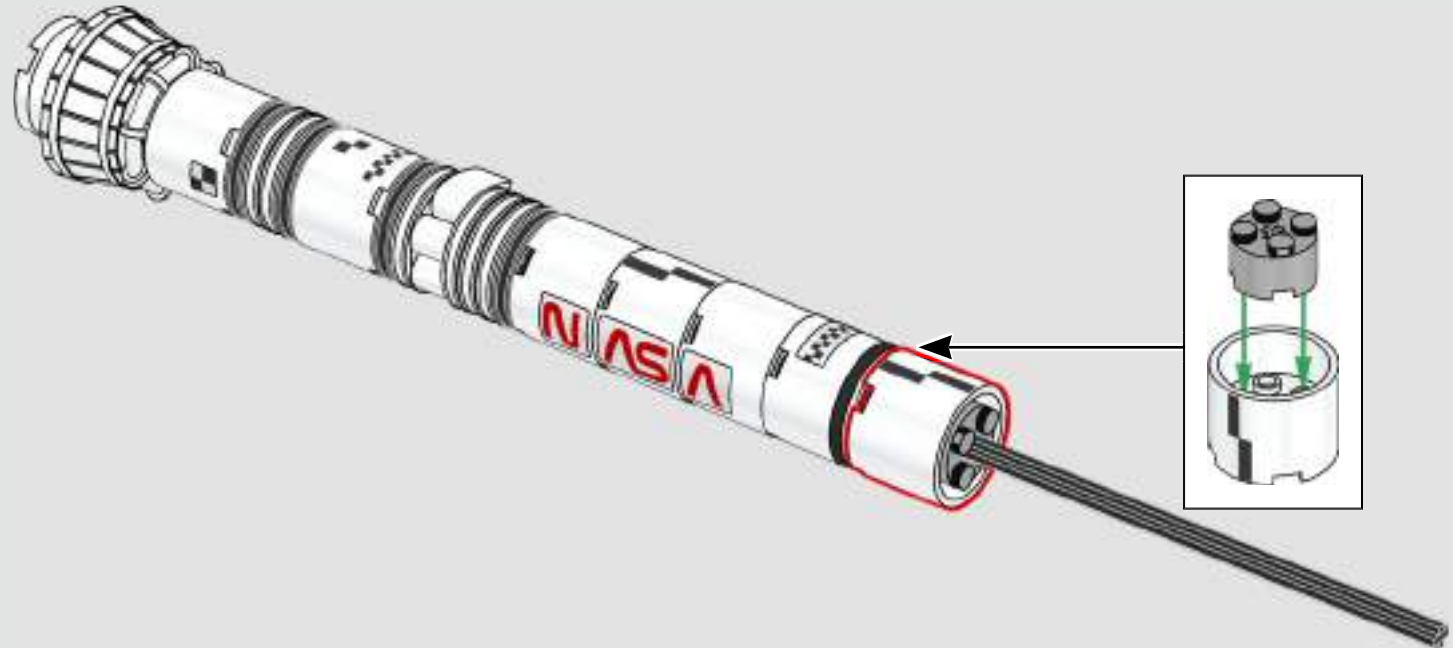
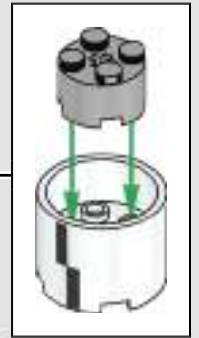


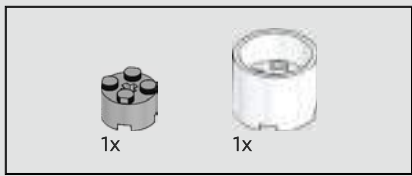


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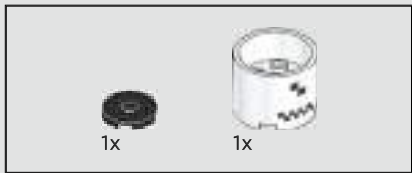
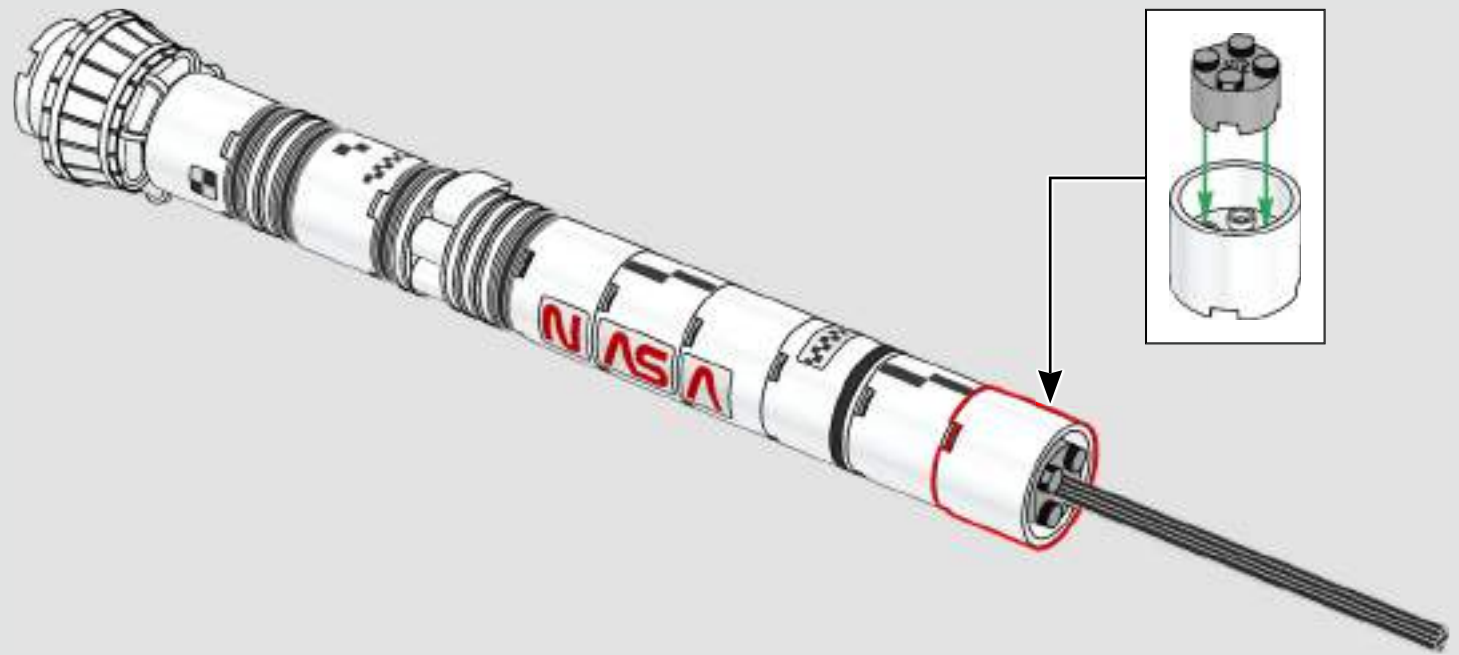


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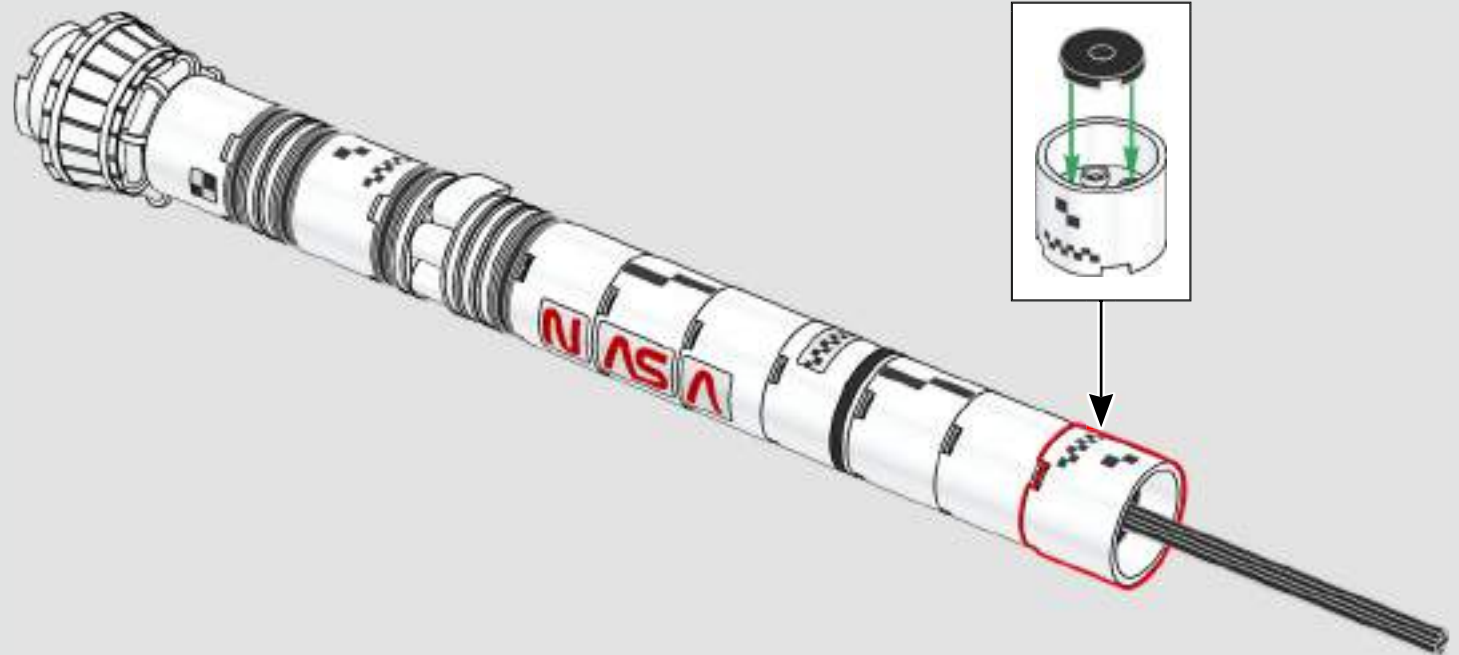




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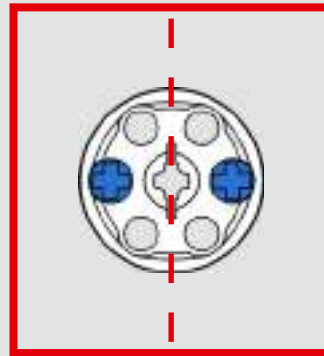
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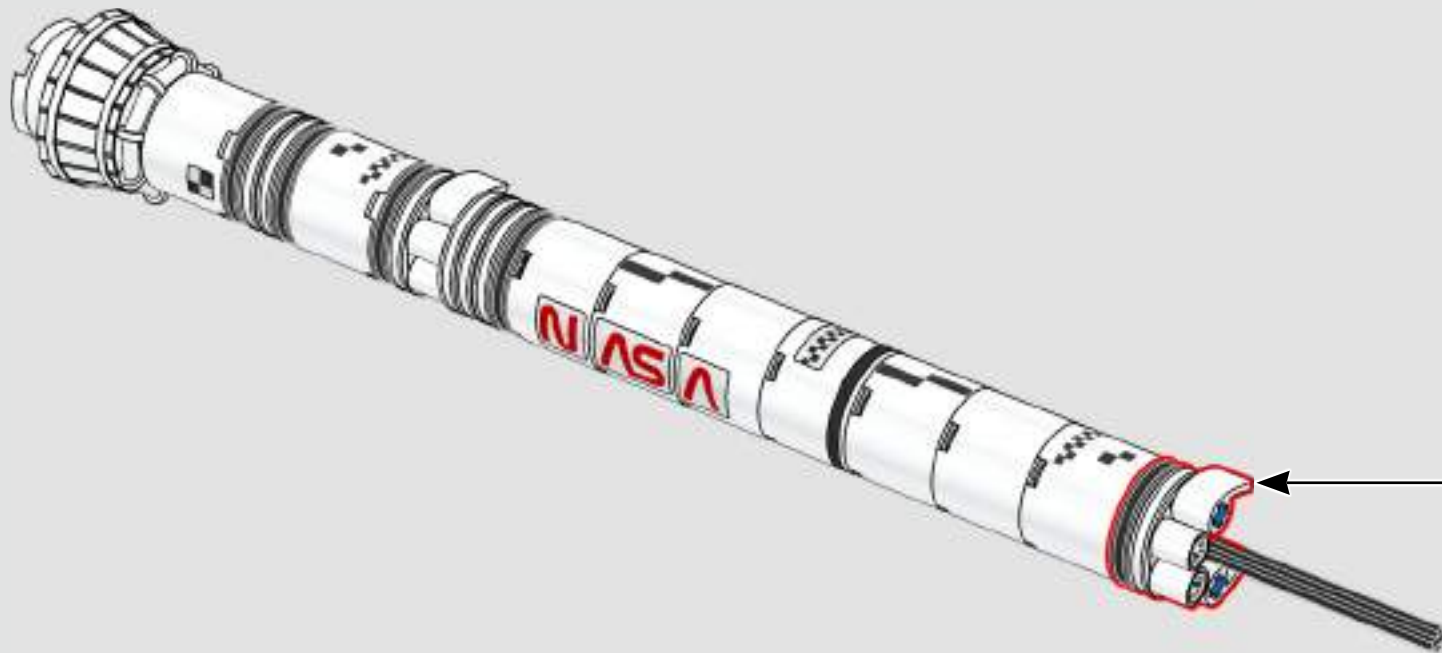
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2



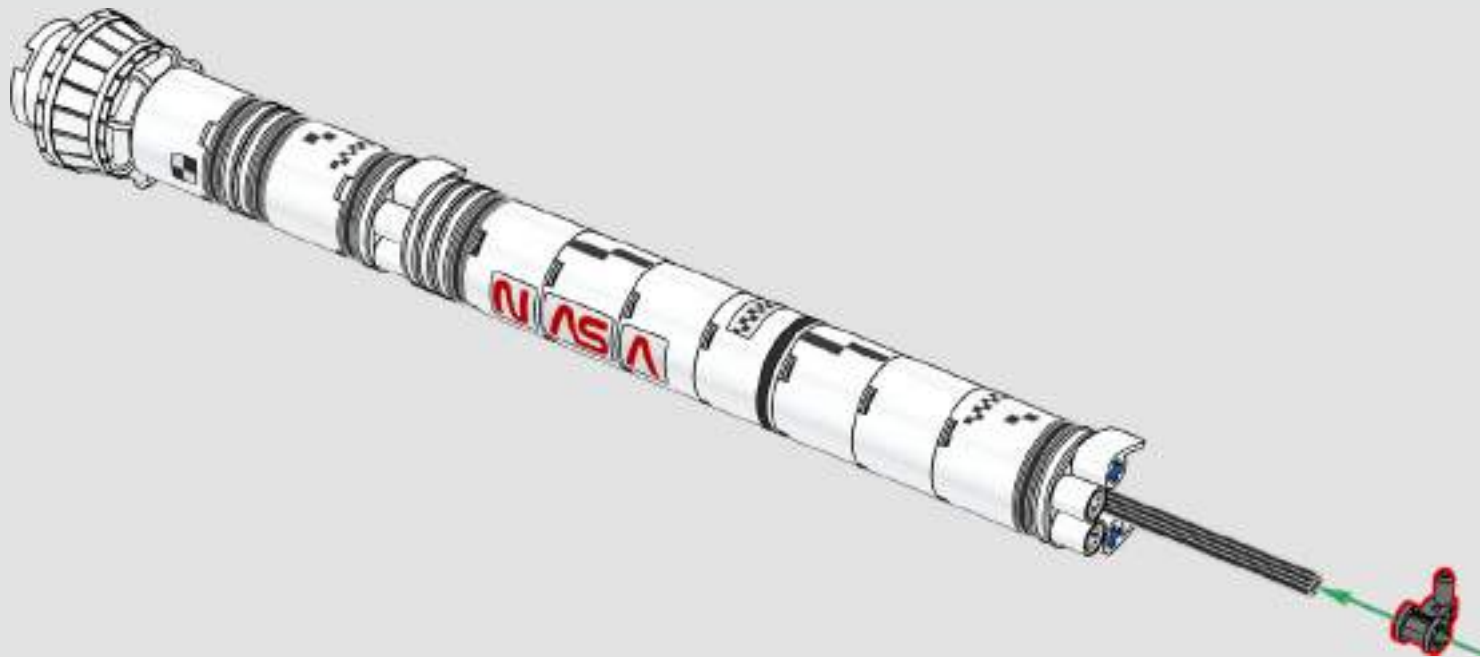
3





1x

578



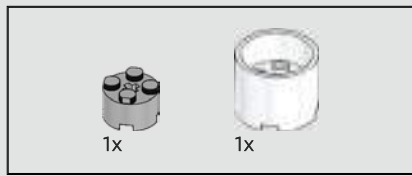
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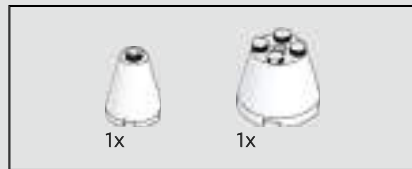
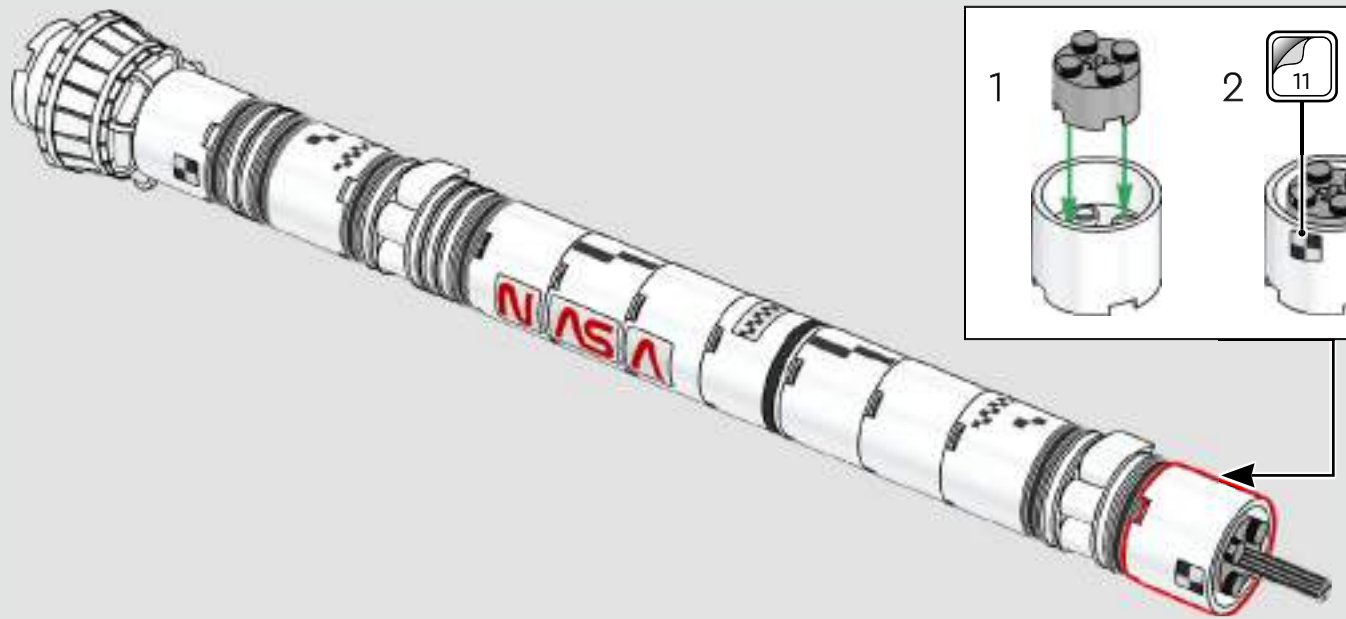
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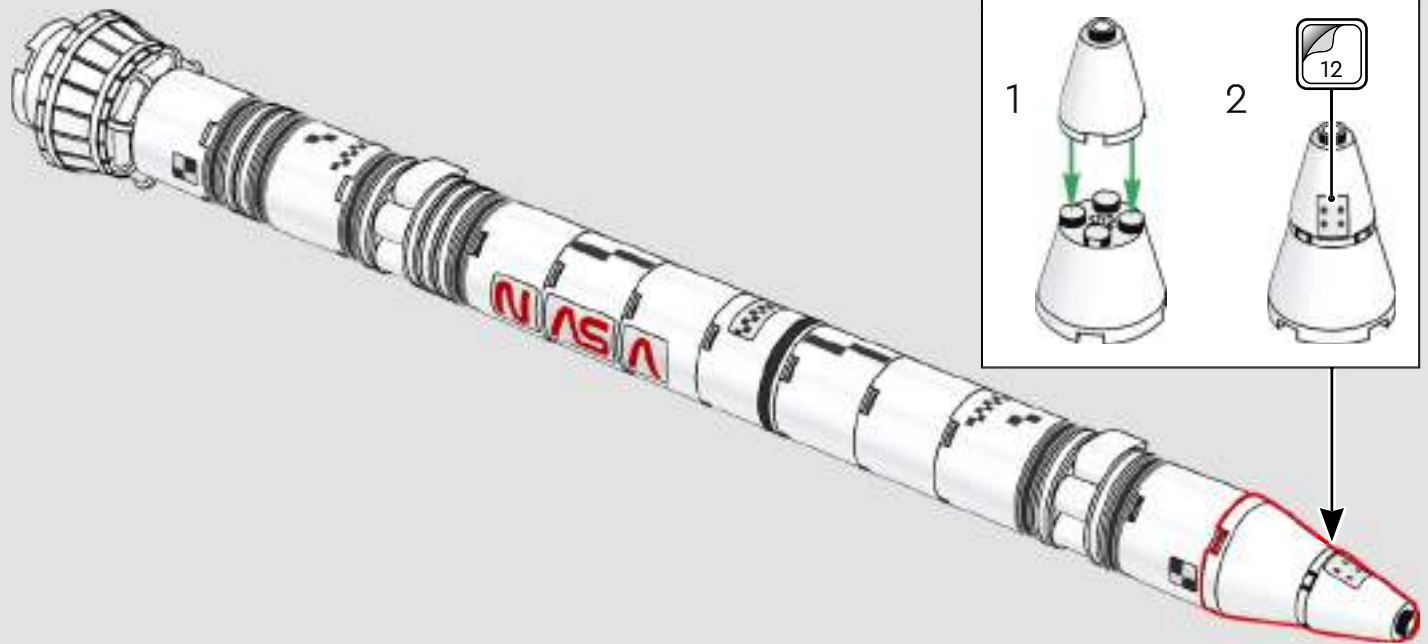




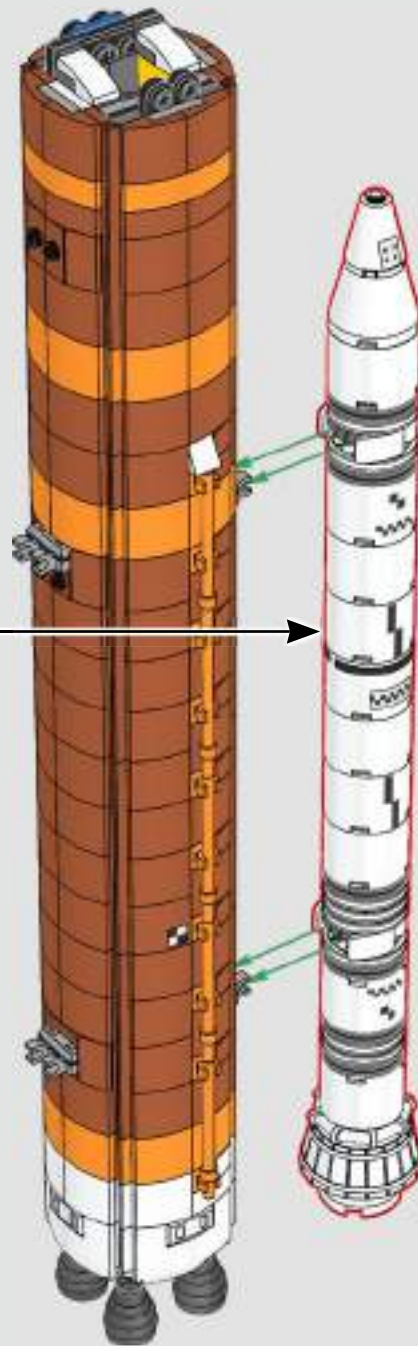
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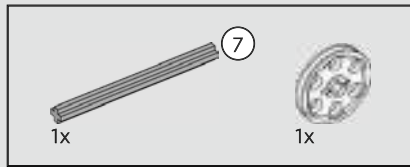


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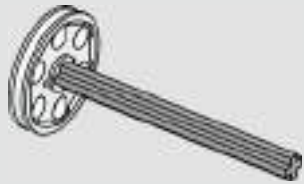


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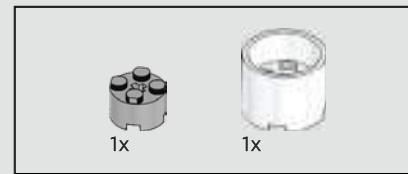
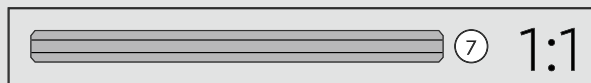
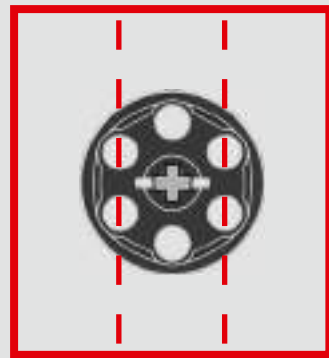




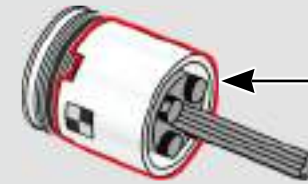
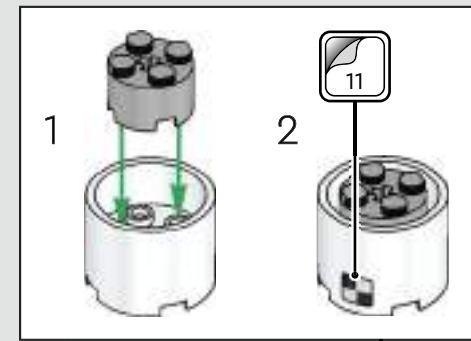
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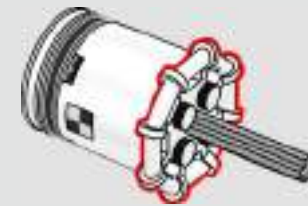
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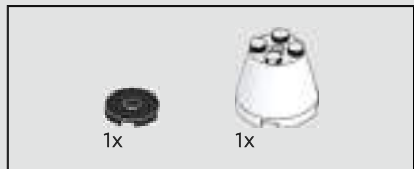
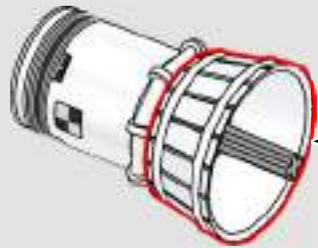
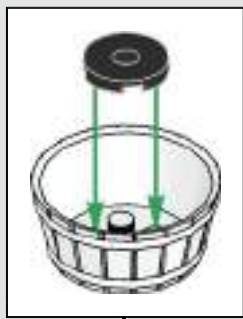


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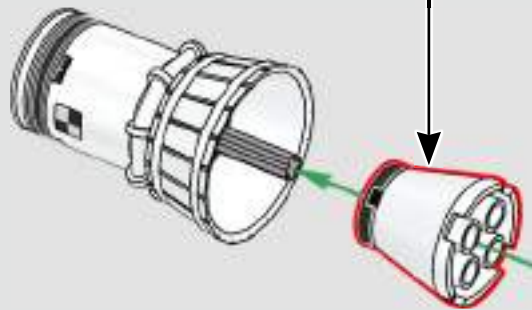
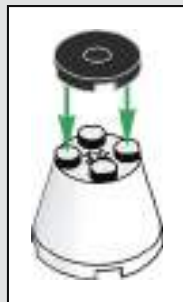




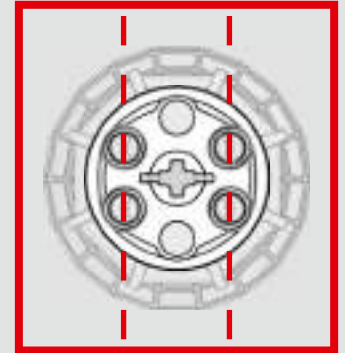
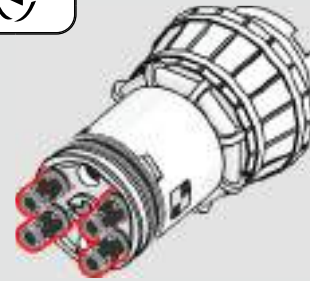
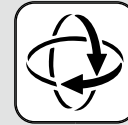
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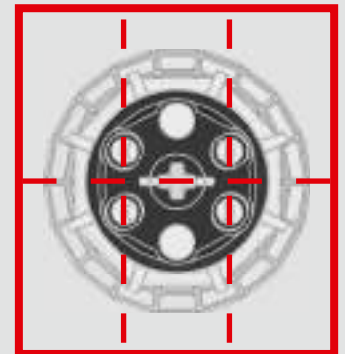
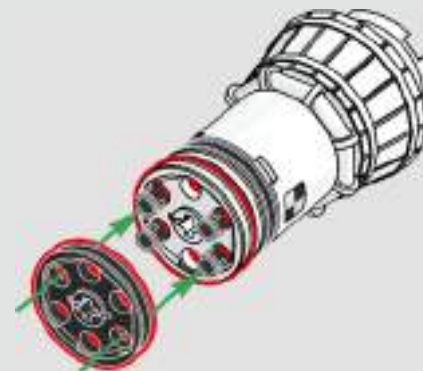
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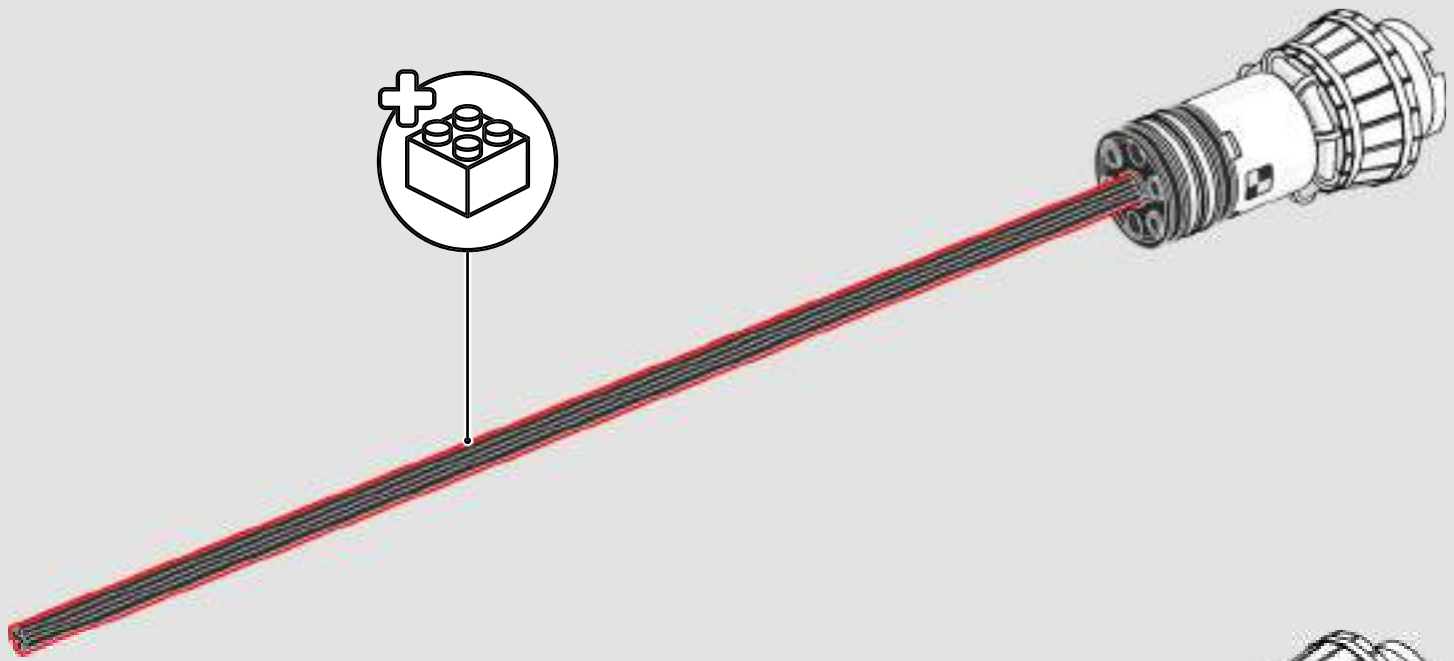
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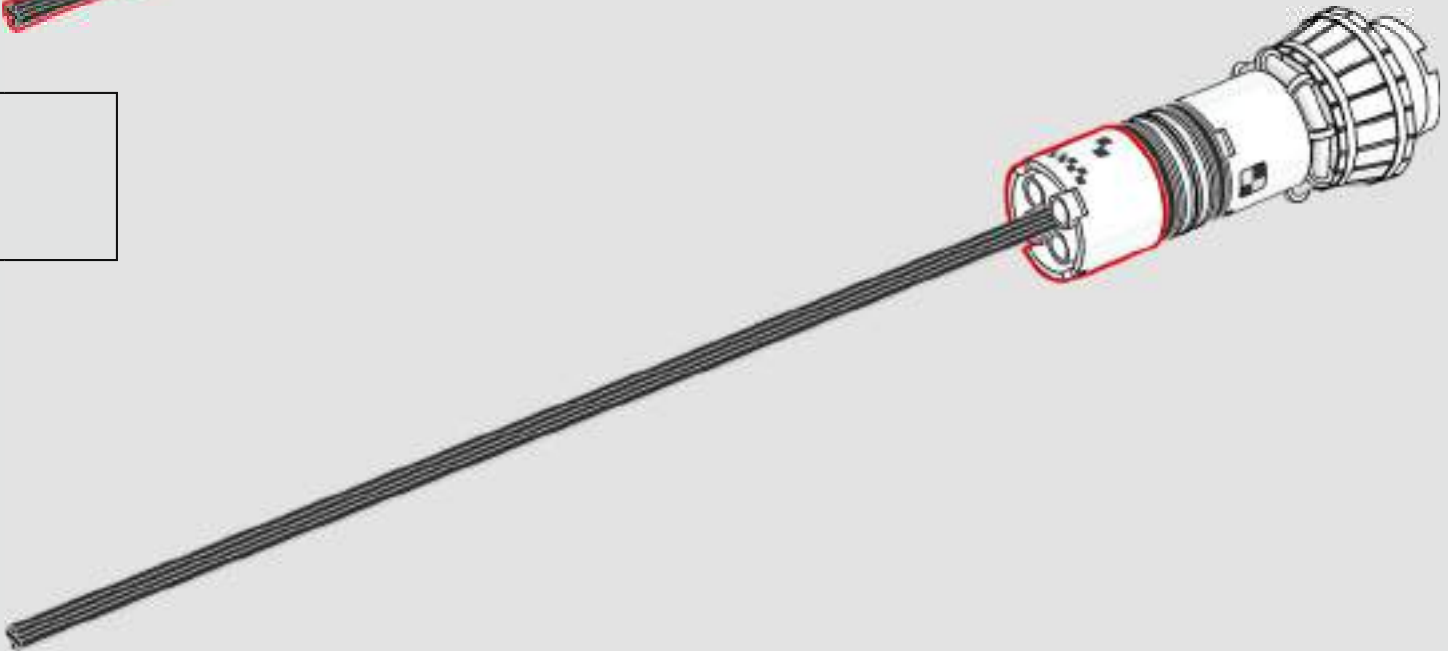
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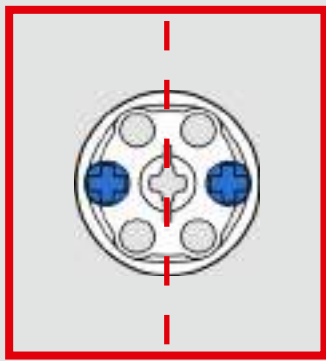
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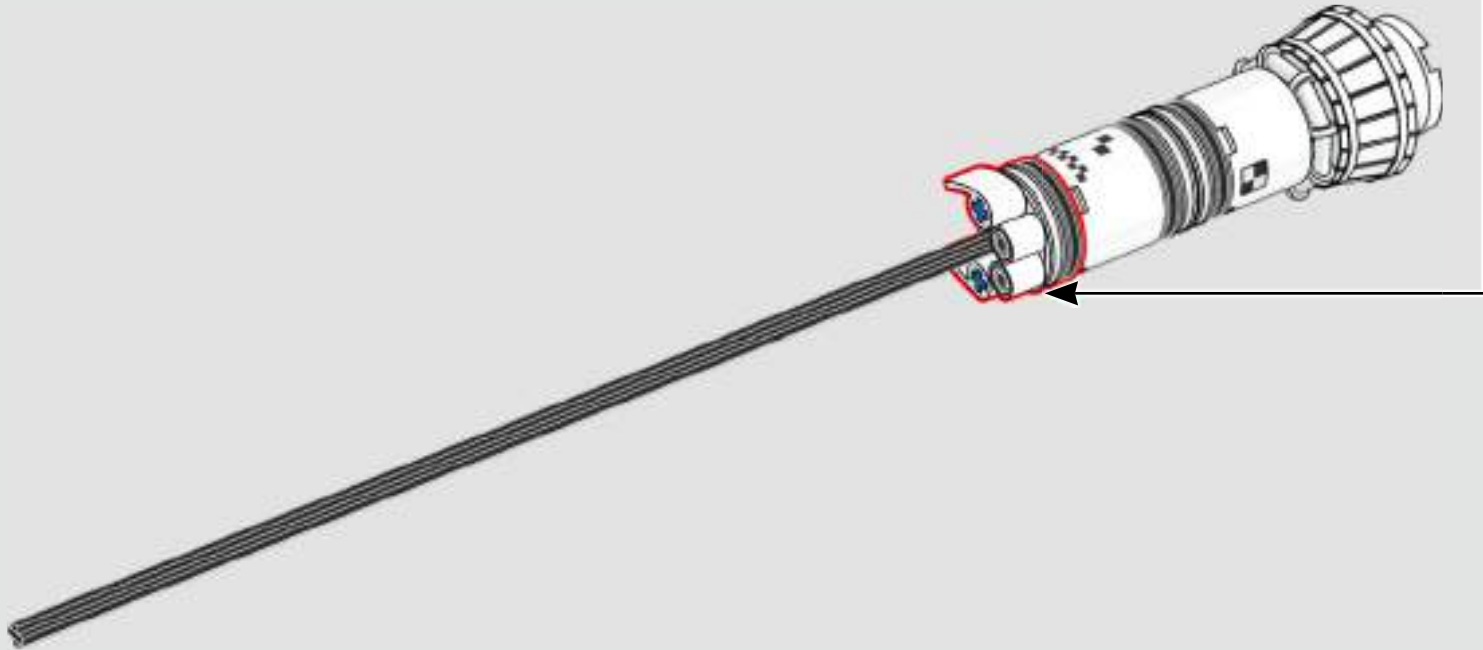
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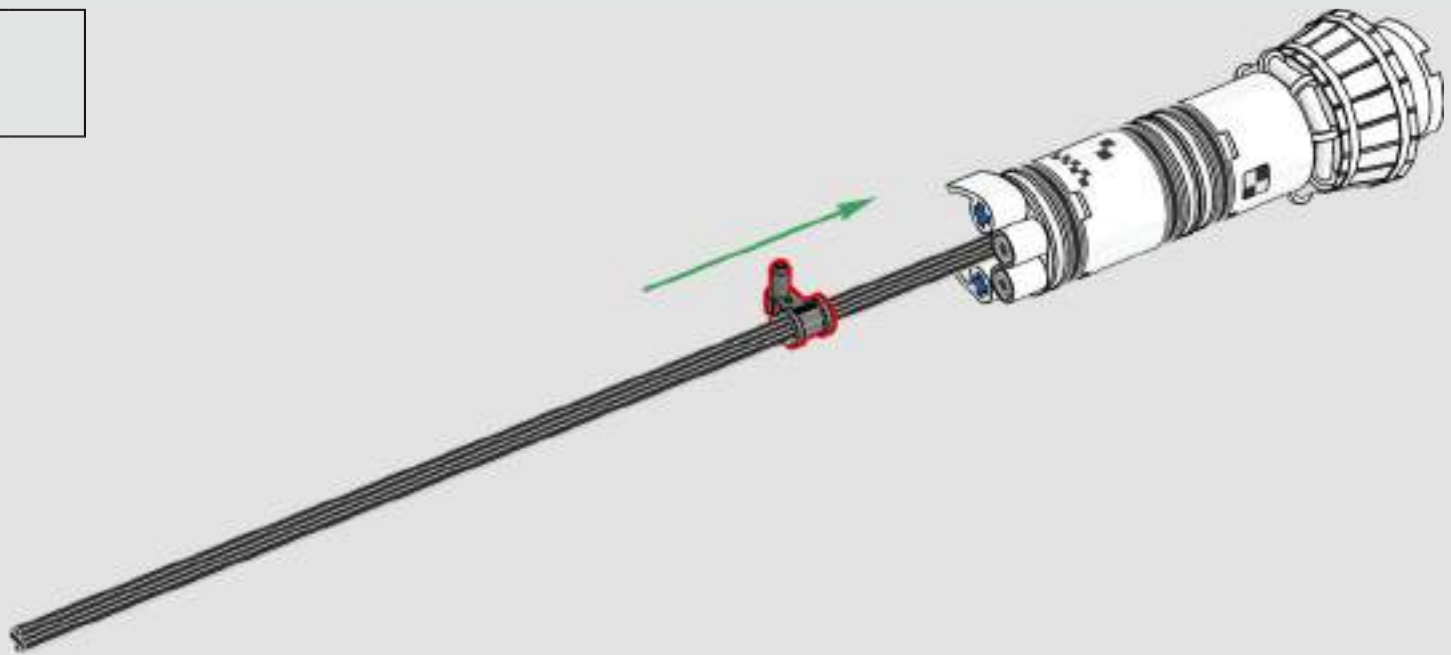


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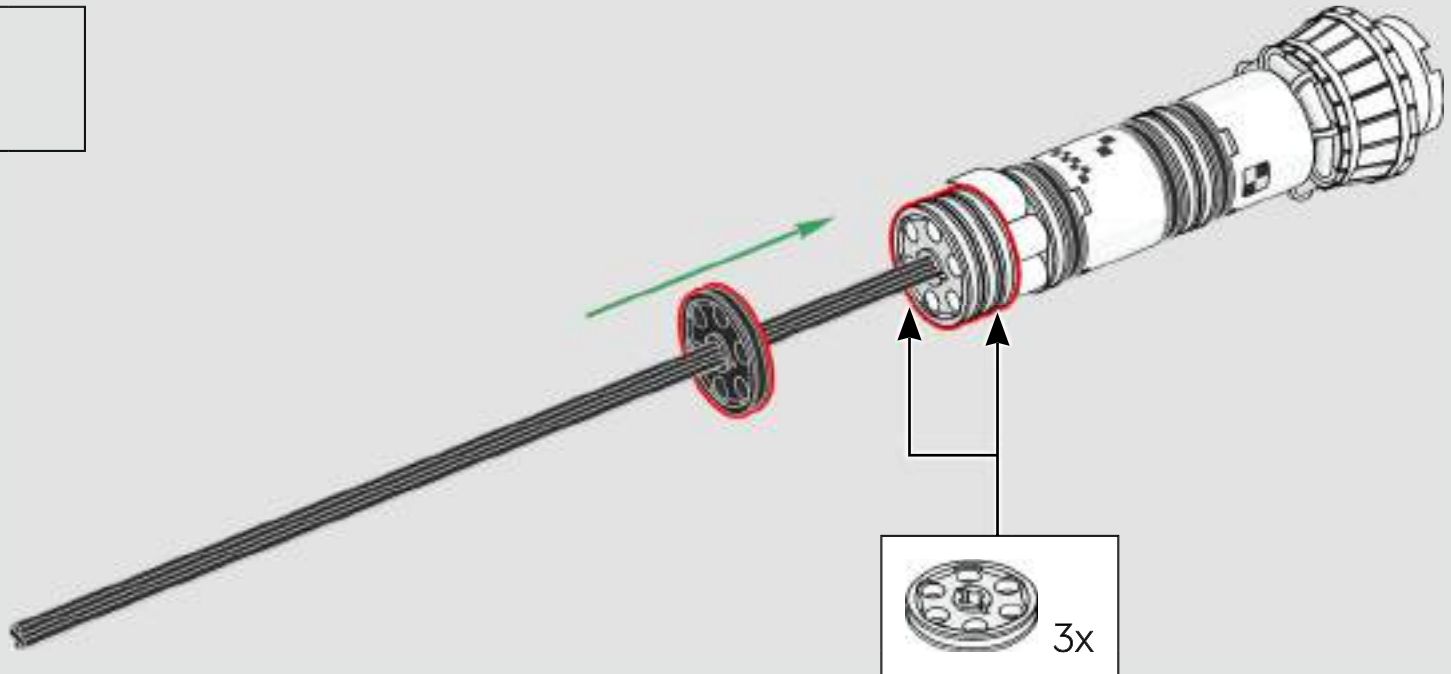


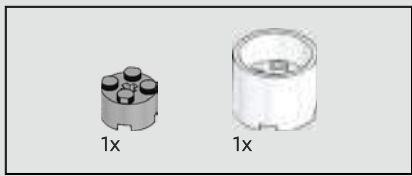


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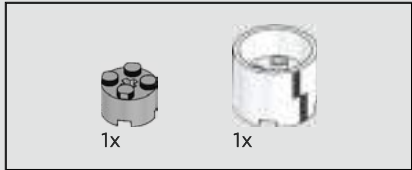
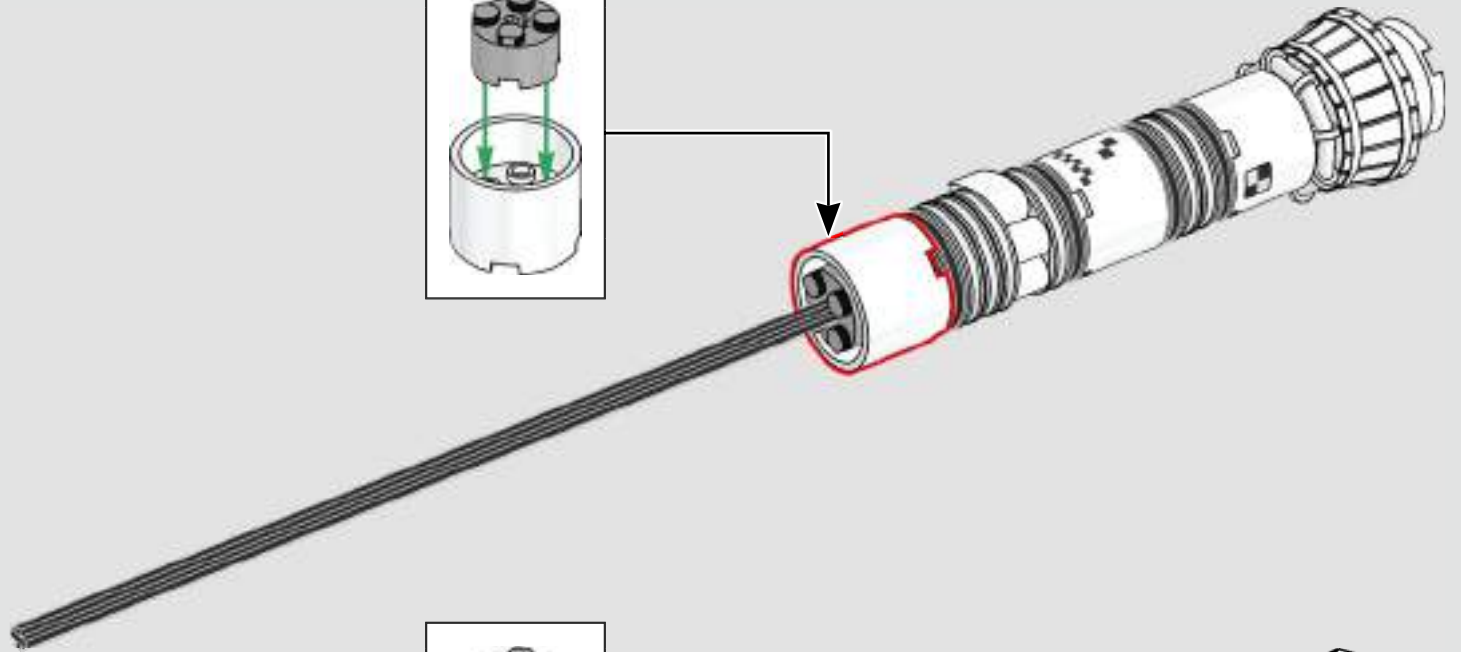
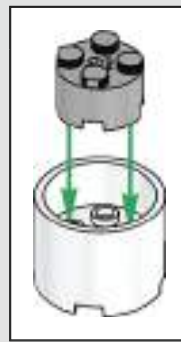


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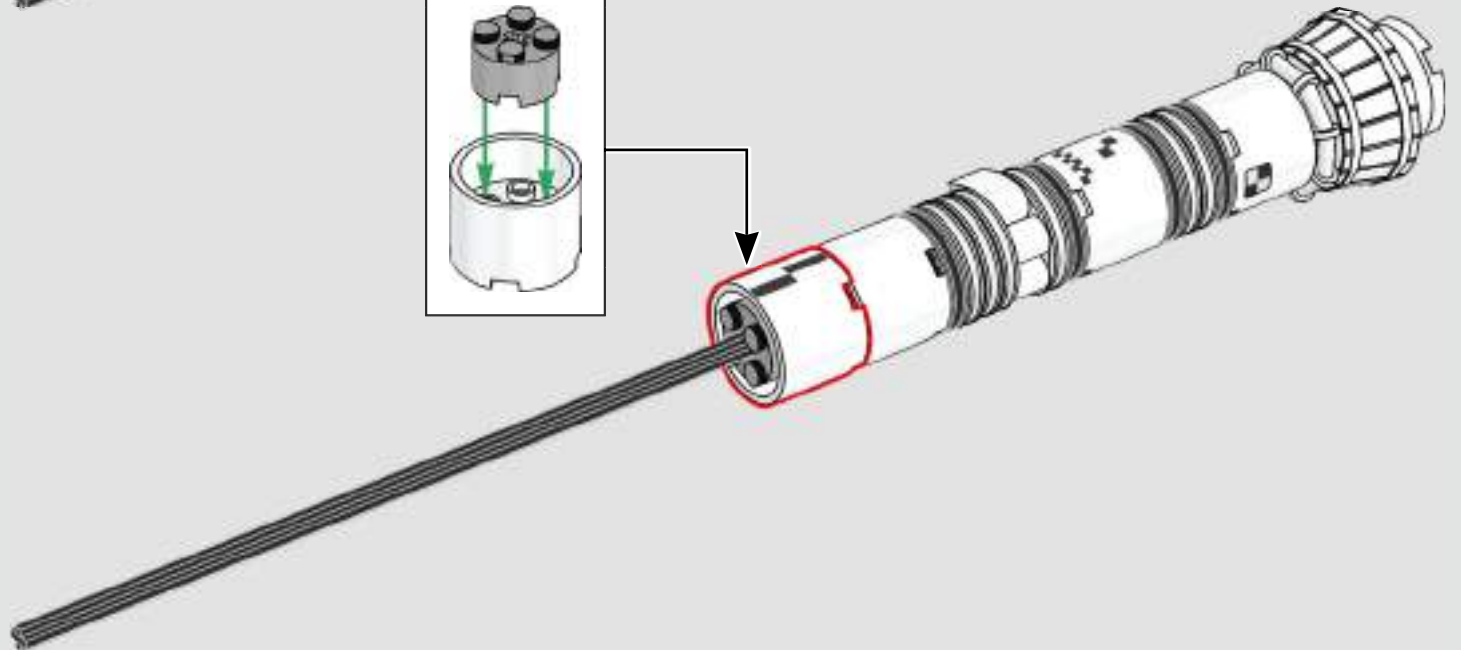
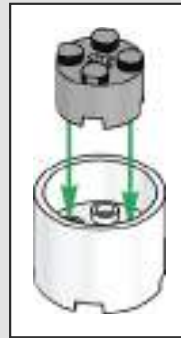


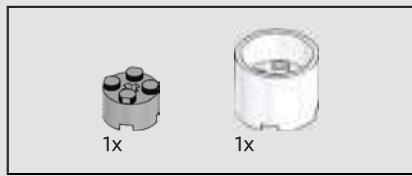


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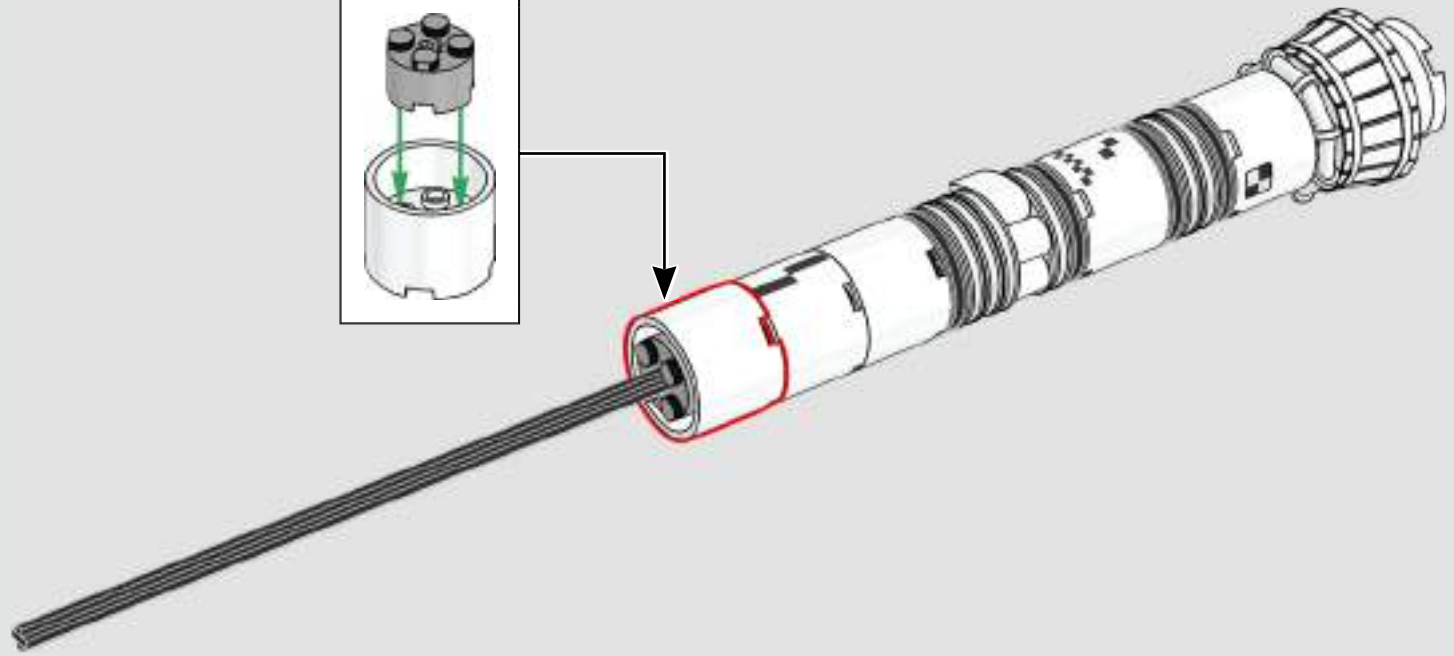
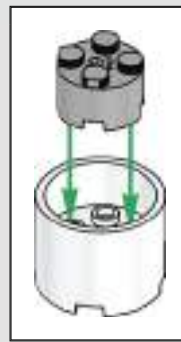


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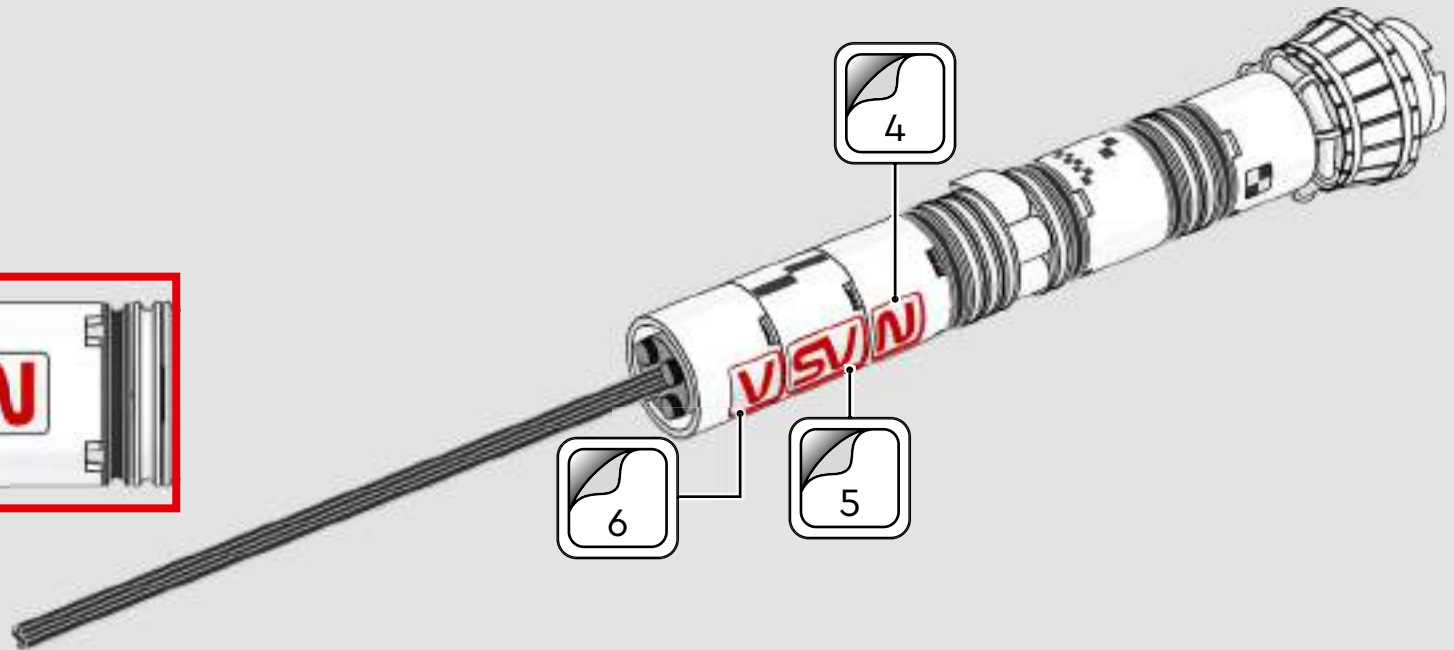


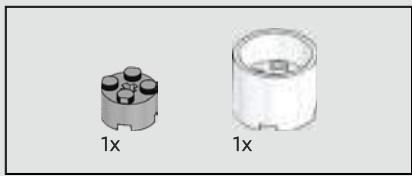


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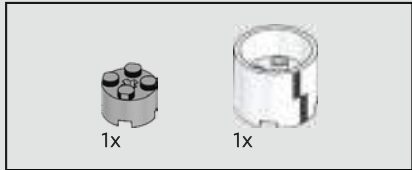
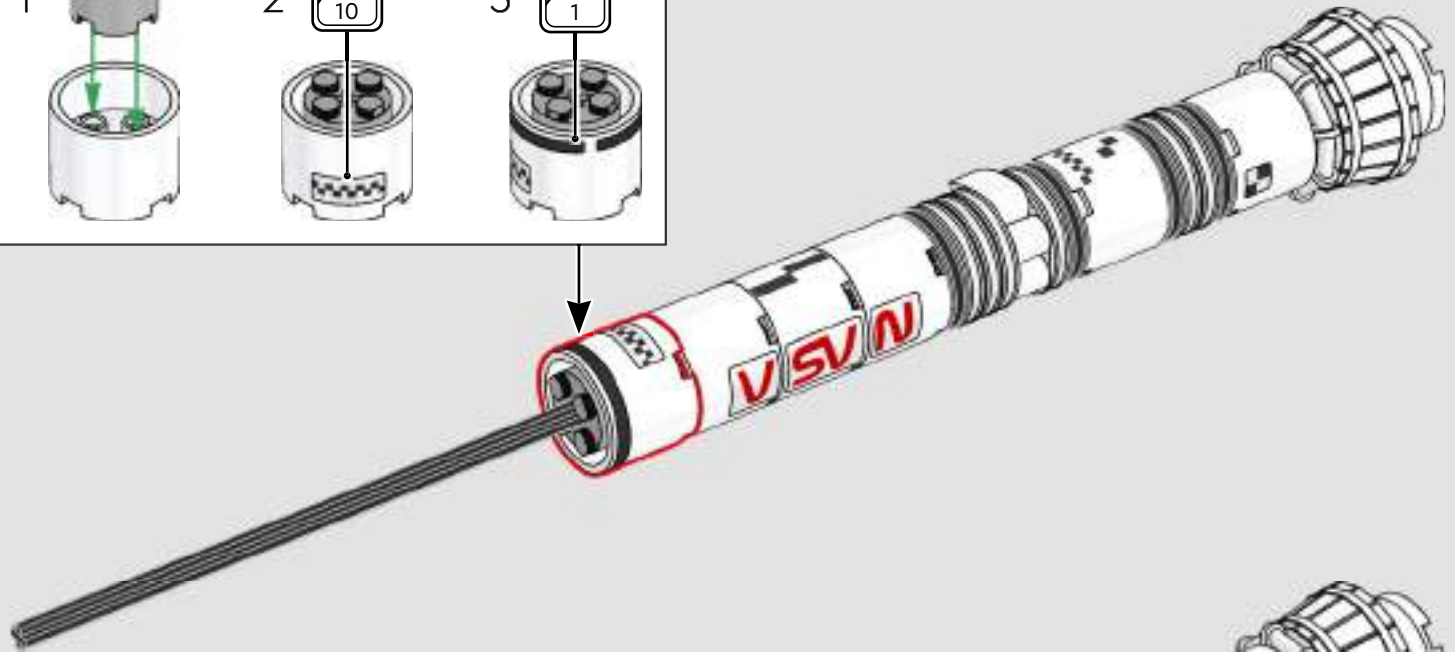
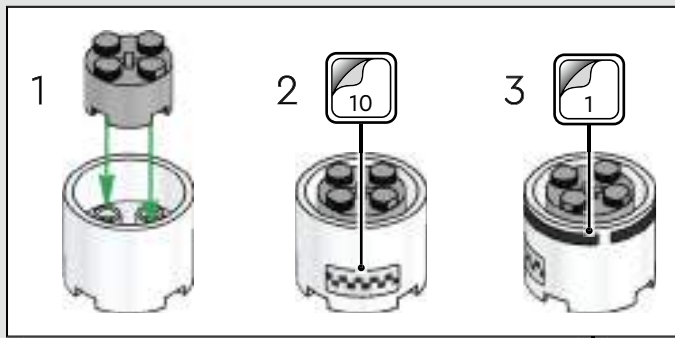


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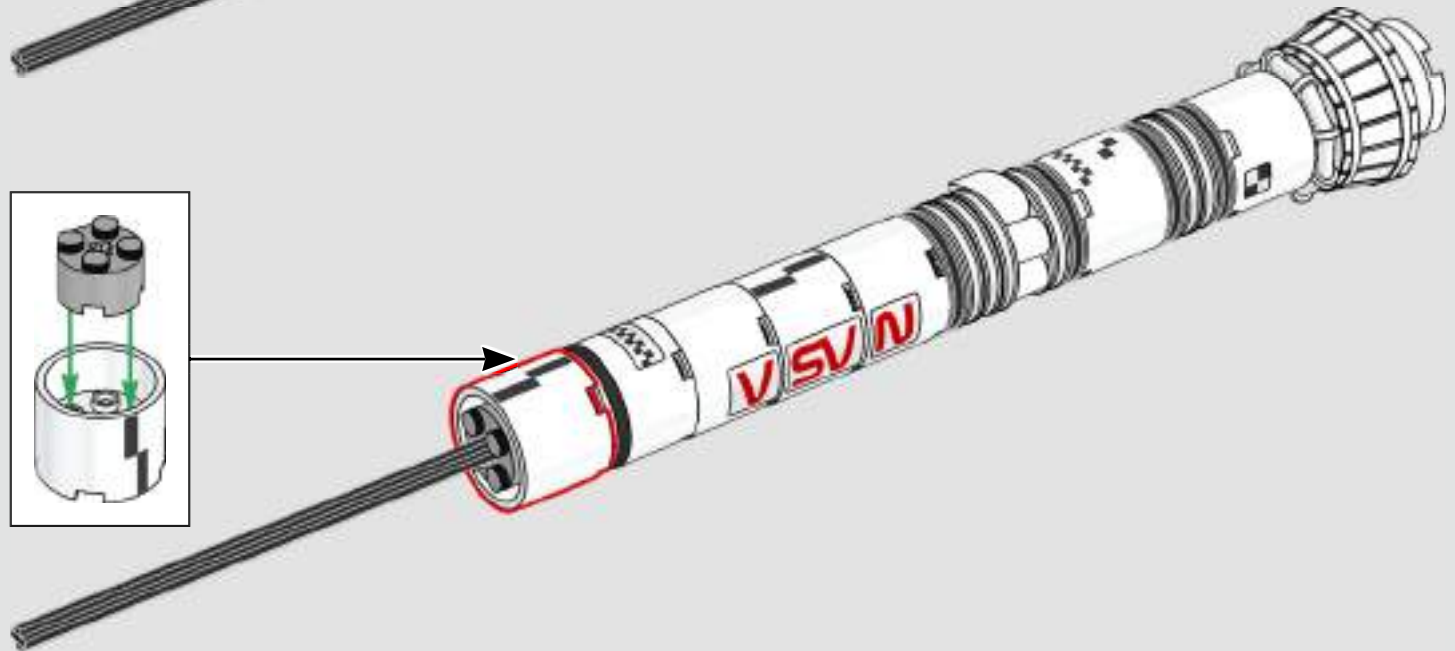
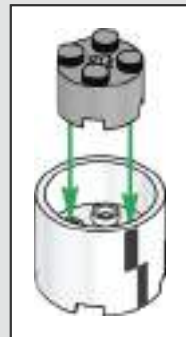


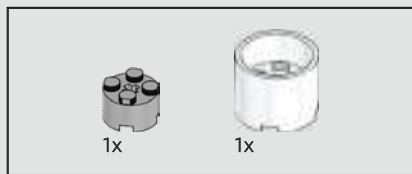


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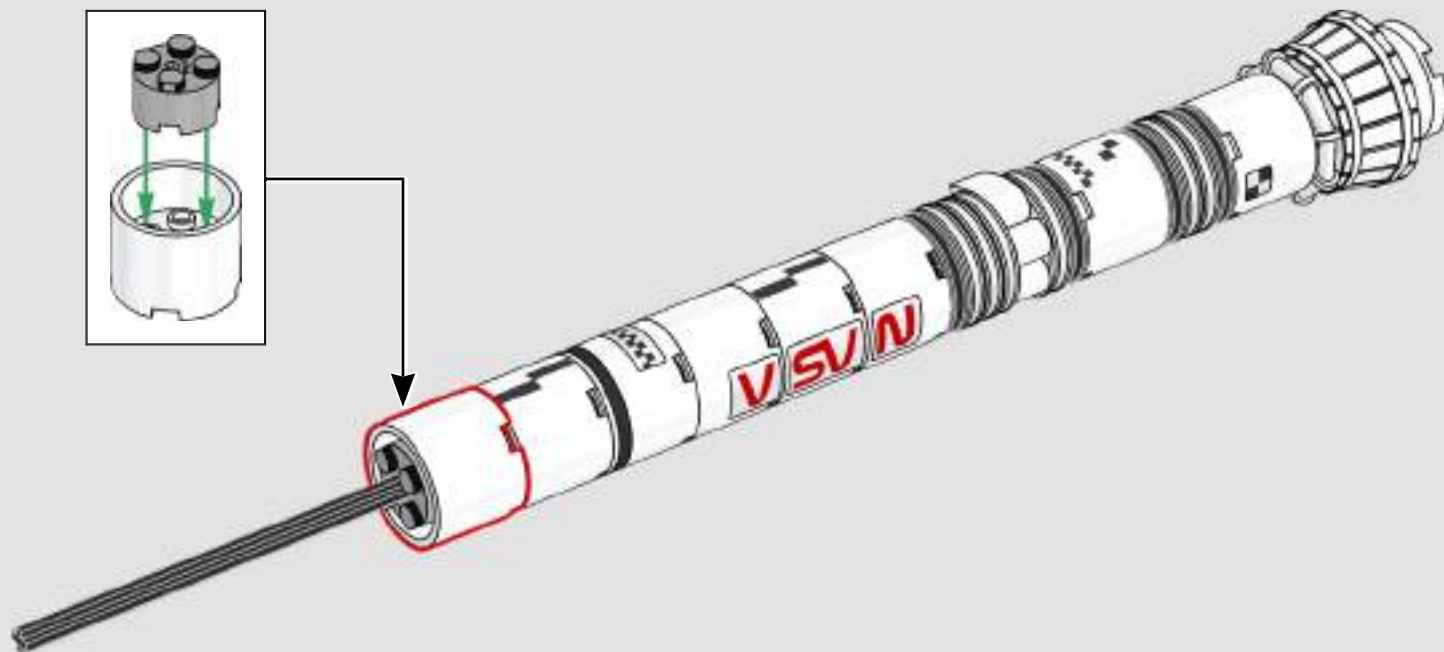
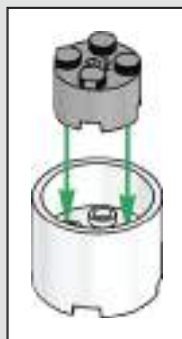


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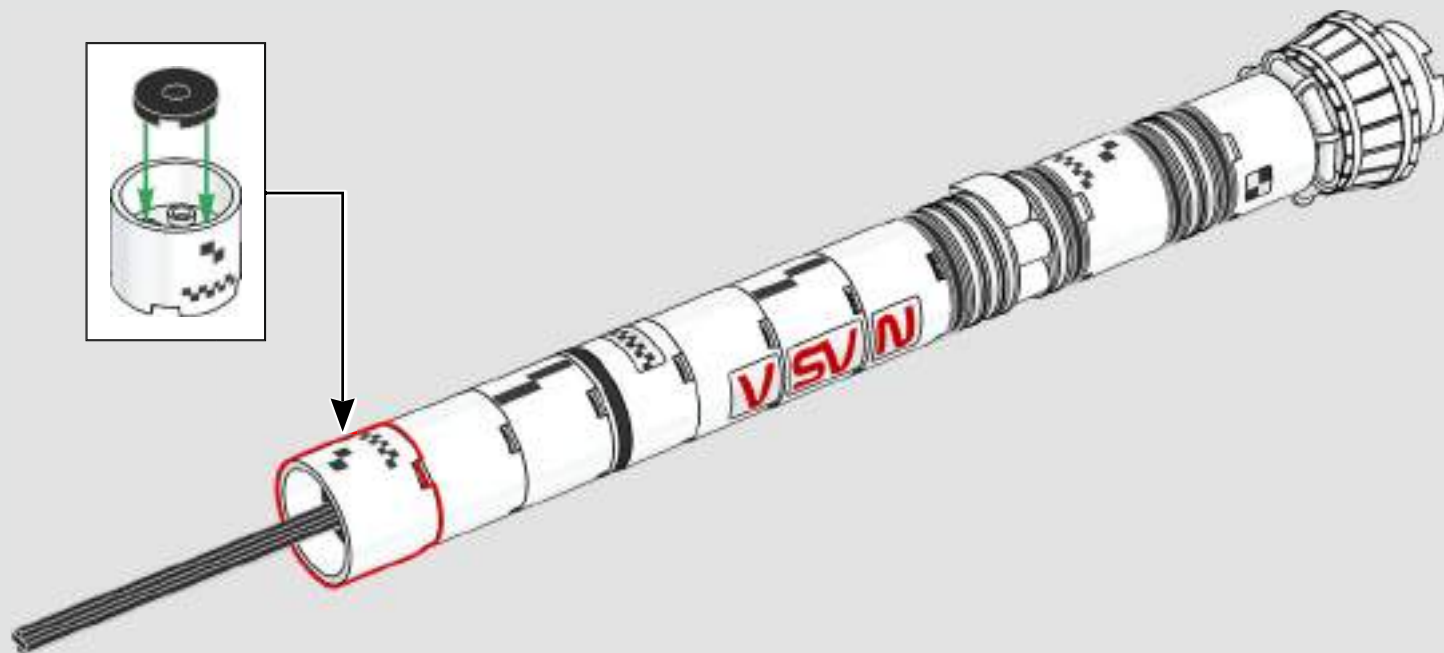




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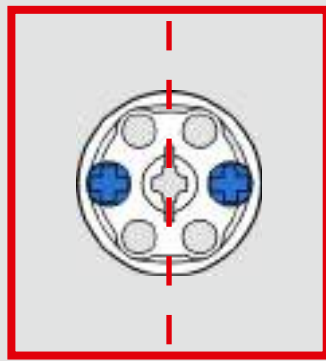


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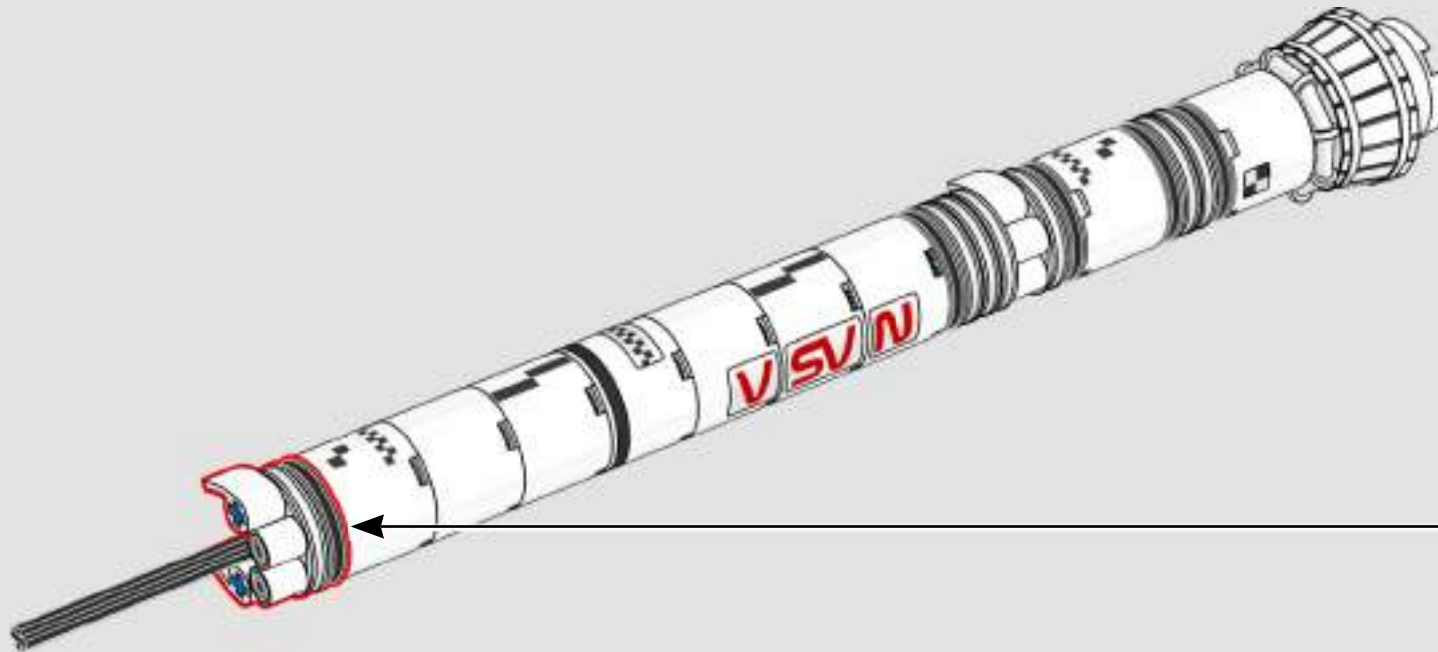
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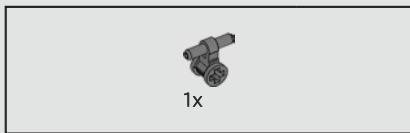


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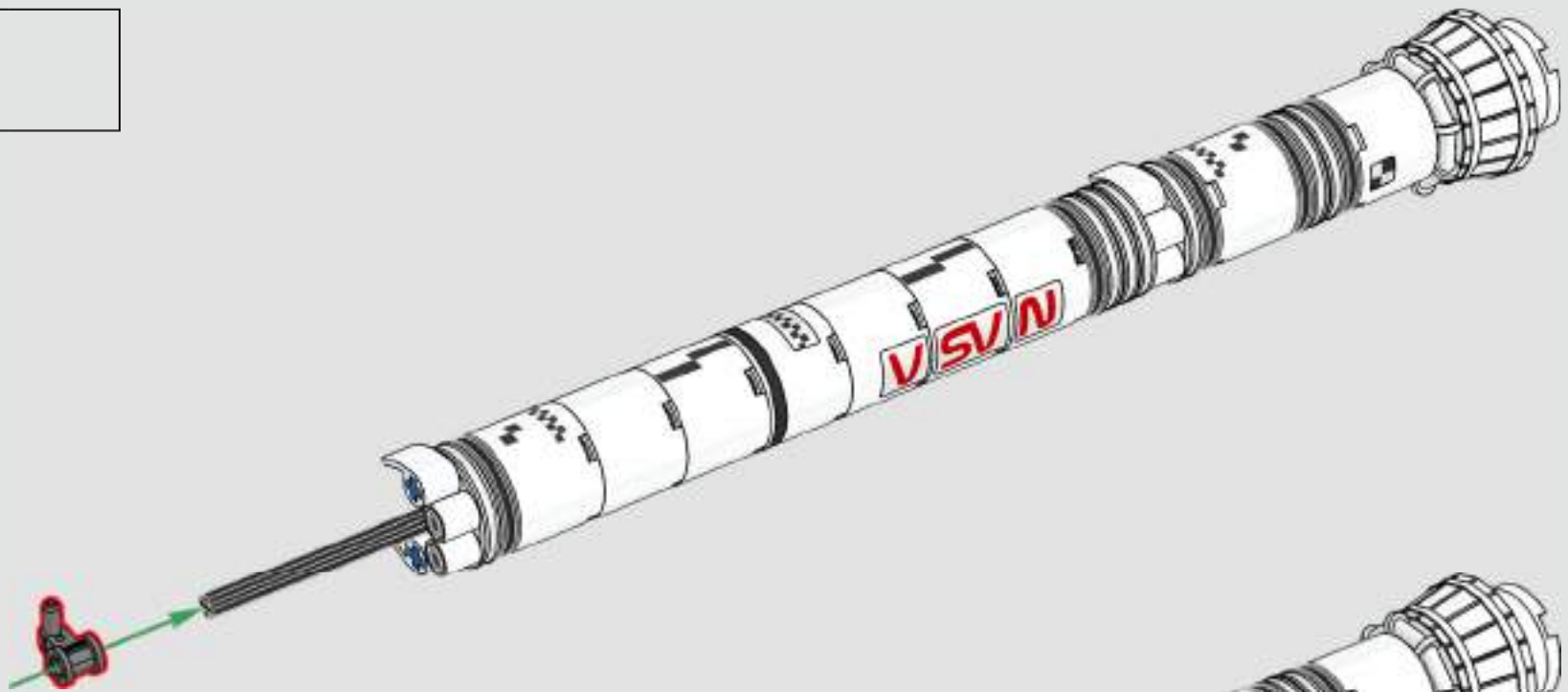


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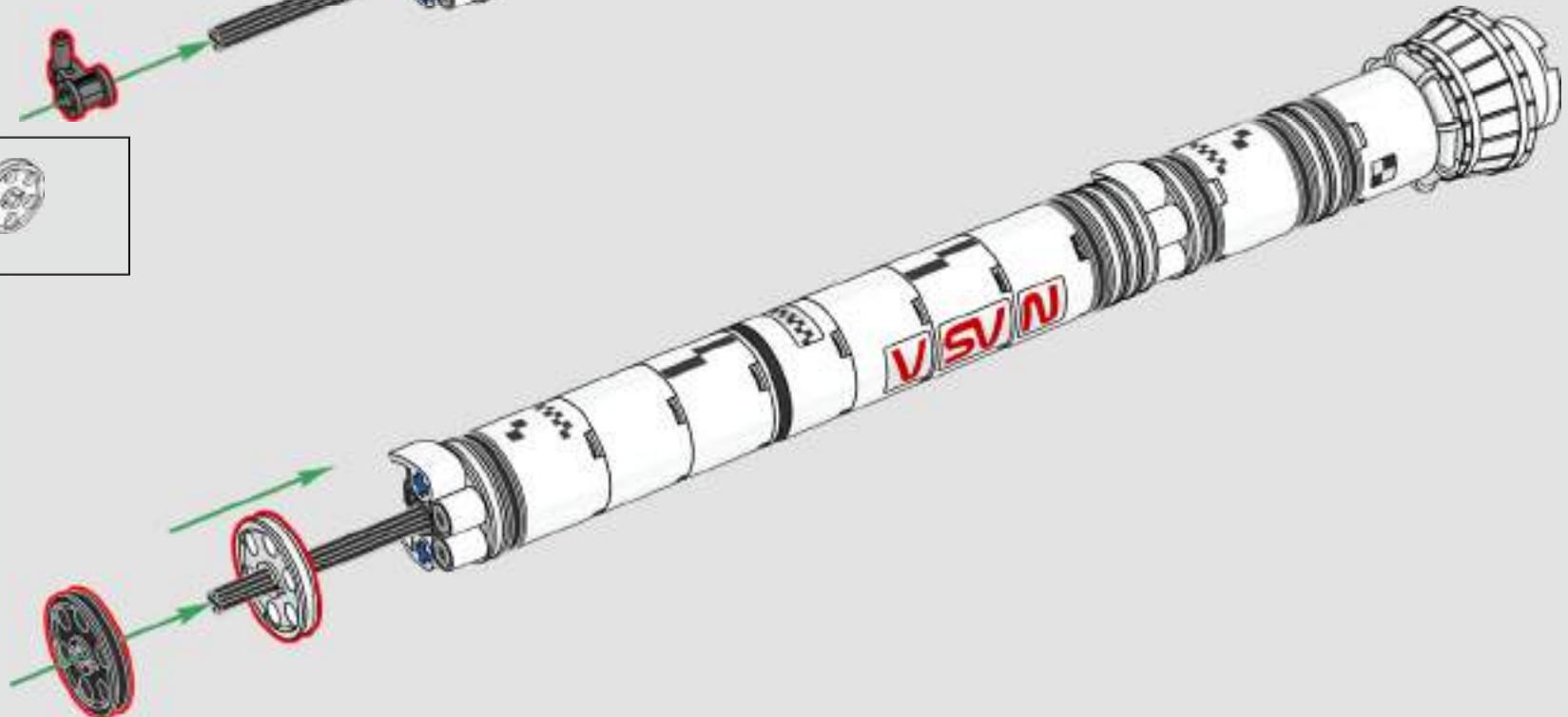


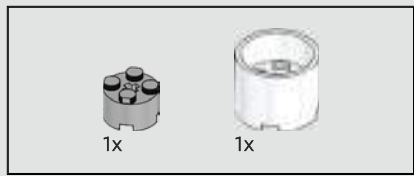


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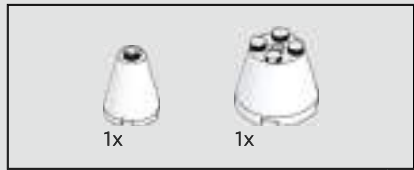
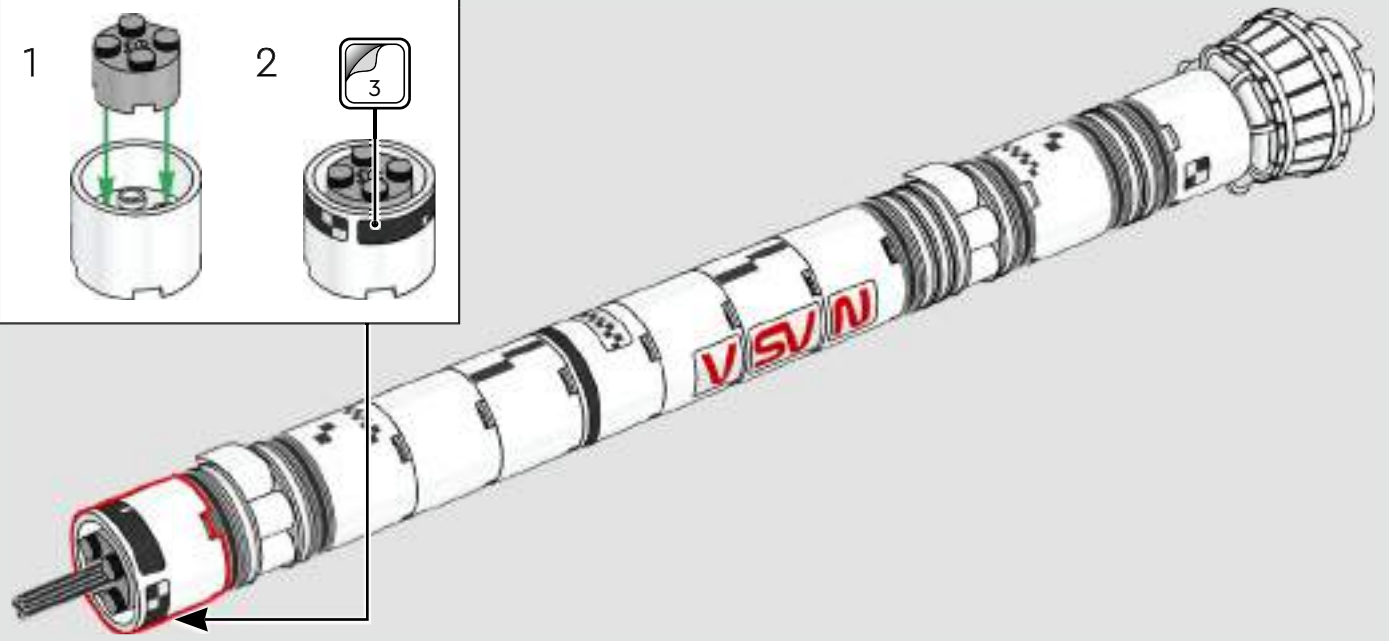
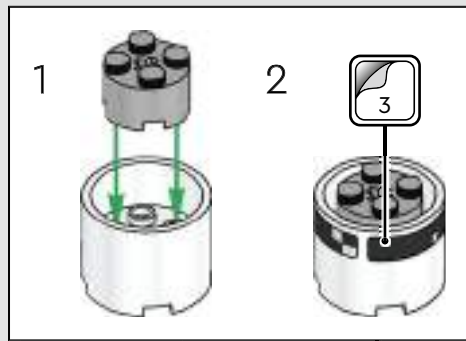


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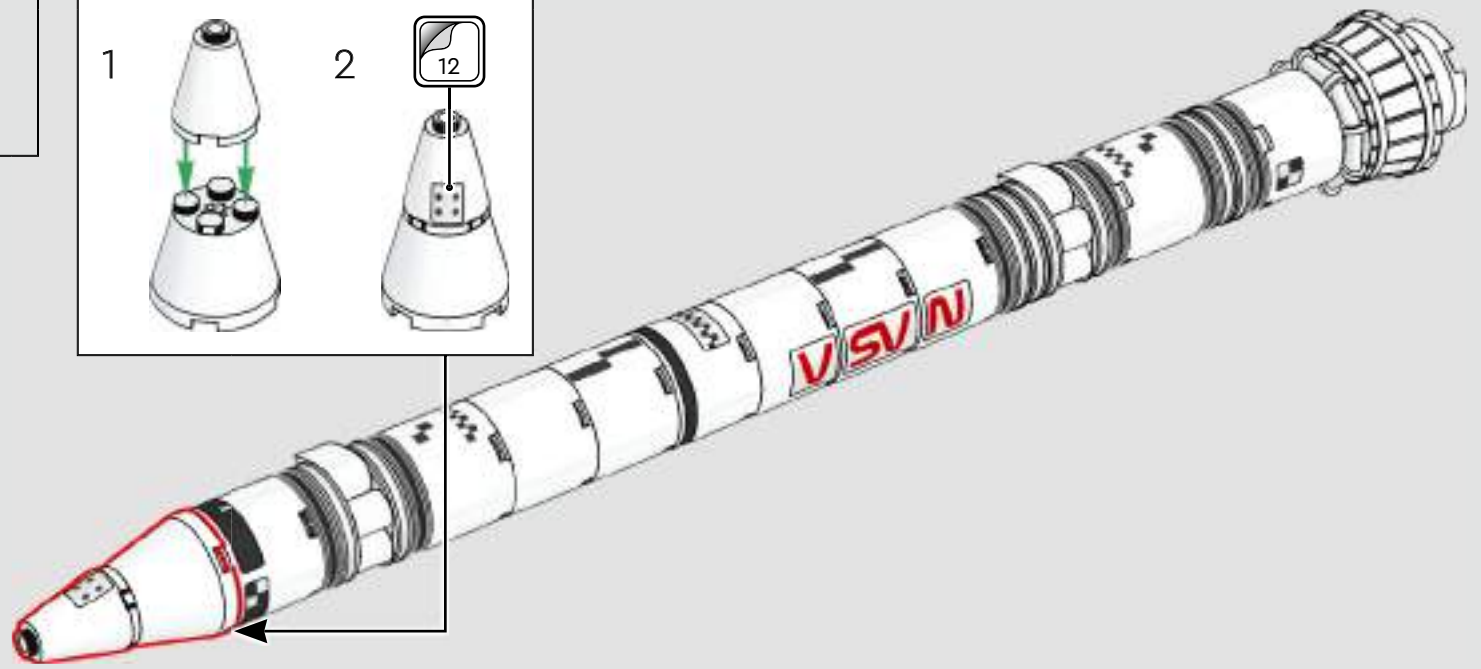
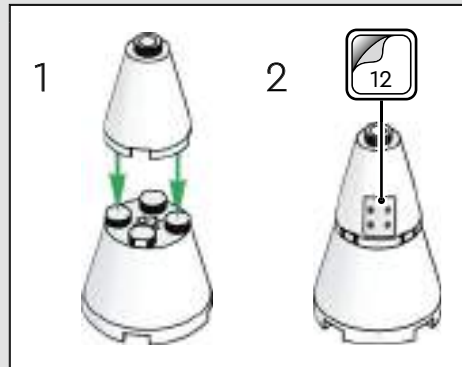




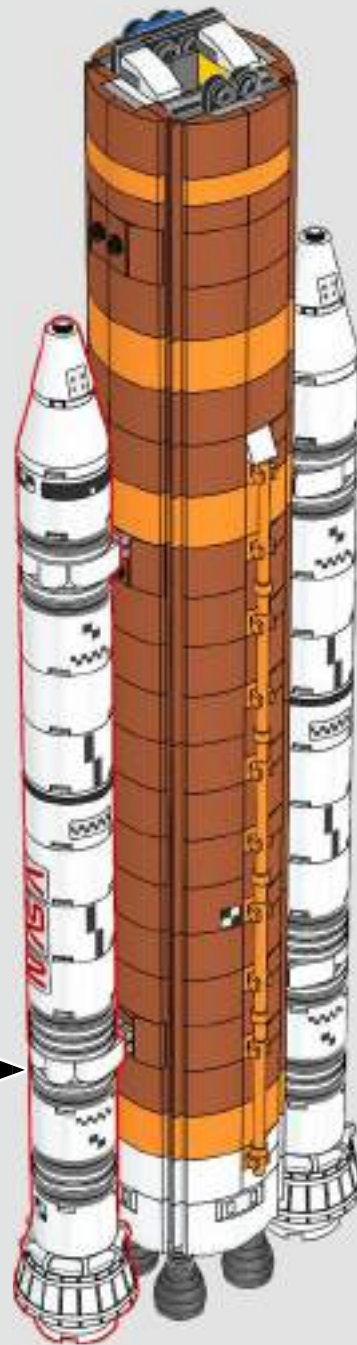
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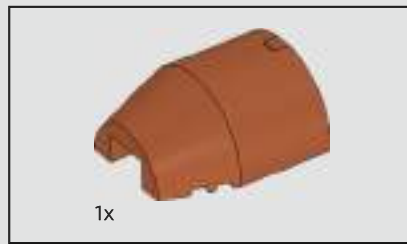
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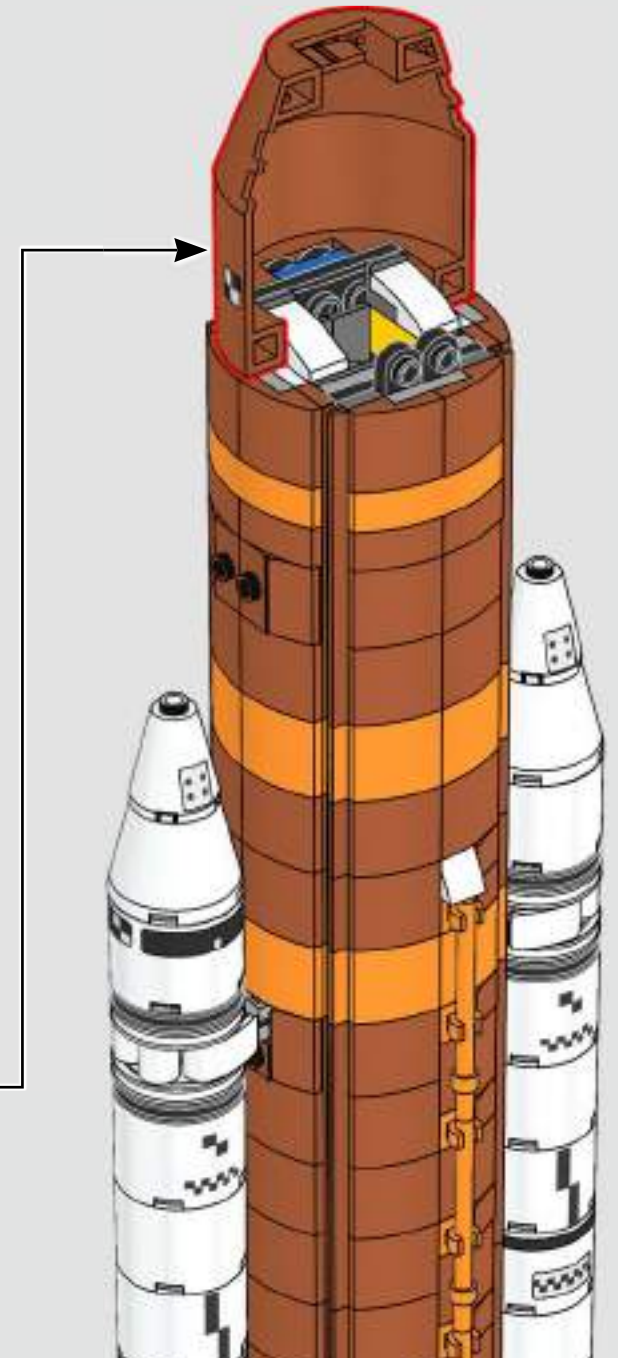
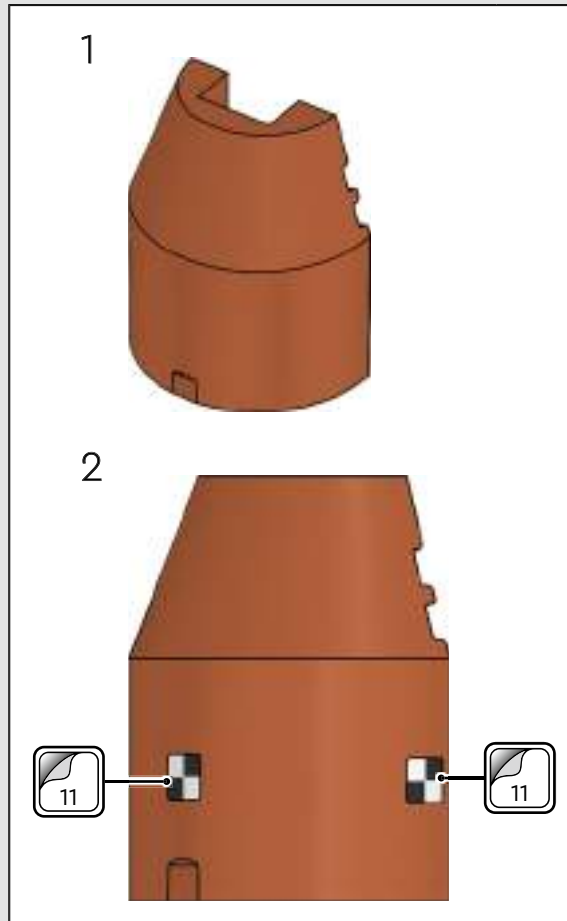
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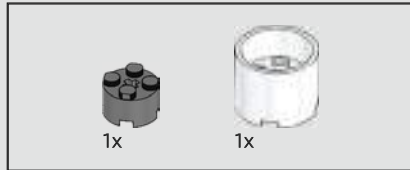
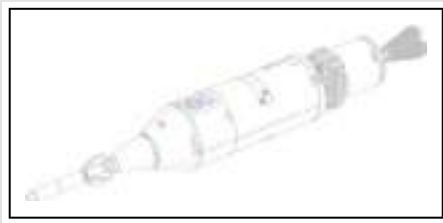


The cone element at the top of the boosters was already used in 1979 LEGO® Classic Space rockets (but had a solid stud with the LEGO logo).

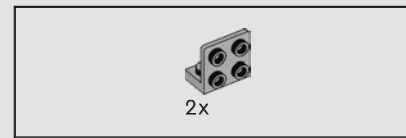
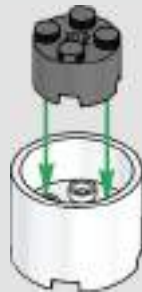


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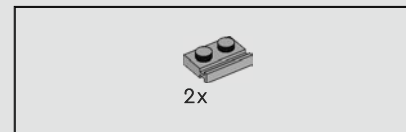




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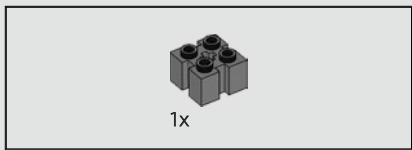


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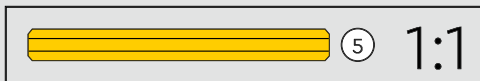


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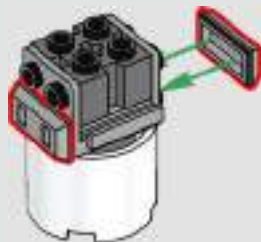




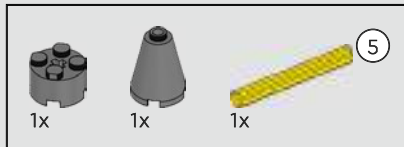
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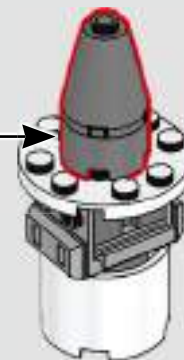
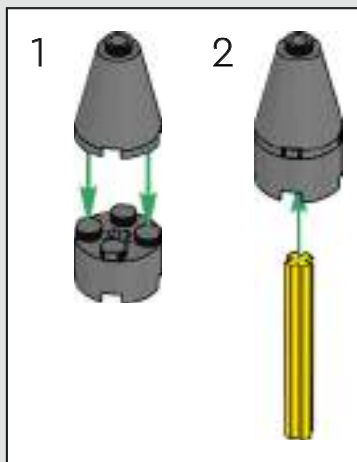
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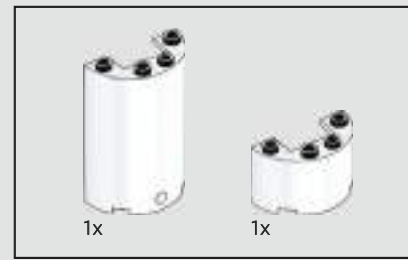
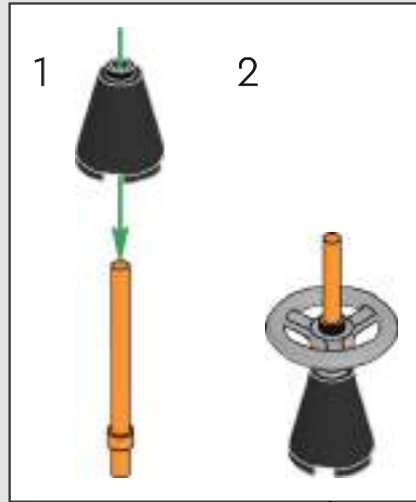


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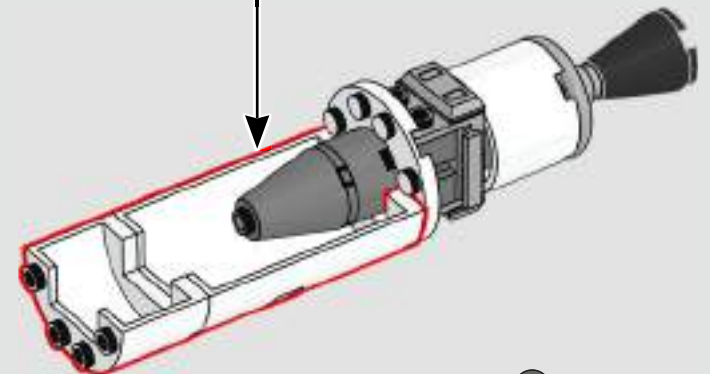
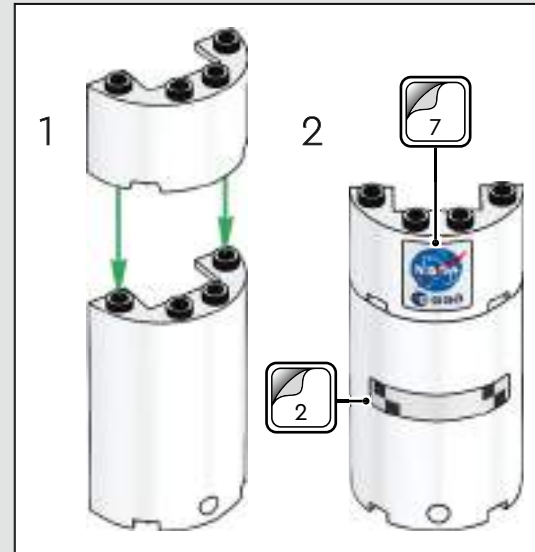


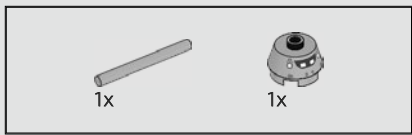


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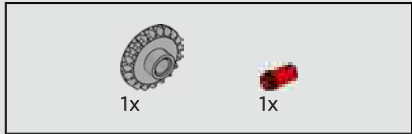


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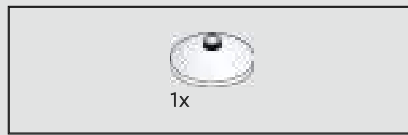
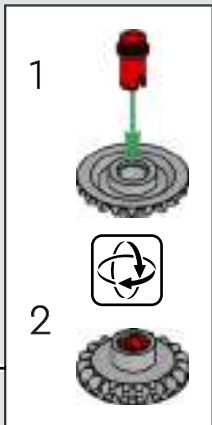




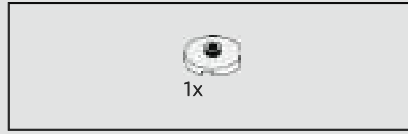
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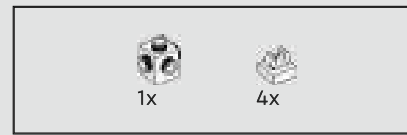
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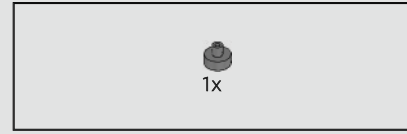
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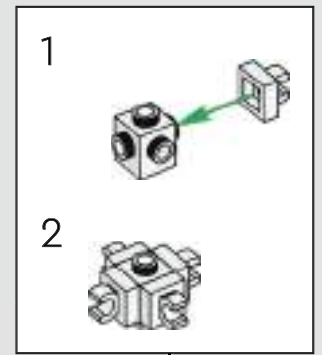
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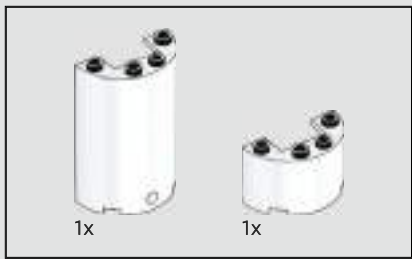
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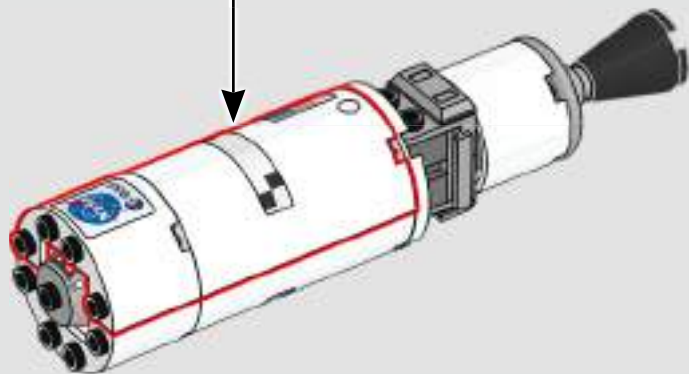
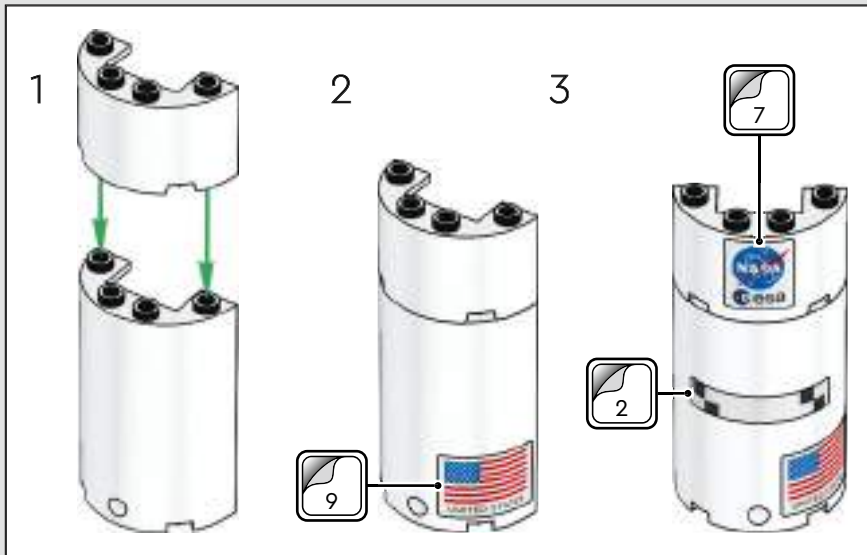
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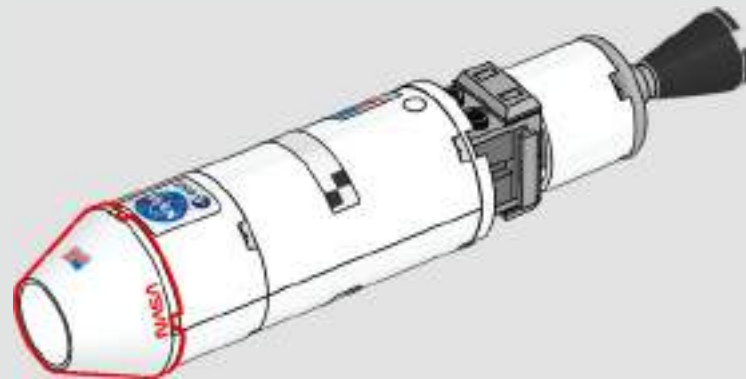


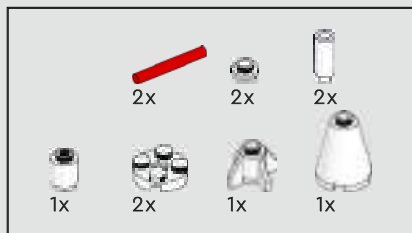


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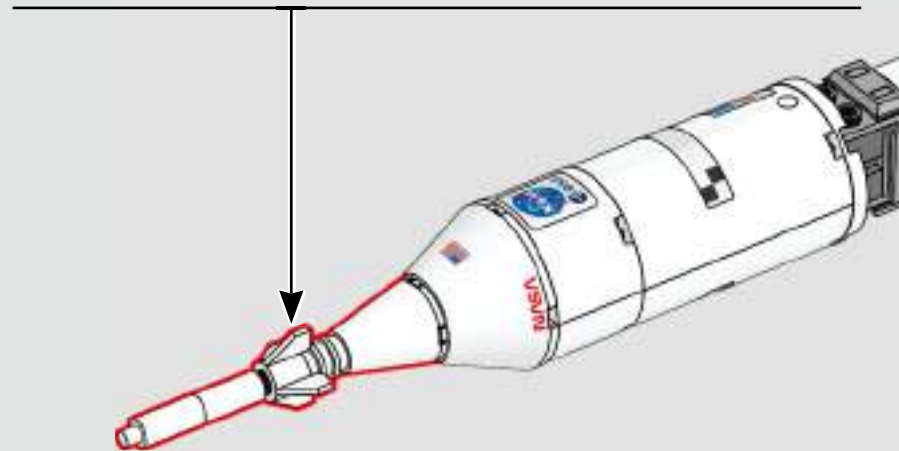
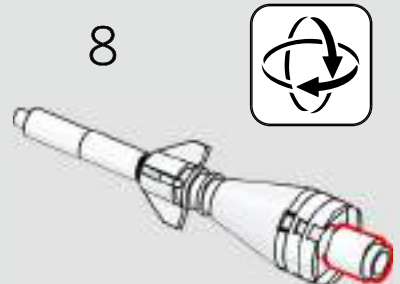
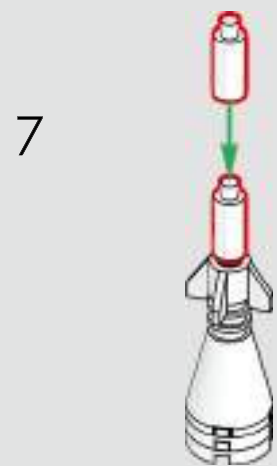
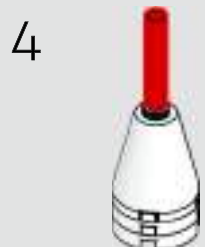


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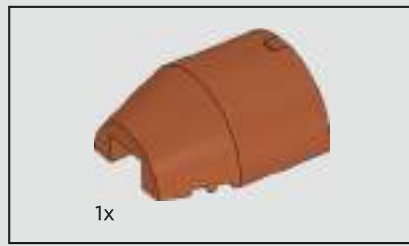
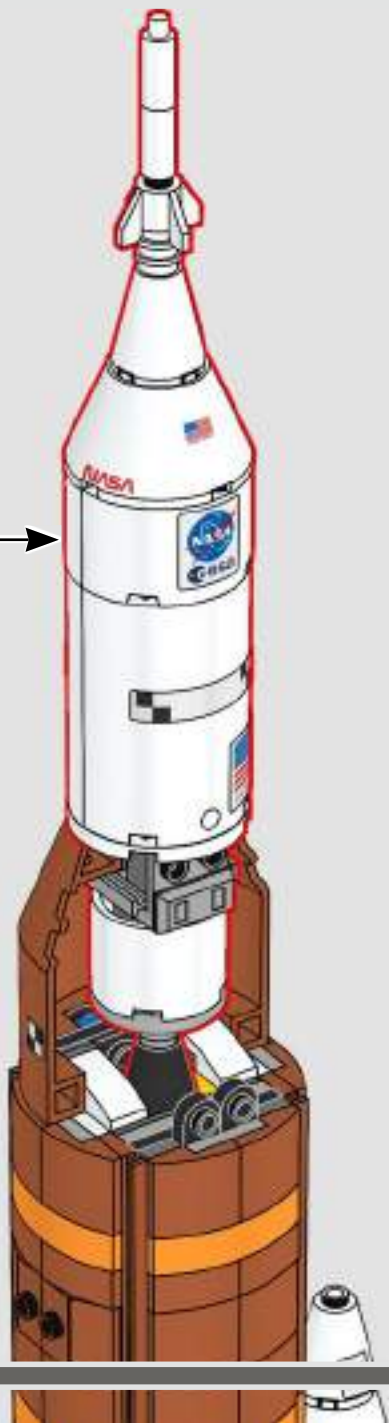




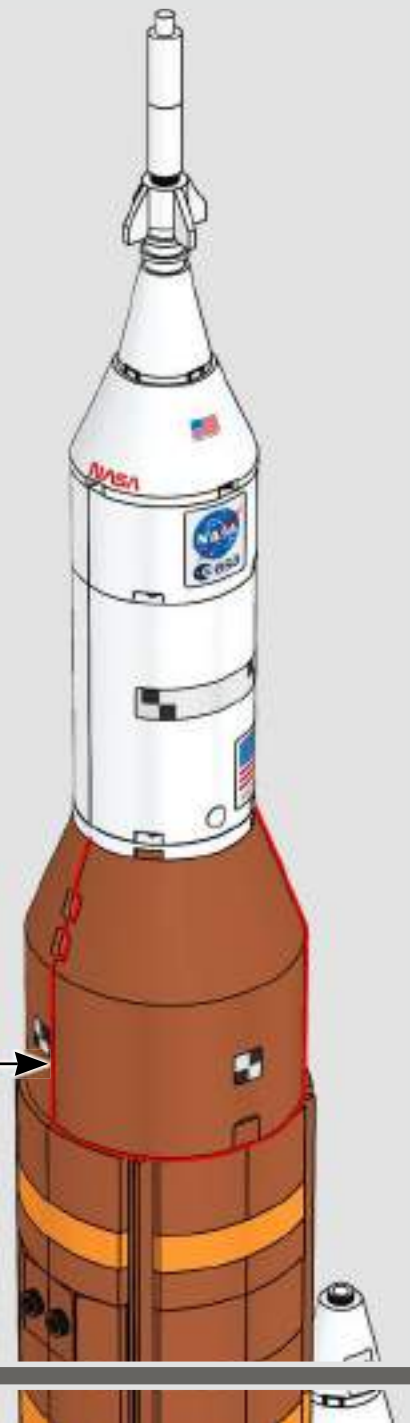
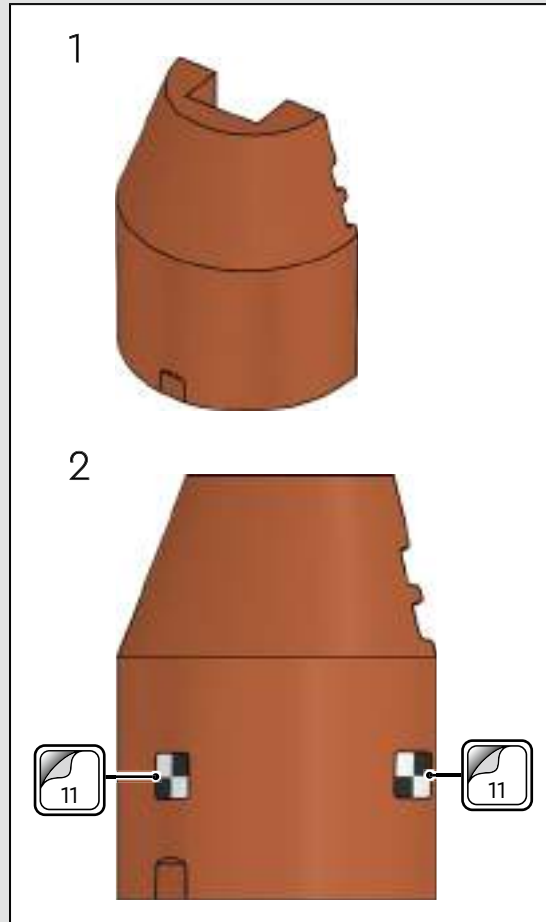
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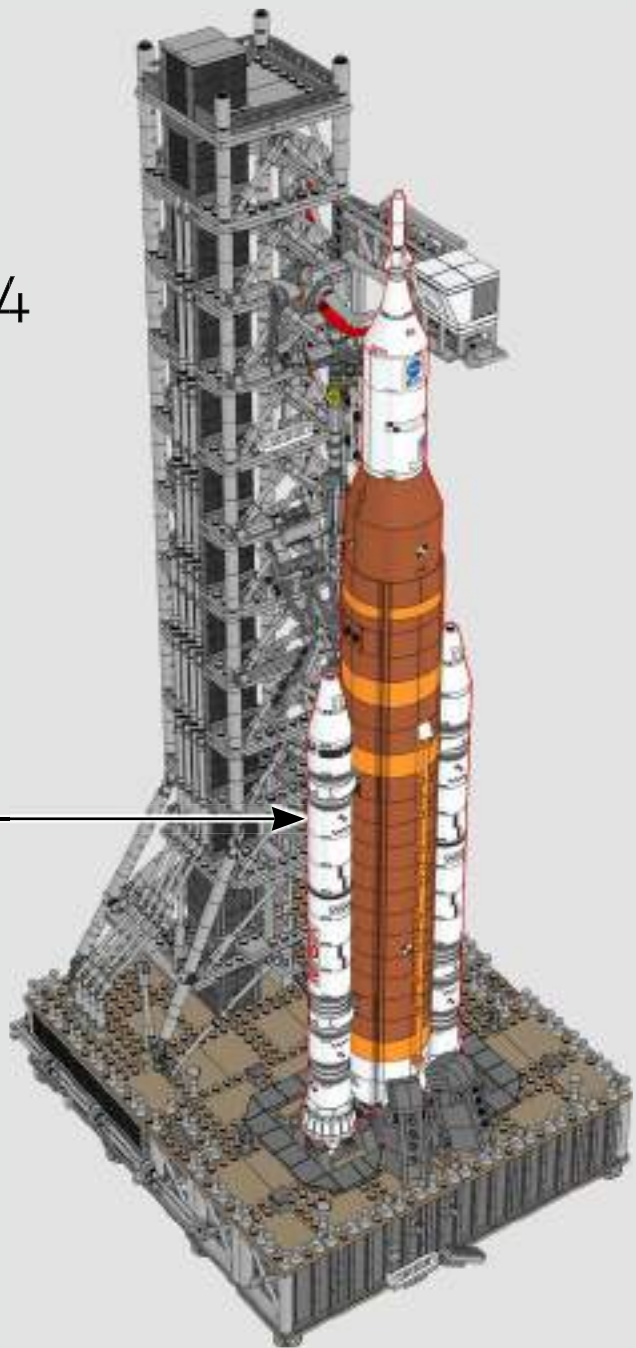
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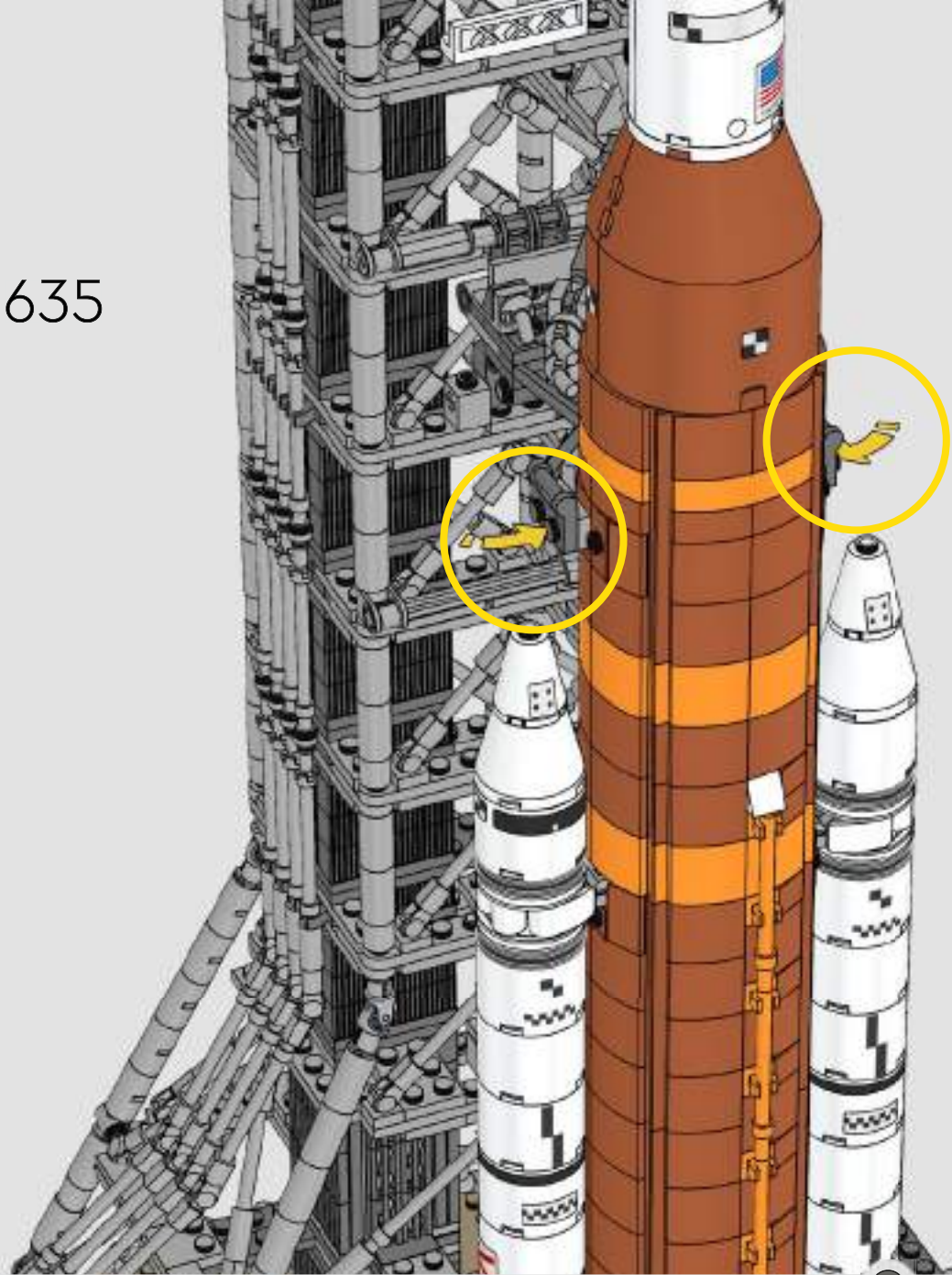
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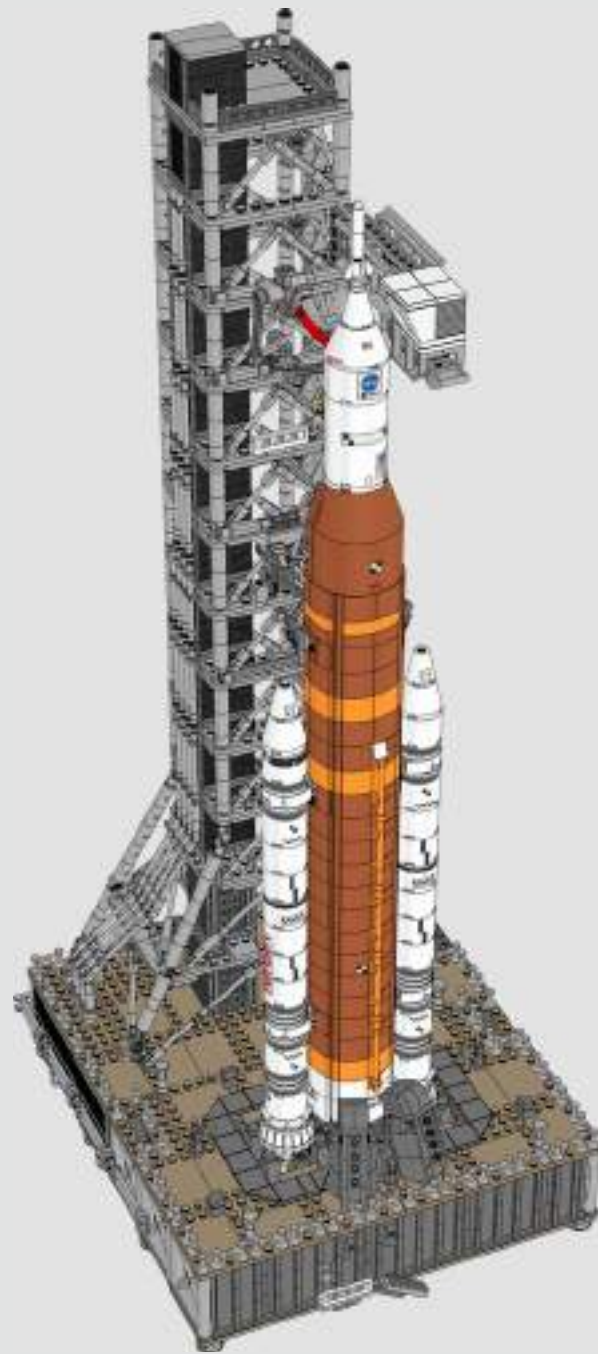
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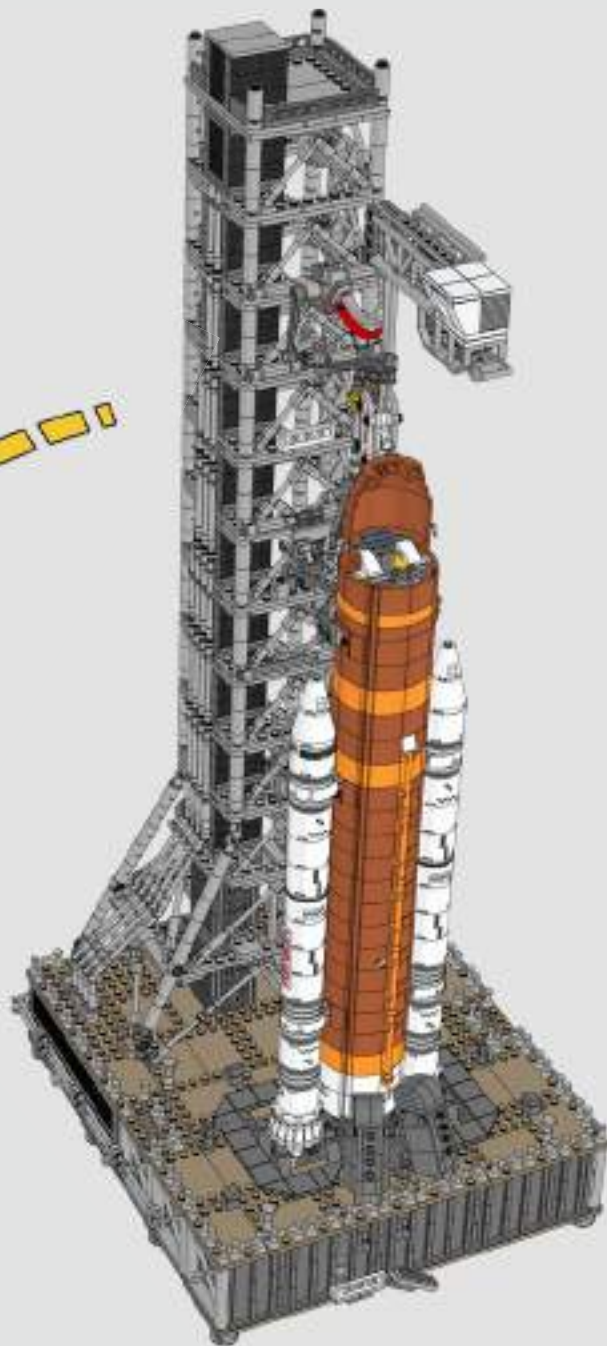
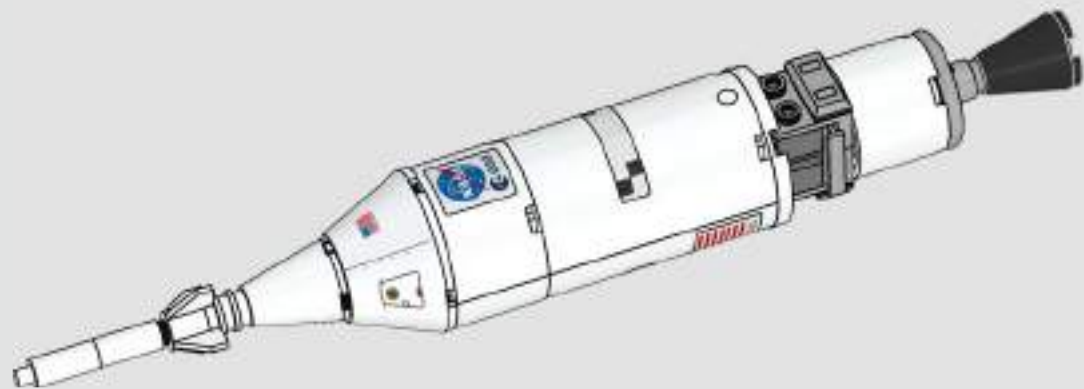
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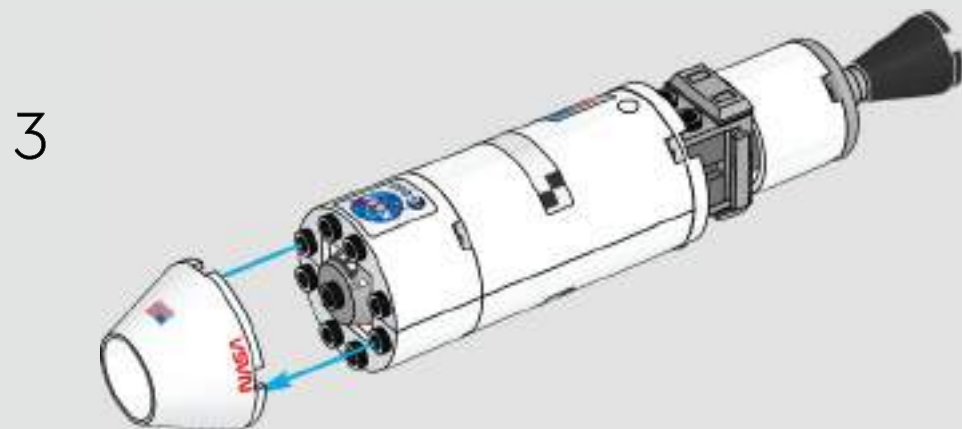
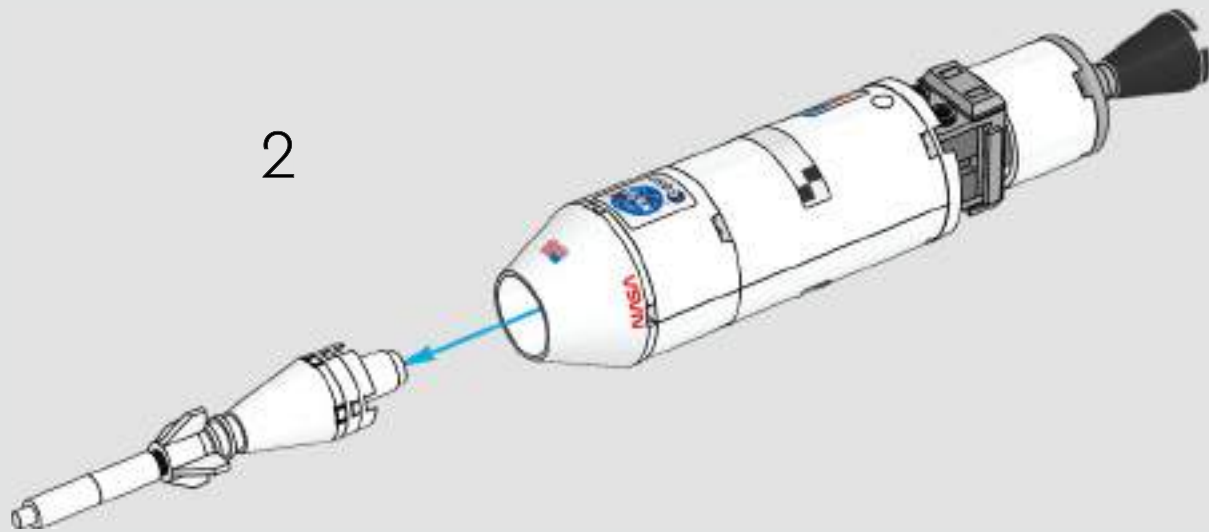


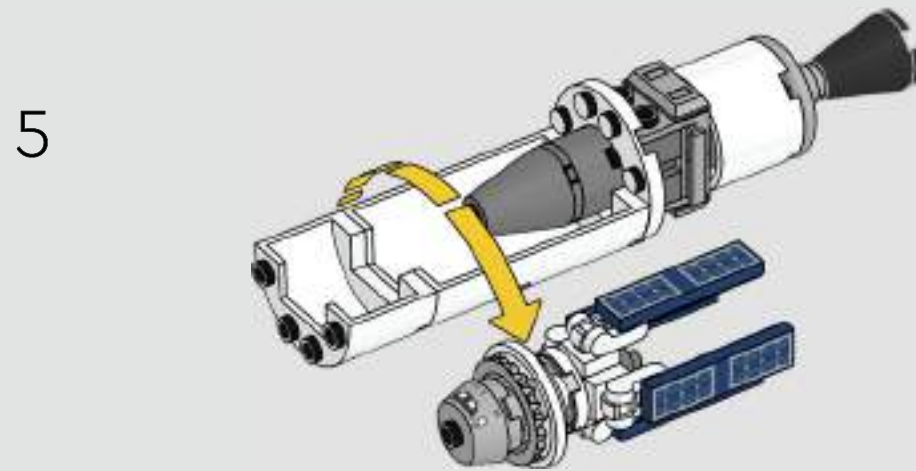
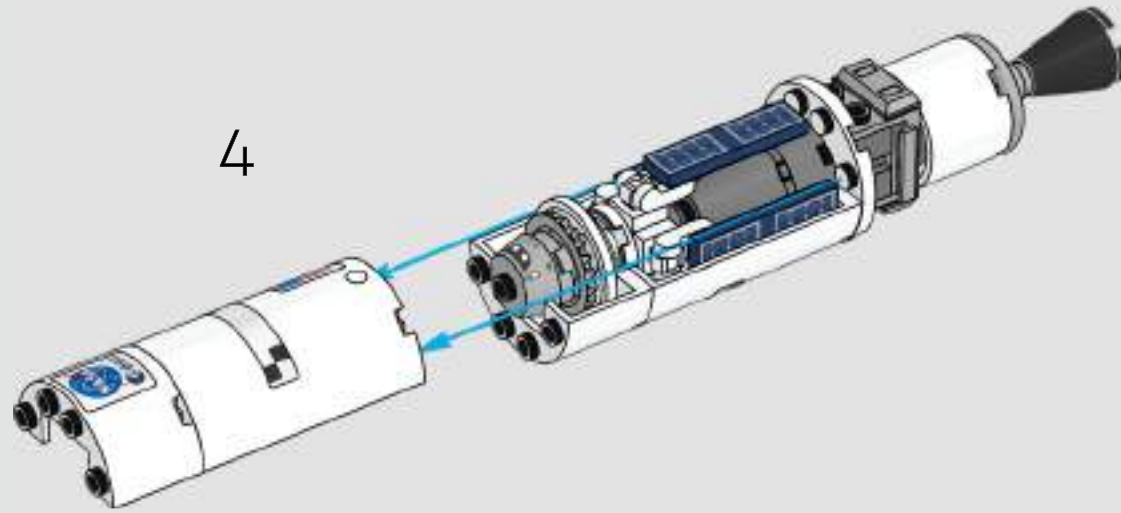
Like in real life, the whole rocket rests on the skirts of the boosters.

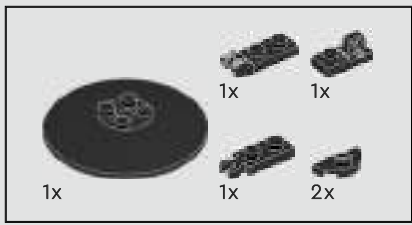


1









6

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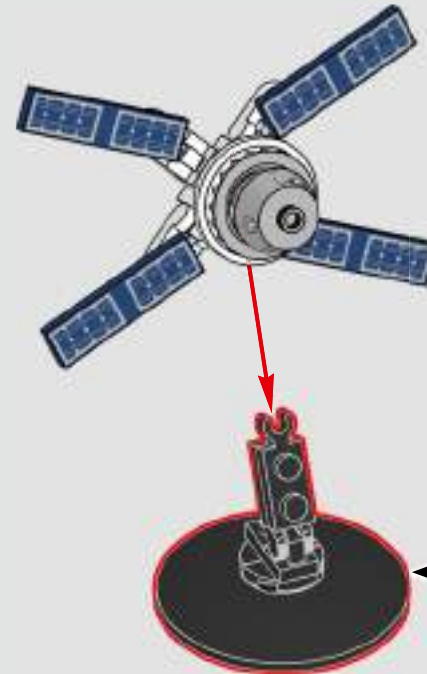
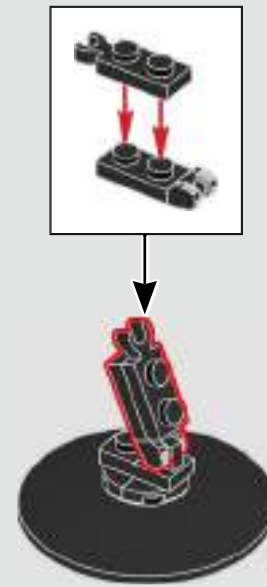
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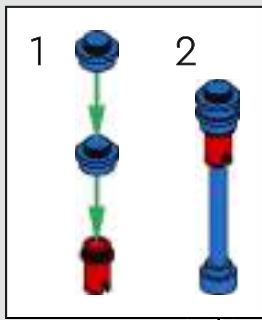
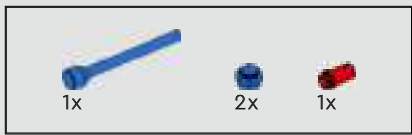
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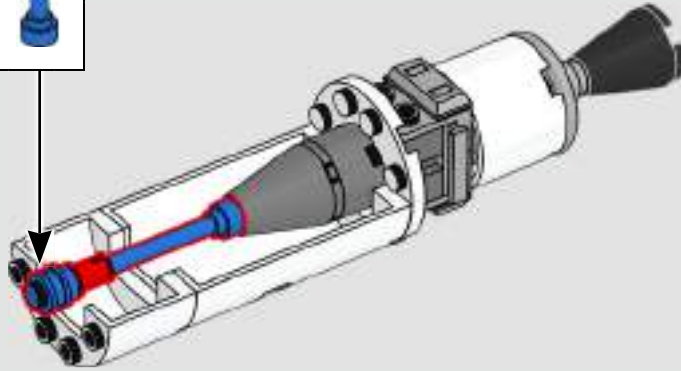
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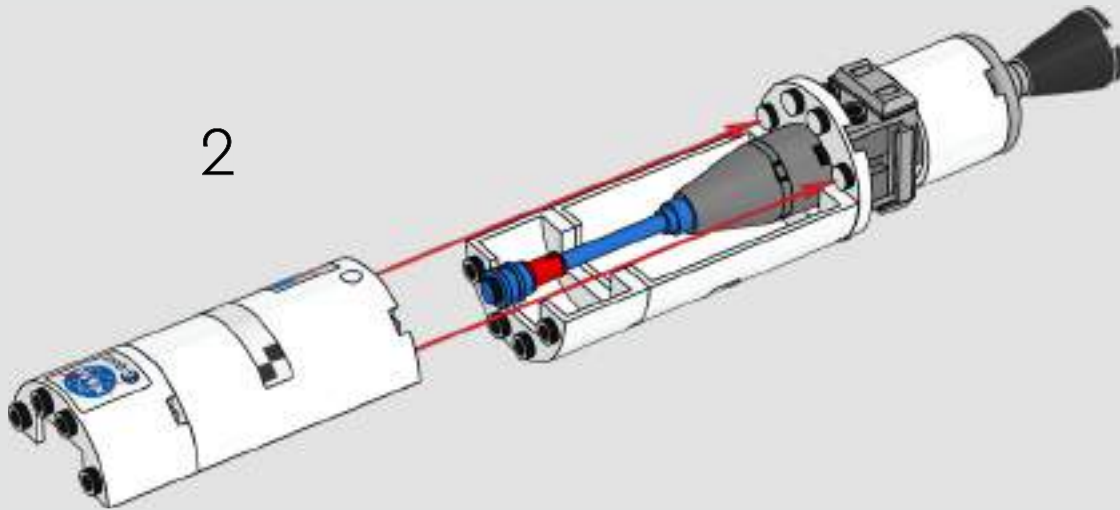


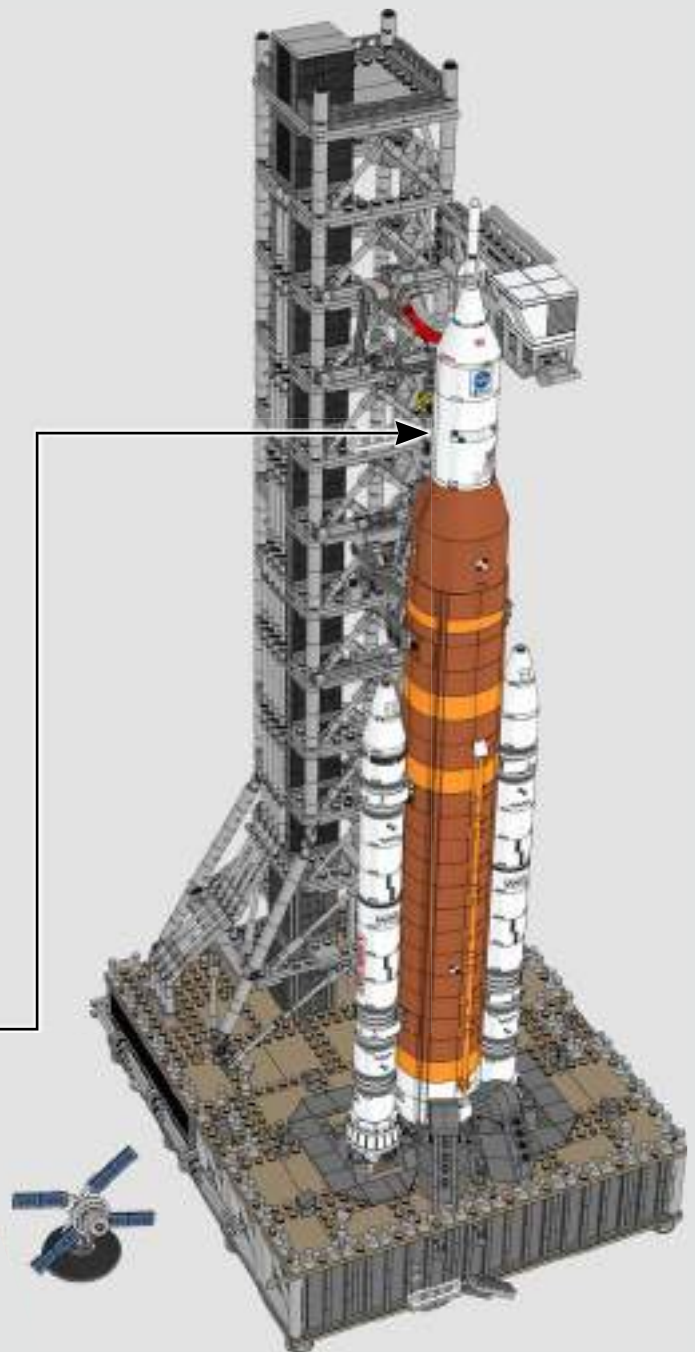
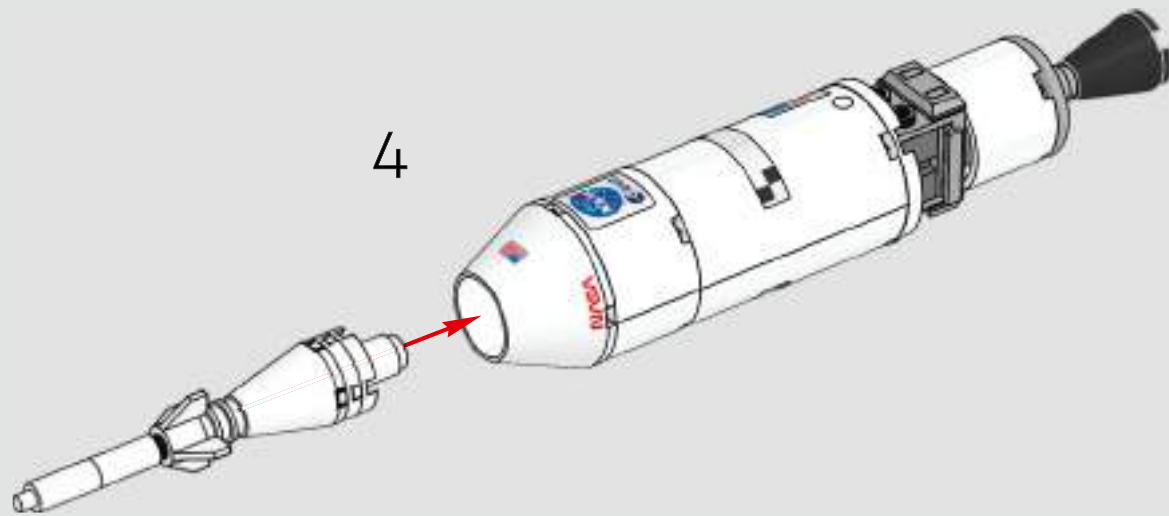
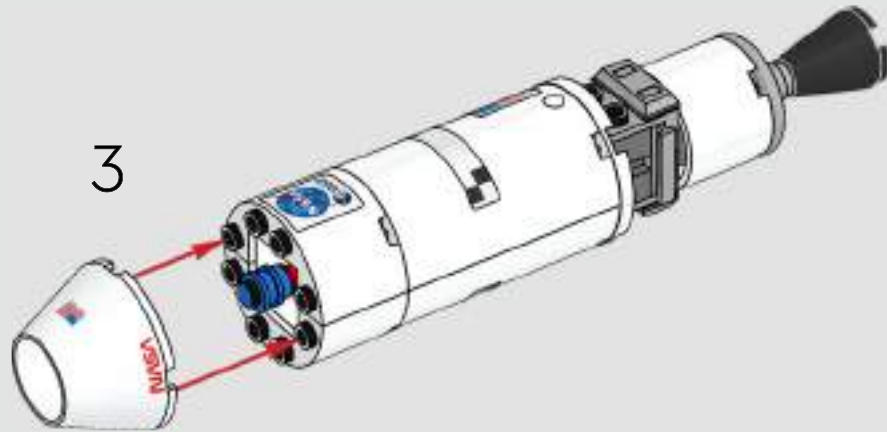


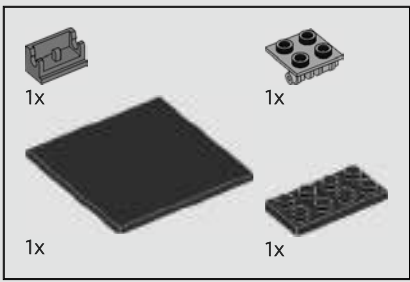
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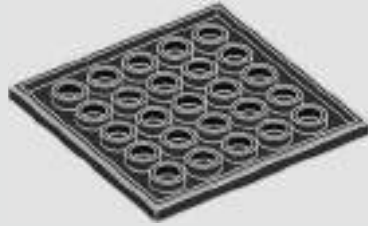
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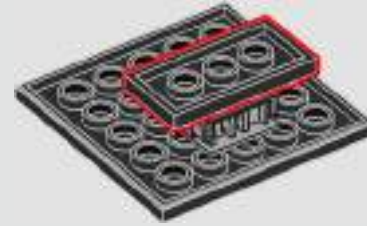
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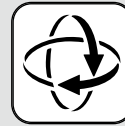
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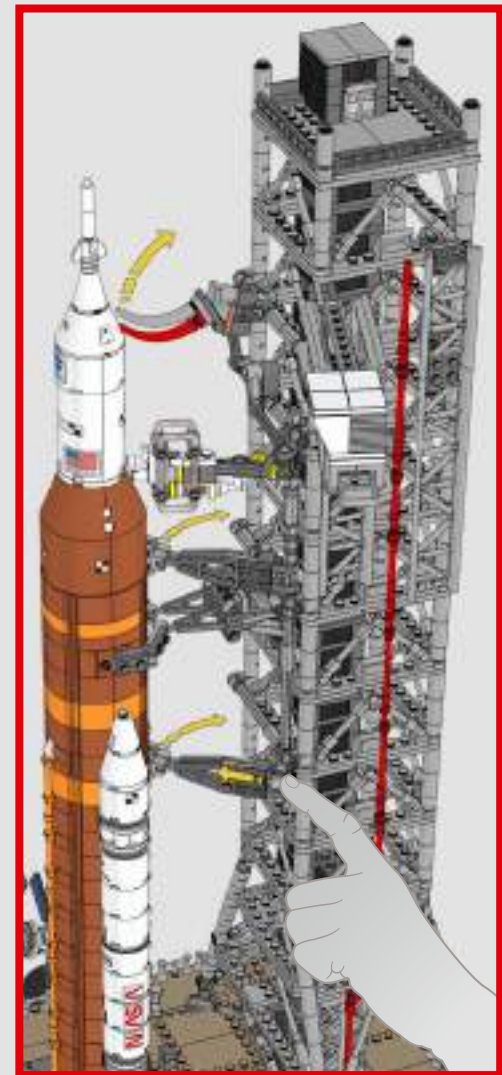
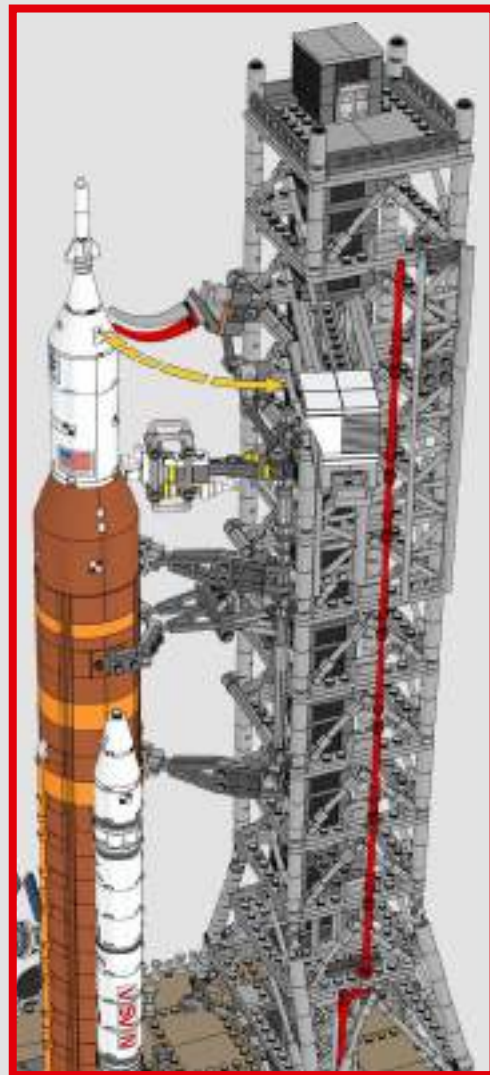


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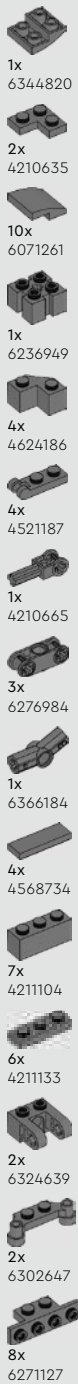
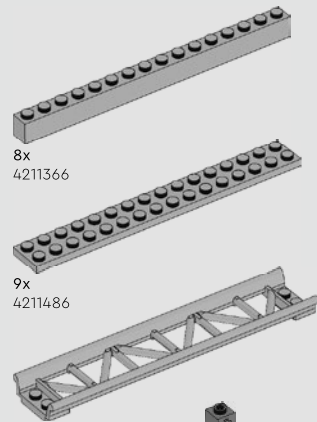
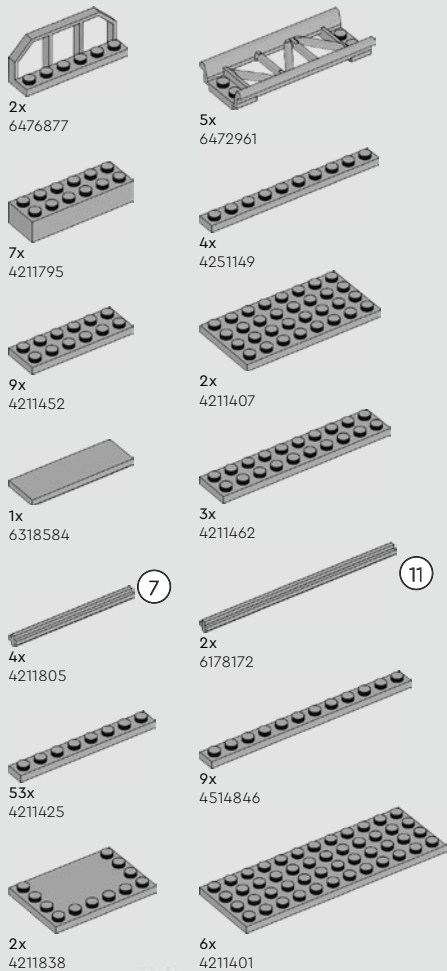


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6353802

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5





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