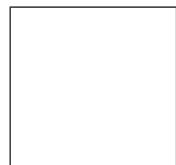
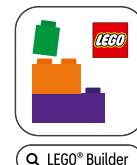




10341



Booklet available in English on  
Heft in deutscher Sprache erhältlich auf  
Livret disponible en français sur  
Libretto disponibile in italiano su  
Folleto en español disponible en  
如需中文版手册, 请访问



LEGO® Builder



[LEGO.com/sustainable-packaging](https://LEGO.com/sustainable-packaging)

FR

DONNEZ  
OU  
RECYCLEZ

 OU  OU 

ASSOCIATION MAGASIN DÉCHETERIE

Adresses sur [quefairedemesdechets.fr](http://quefairedemesdechets.fr)





# BUILDER

Download on the  
App Store

GET IT ON  
Google Play

腾讯应用宝  
安卓应用商店

Apple and the Apple logo are trademarks of Apple Inc., registered in the U.S. and other countries and regions. App Store is a service mark of Apple Inc. Google Play and the Google Play logo are trademarks of Google LLC. Tencent and the Tencent logo are trademarks of Tencent Inc.

Q LEGO.com/devicecheck



Q 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.



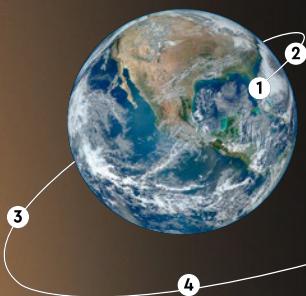
## HISTORY IN THE MAKING

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

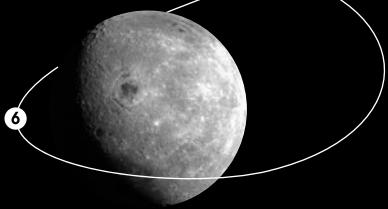
To overcome the pull of Earth's gravity, the NASA SLS produced nearly 4 million kg (8,818,490 lbs.) of thrust.

## 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

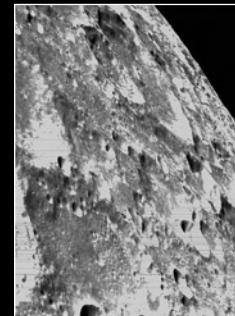
The interim cryogenic propulsion stage separated from Orion. Orion headed to the Moon for its three-week mission, while the CubeSats that deployed from the OSA/ICPS continued on a similar path to study the Moon and deep space.

#### 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.



FIRST MISSION  
(UNCREWED FLIGHT TEST)



FIRST CREWED FLIGHT TEST



CREWED LANDING AND  
SURFACE EXPEDITION



FIRST LUNAR SPACE STATION  
ASSEMBLY MISSION



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

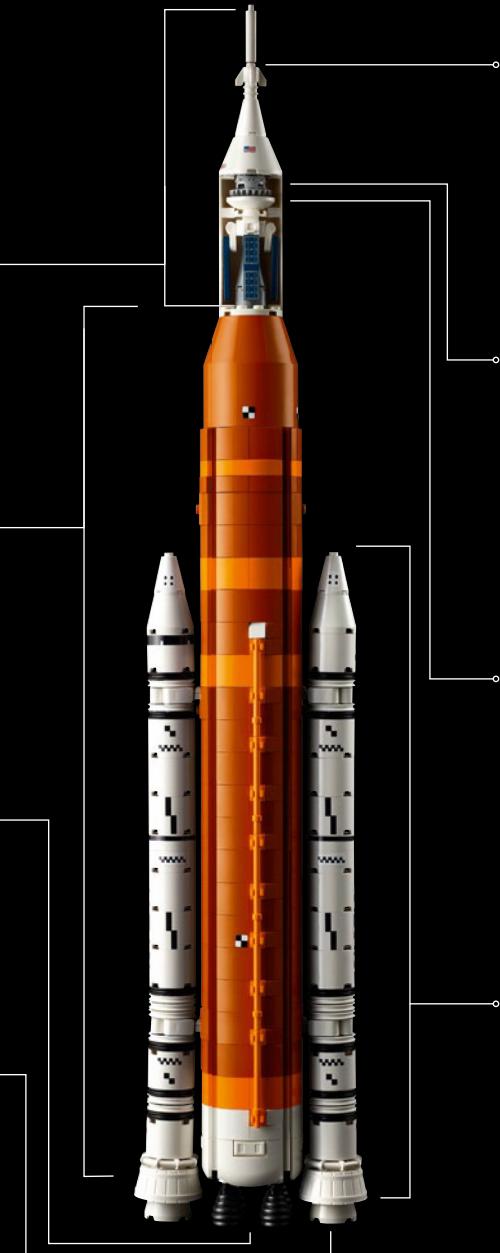
The SLS core stage is the tallest rocket stage NASA has ever built. At approximately 64.6 m (211.9 ft.) tall and 8.4 m (27.5 ft.) in diameter, its fully fuelled weight, excluding engines, is 1,088 metric tons (2.4 million pounds)!

### 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

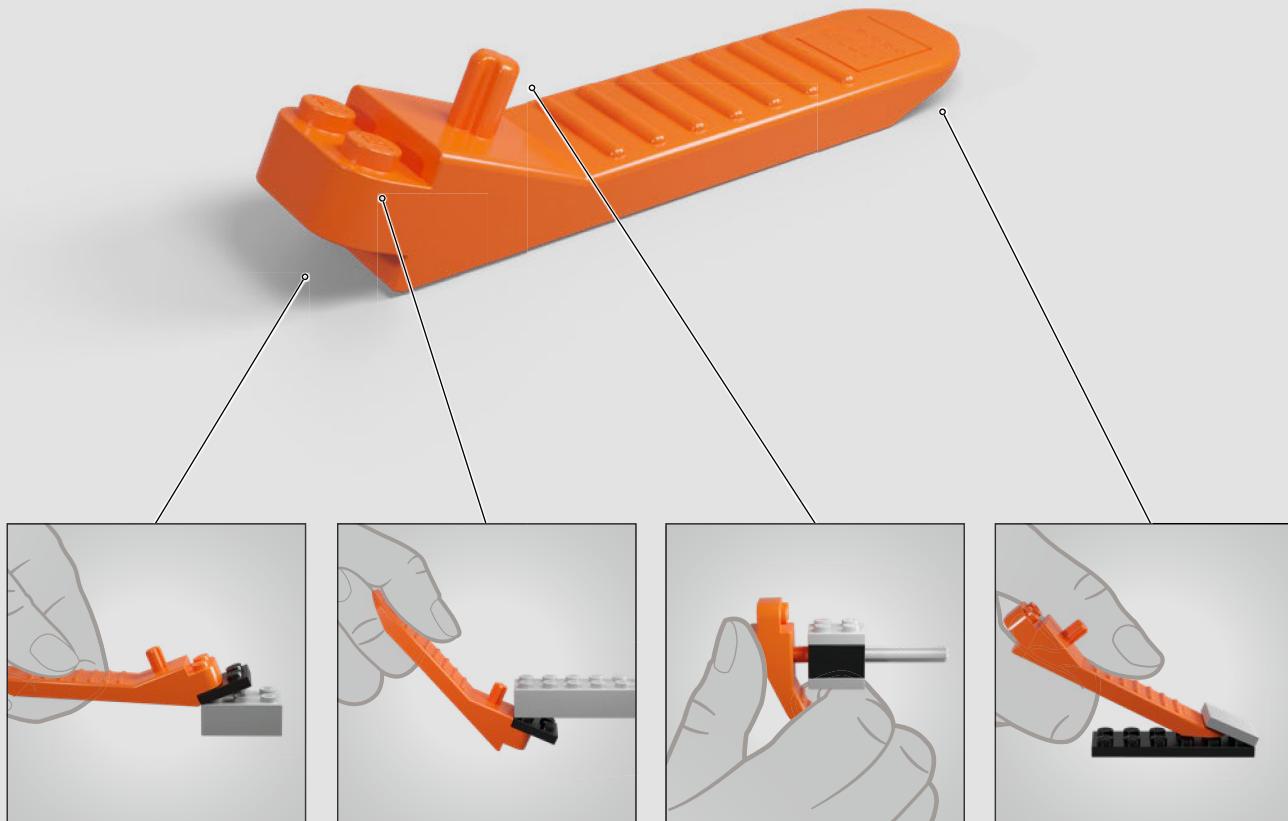
The Orion crew module will serve as the habitat for the crew while travelling to the Moon, and provide astronauts with food, water, oxygen and protection from hazards like space radiation.

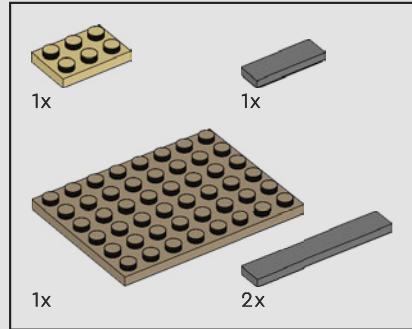
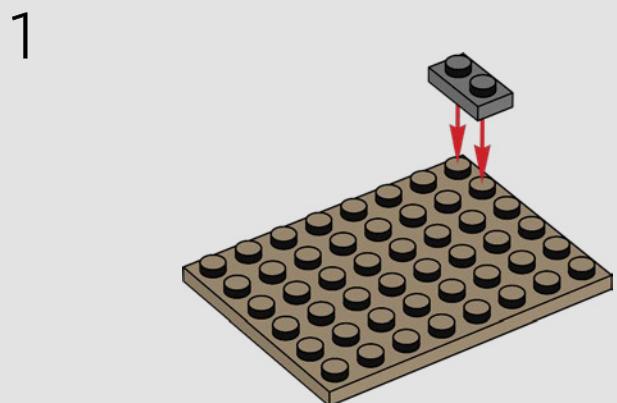
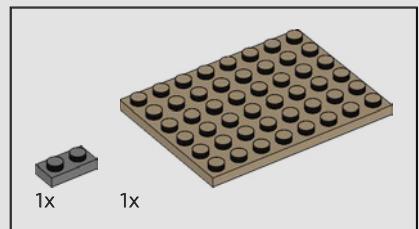
### SERVICE MODULE

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.

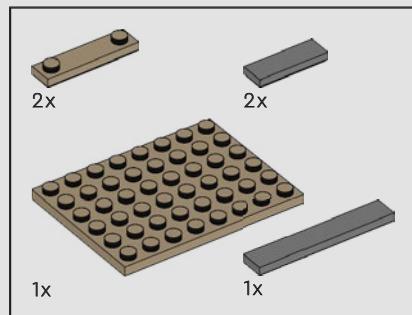
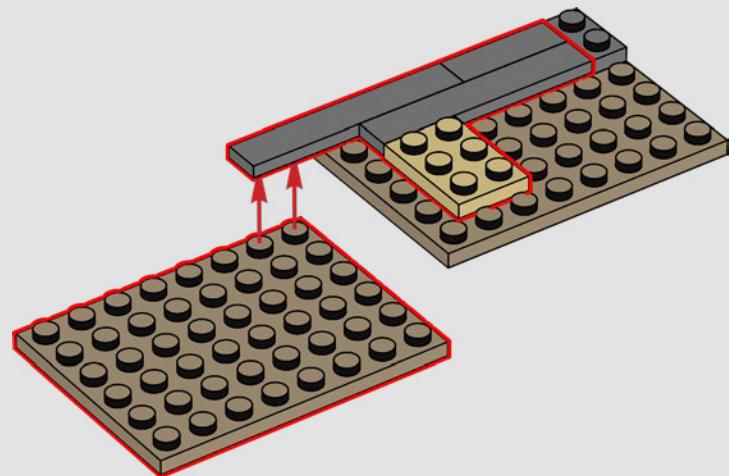
### SOLID ROCKET BOOSTERS

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)!

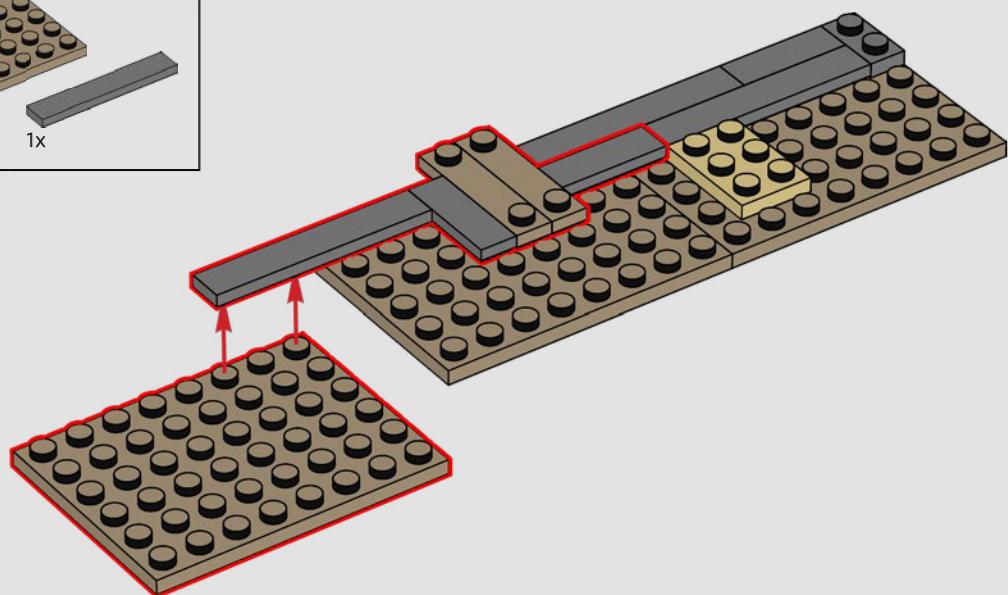


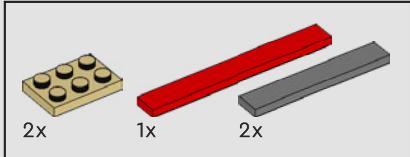


2

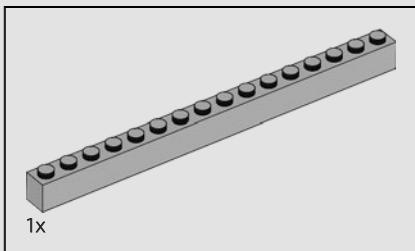
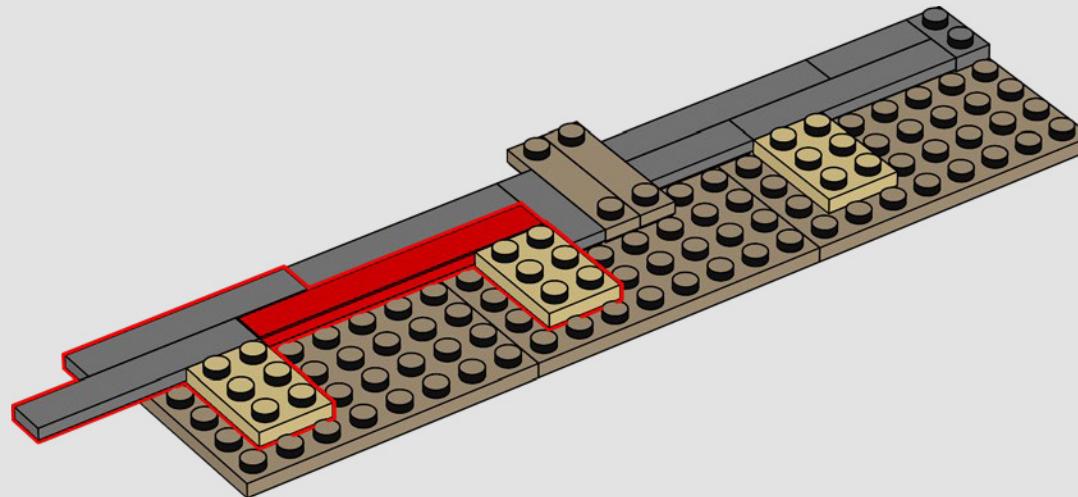


3

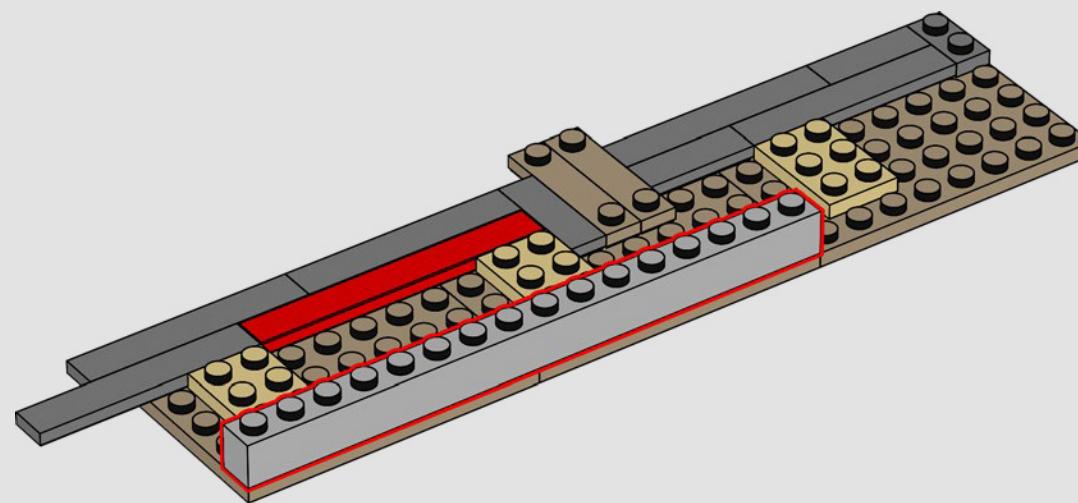




4

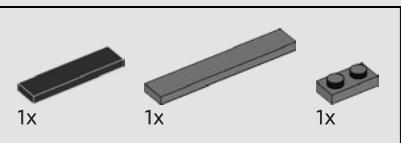
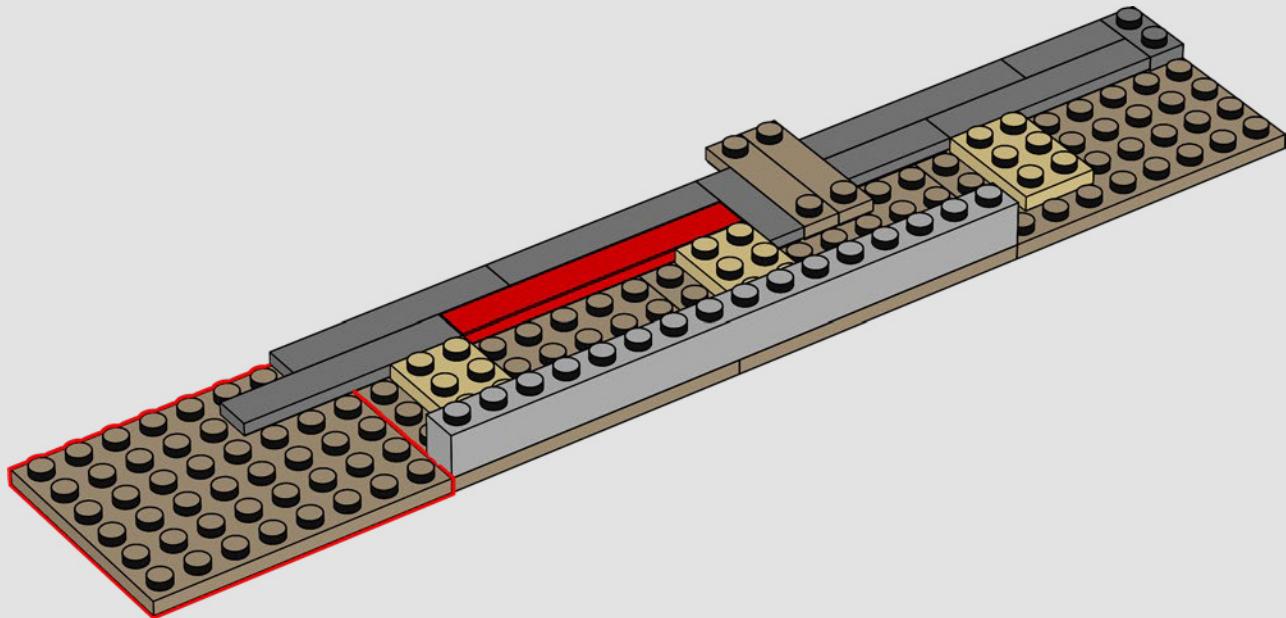


5

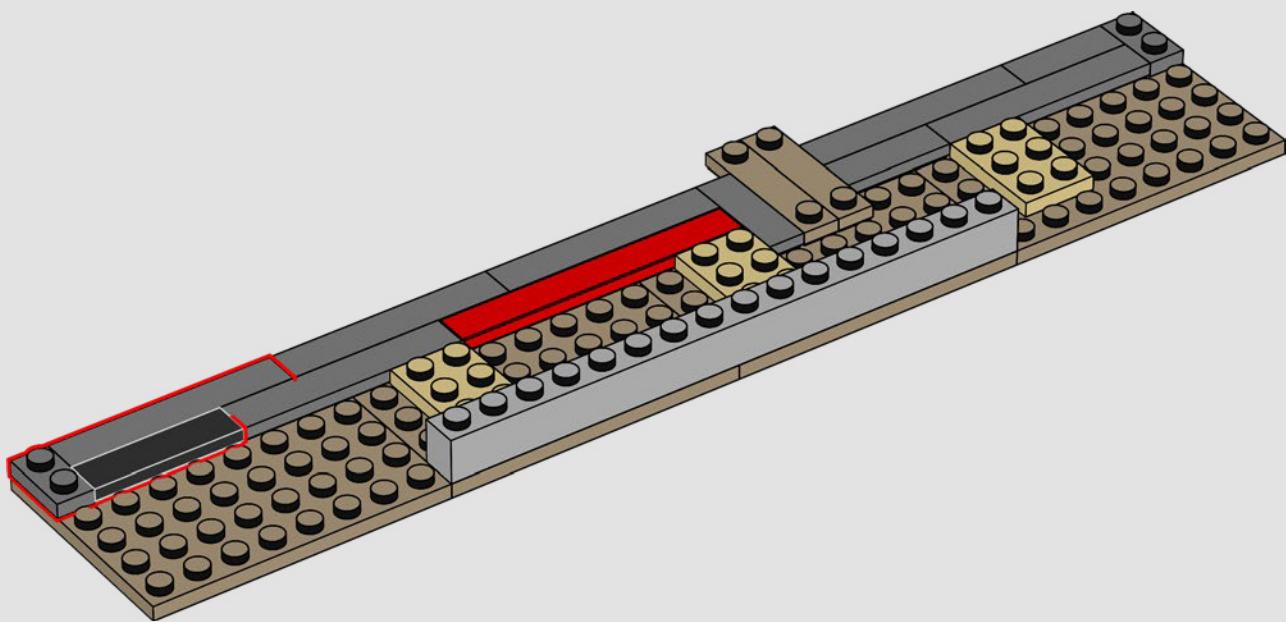


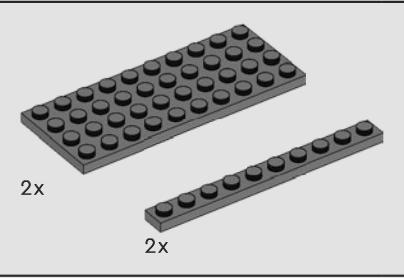


6

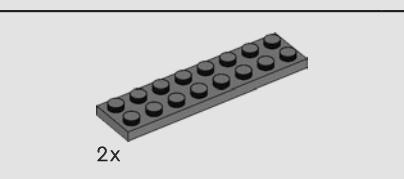
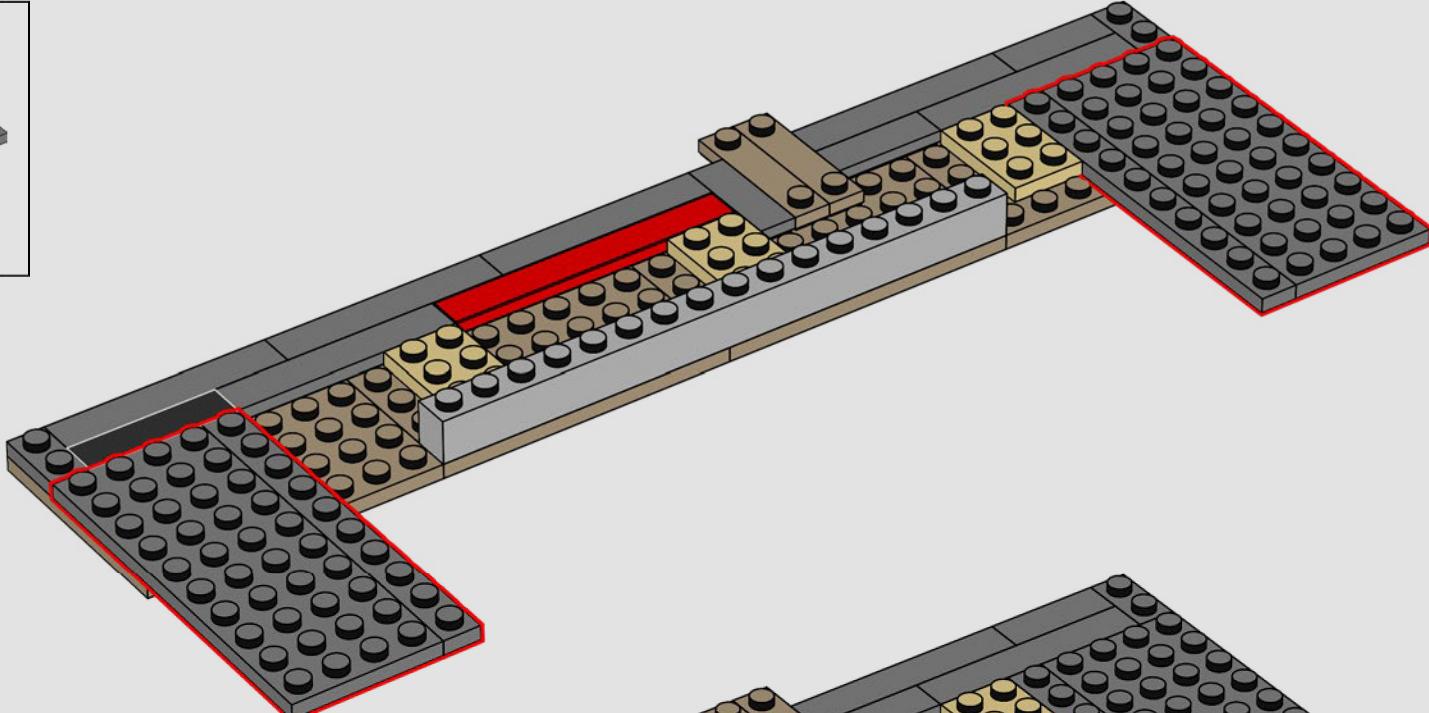


7

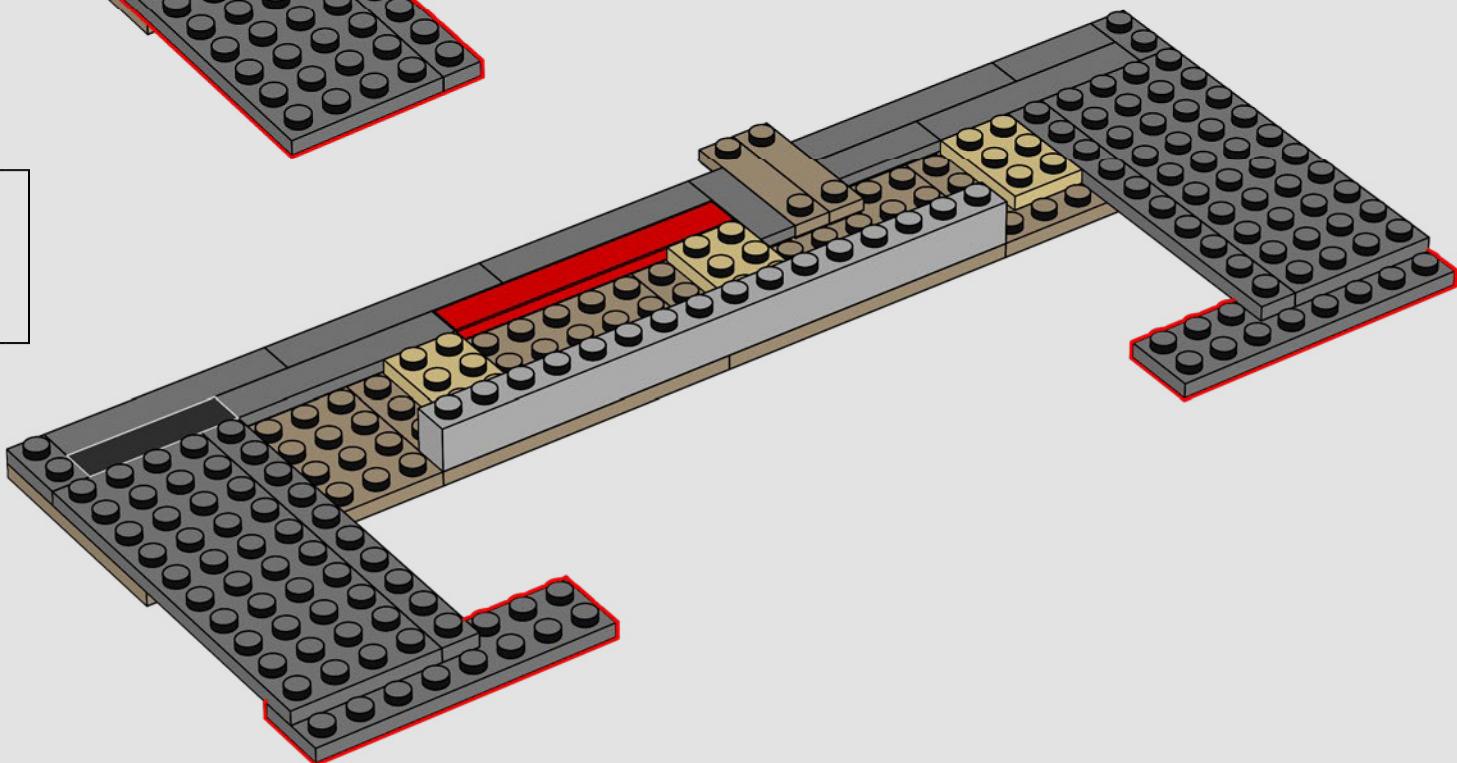


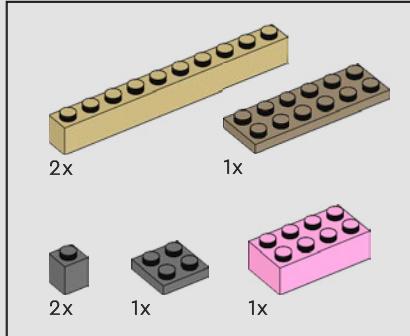


8

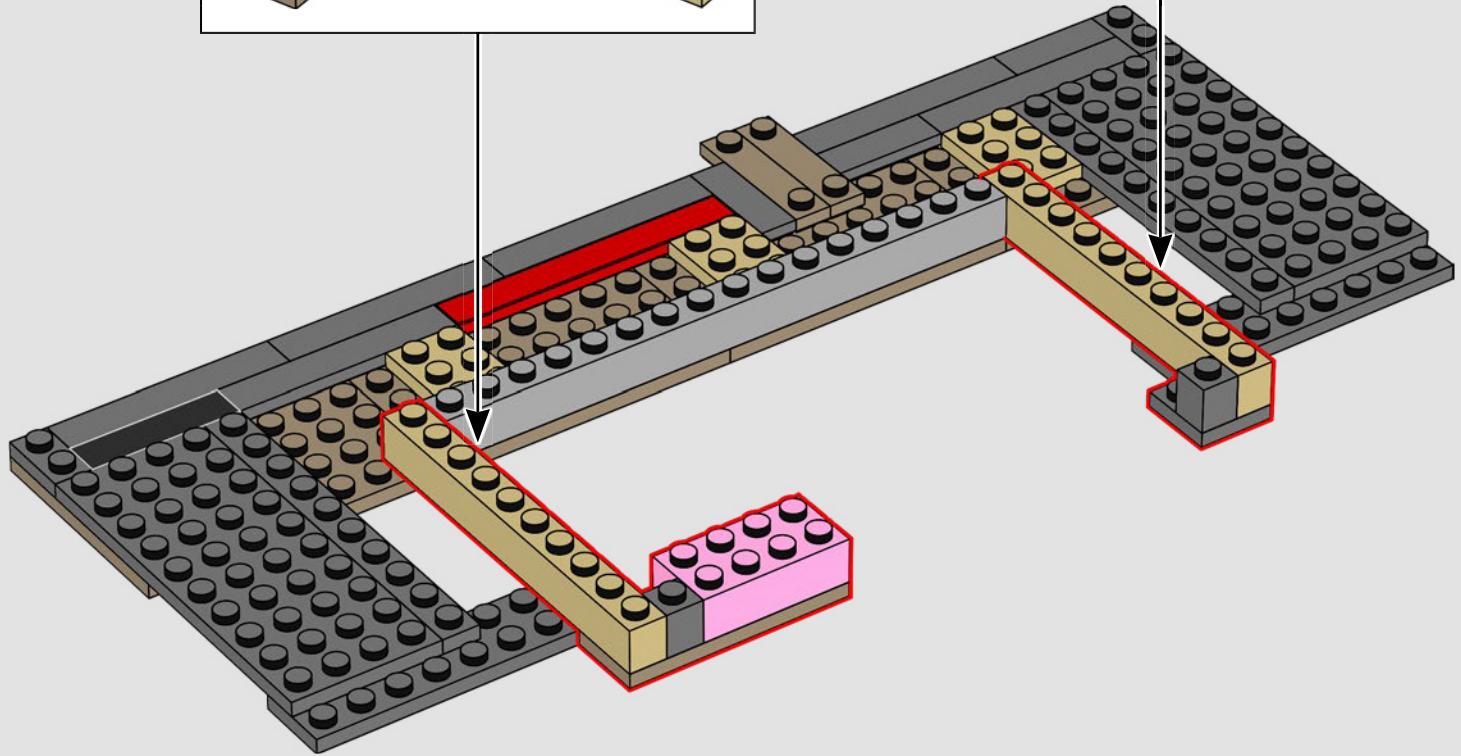
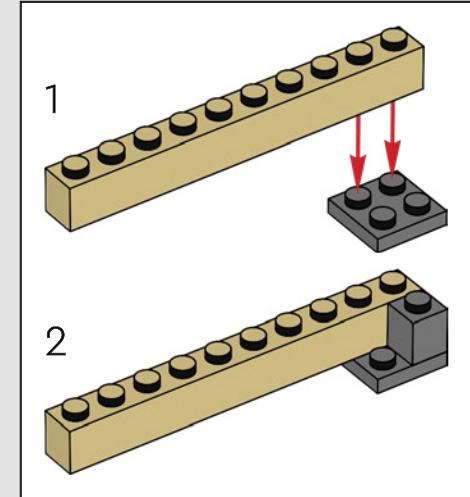
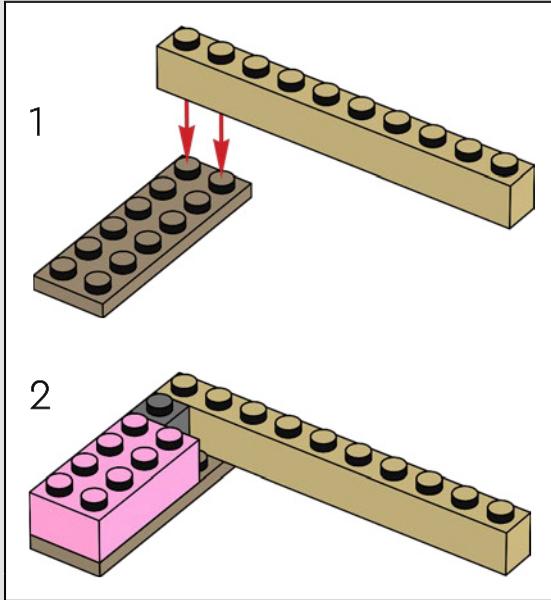


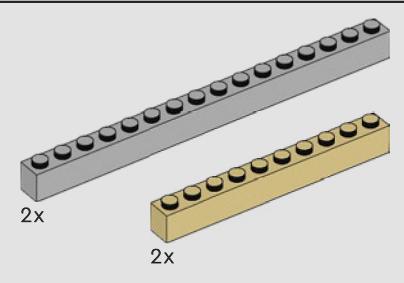
9



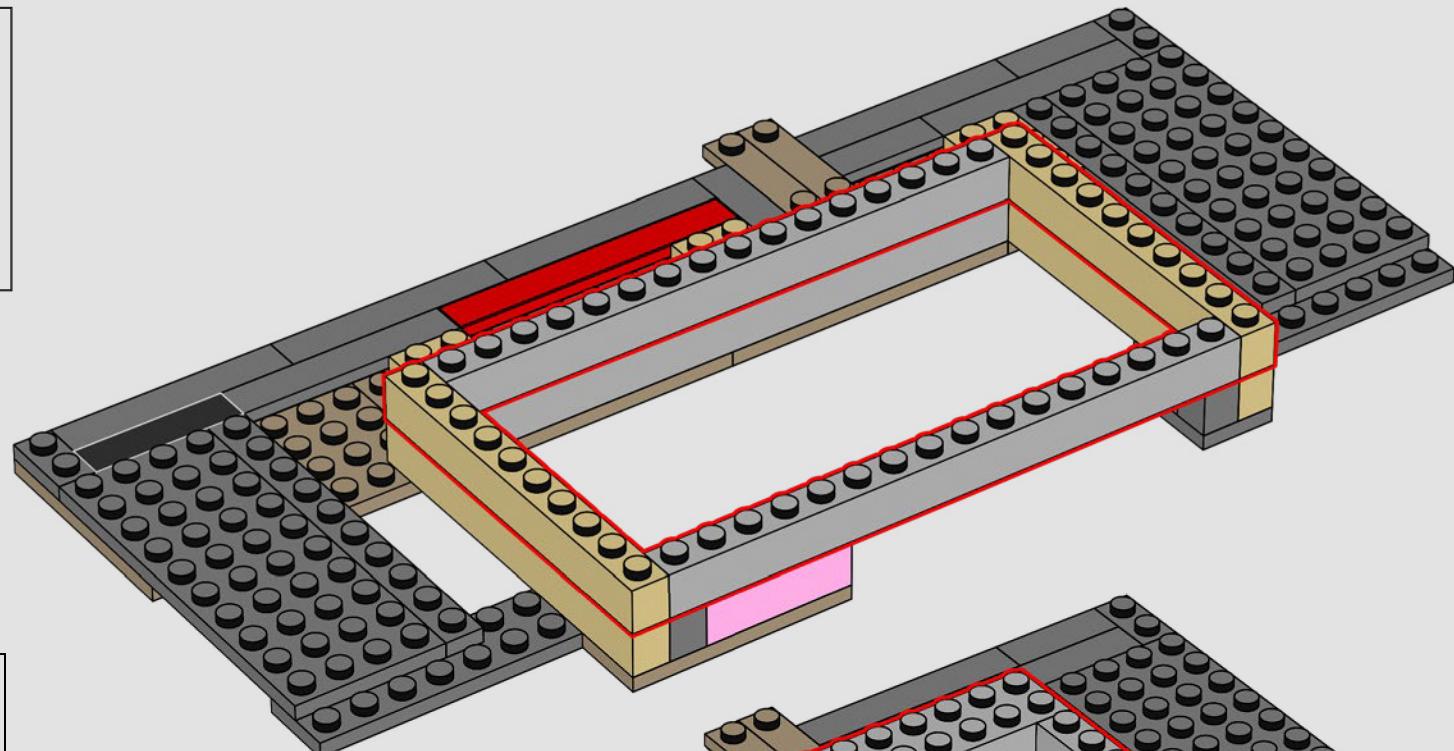


10

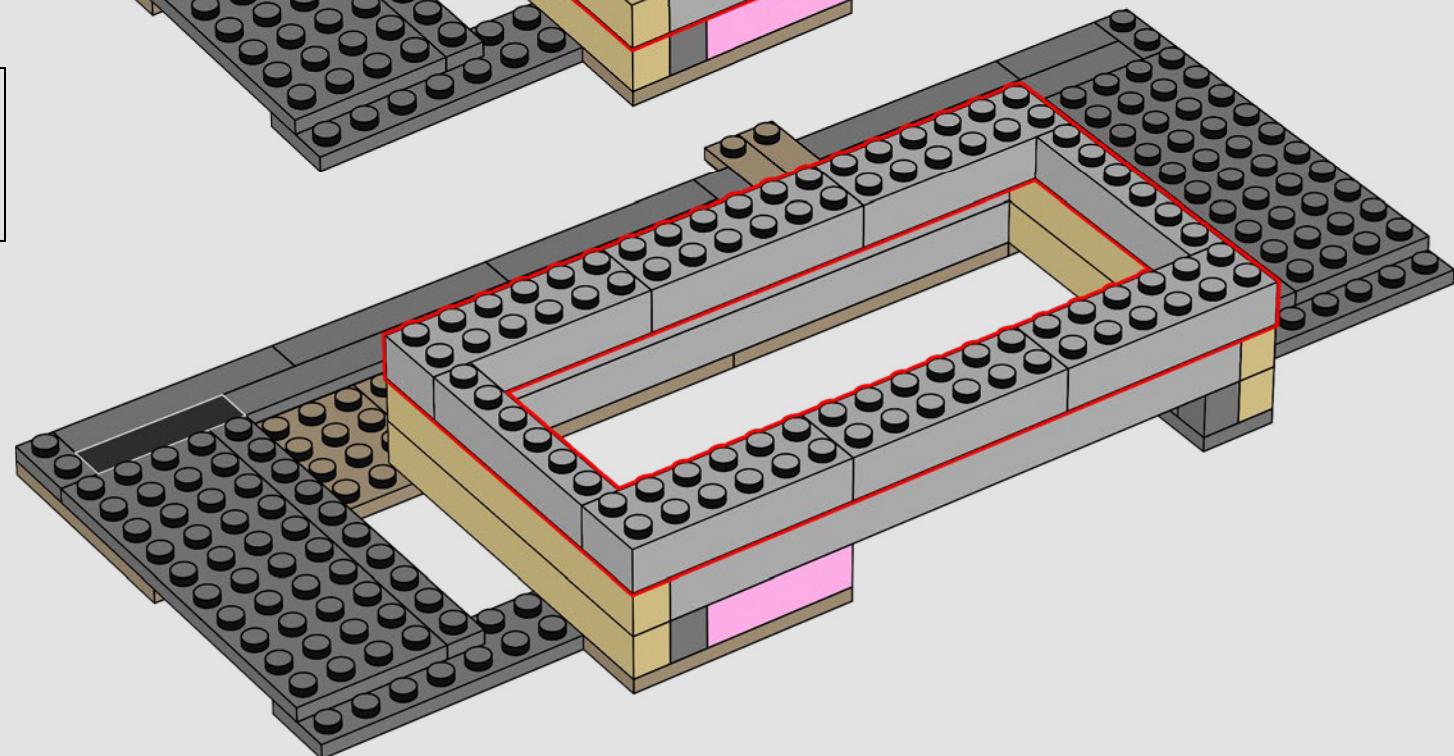


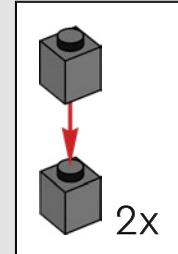
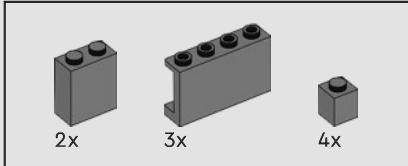


11

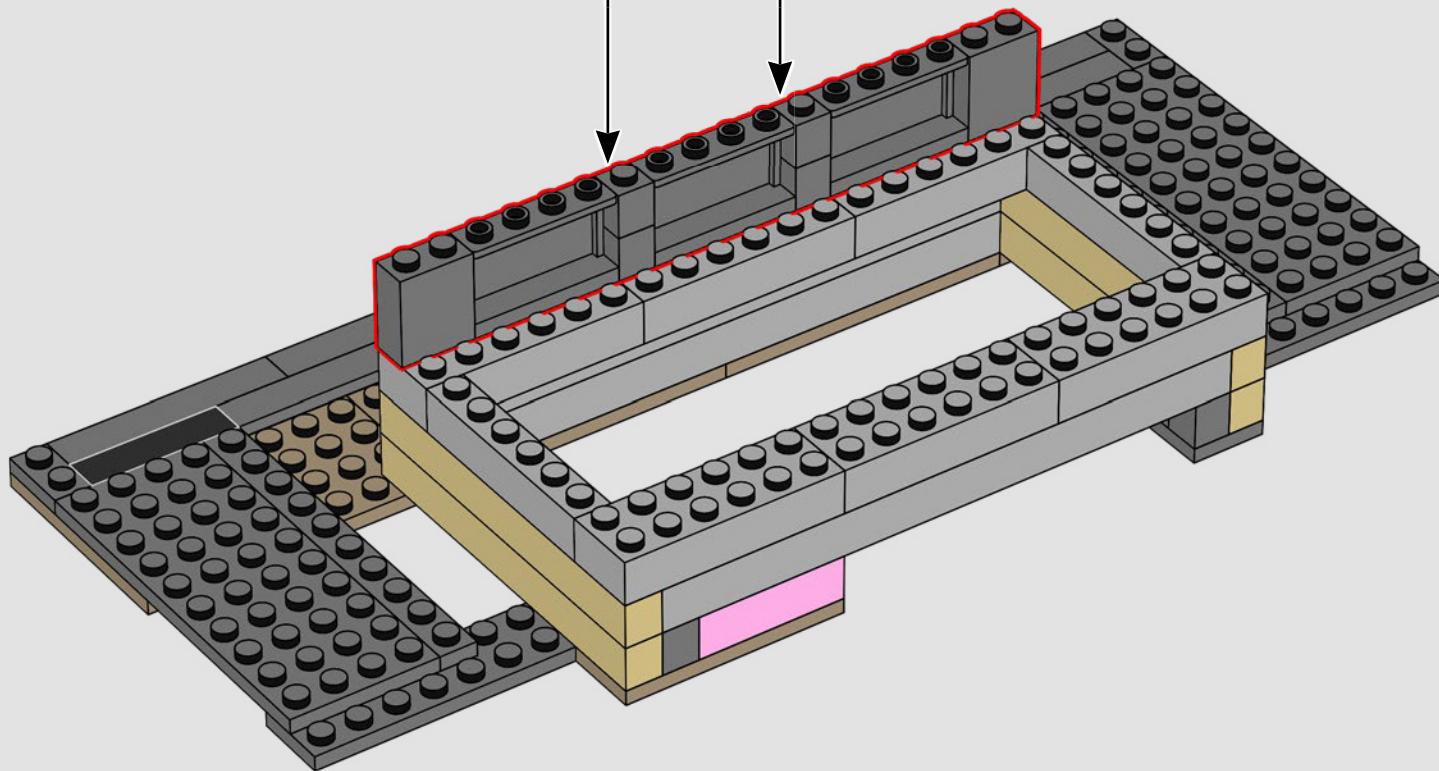


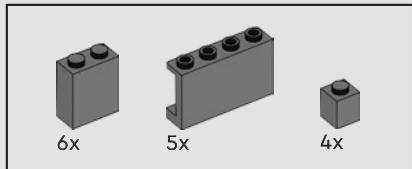
12



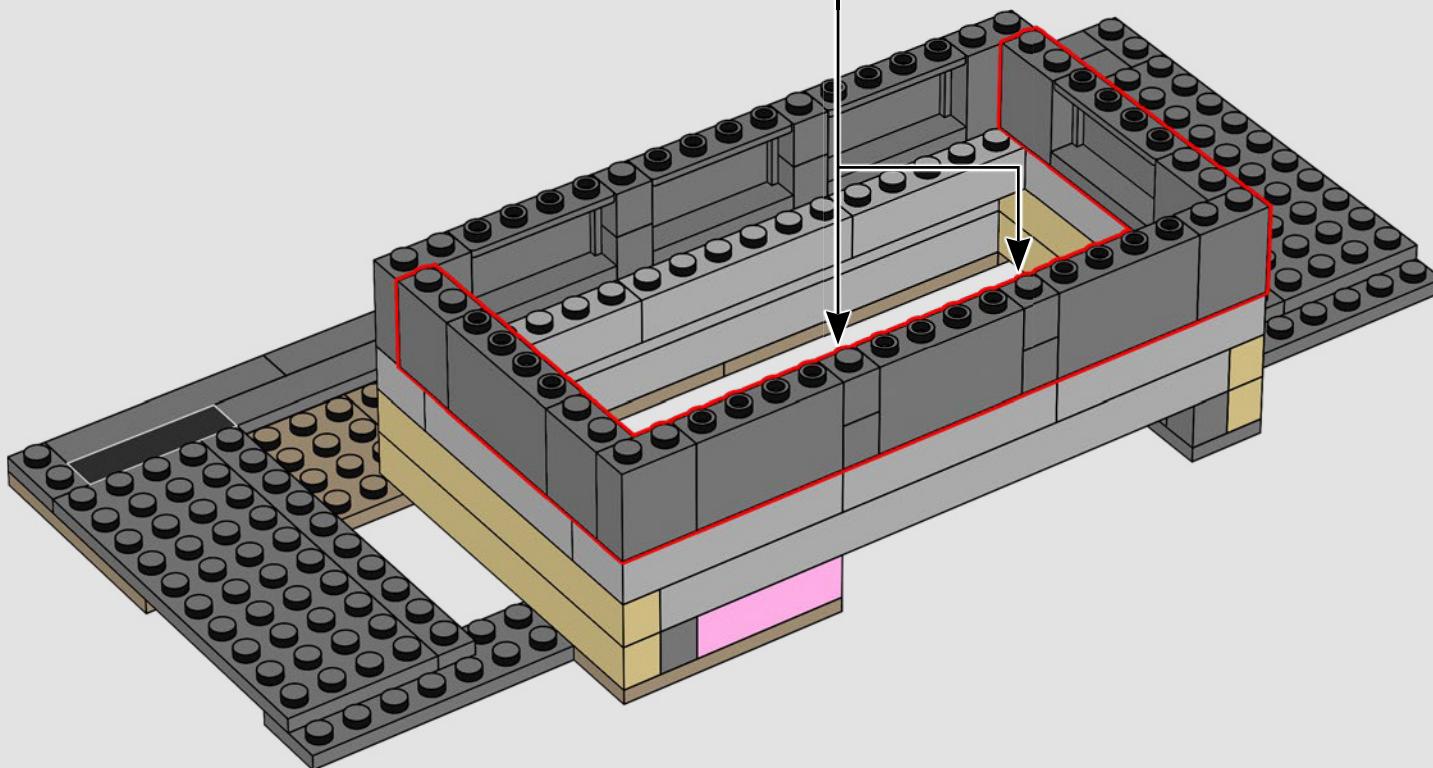
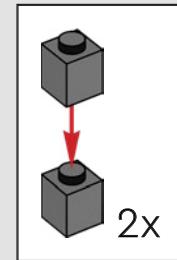


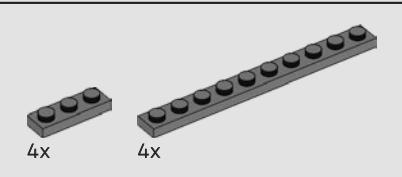
13



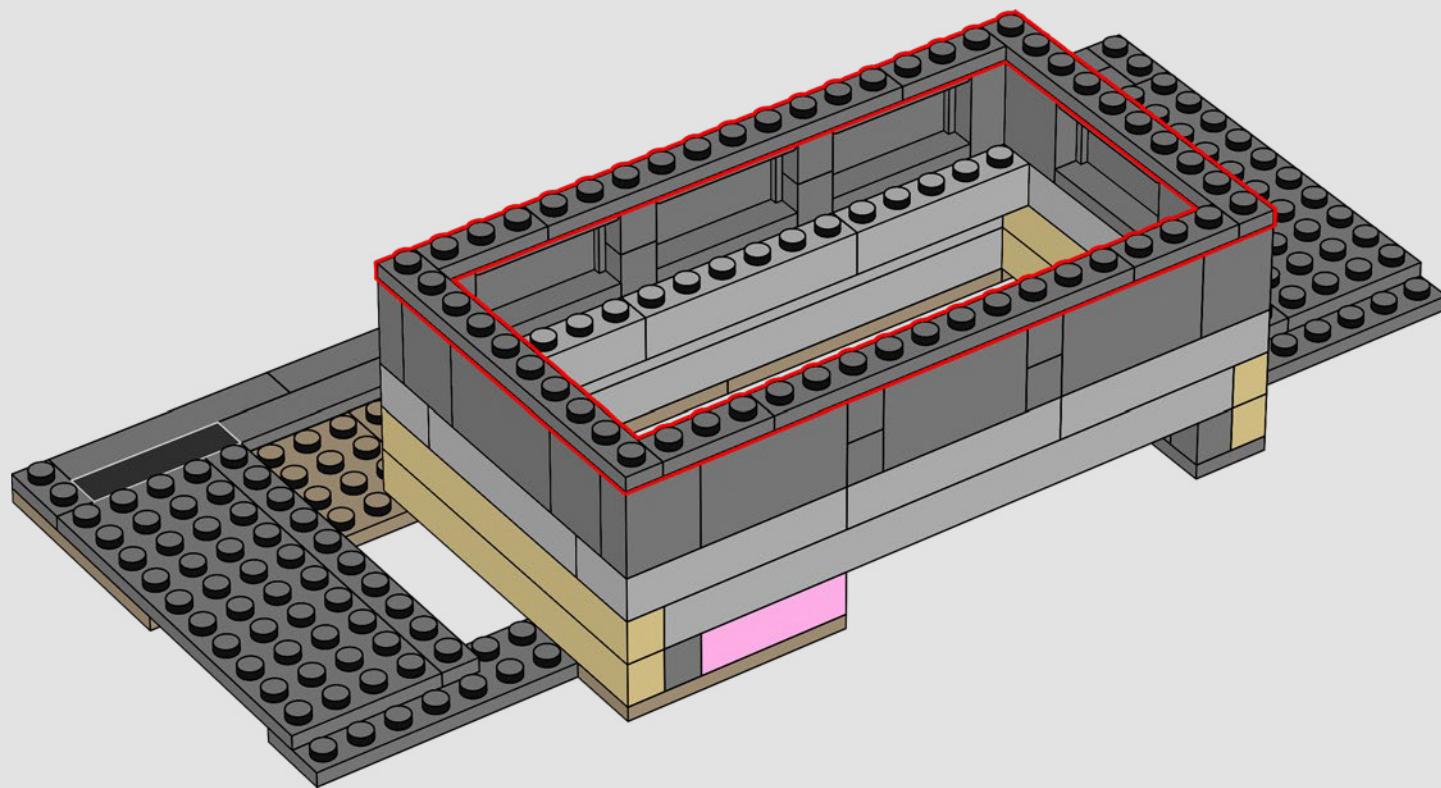


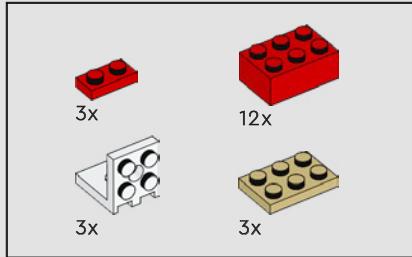
14



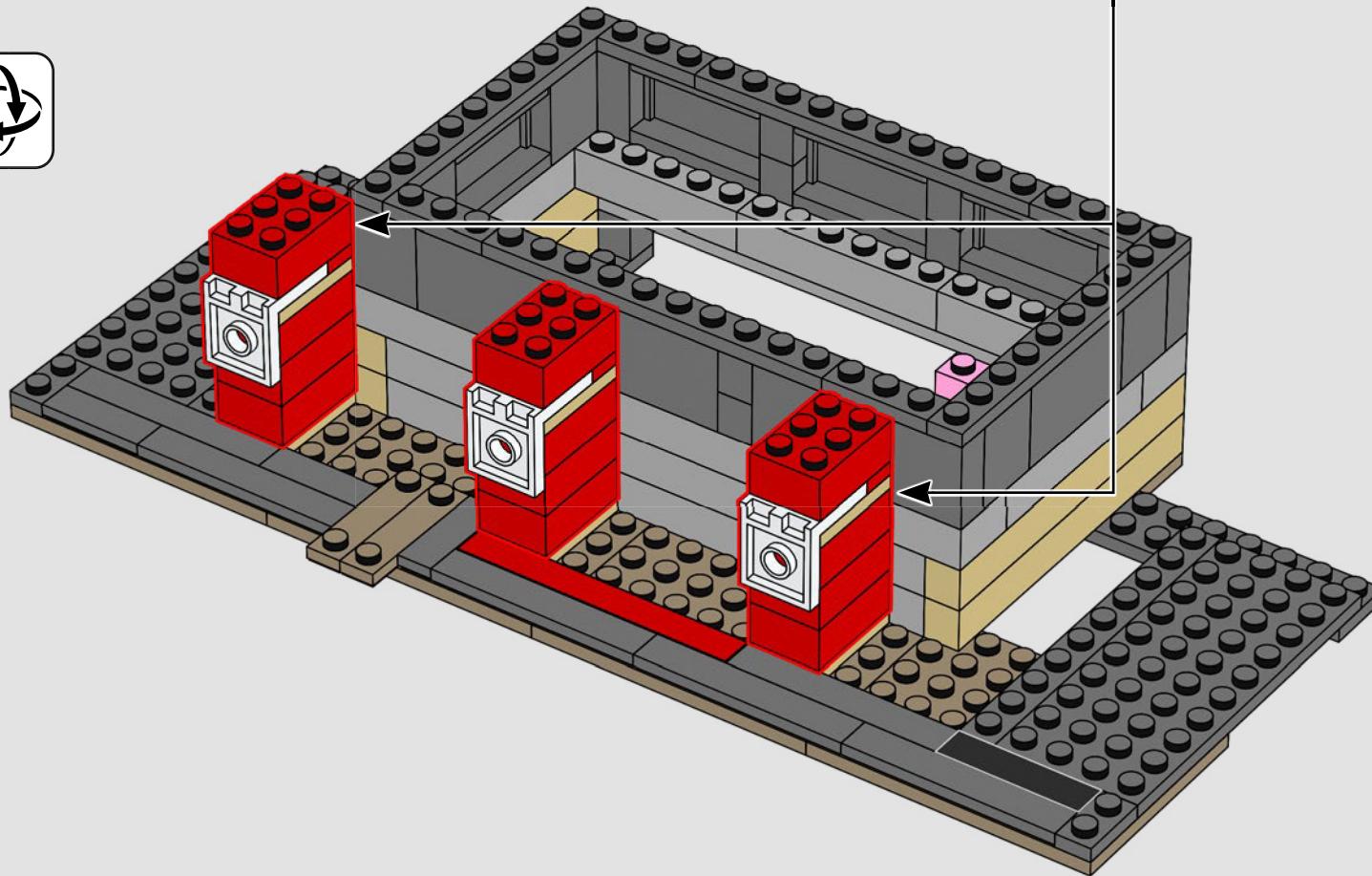
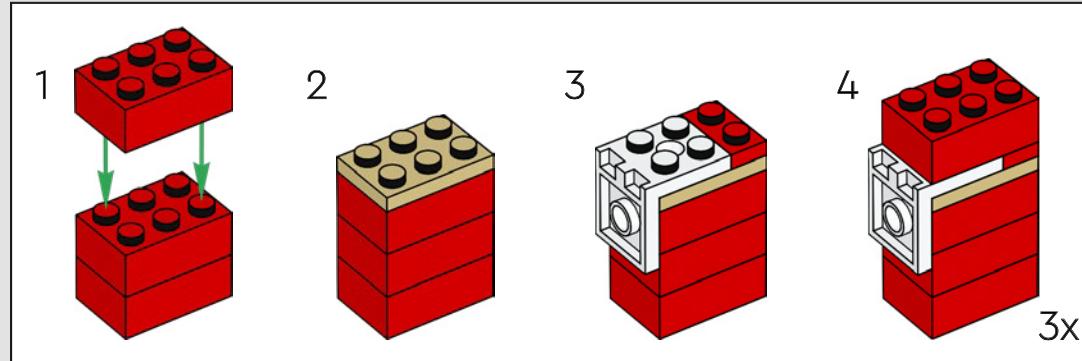


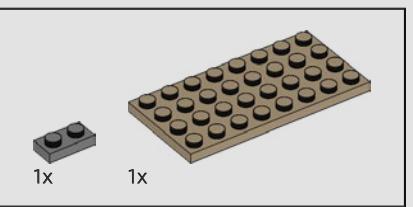
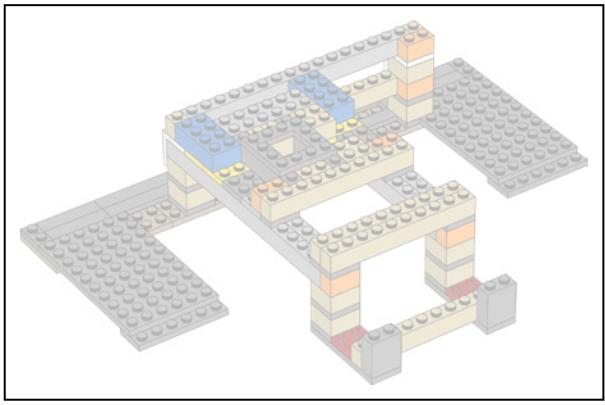
15



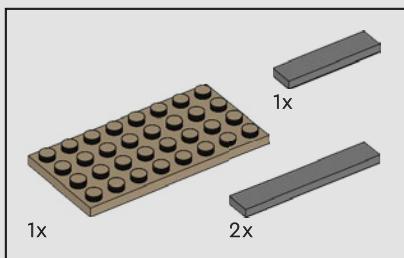


16

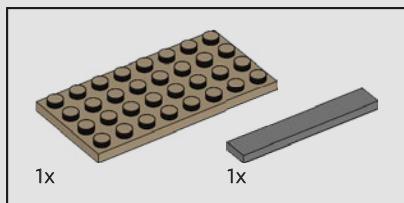
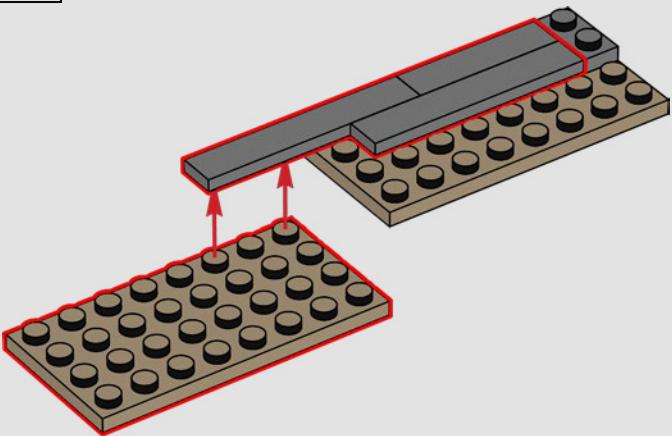




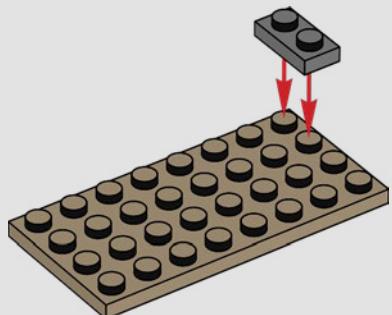
17

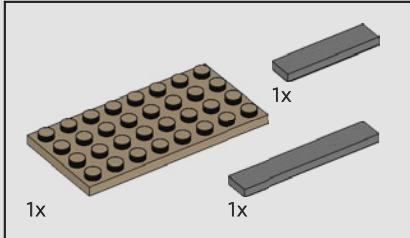


18

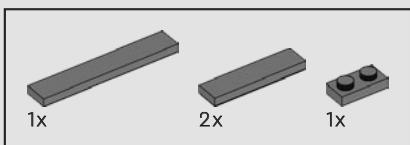
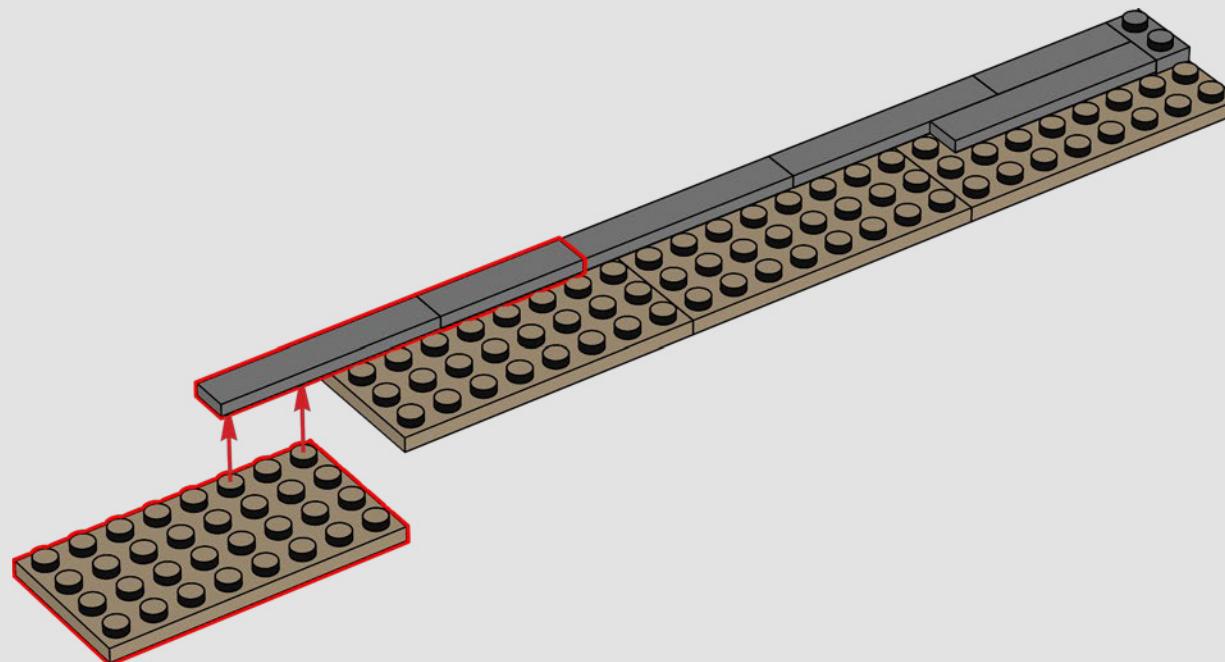


19

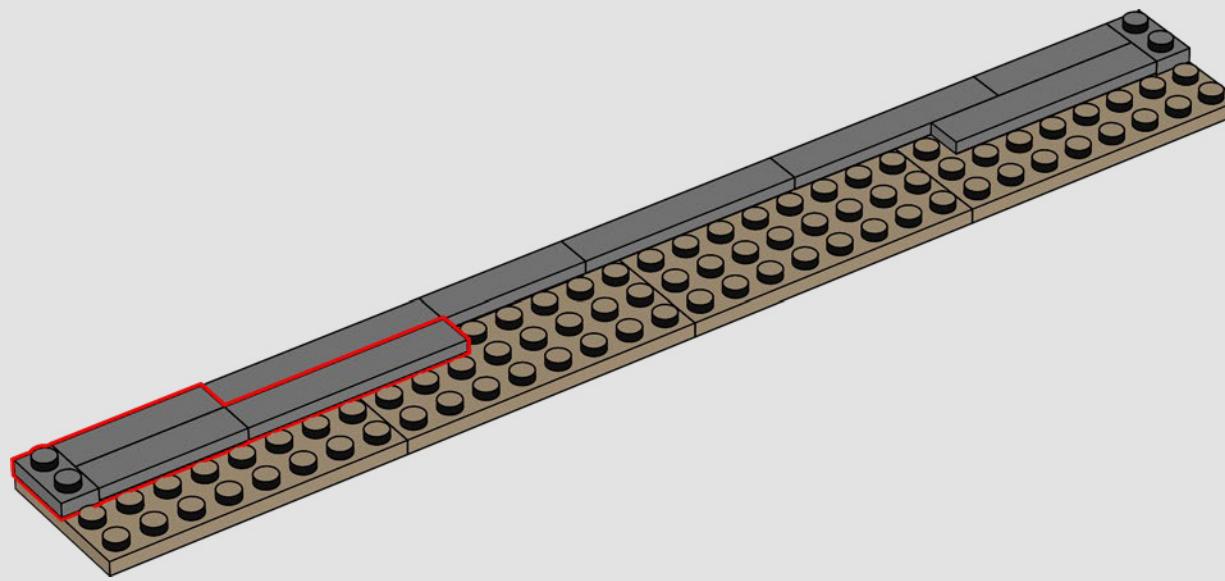


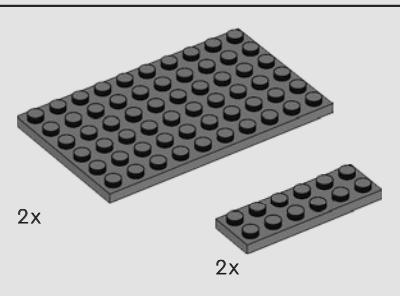


20

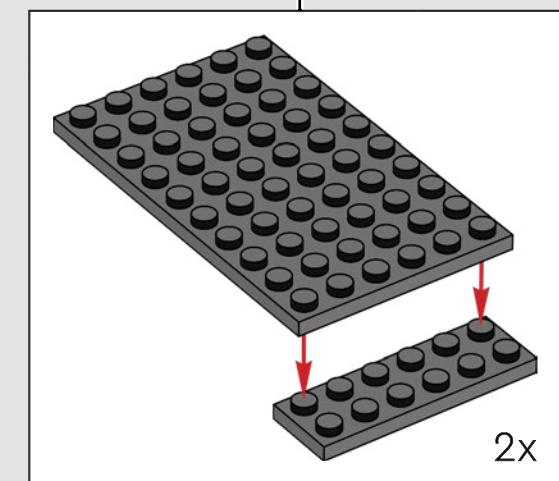
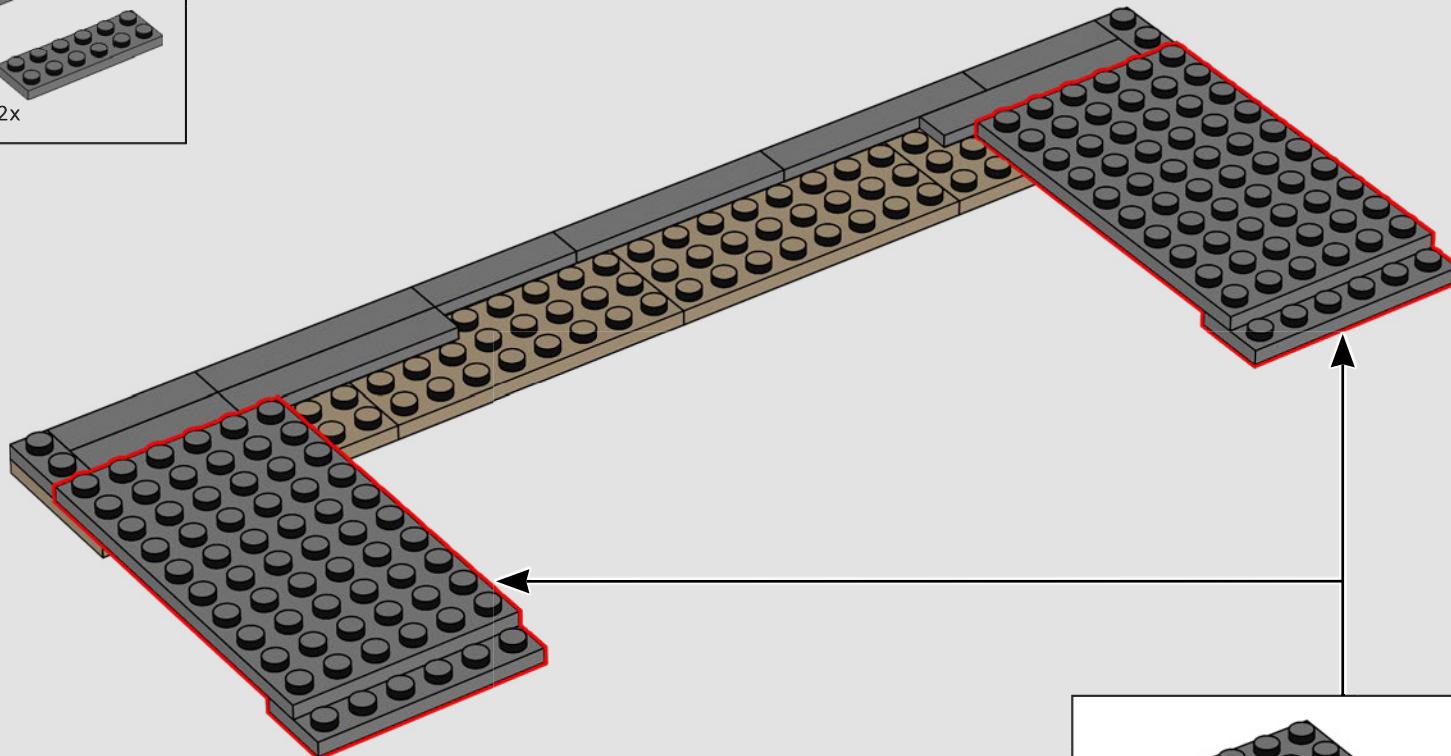


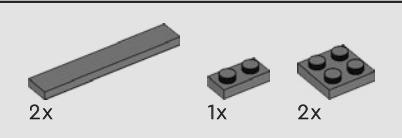
21



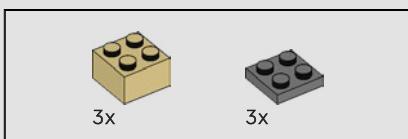
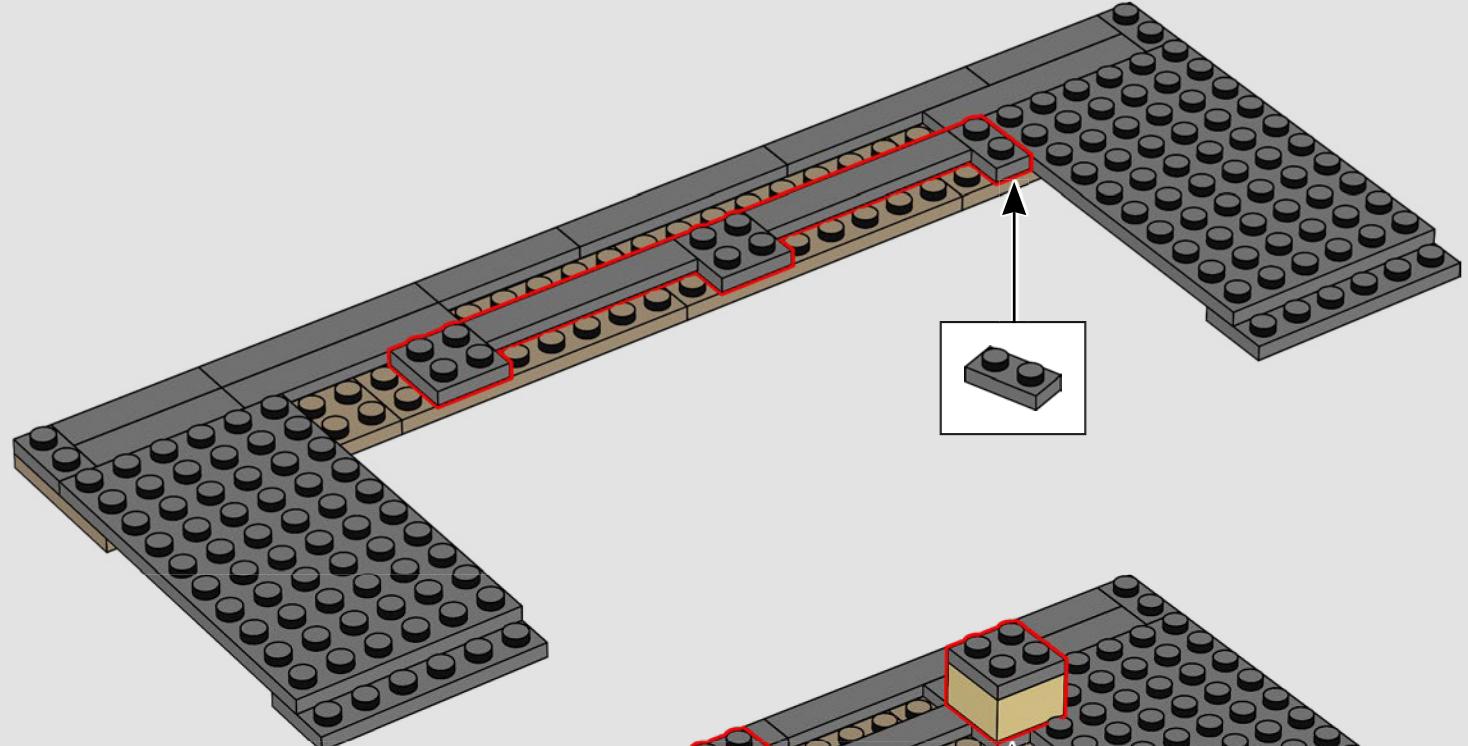


22

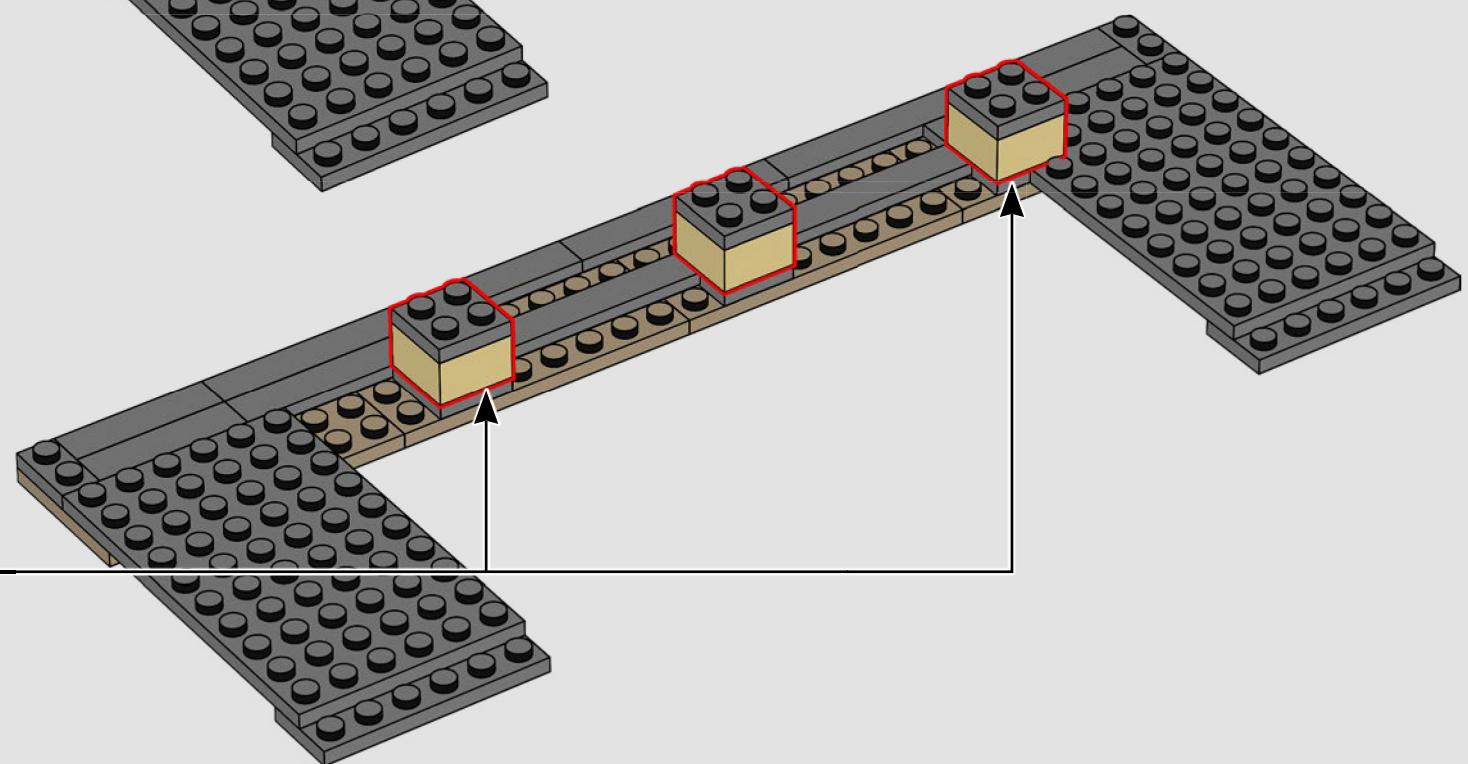


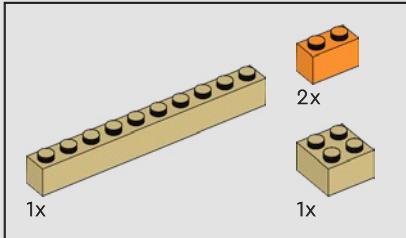


23

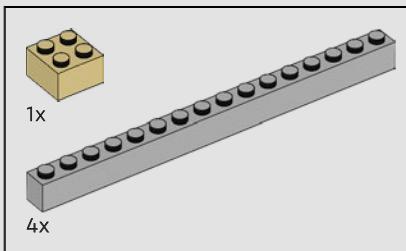
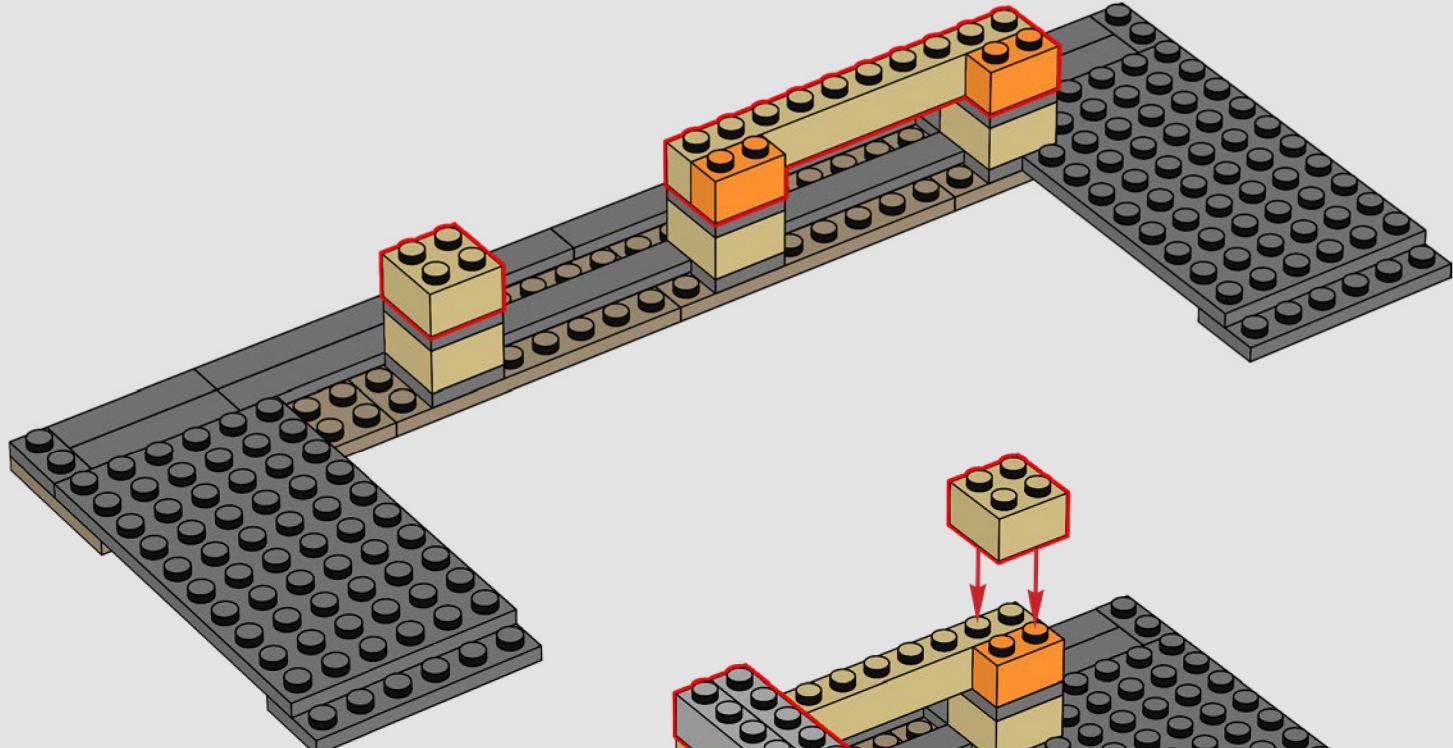


24

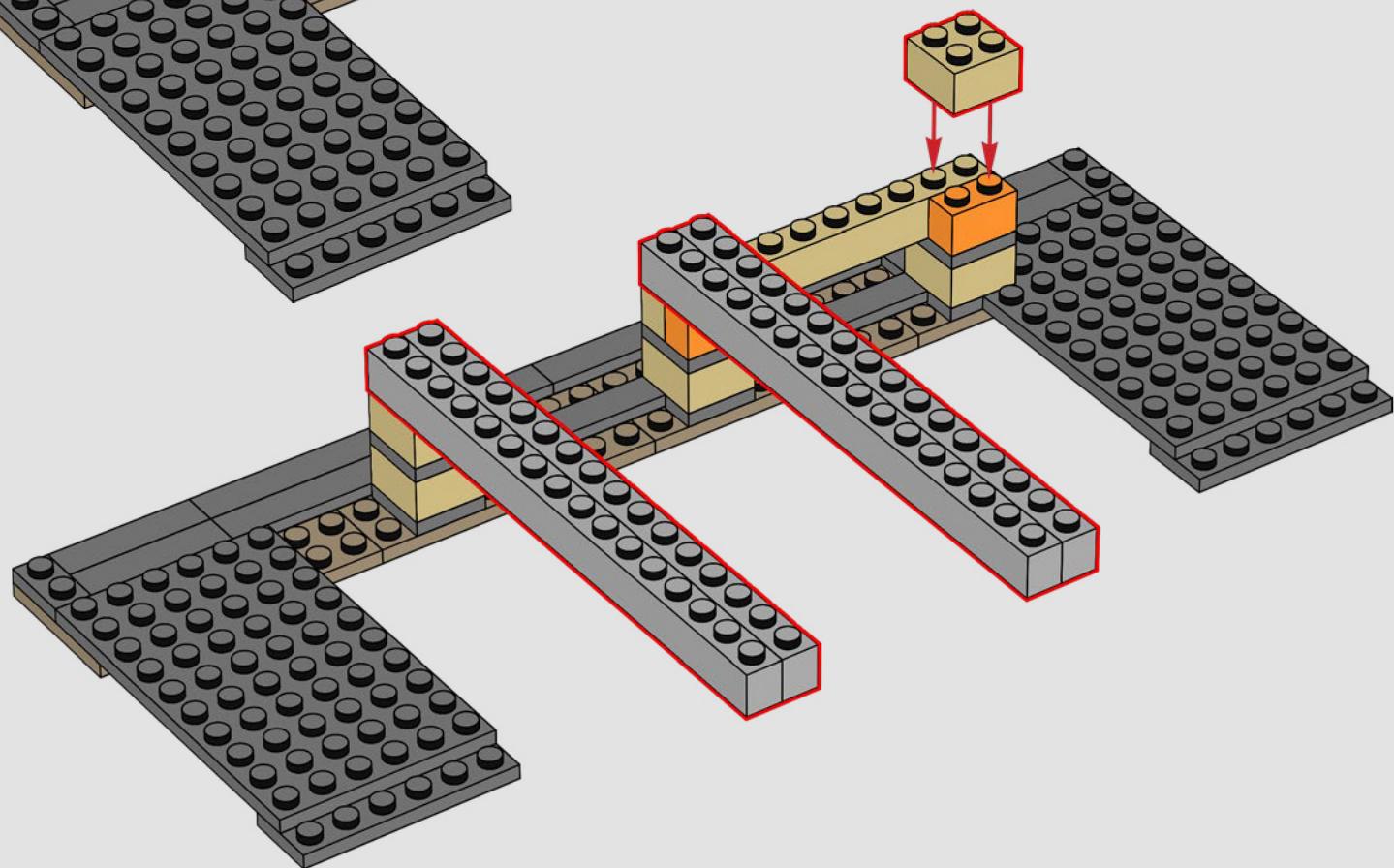


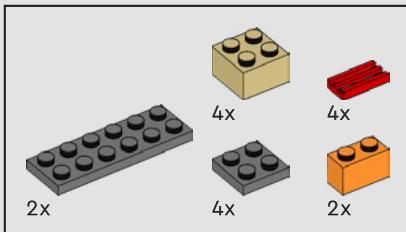


25

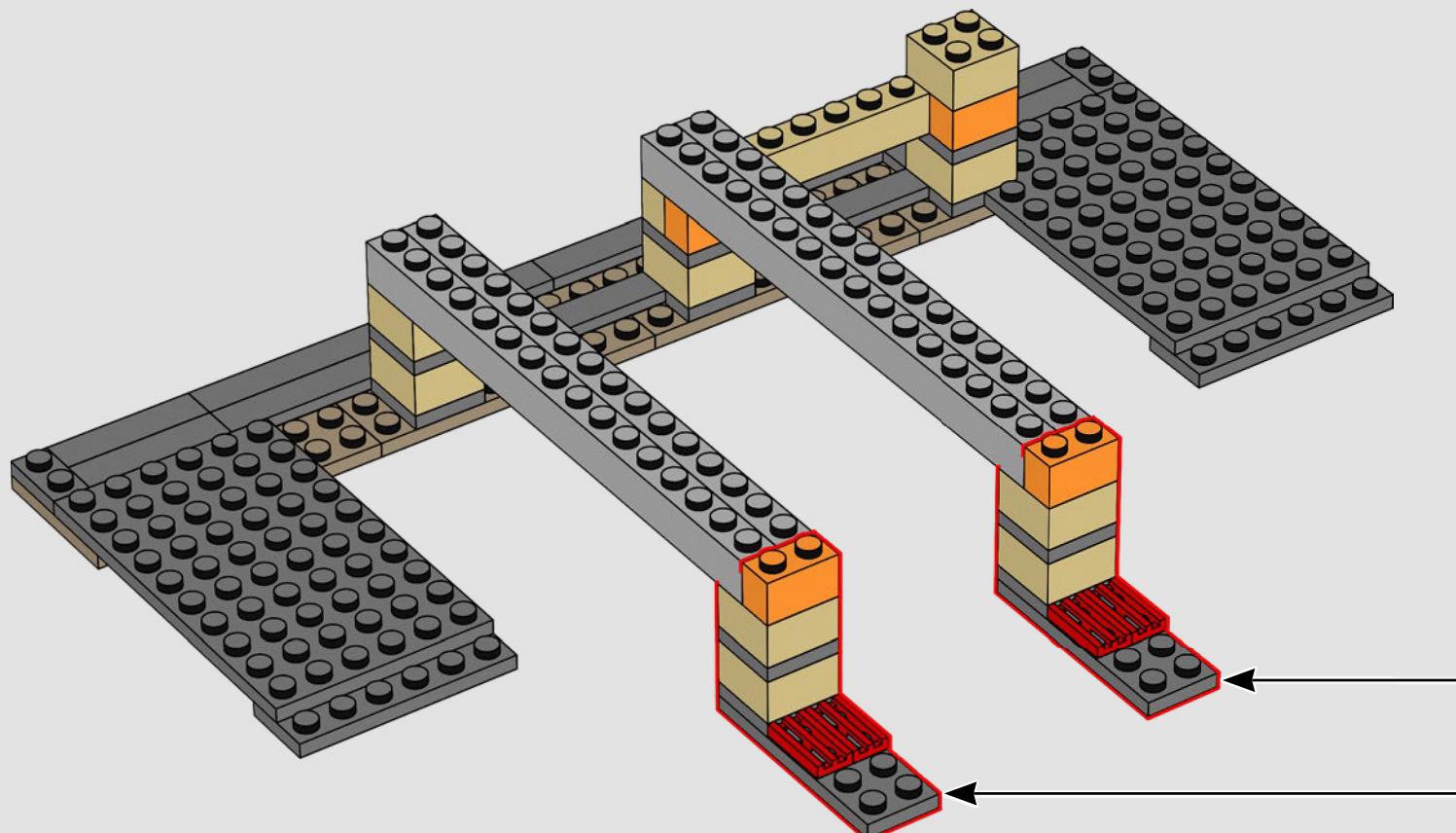
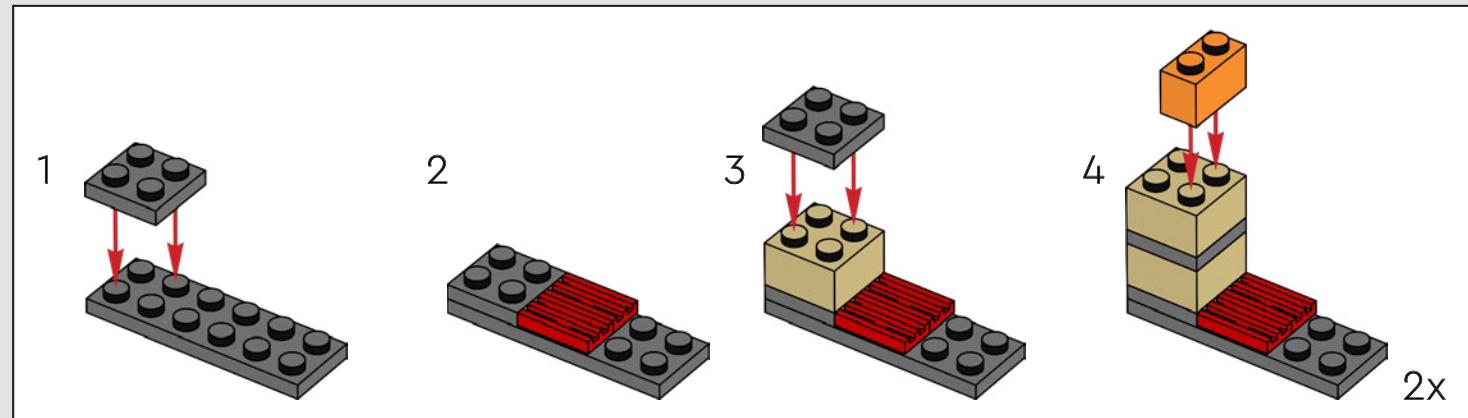


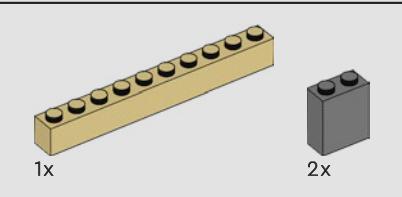
26



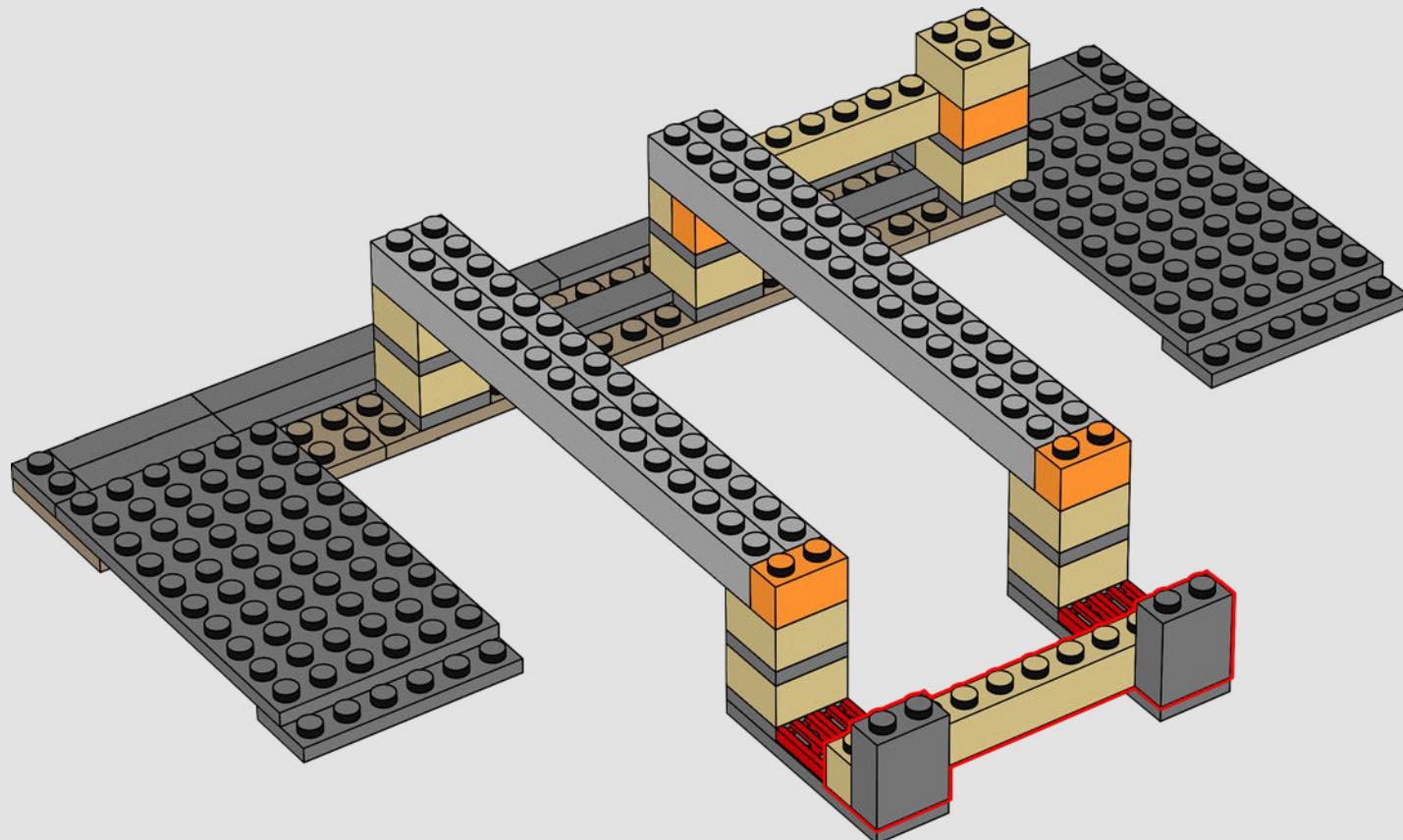


27





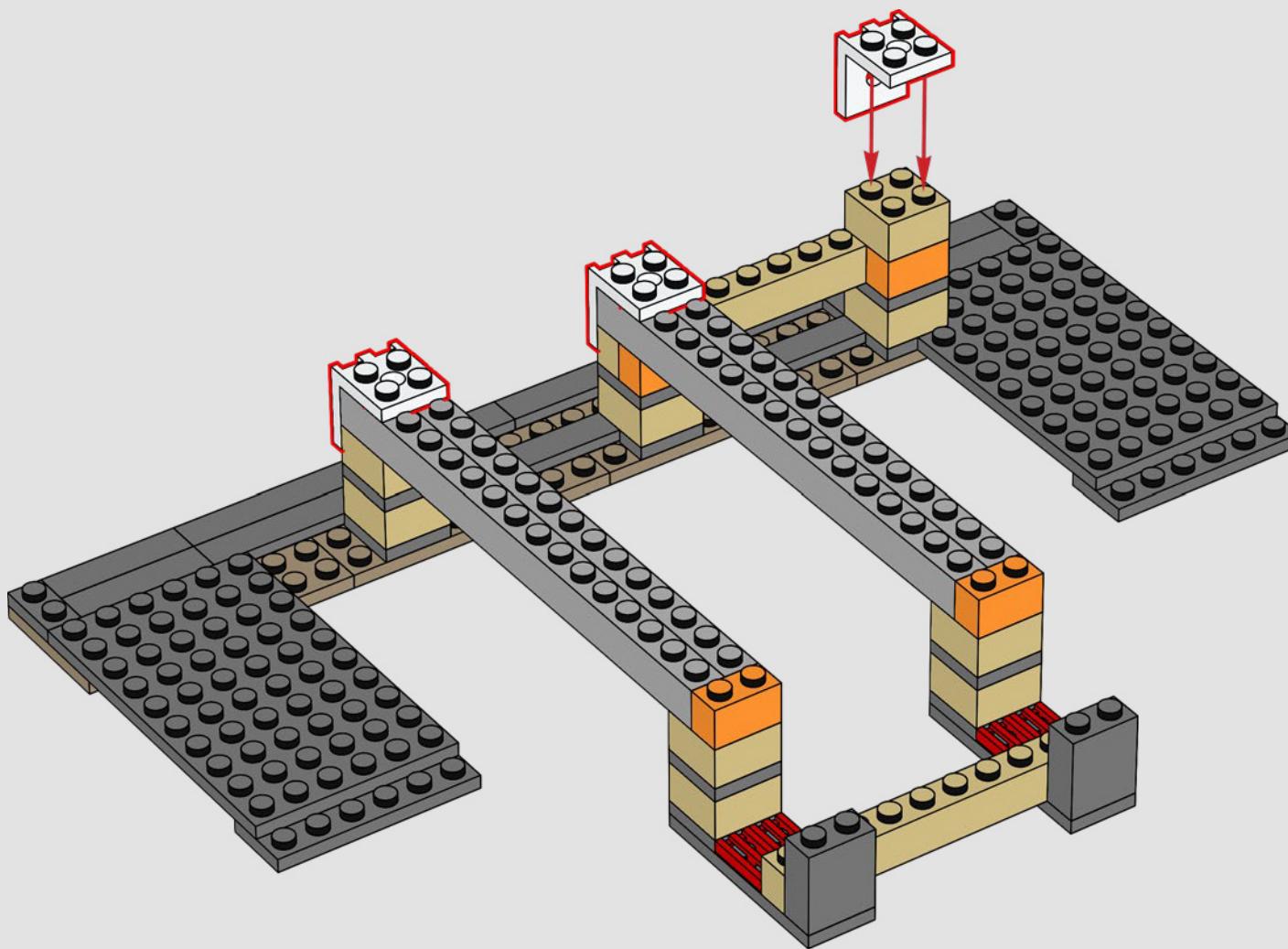
28

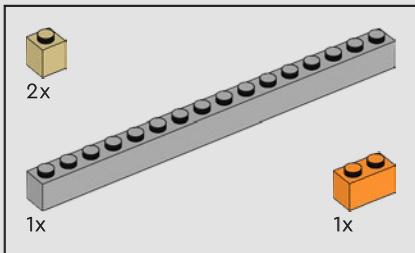




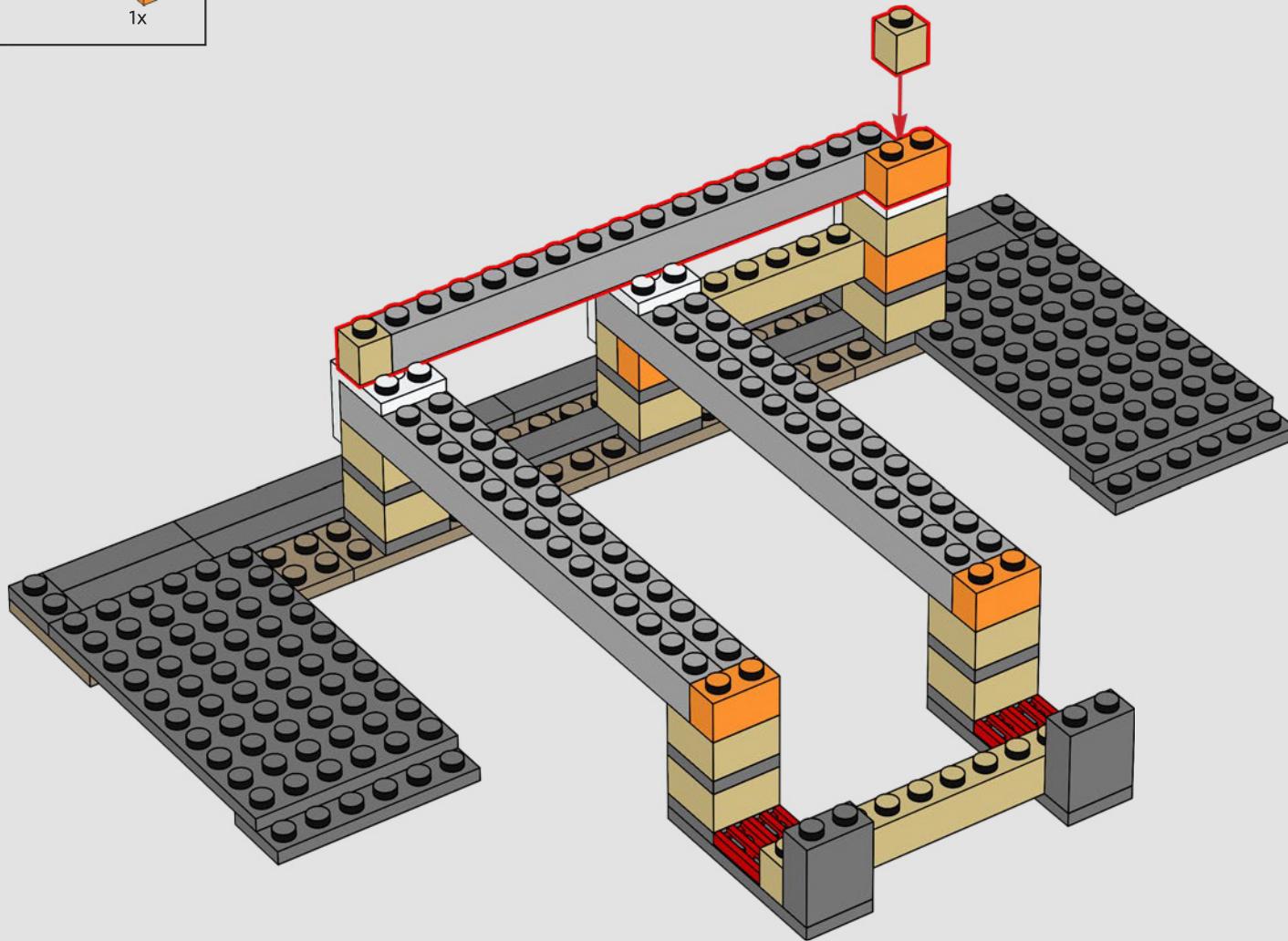
3x

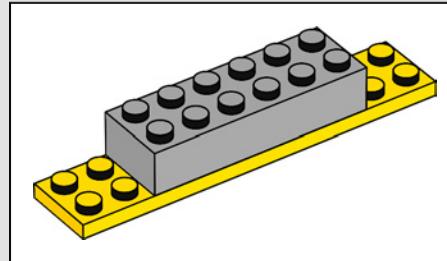
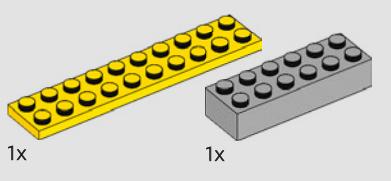
29



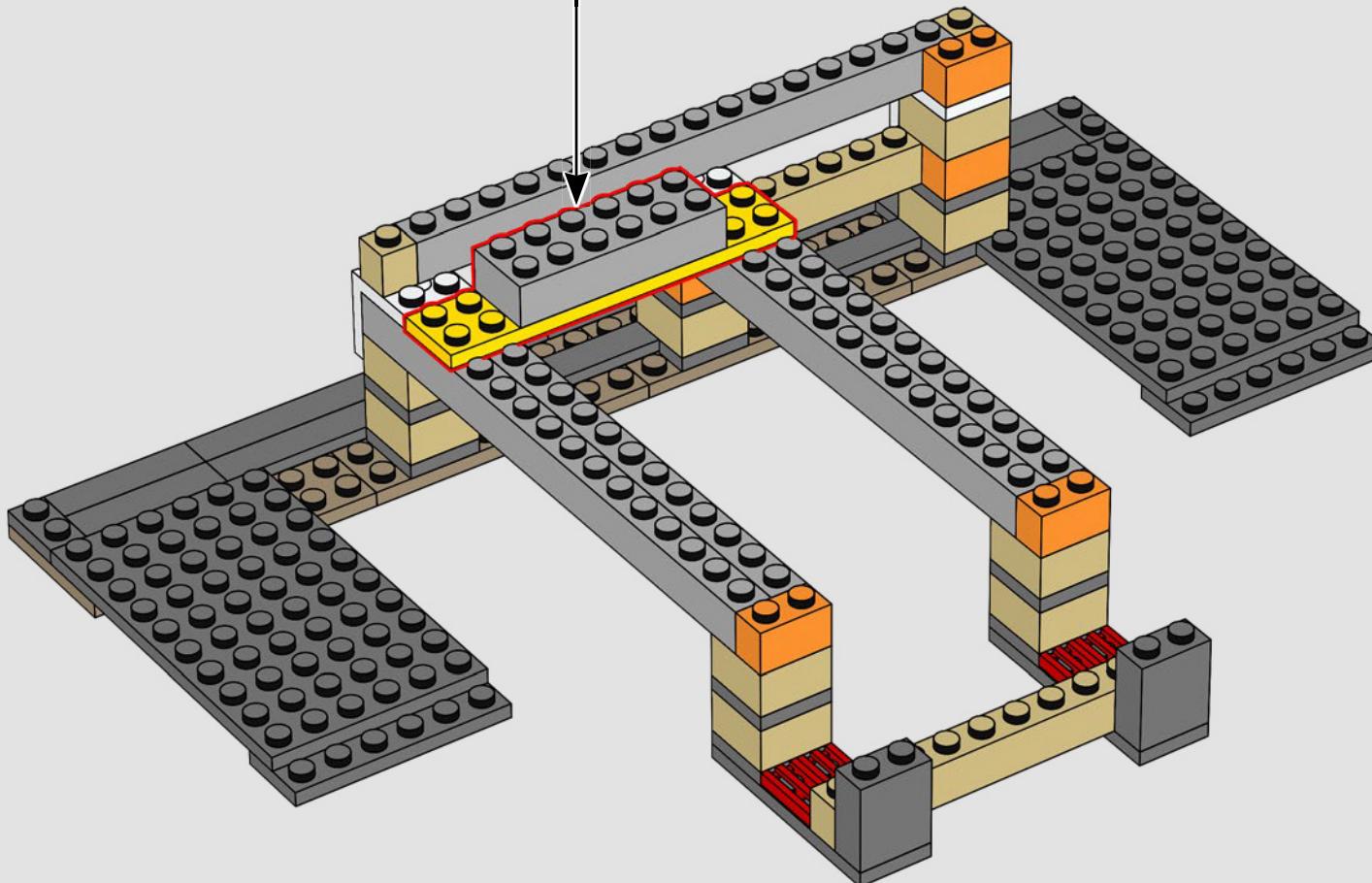


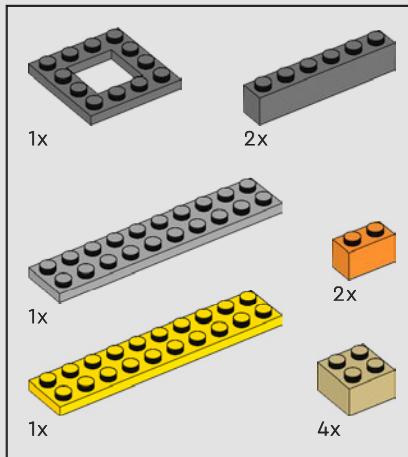
30



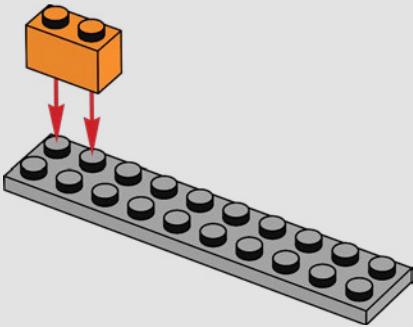


31

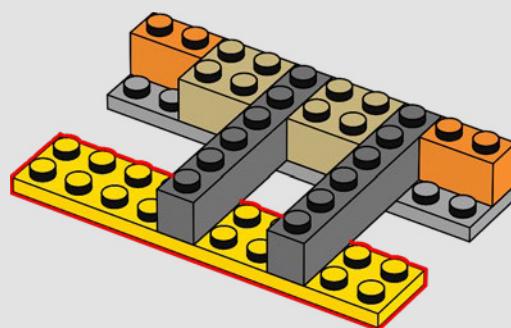




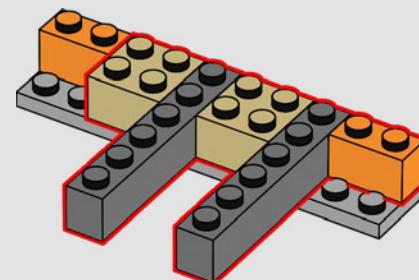
32



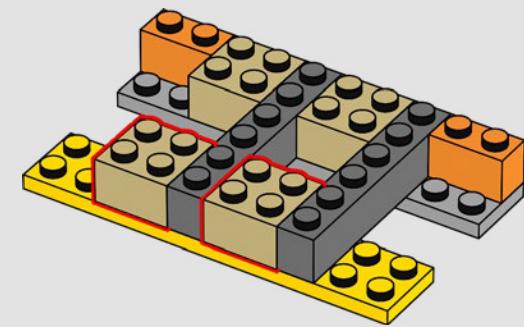
1



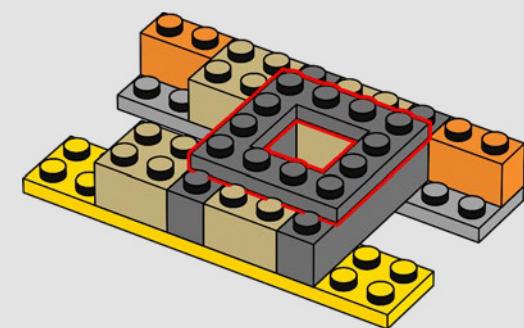
3



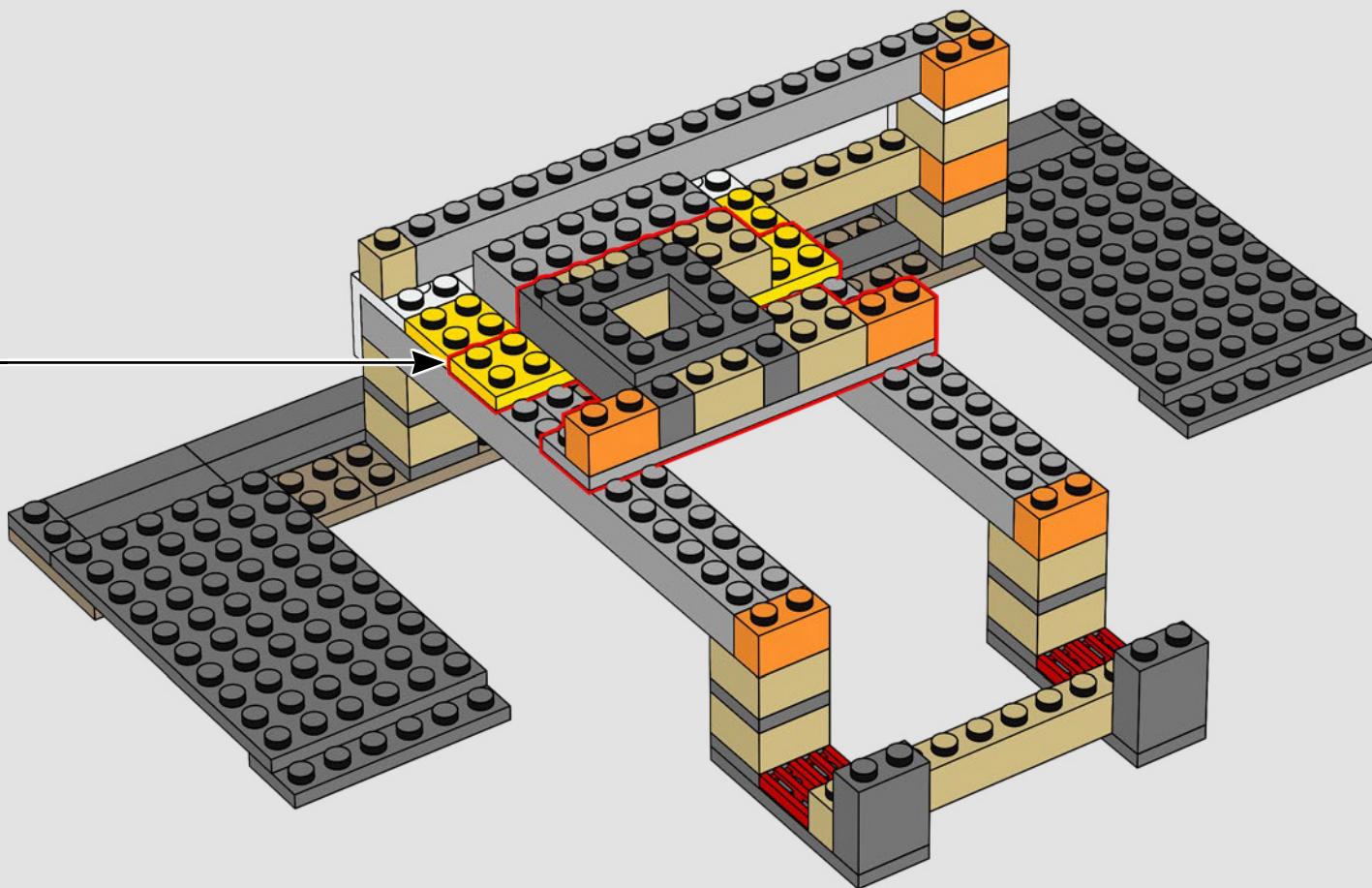
2

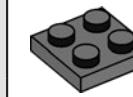
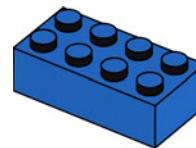
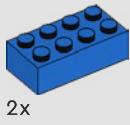


4

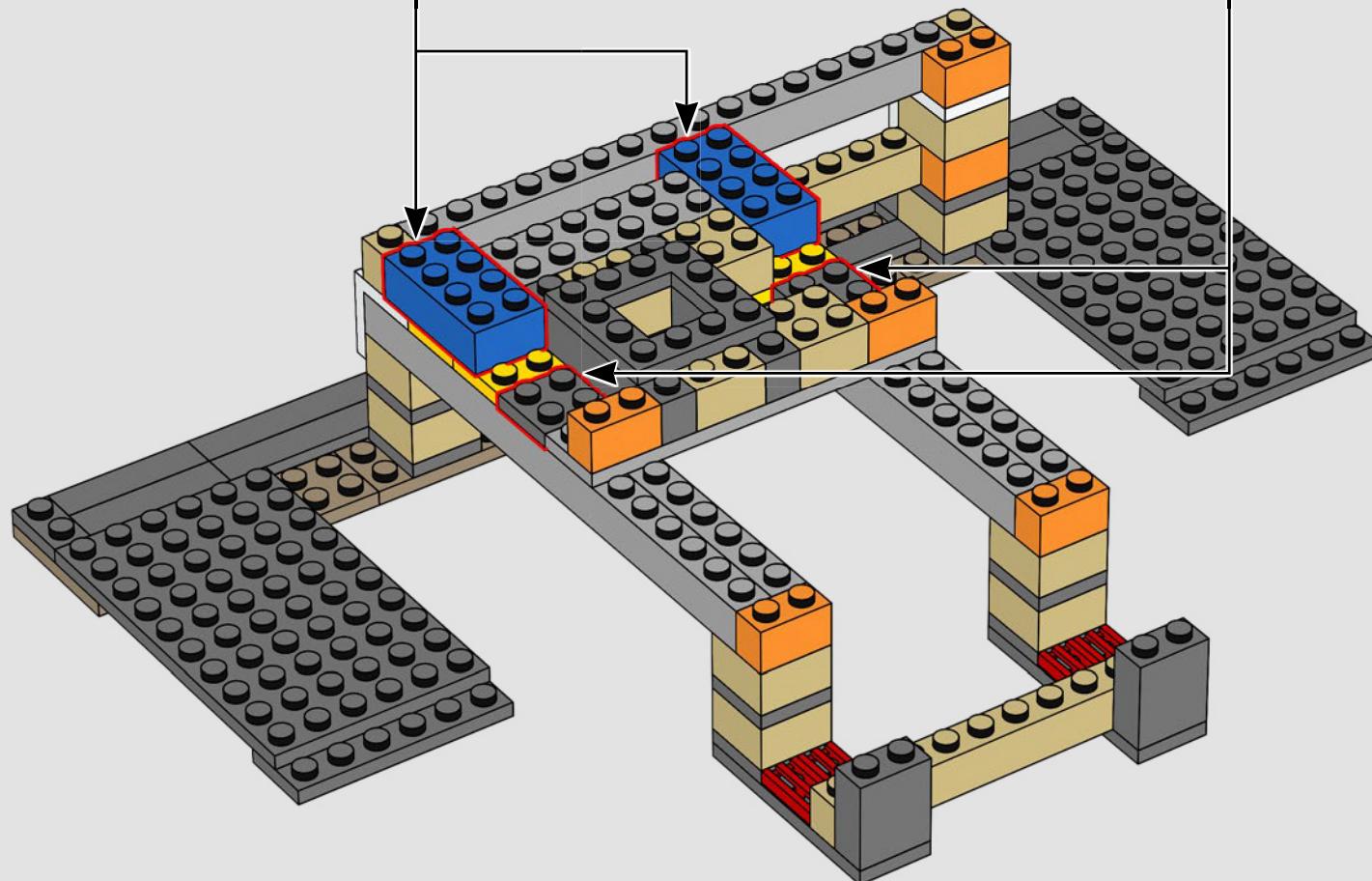


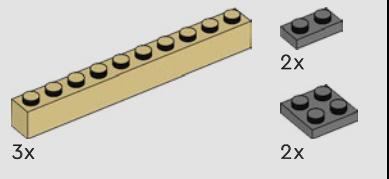
5



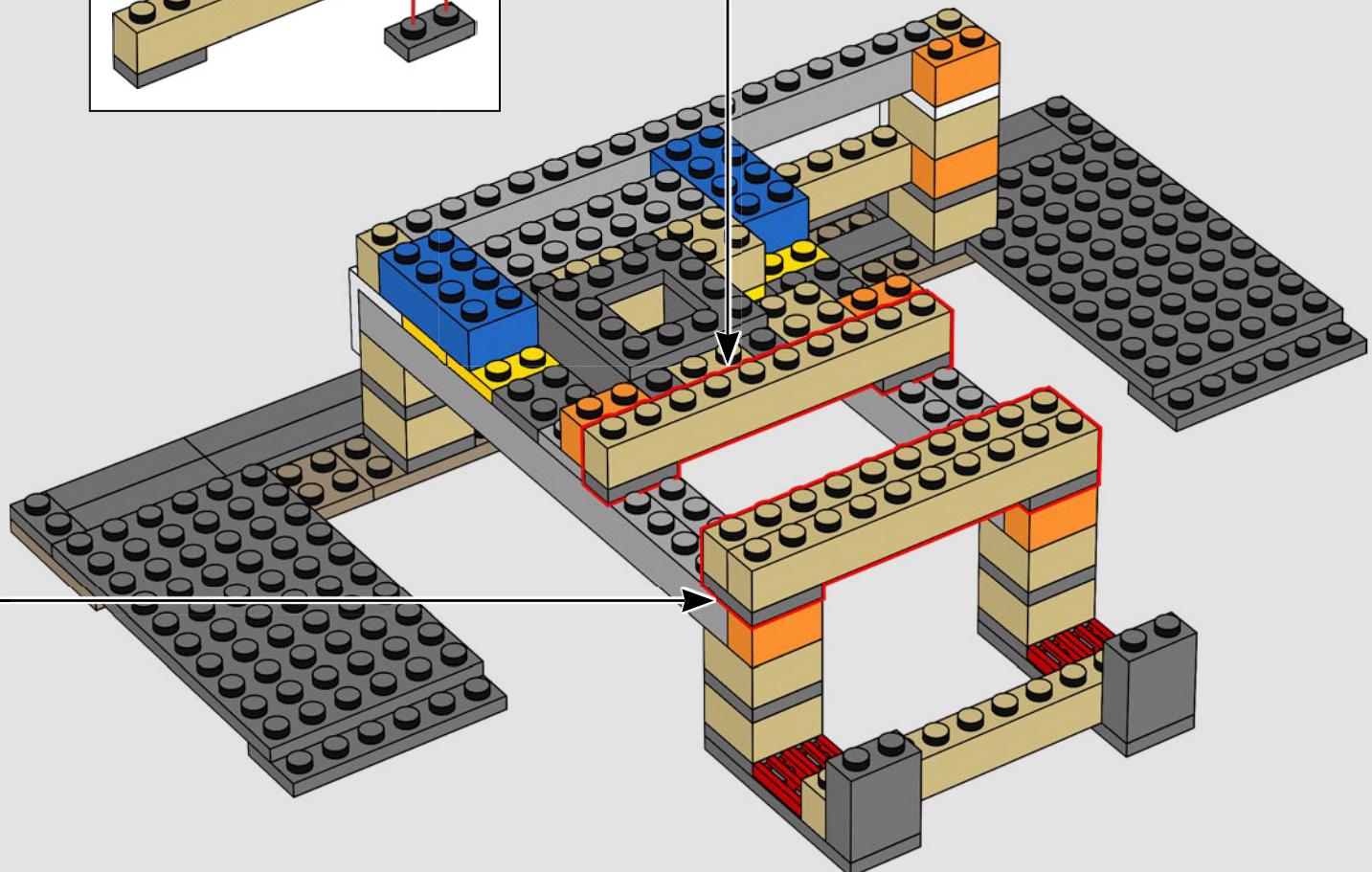
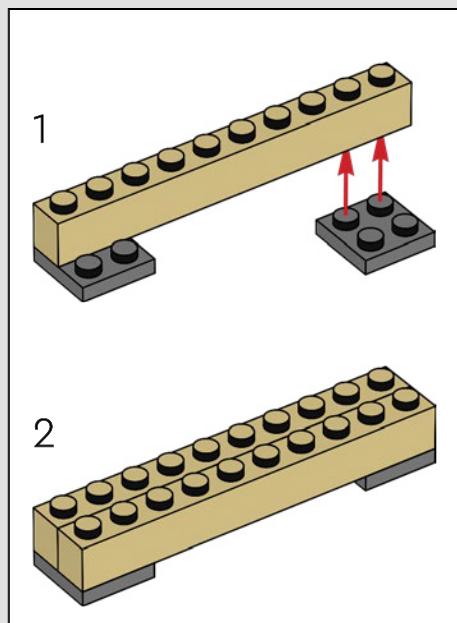
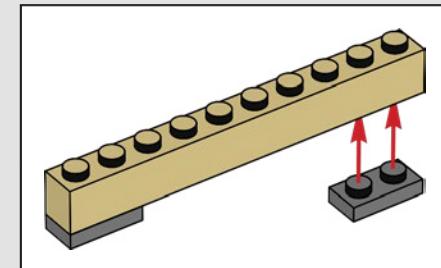


33

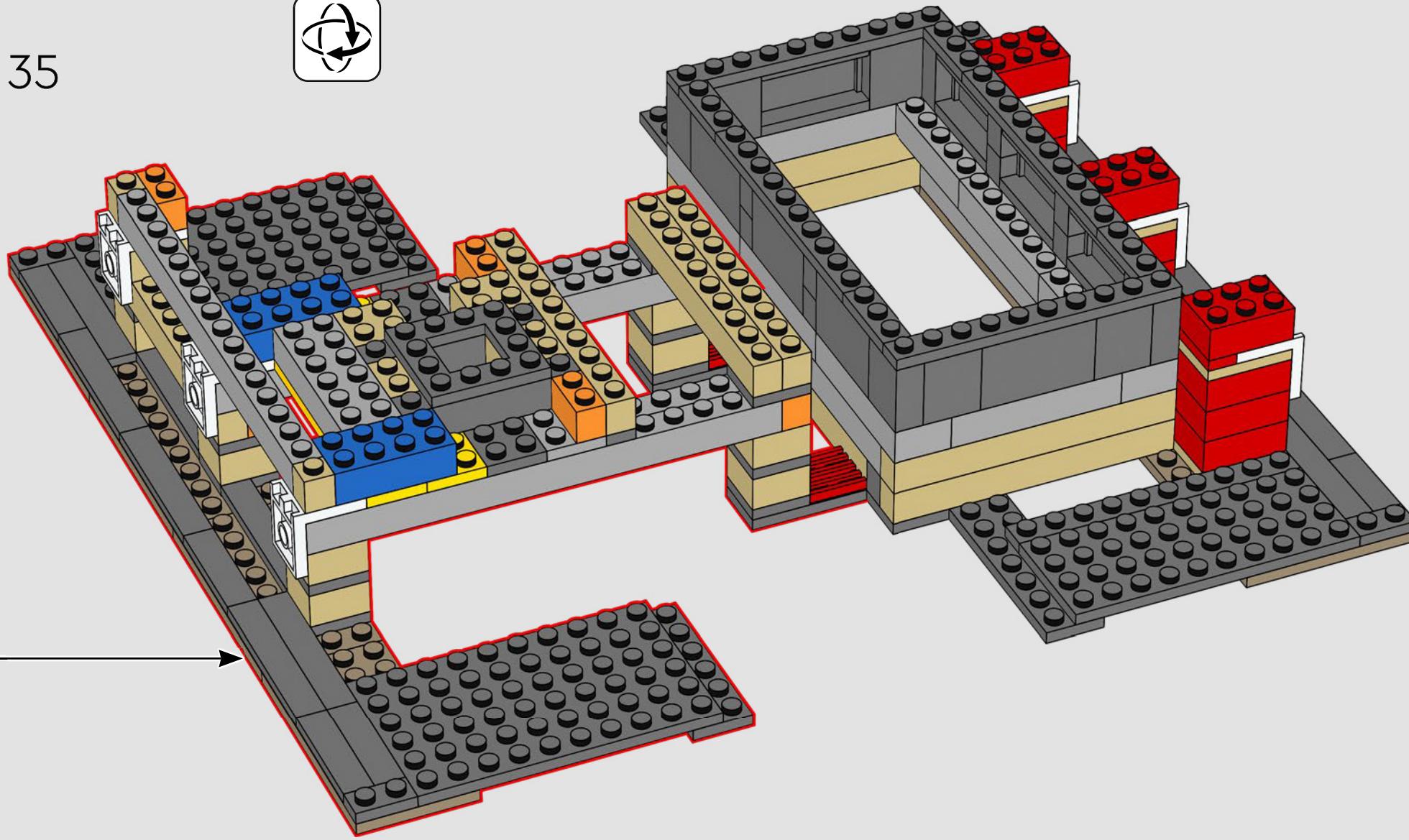


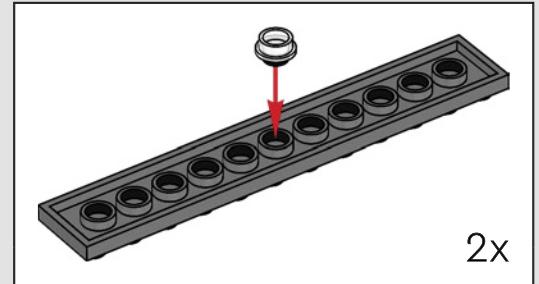
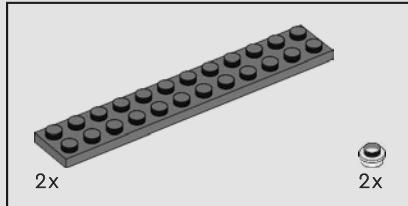


34

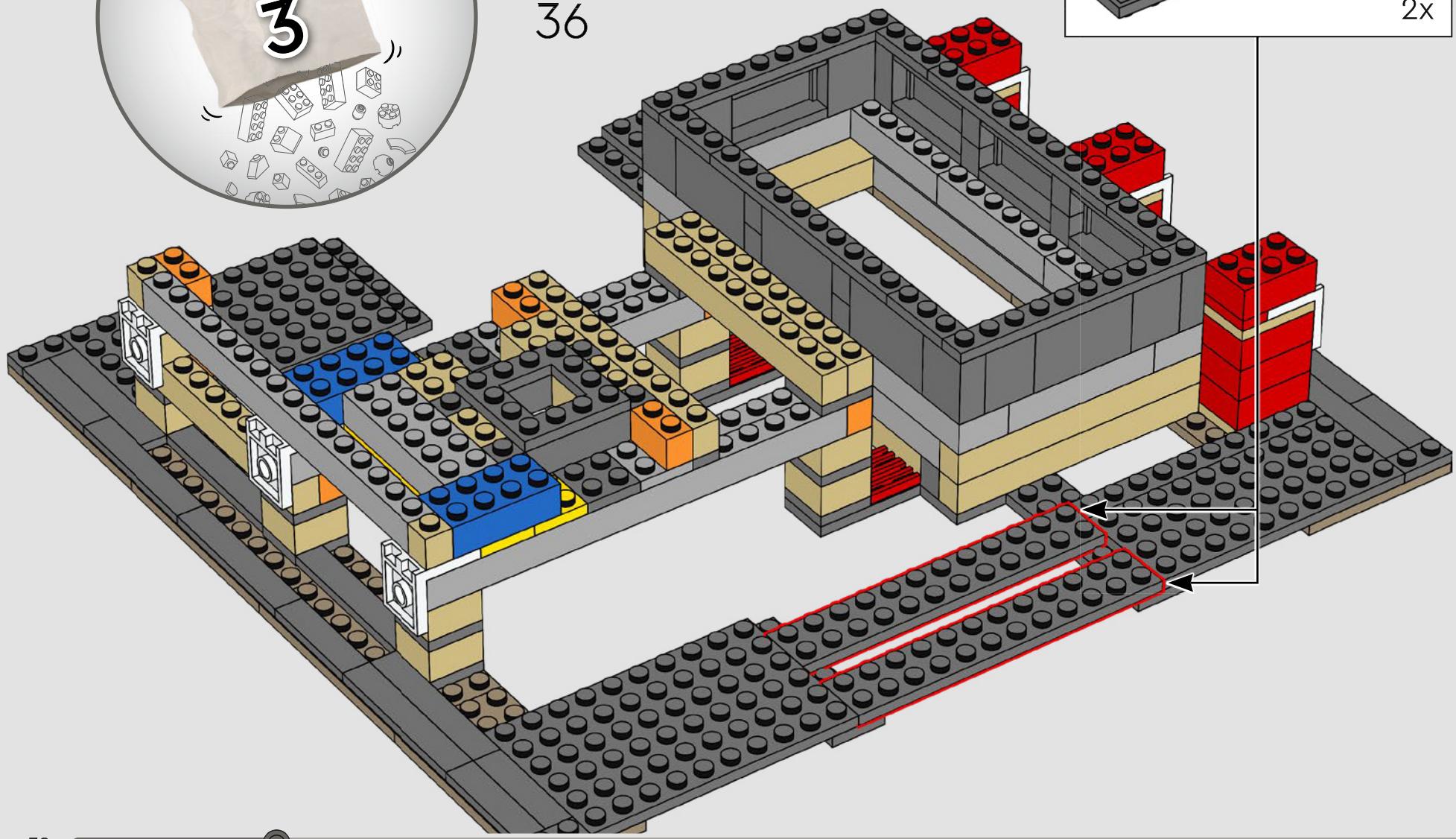


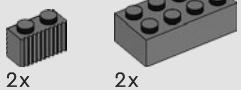
35





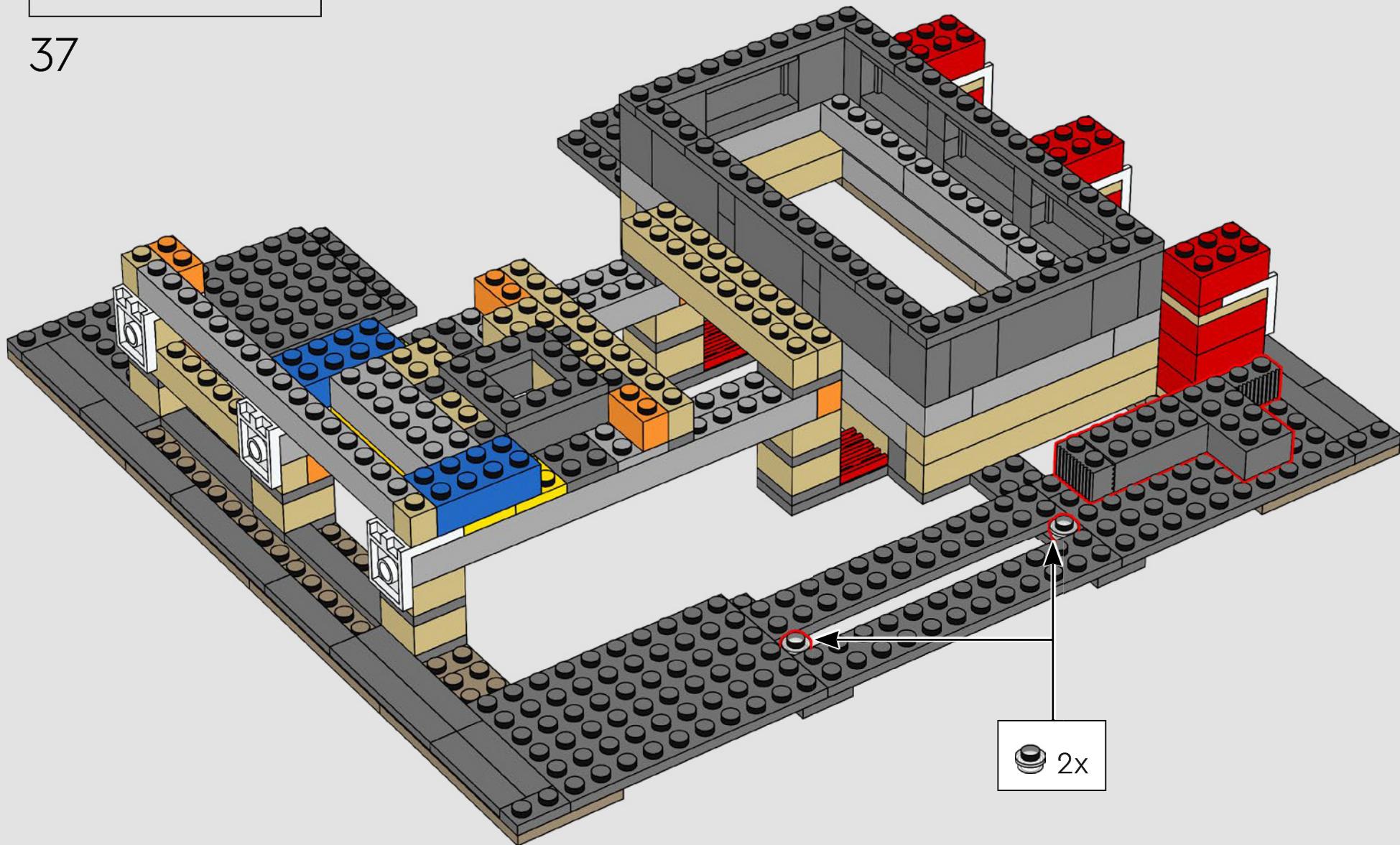
36



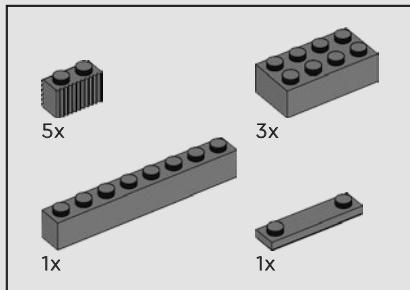


2x

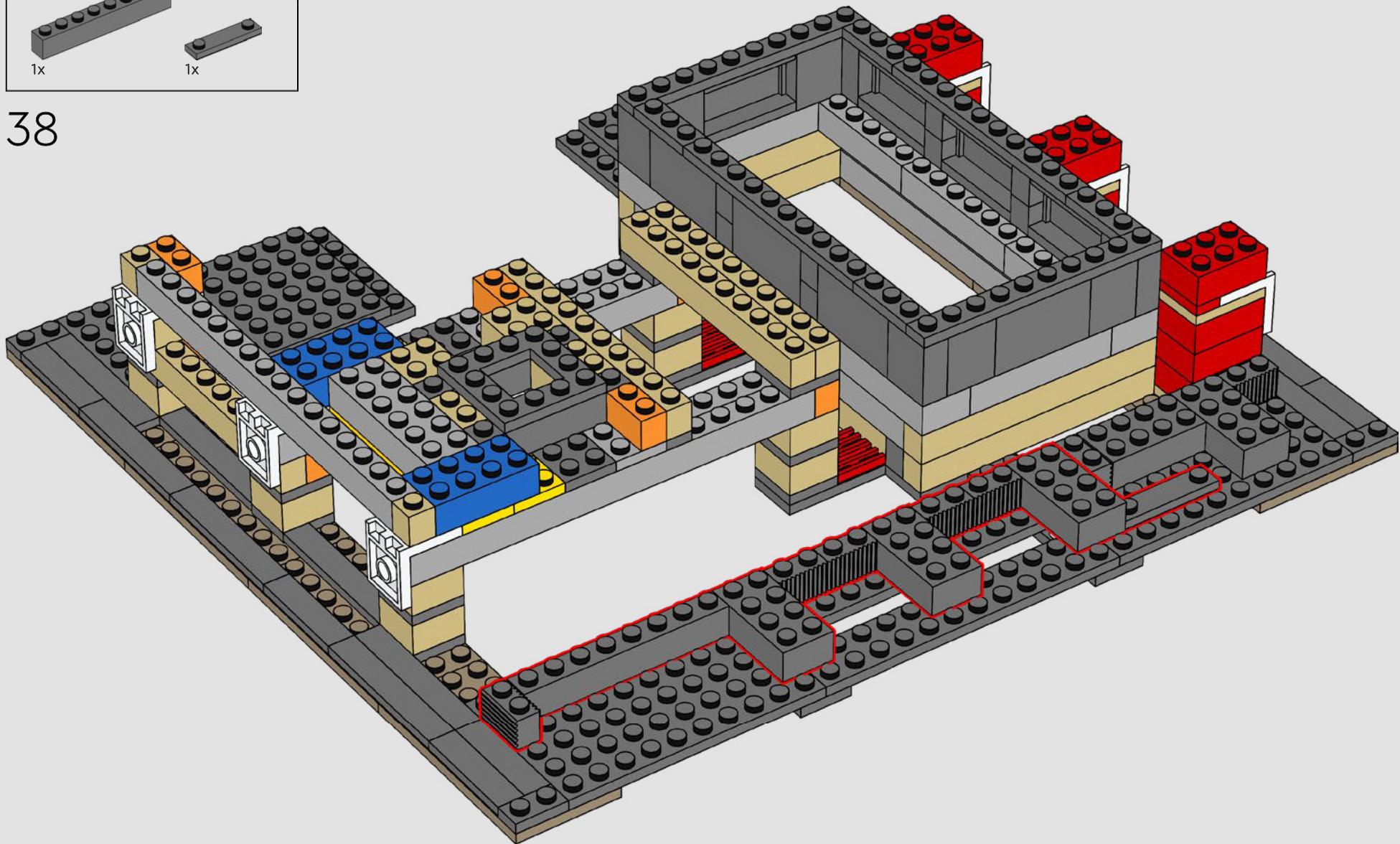
37

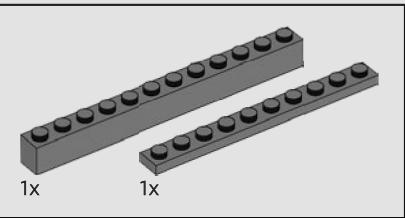
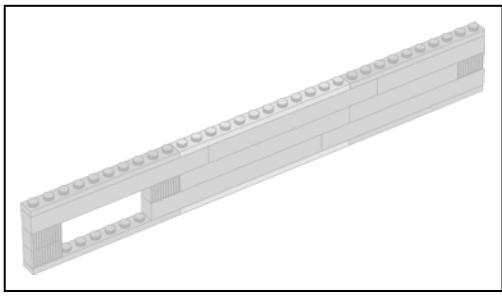


2x

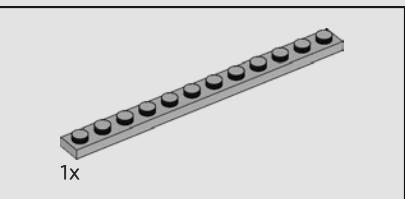
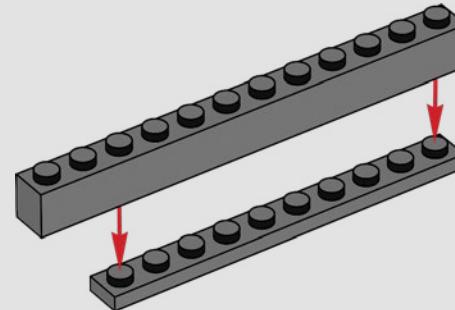


38

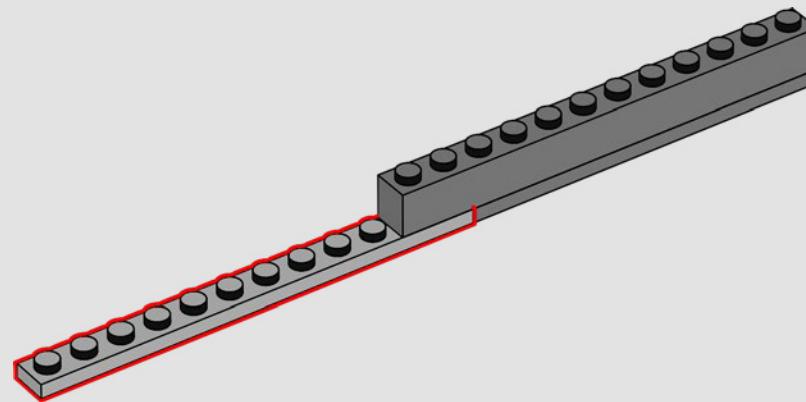


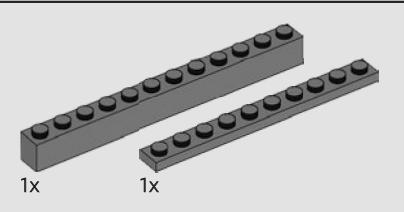


39

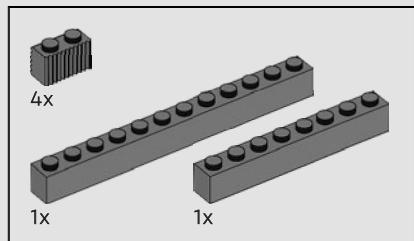
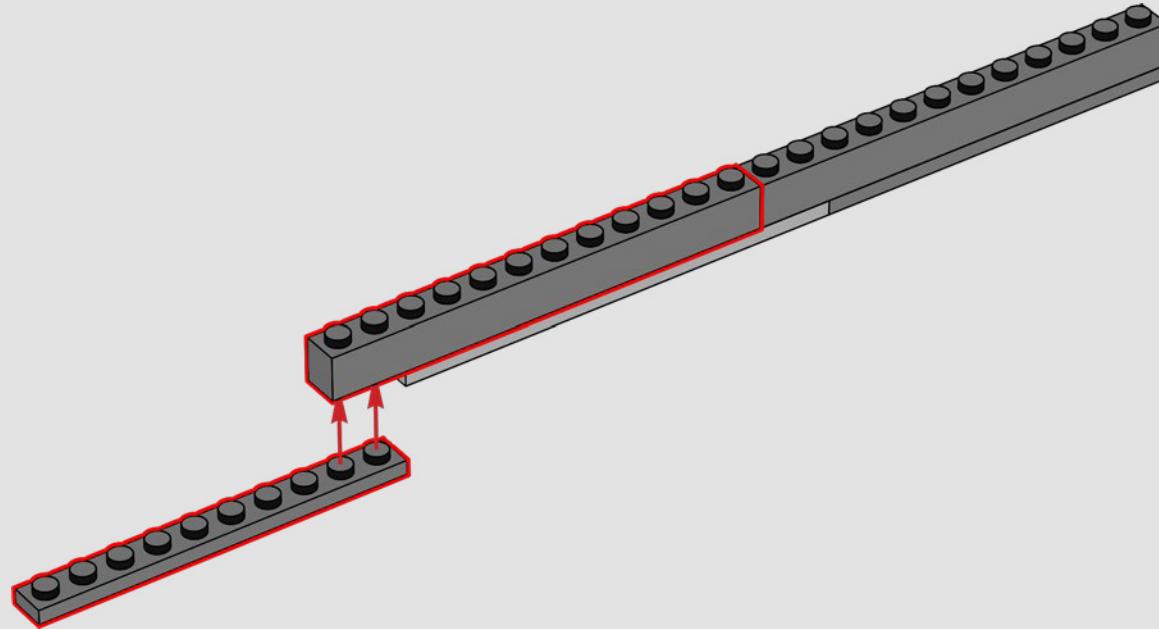


40

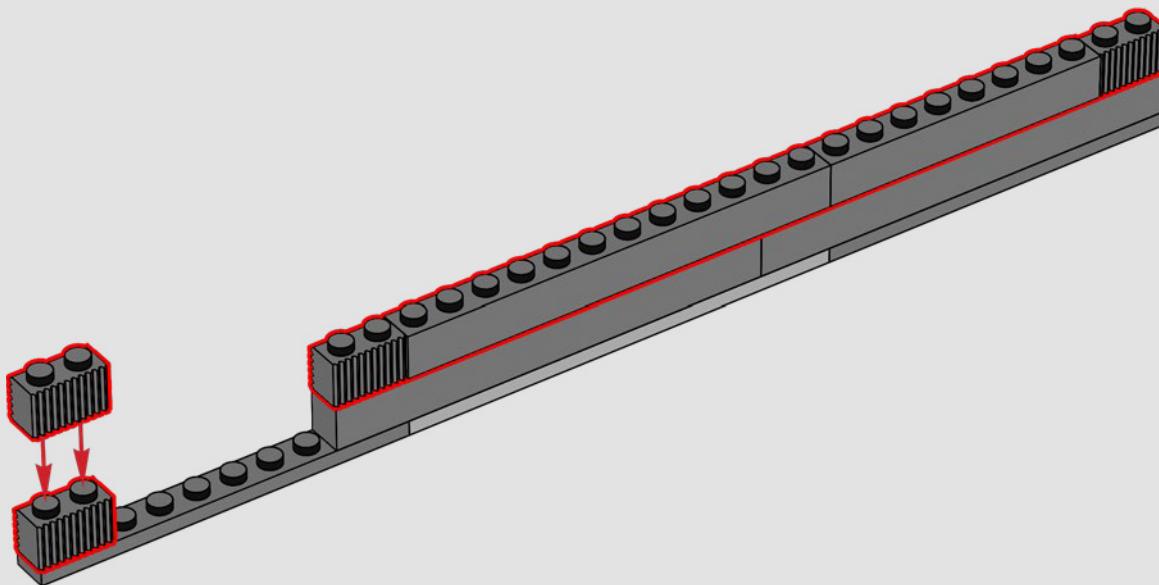


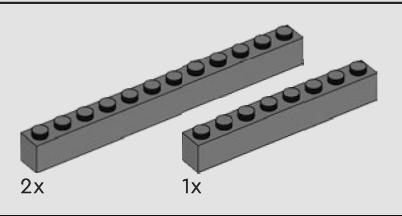


41

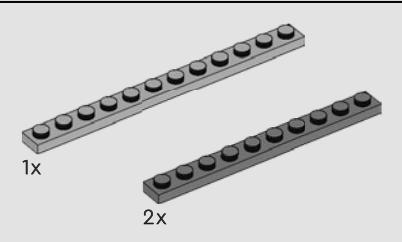
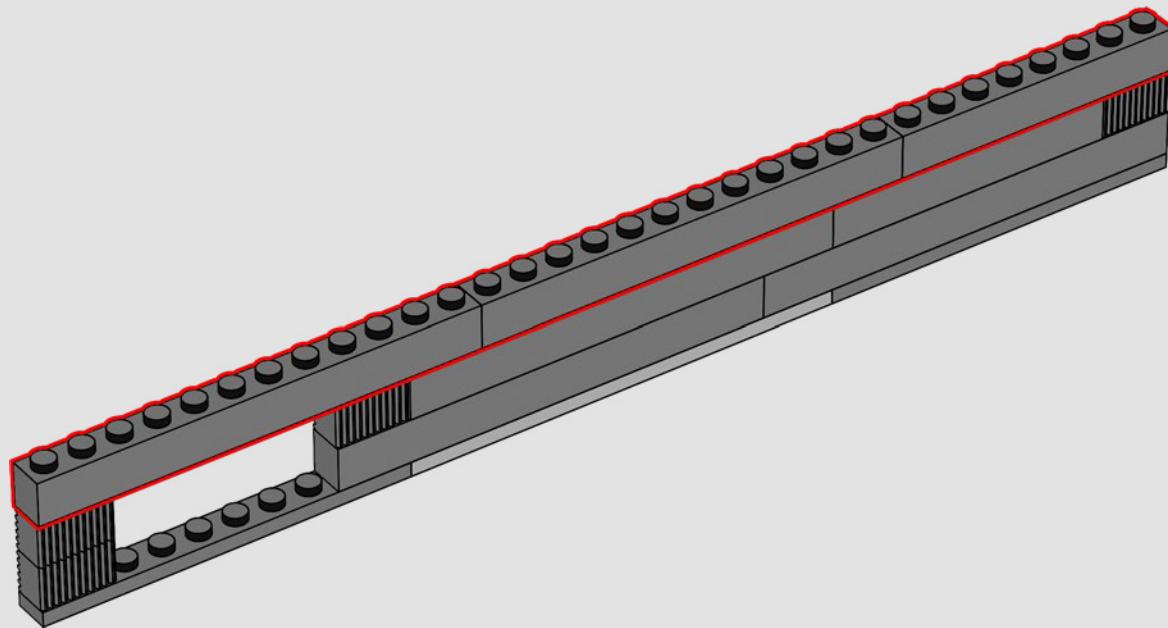


42

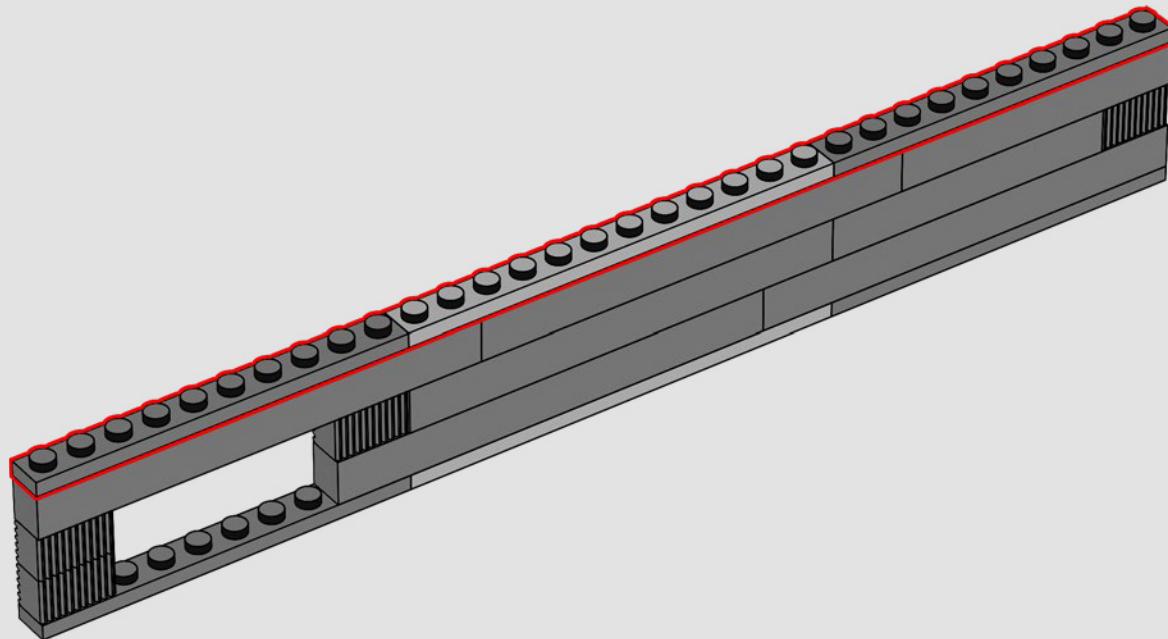




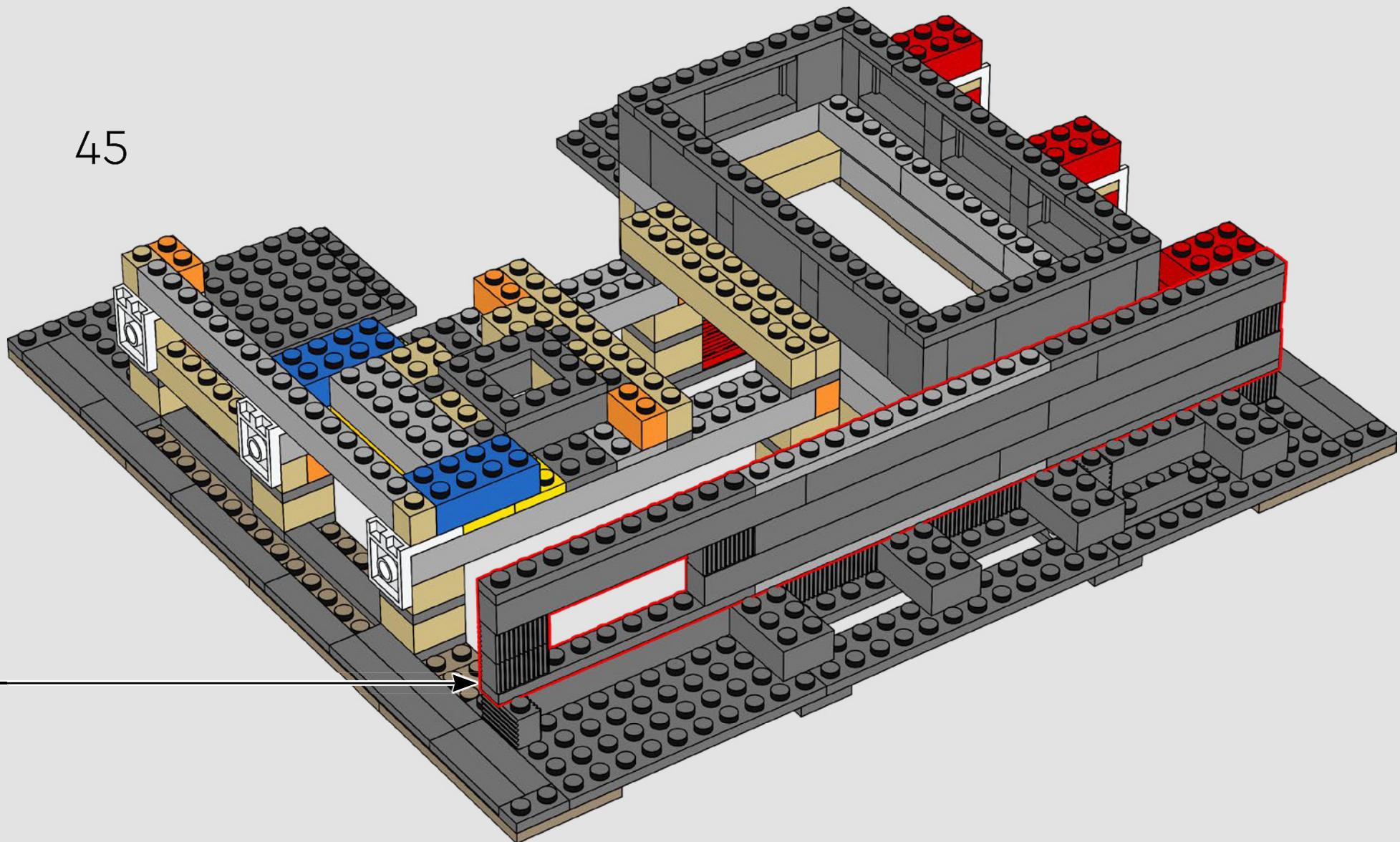
43

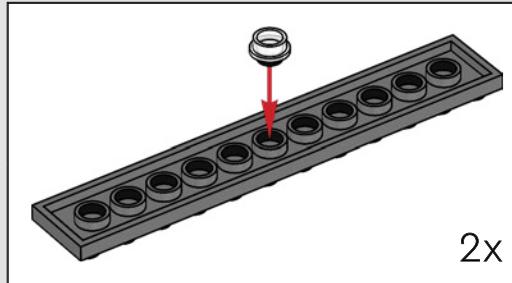
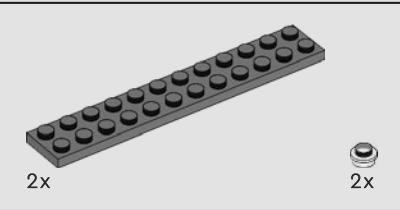


44

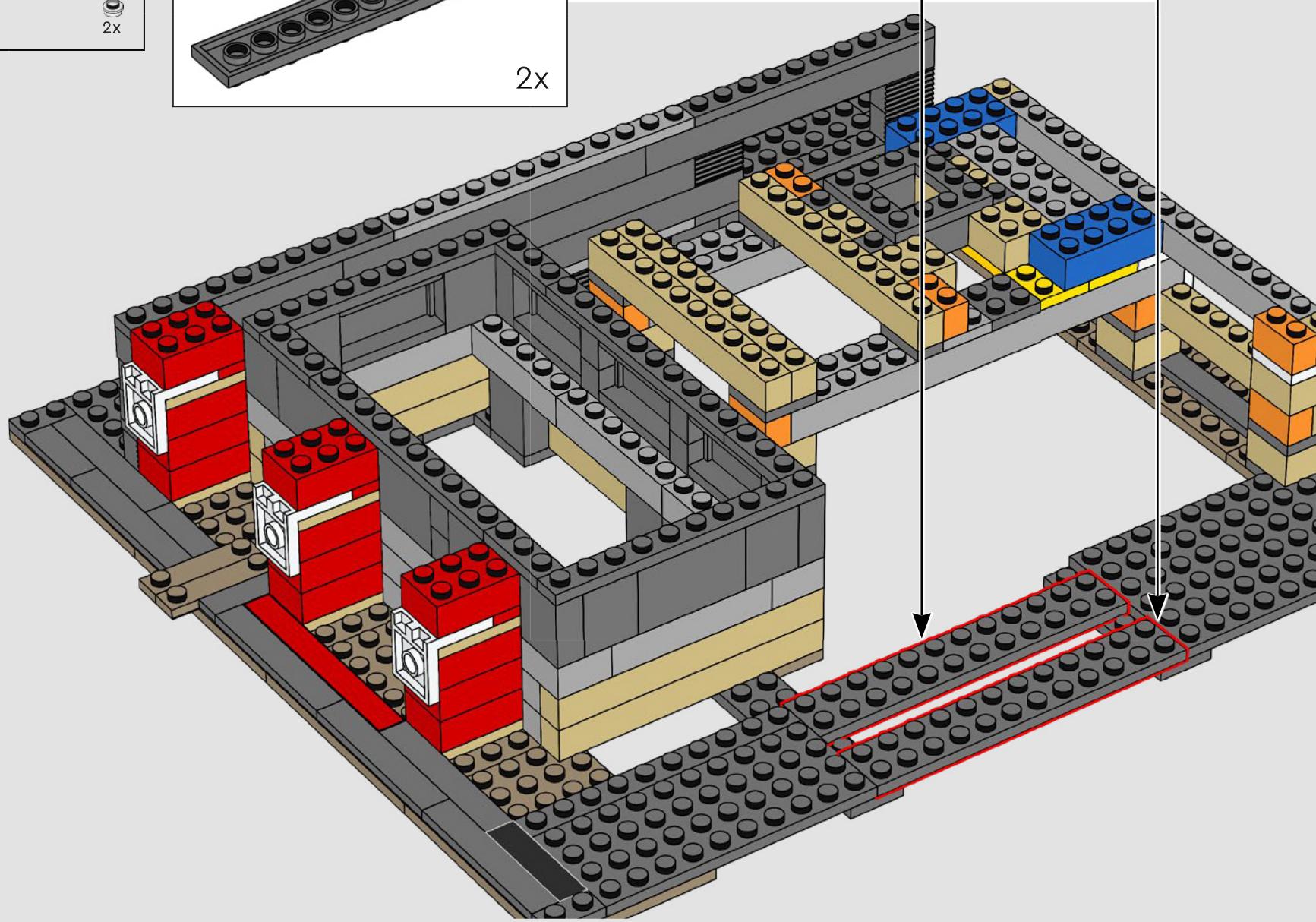
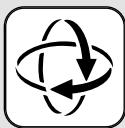


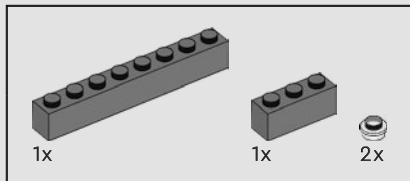
45



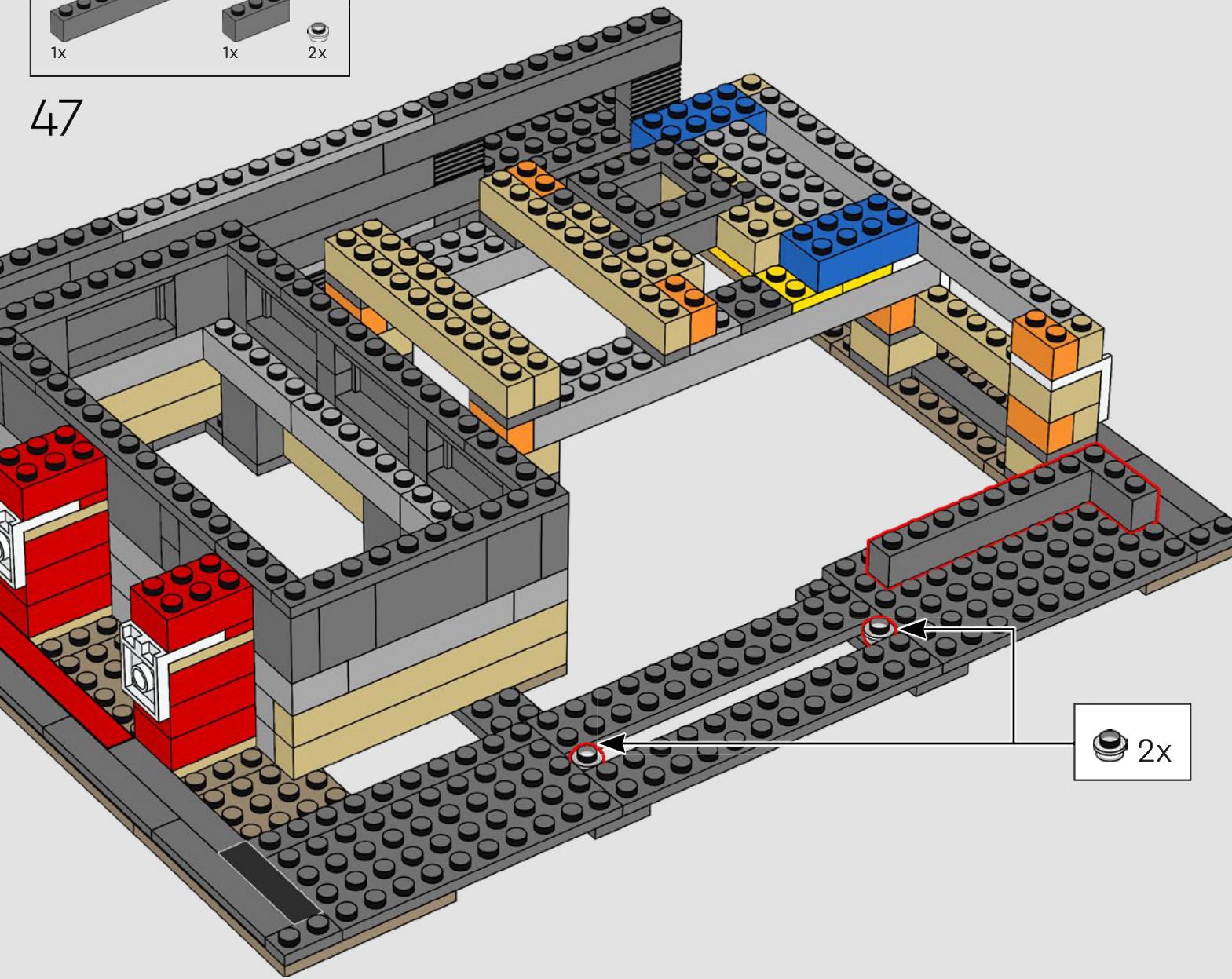


46





47



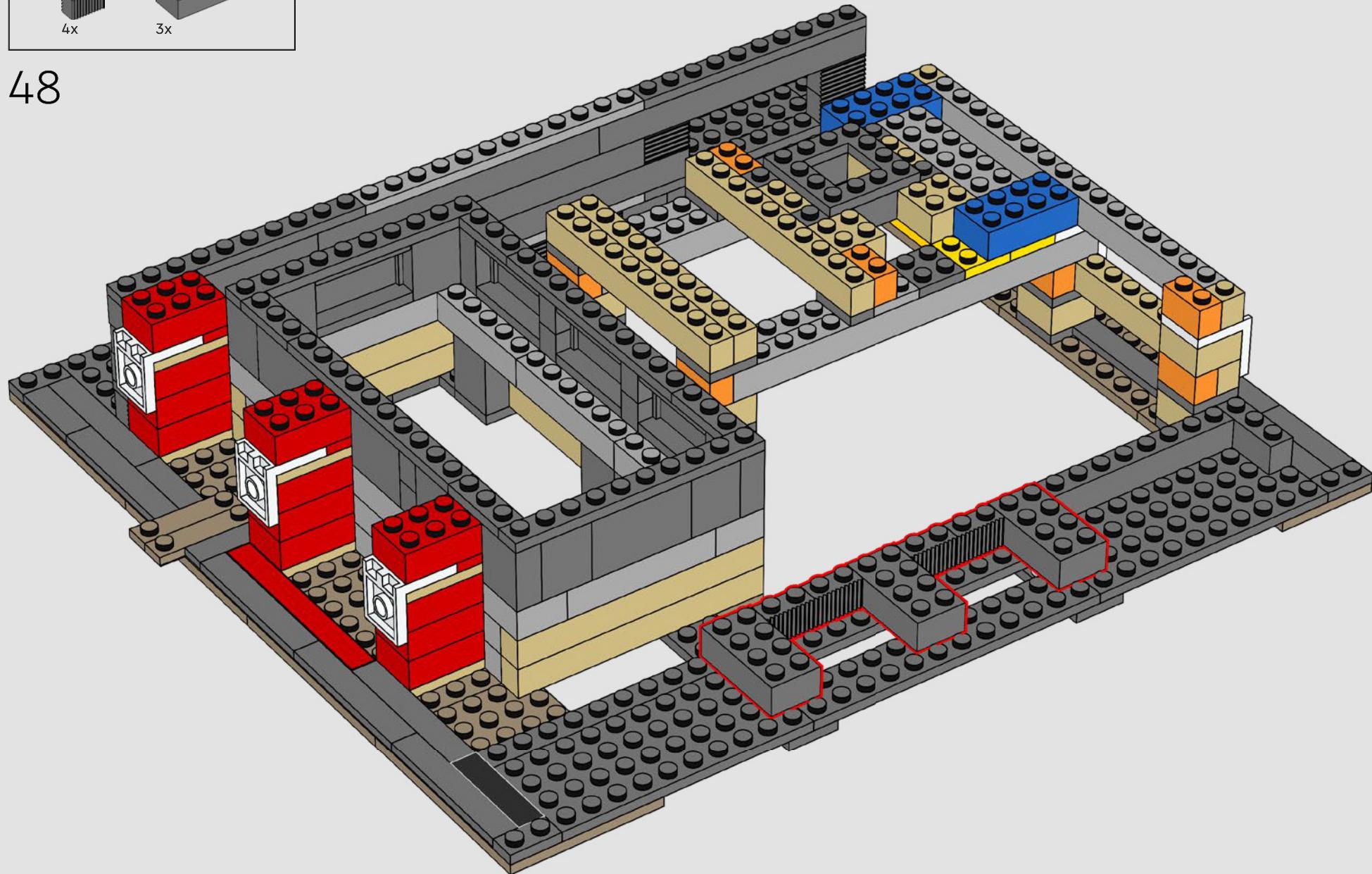


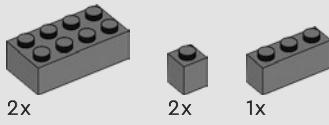
4x



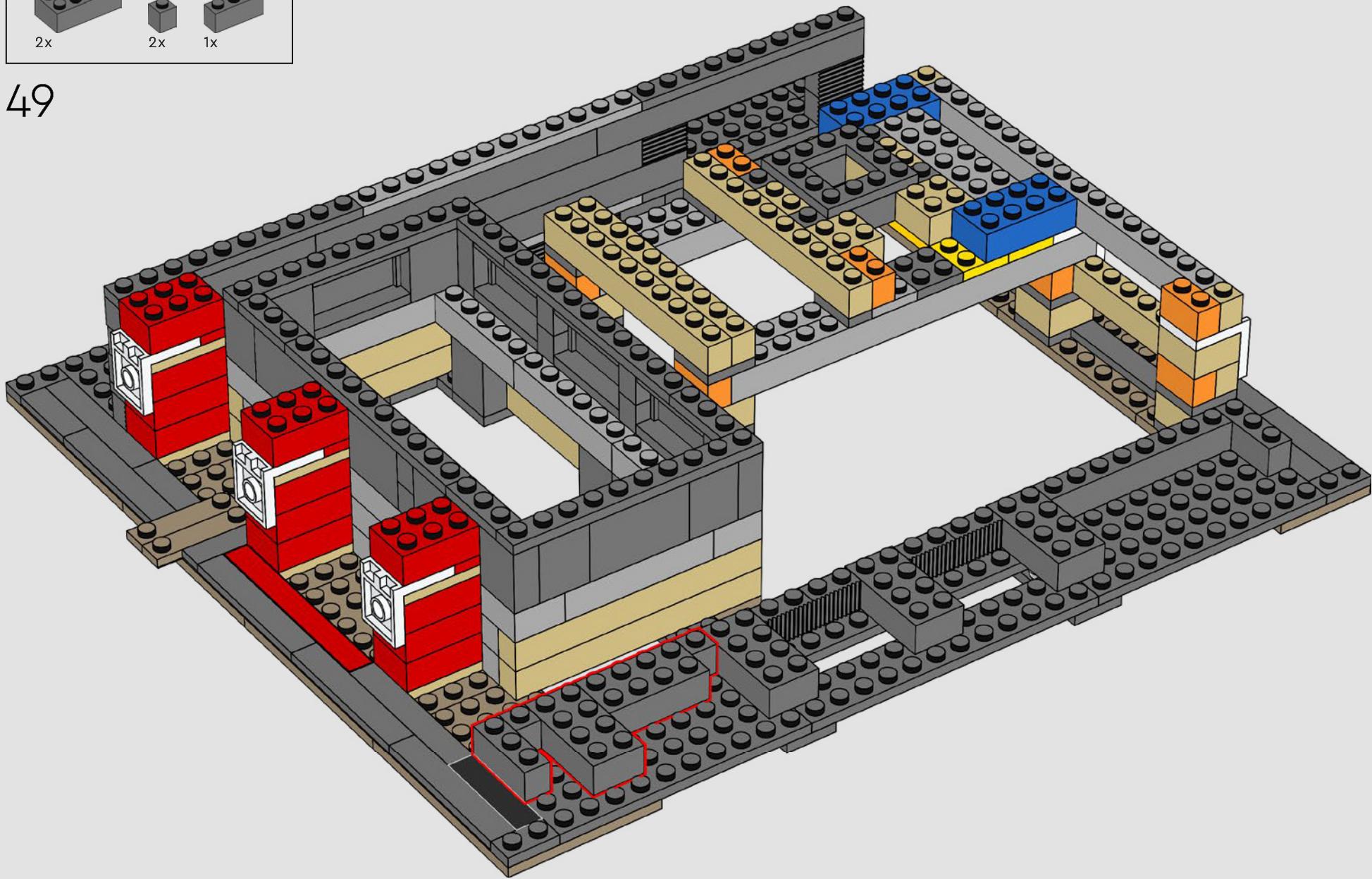
3x

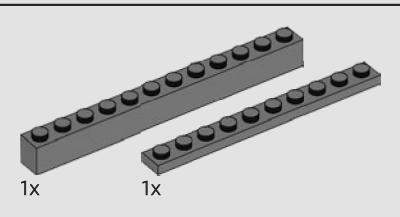
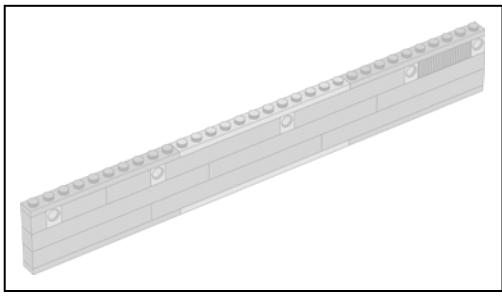
48



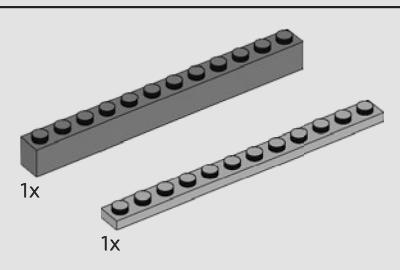


49

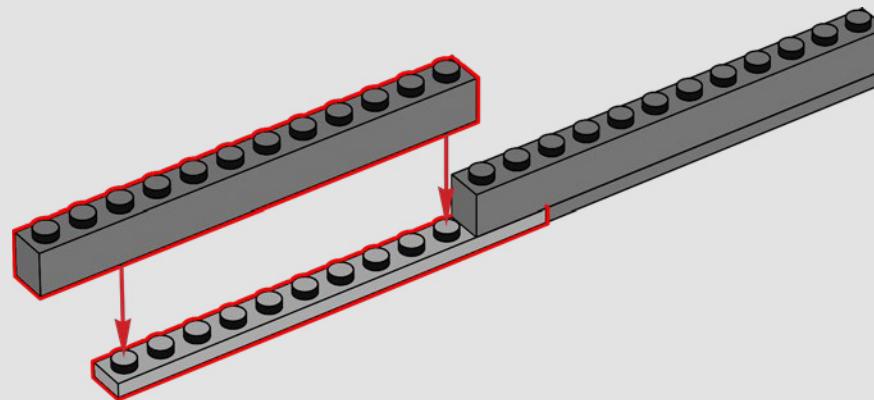
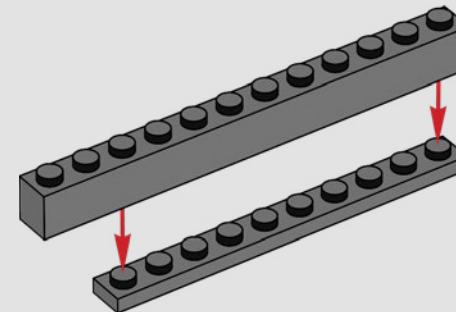


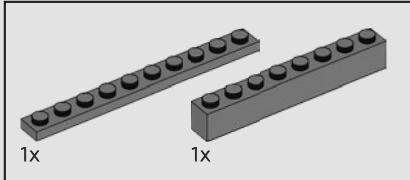


50

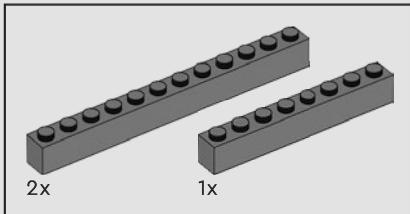
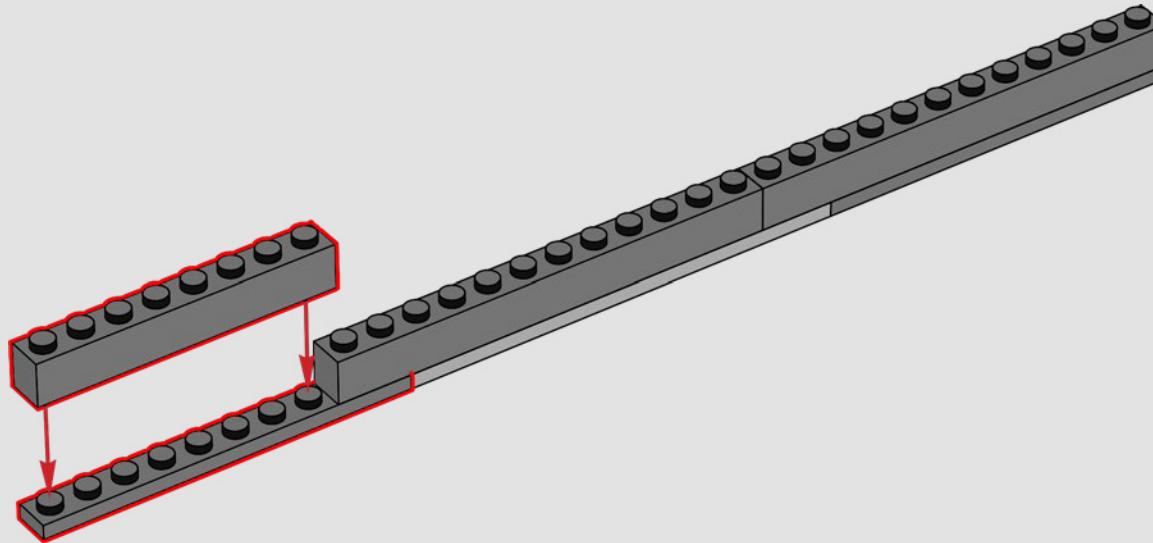


51

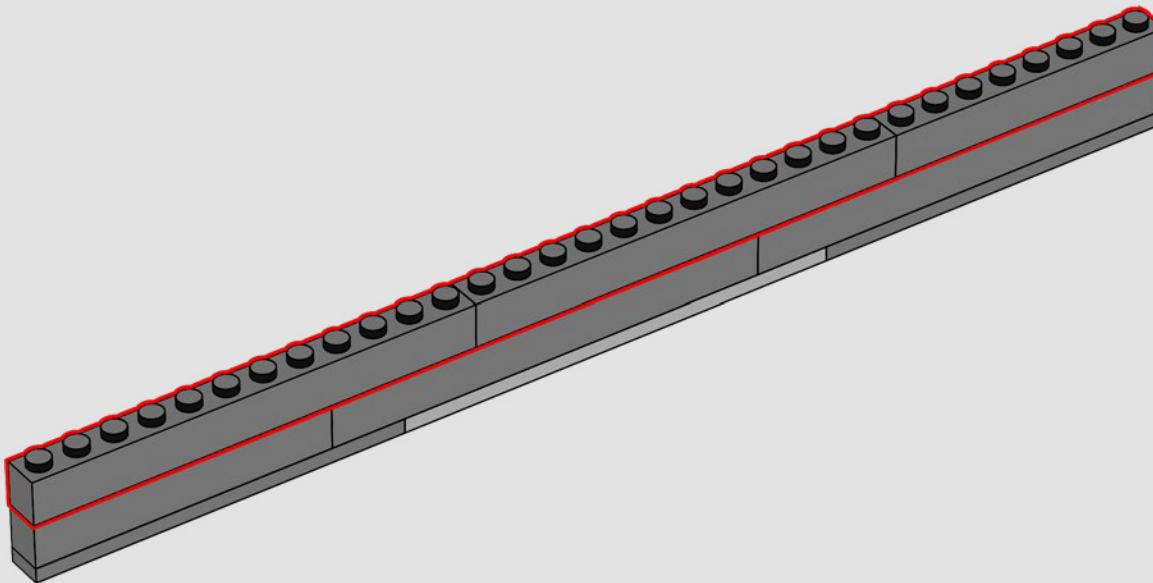


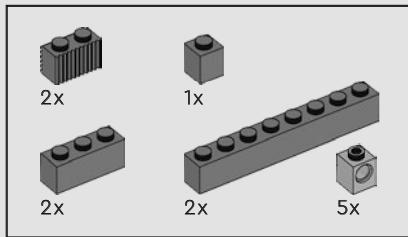


52

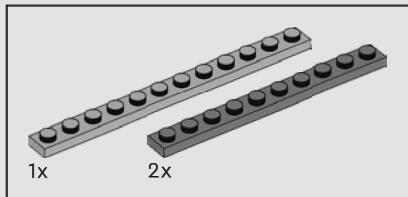
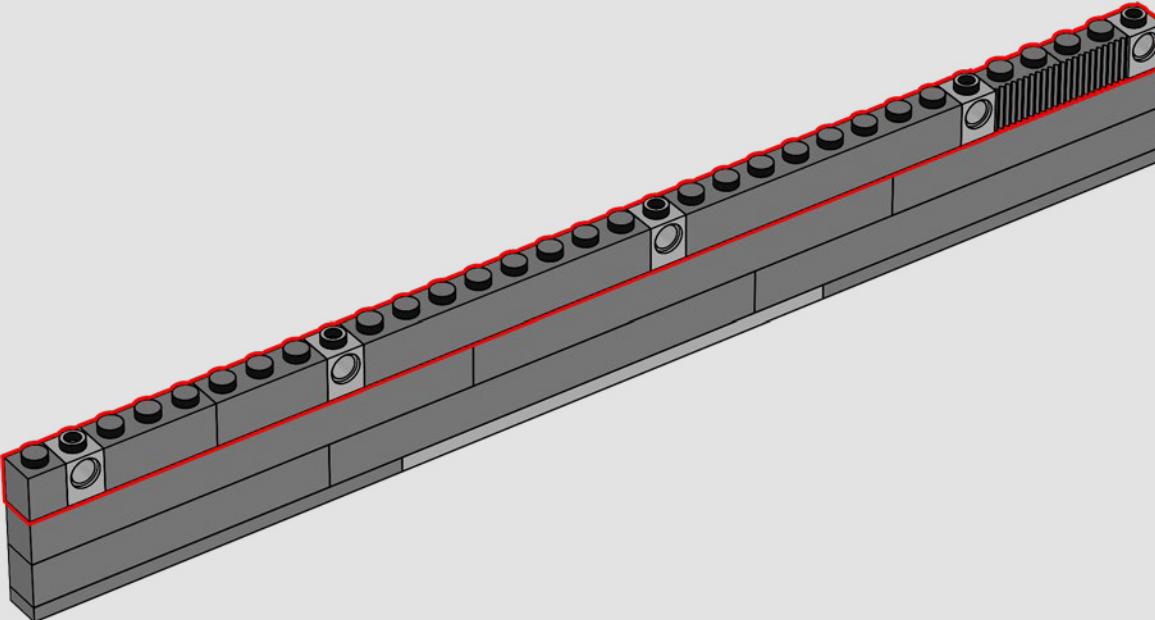


53

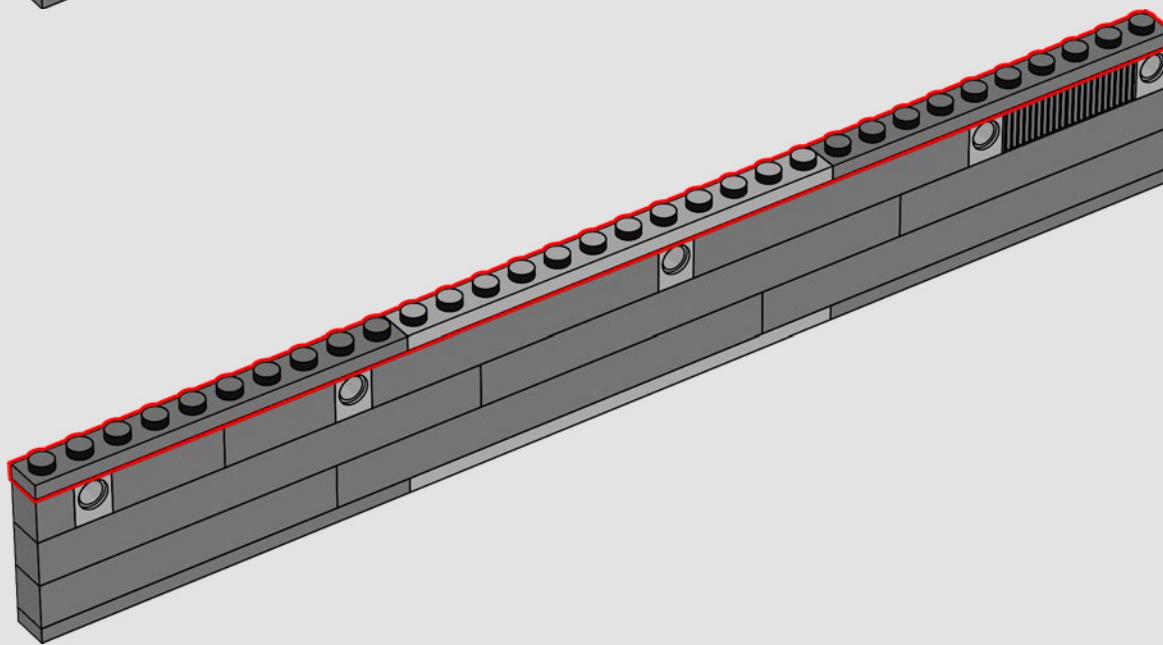




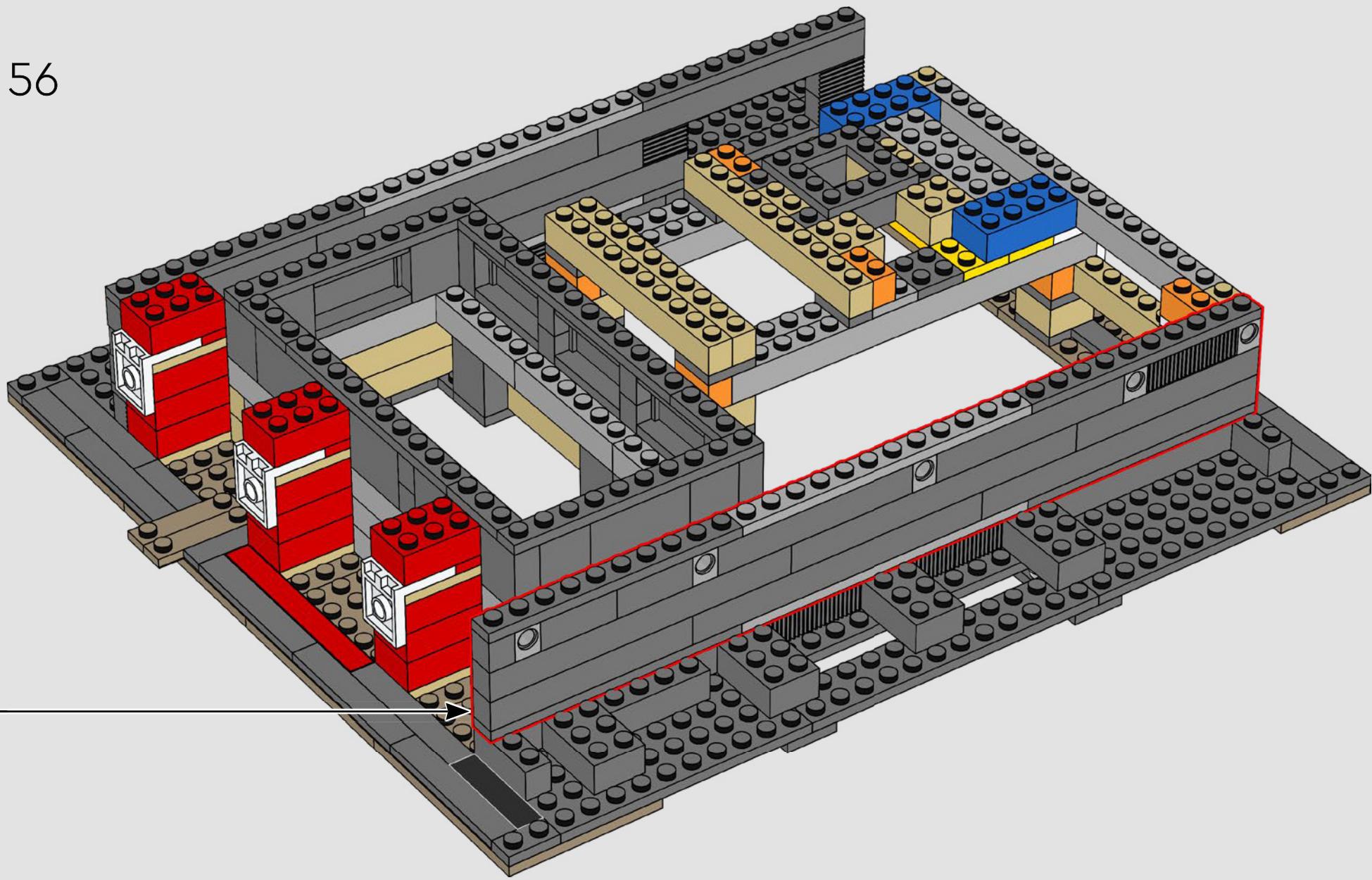
54

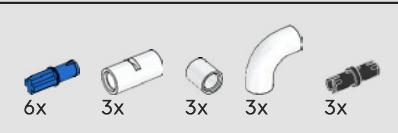


55

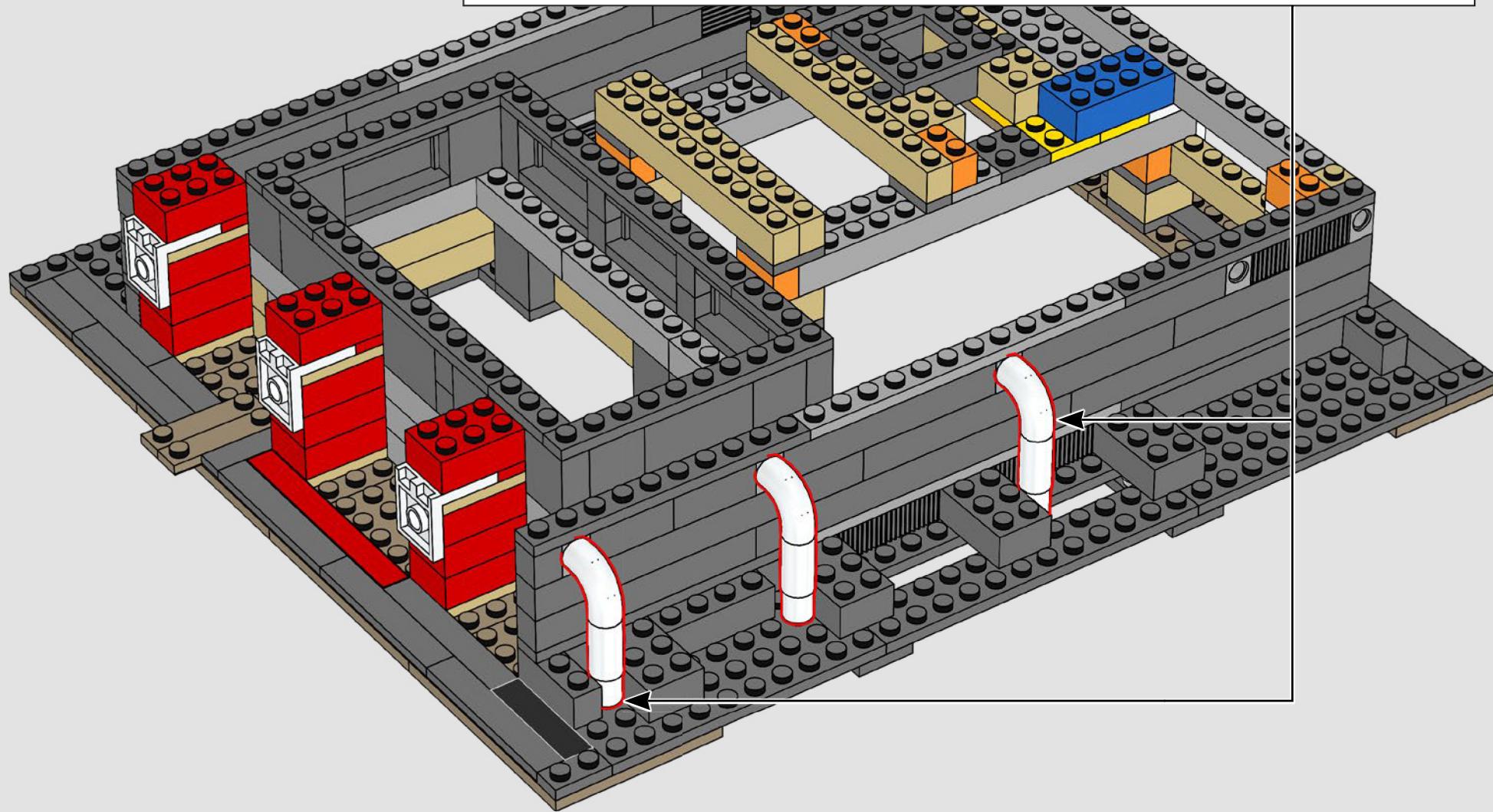


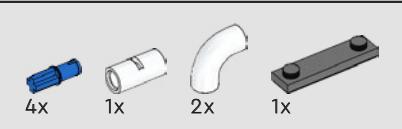
56



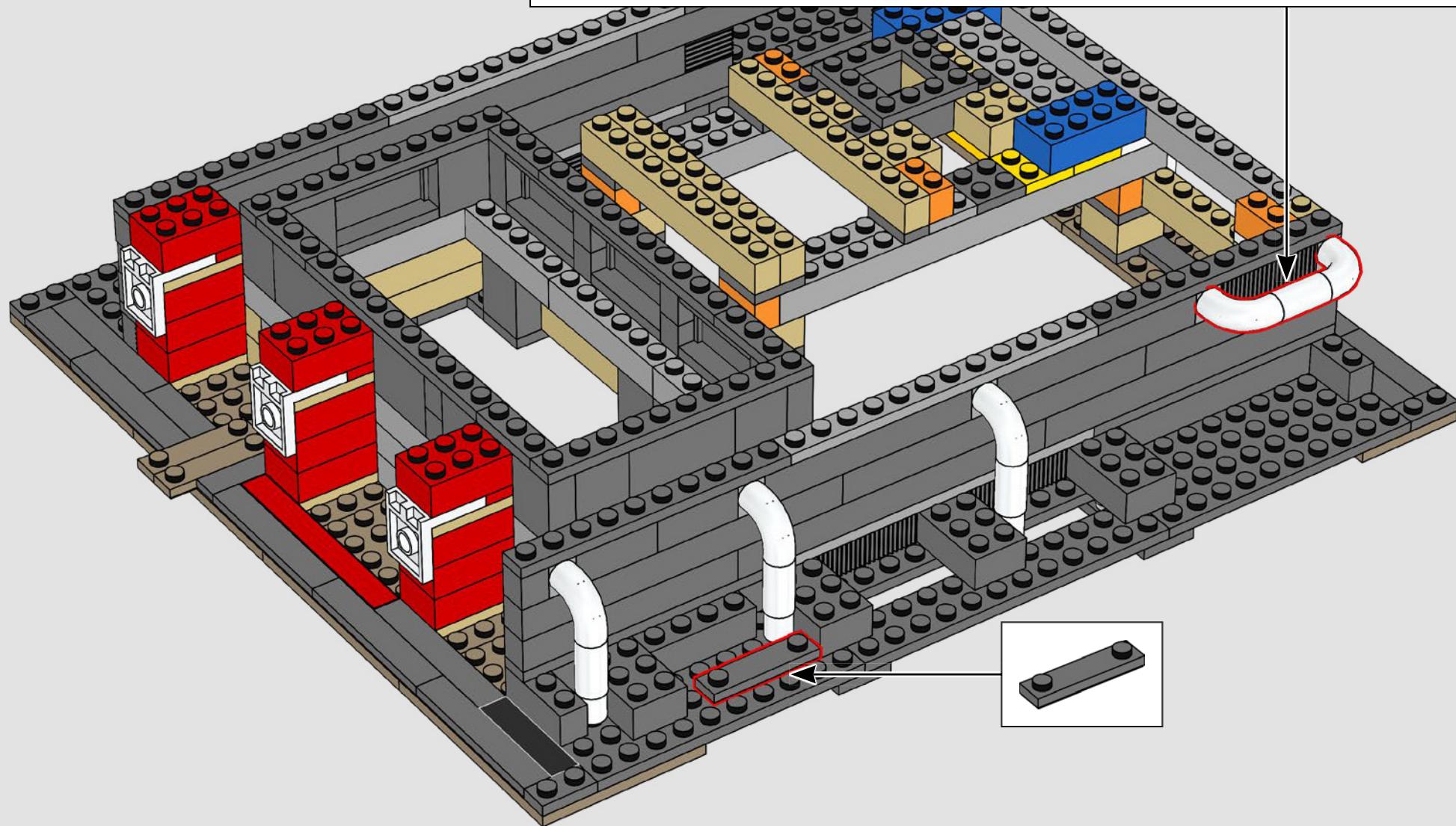
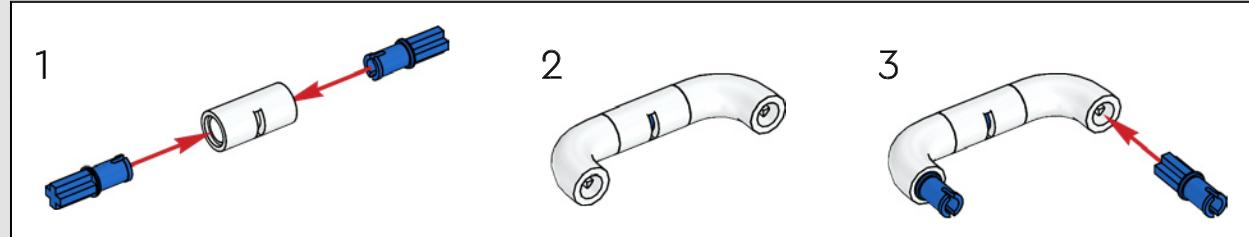


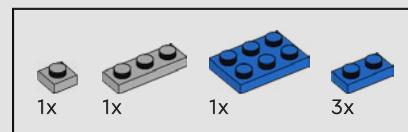
57



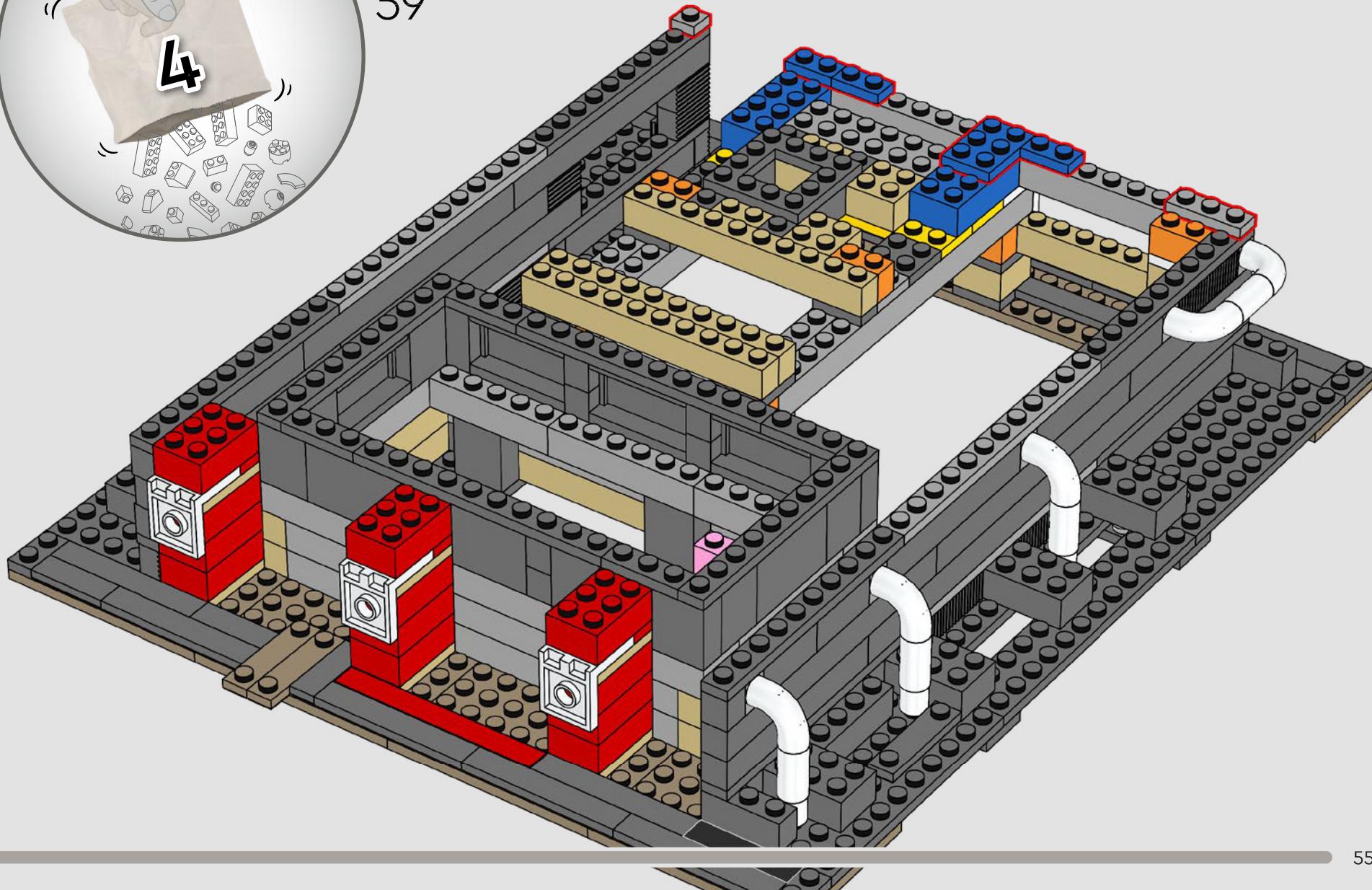


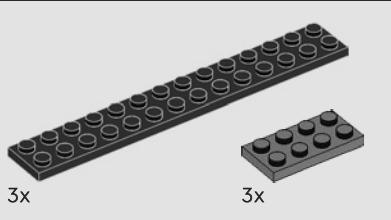
58



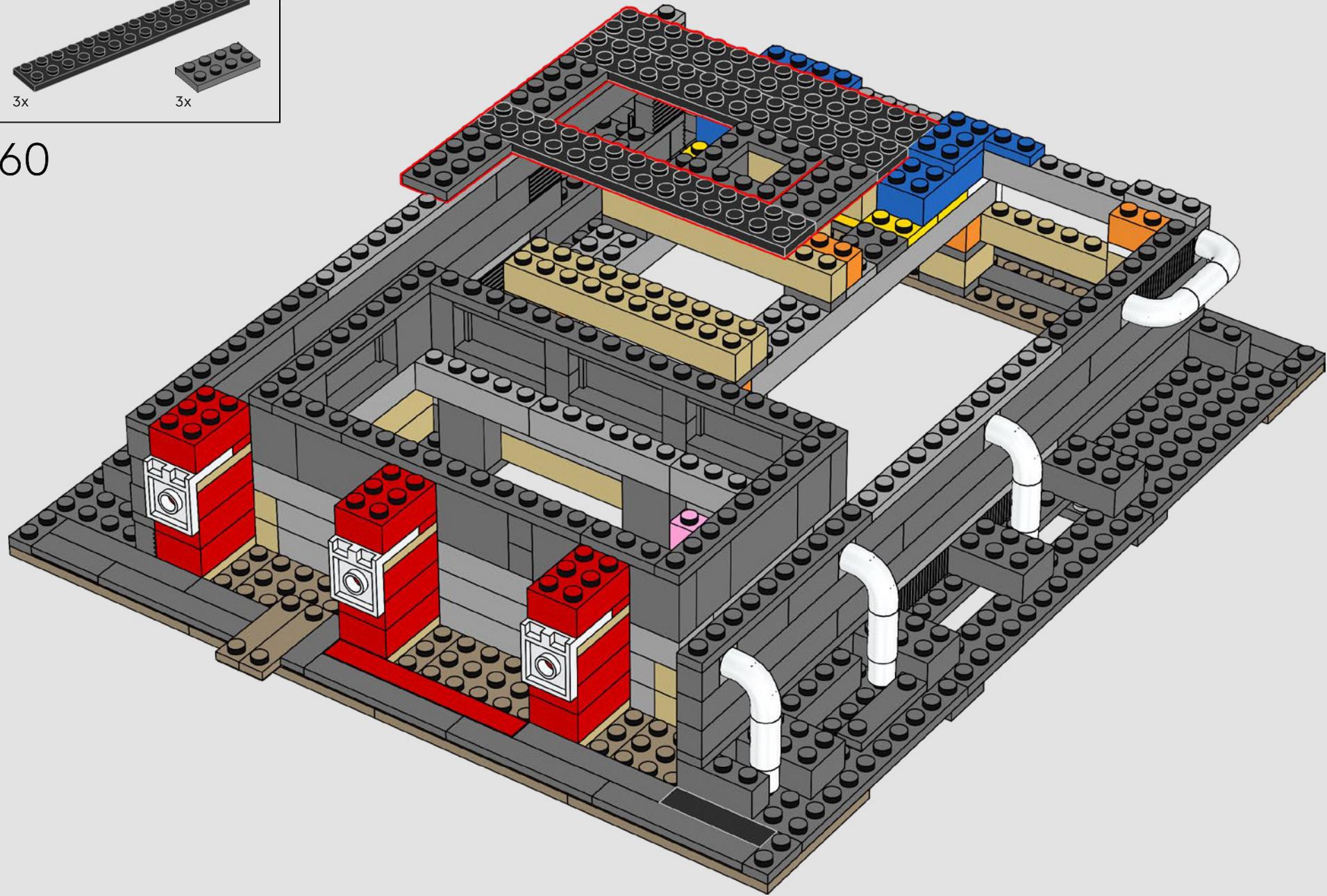


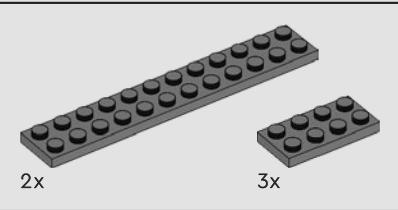
59



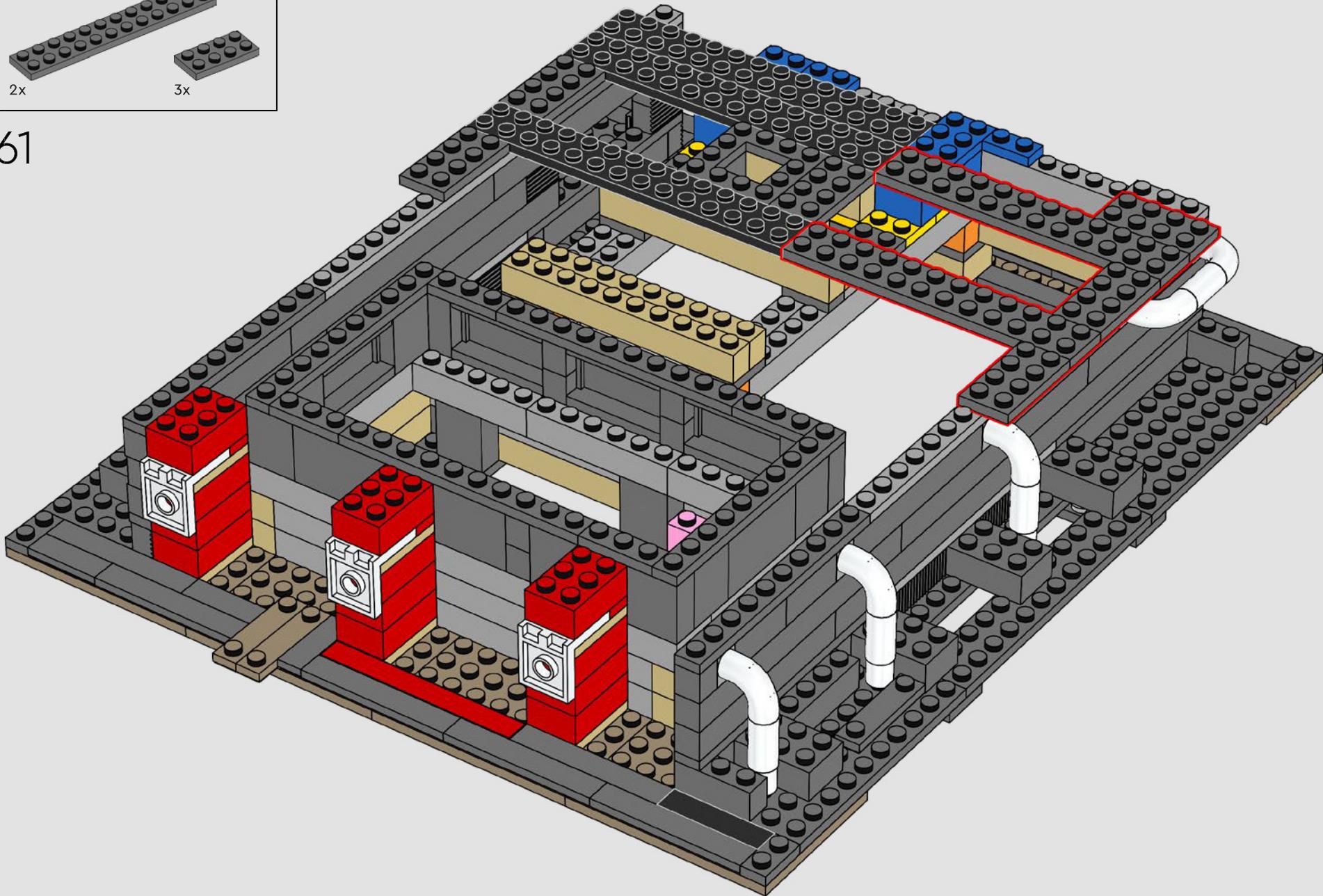


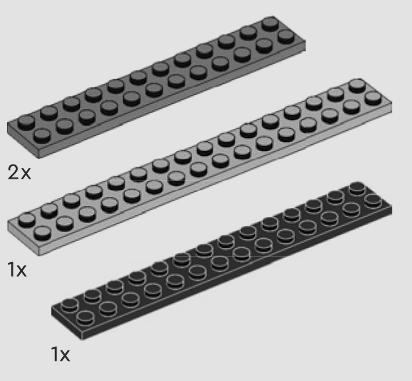
60



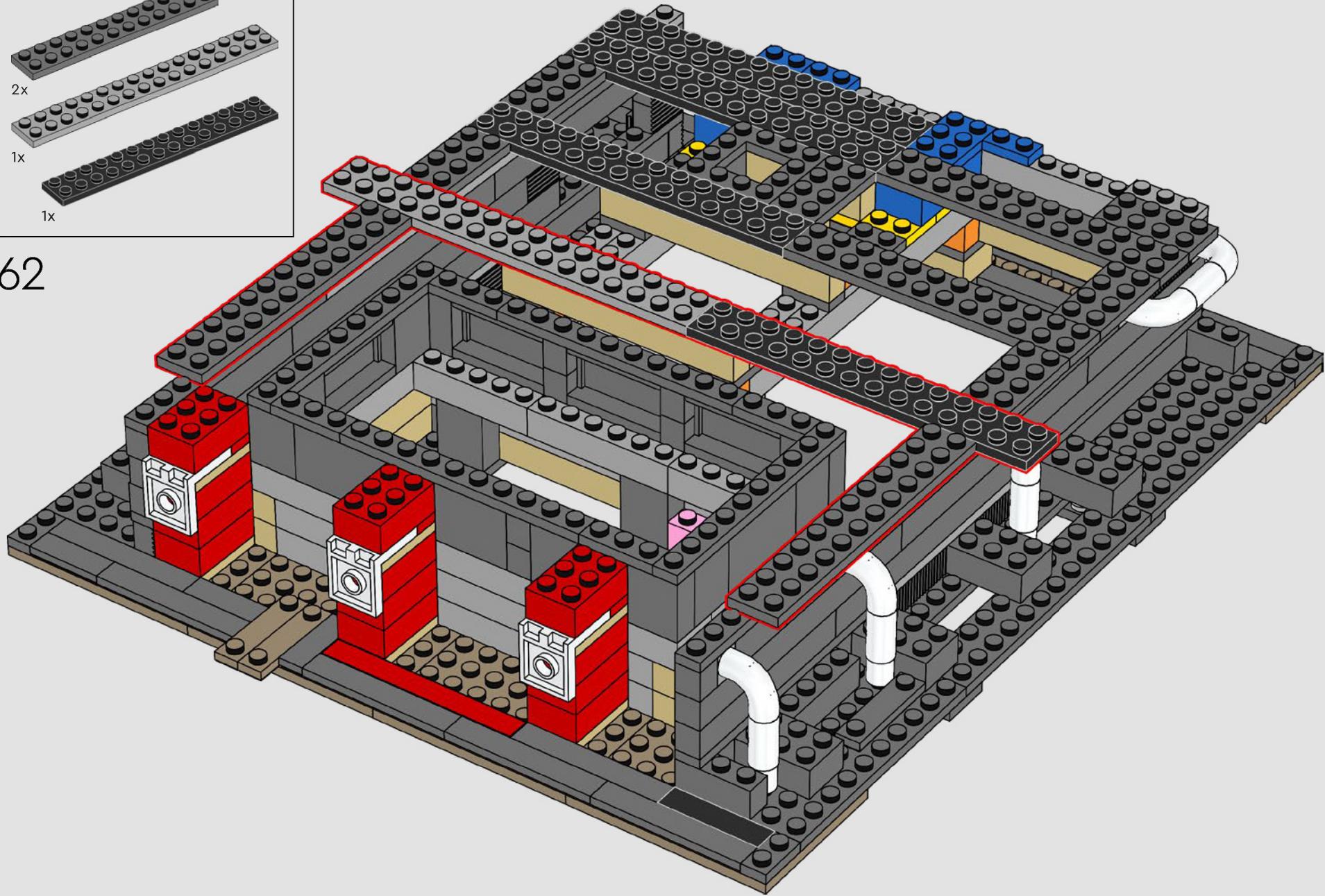


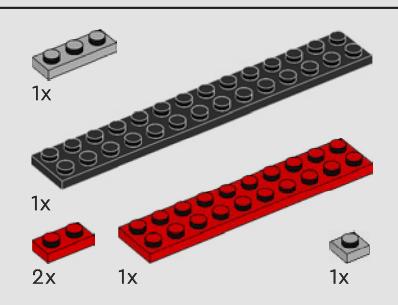
61



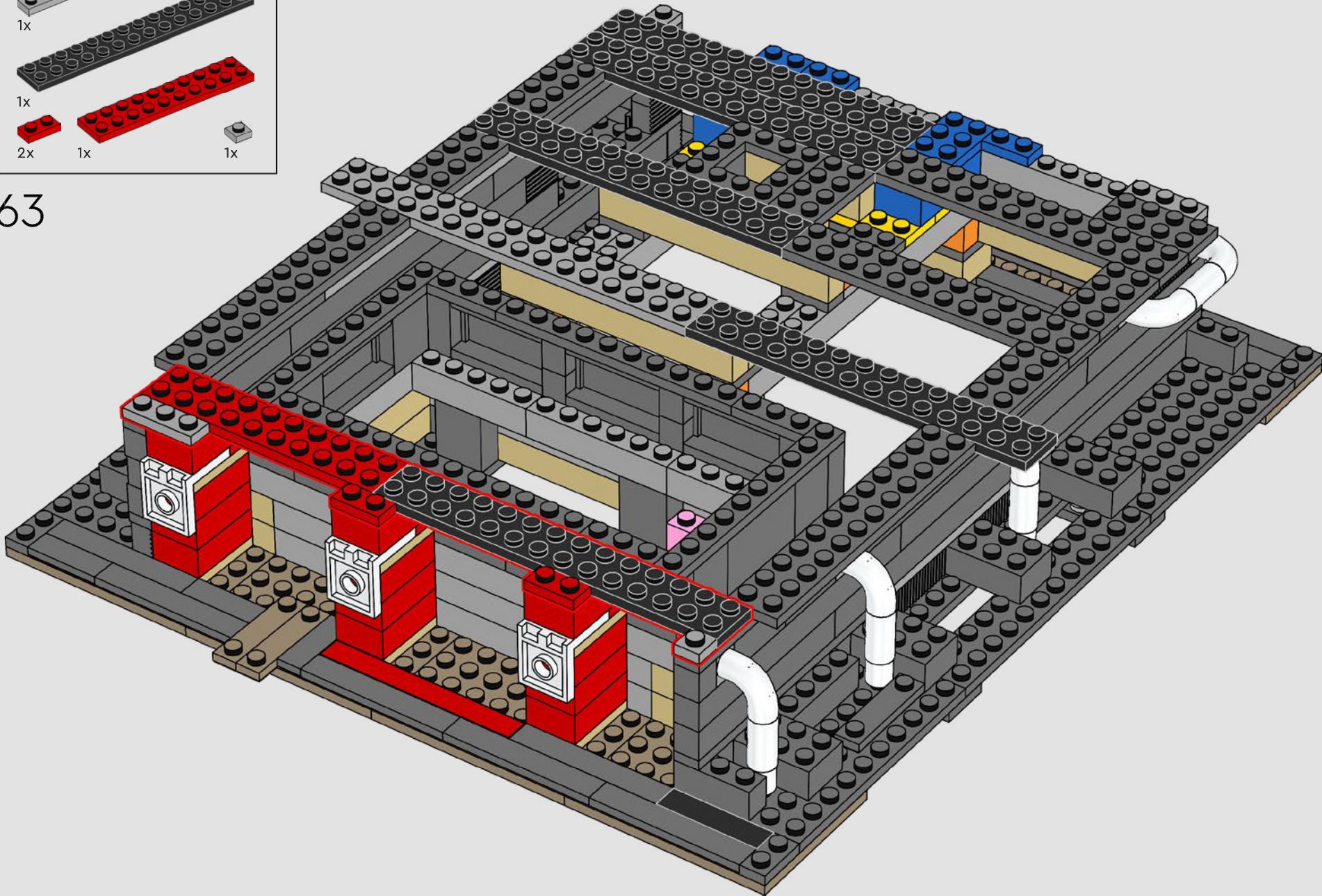


62

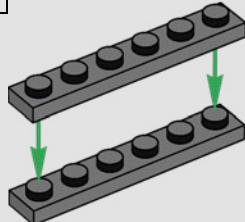
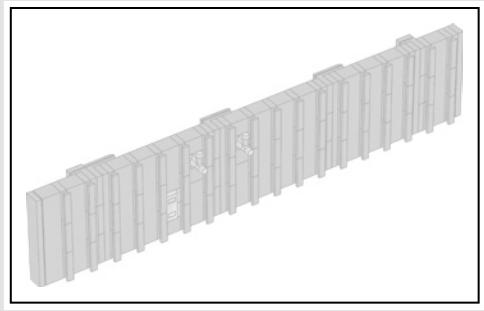




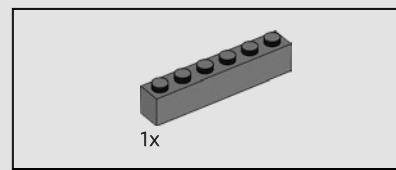
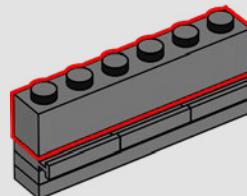
63



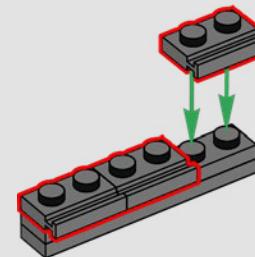
64



66

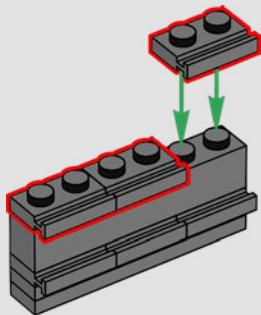


65

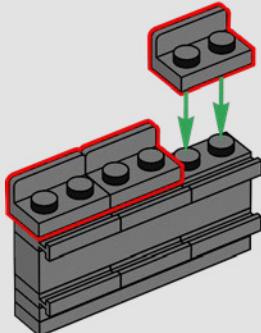




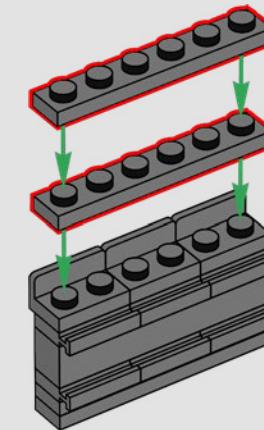
67



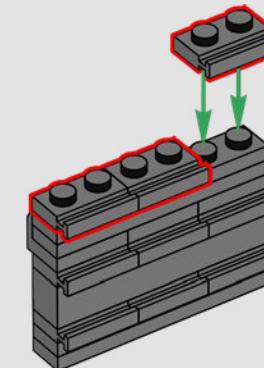
68

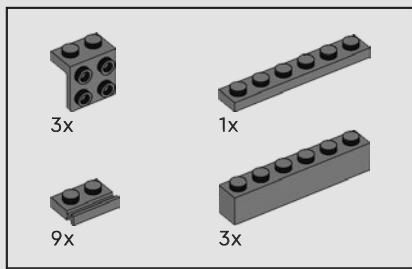


69



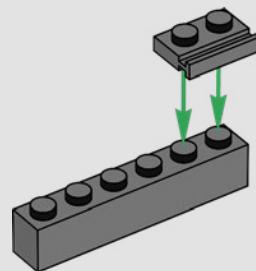
70



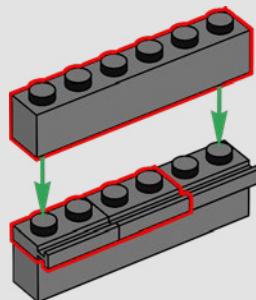


71

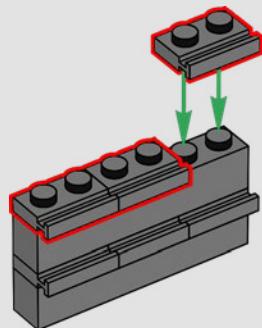
1



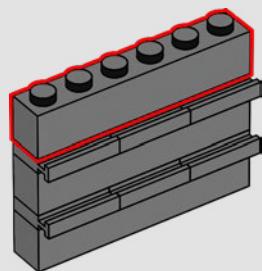
2



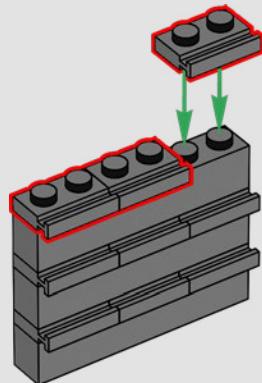
3



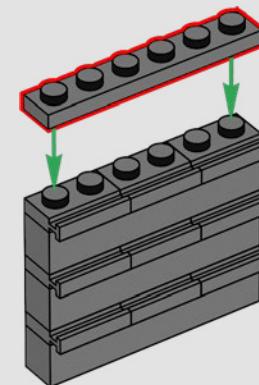
4



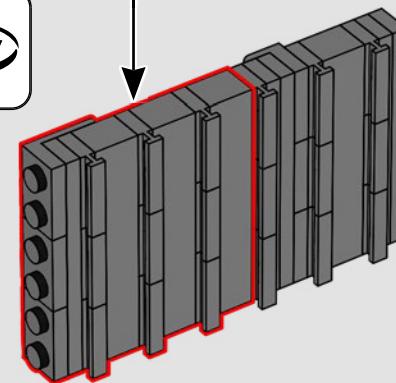
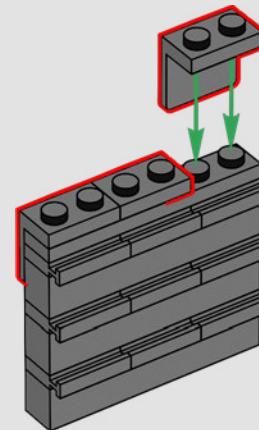
5

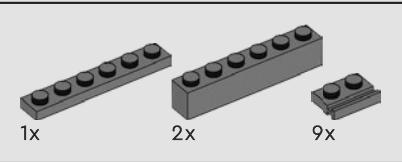


6



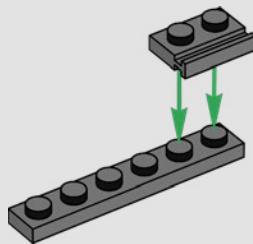
7



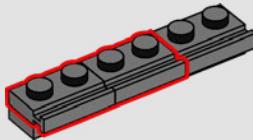


72

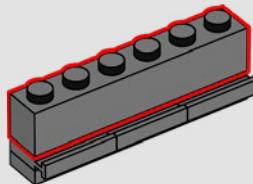
1



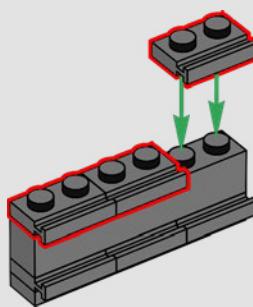
2



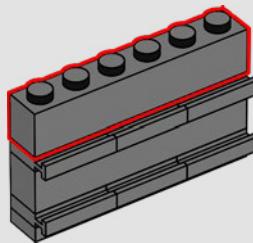
3



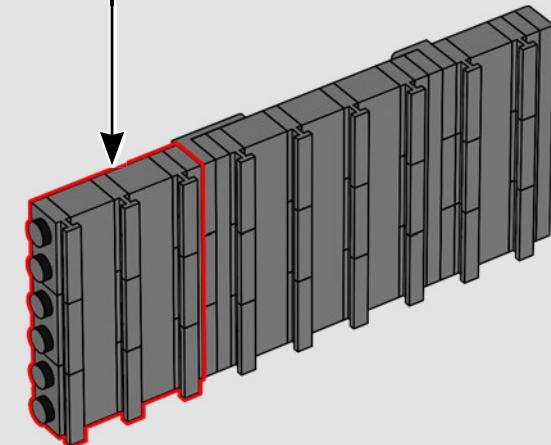
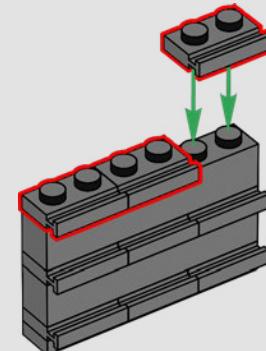
4

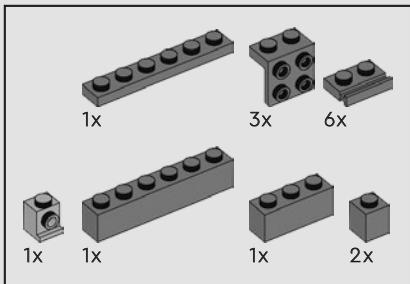


5

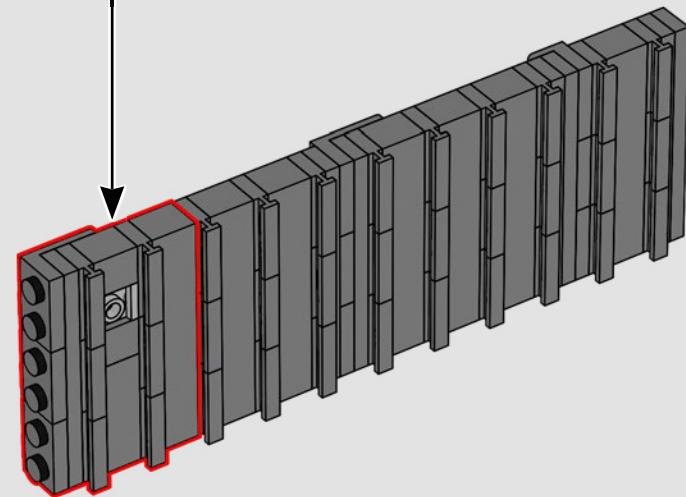
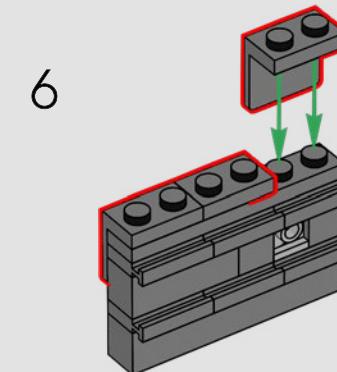
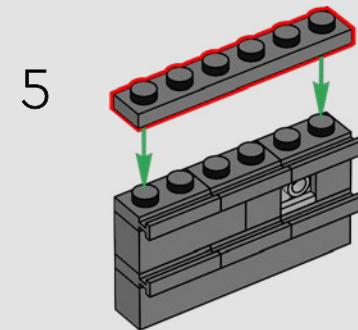
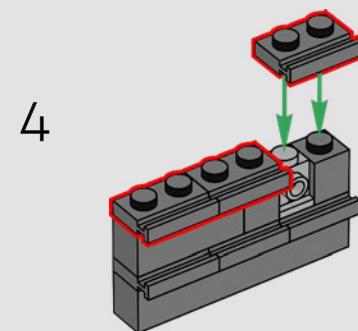
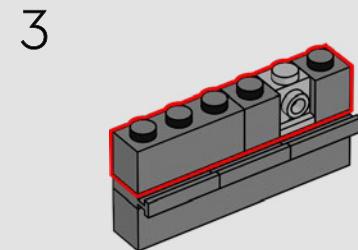
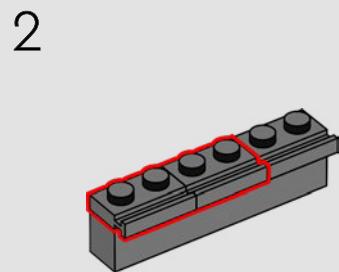
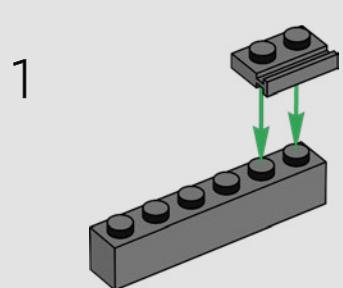


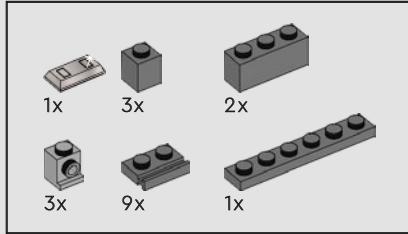
6



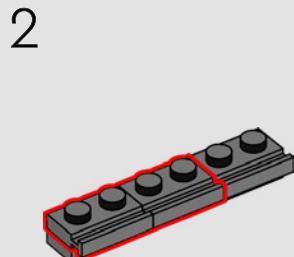
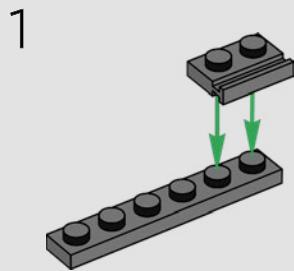


73

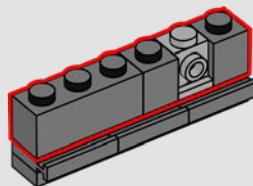




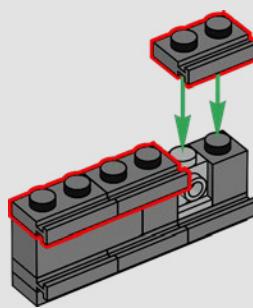
74



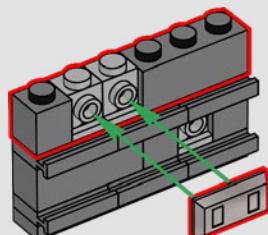
3



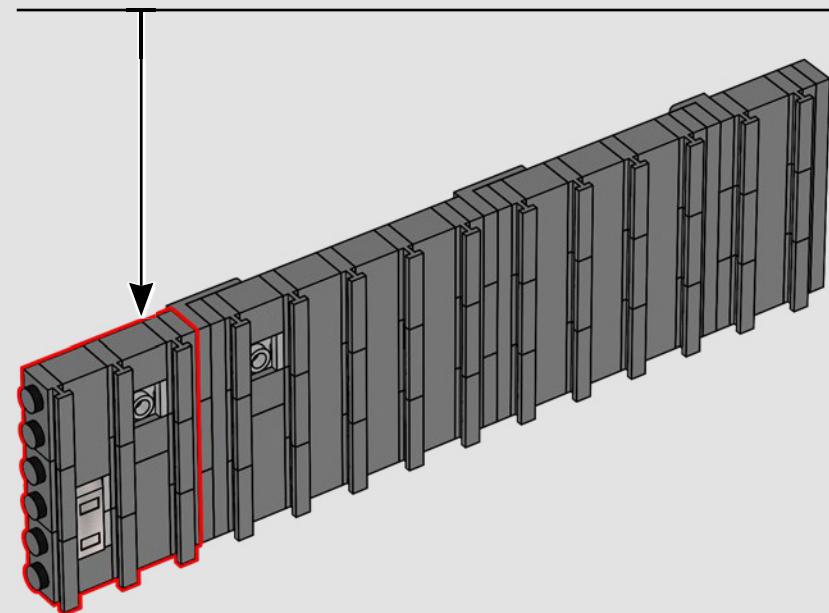
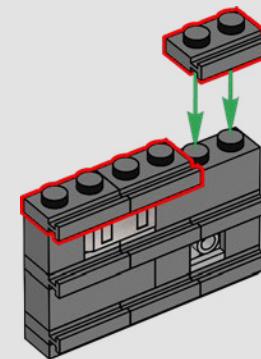
4

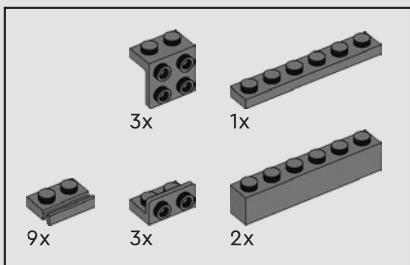


5



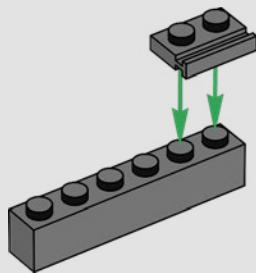
6



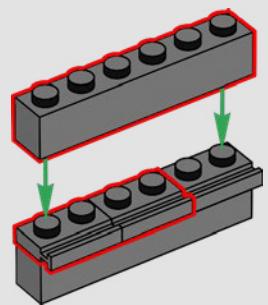


75

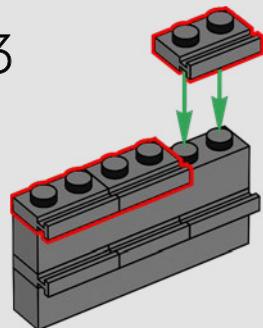
1



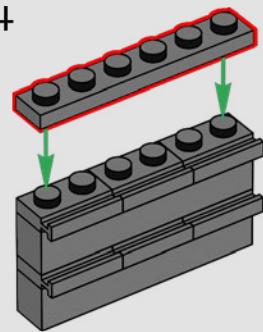
2



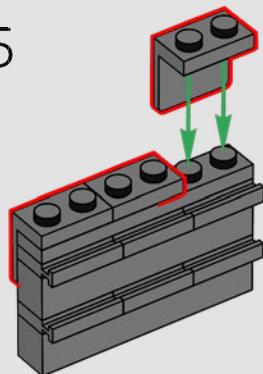
3



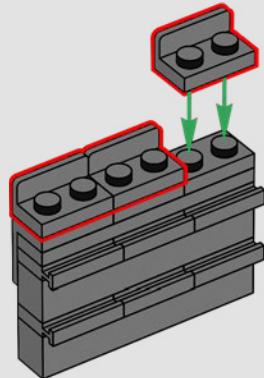
4



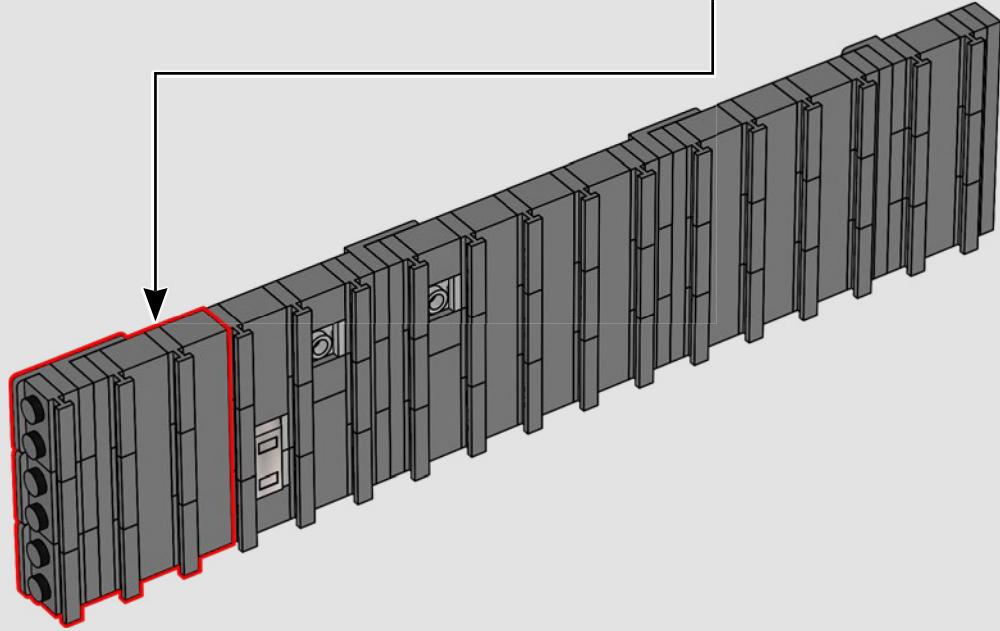
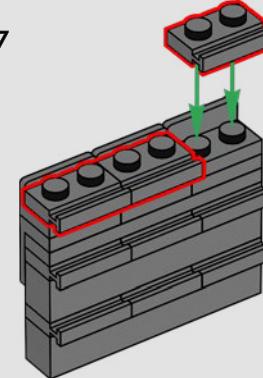
5

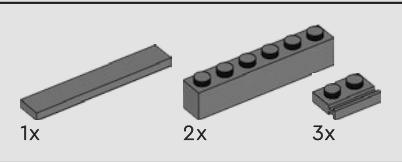


6

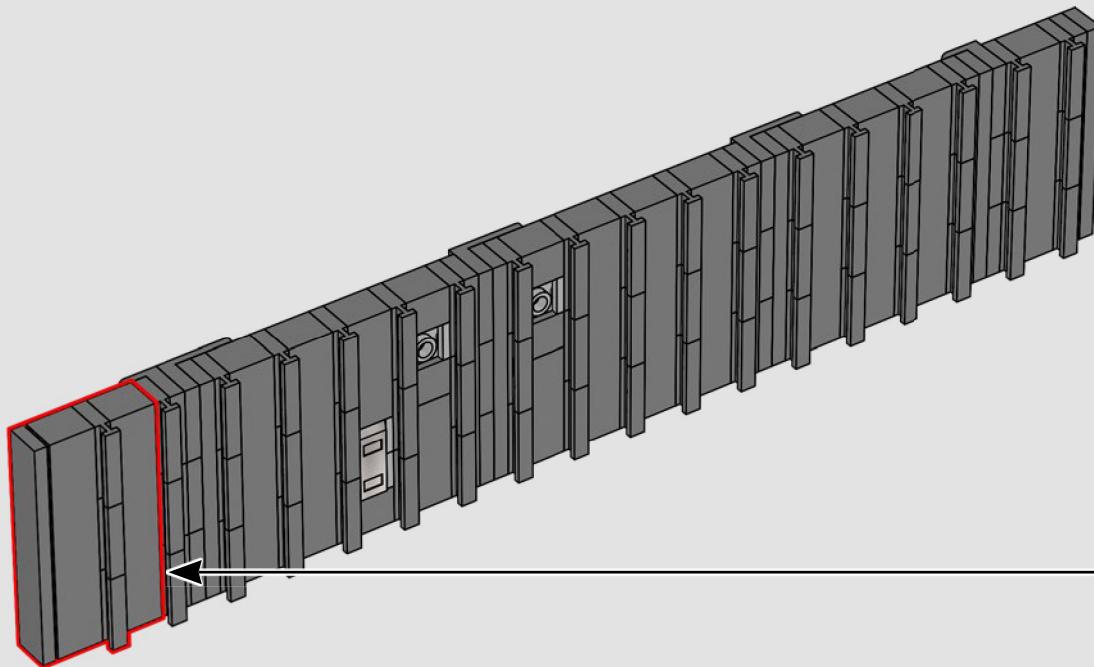
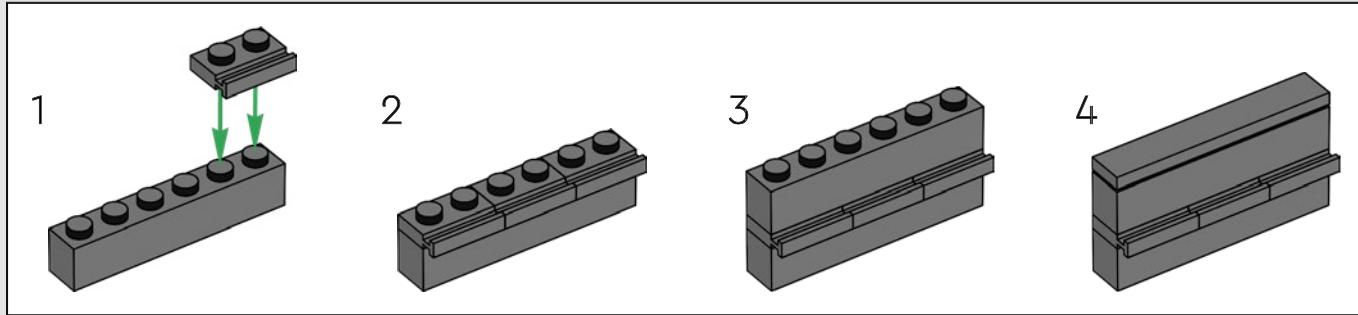


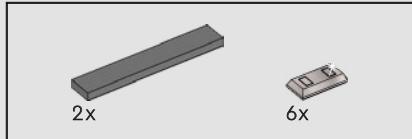
7



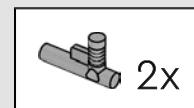
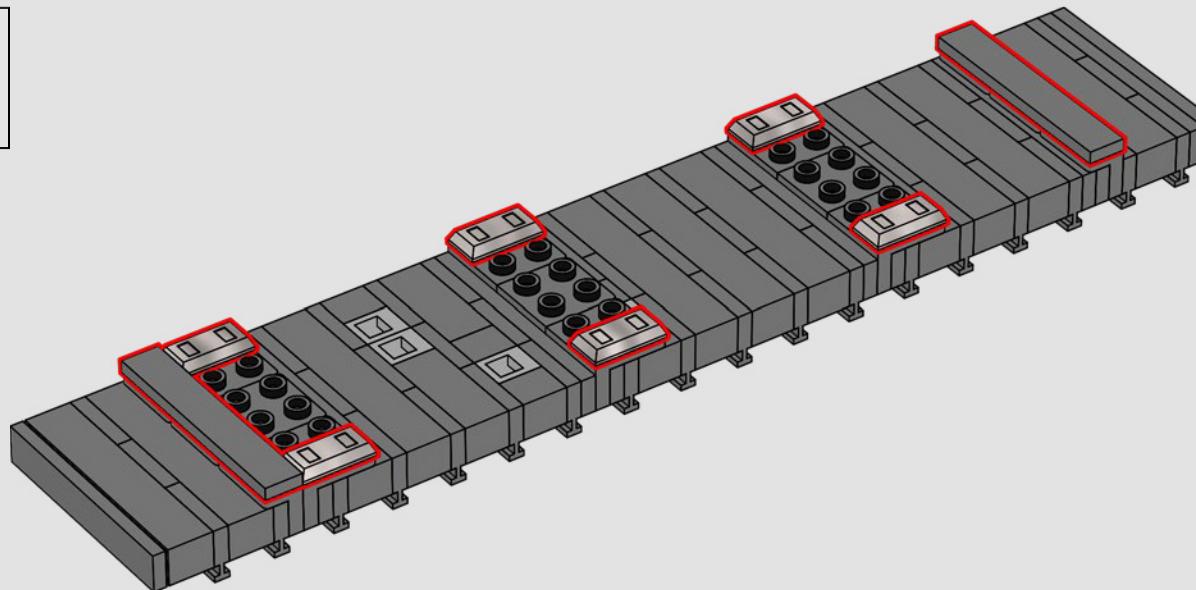
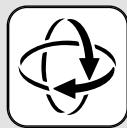


76

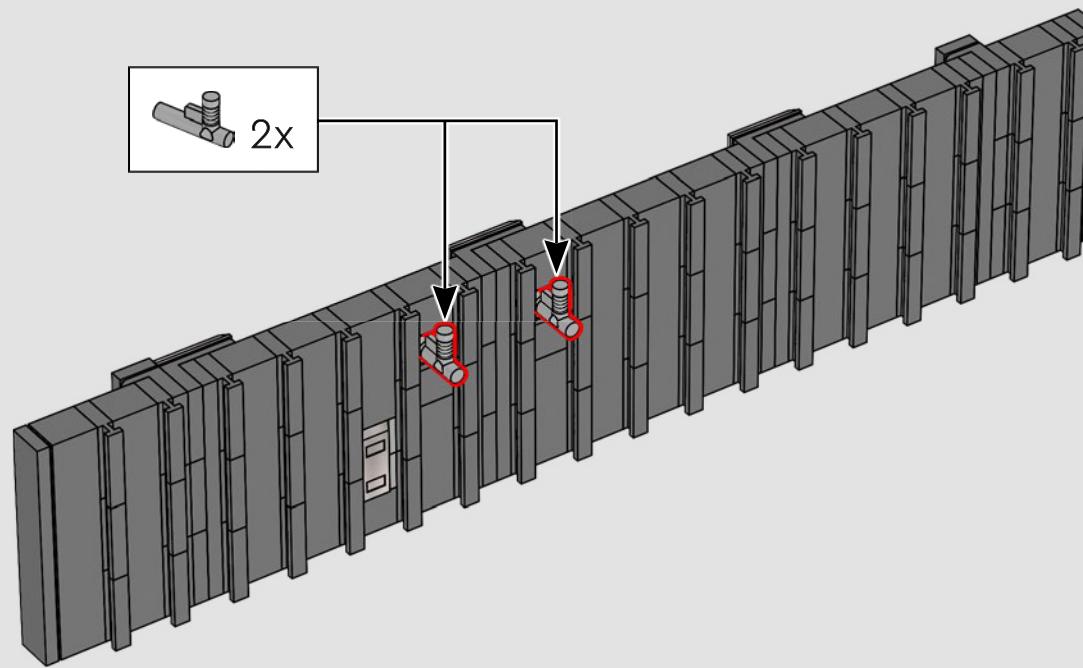




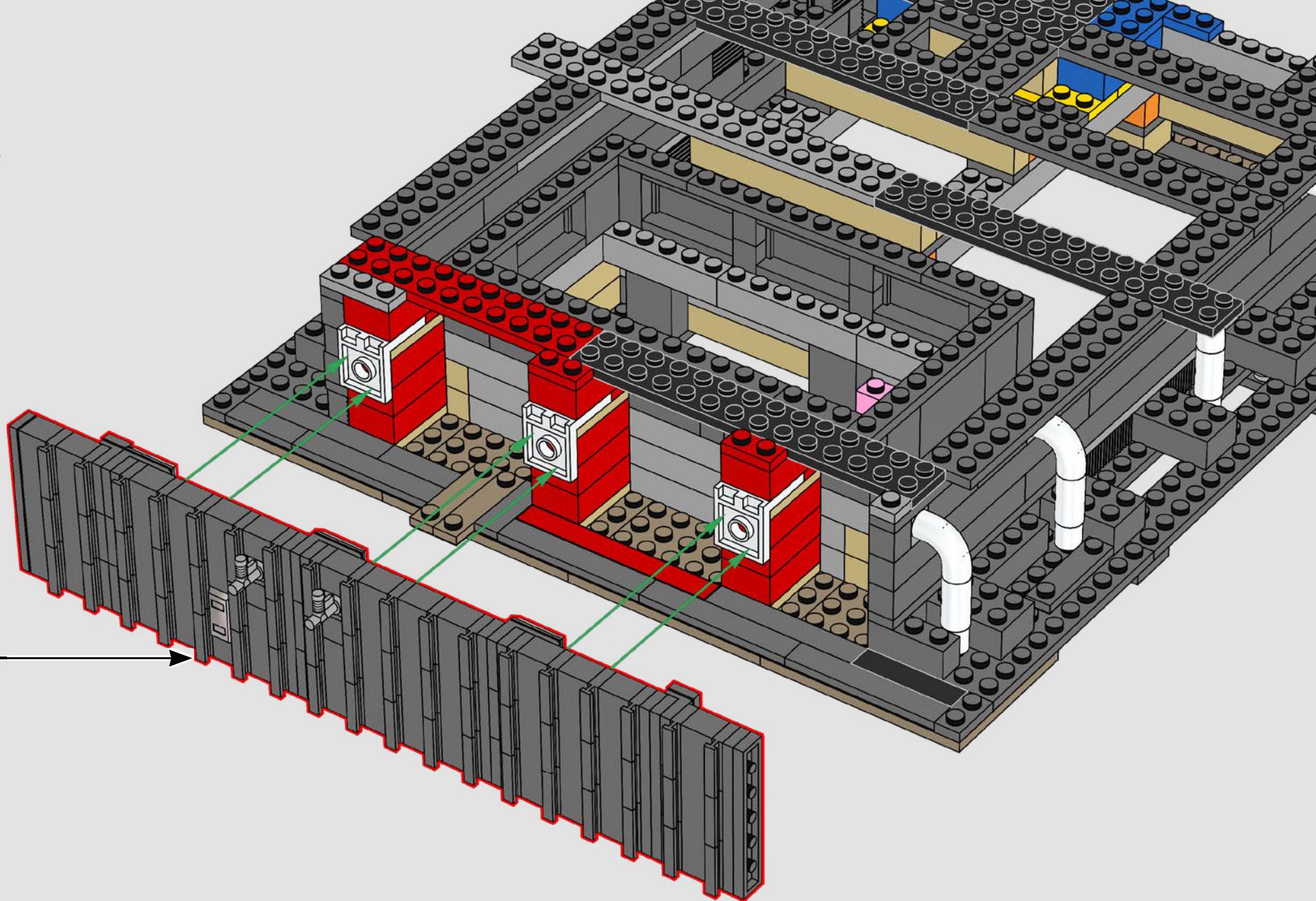
77

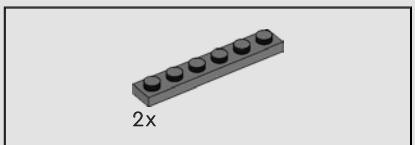
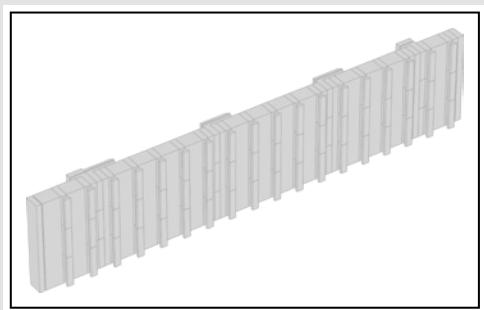


78

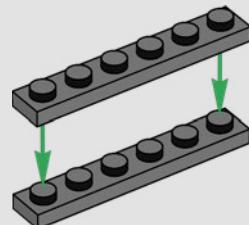


79





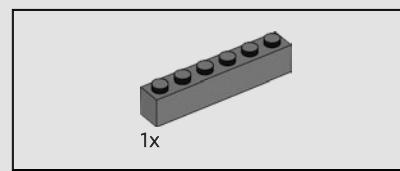
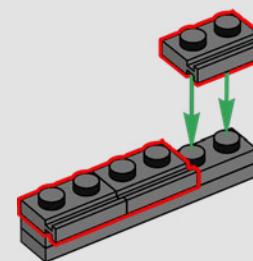
79



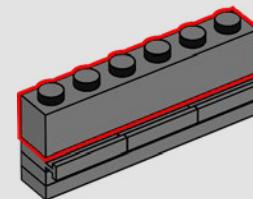
70



81

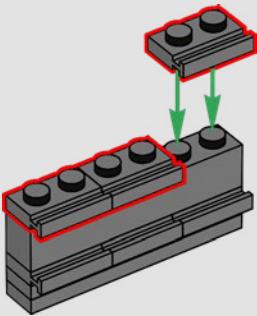


82

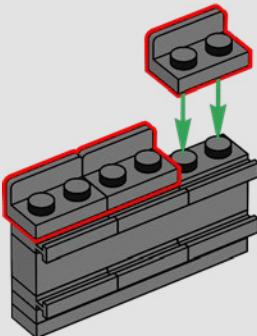




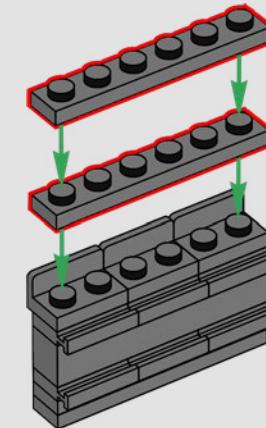
83



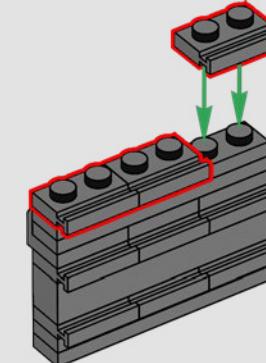
84



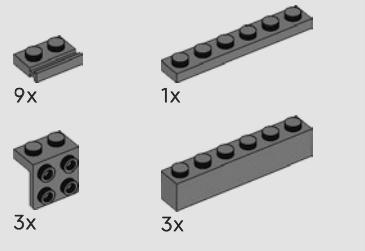
85



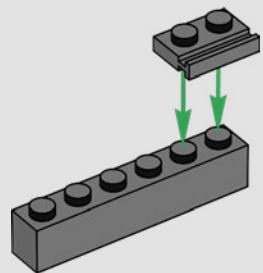
86



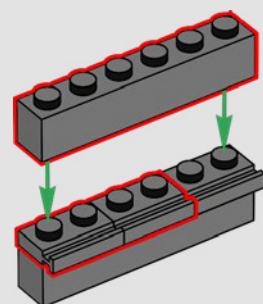
87



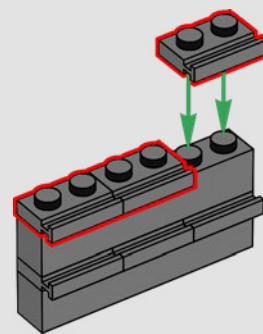
1



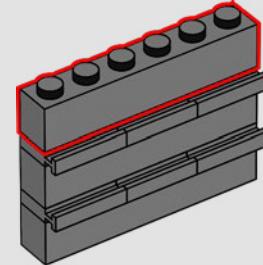
2



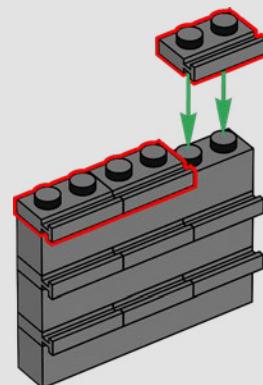
3



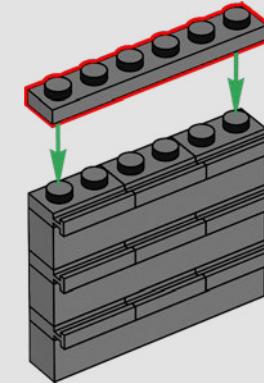
4



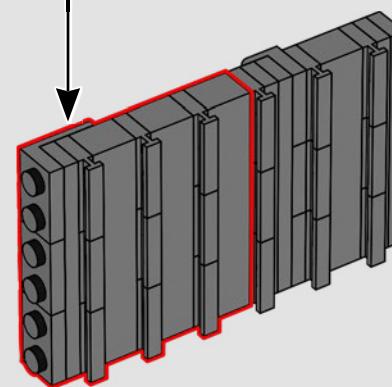
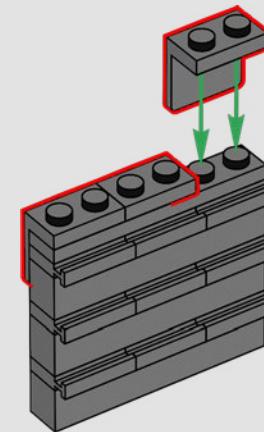
5

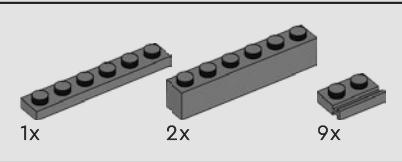


6



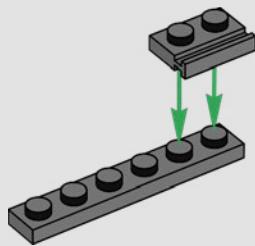
7



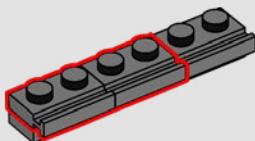


88

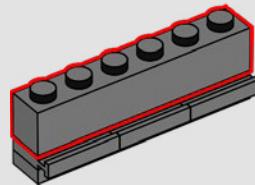
1



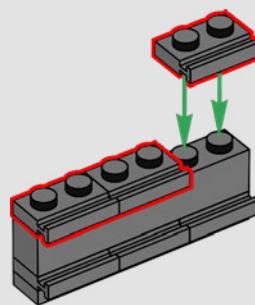
2



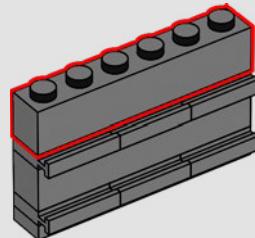
3



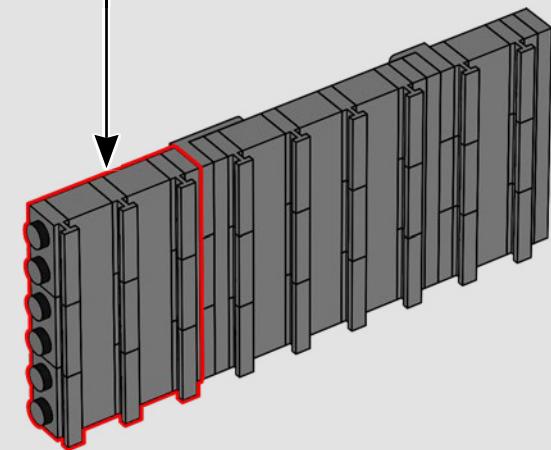
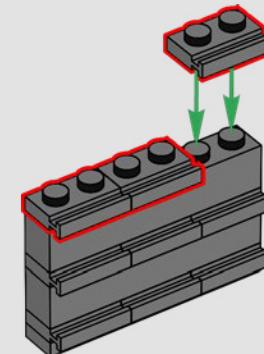
4

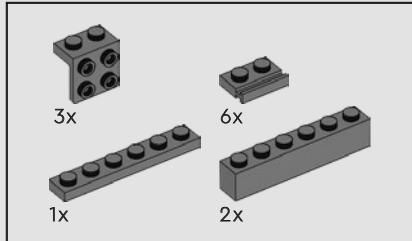


5

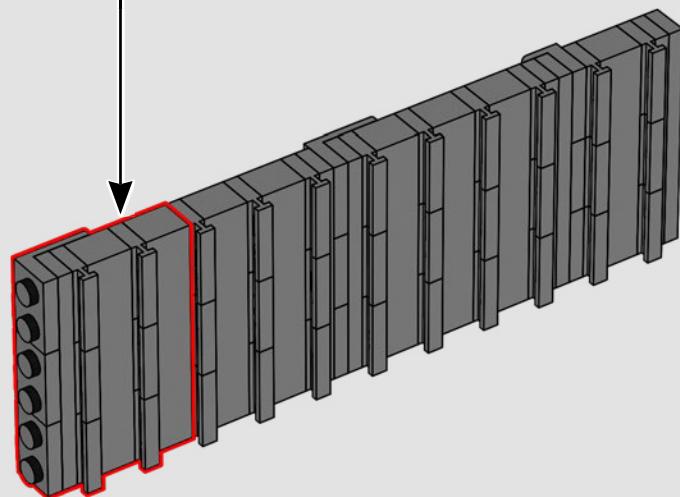
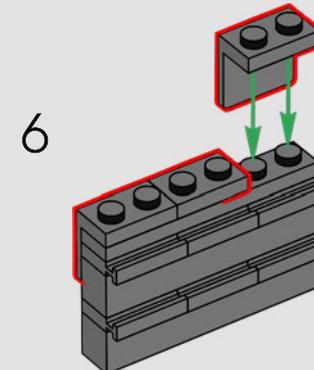
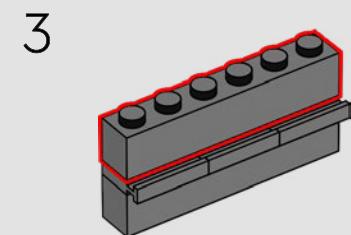
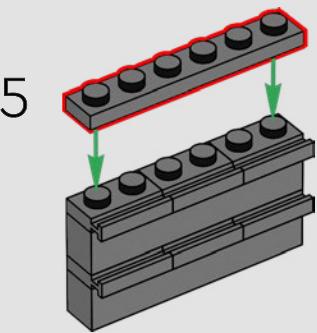
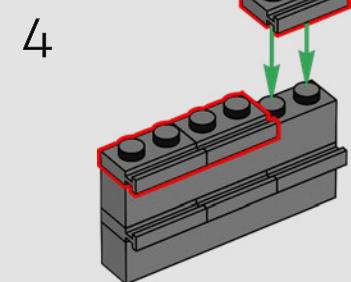
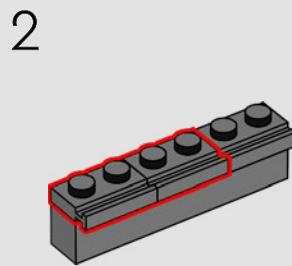
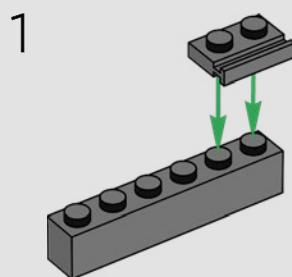


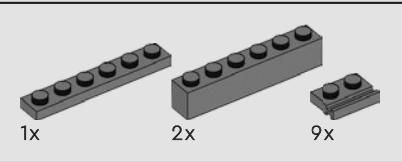
6



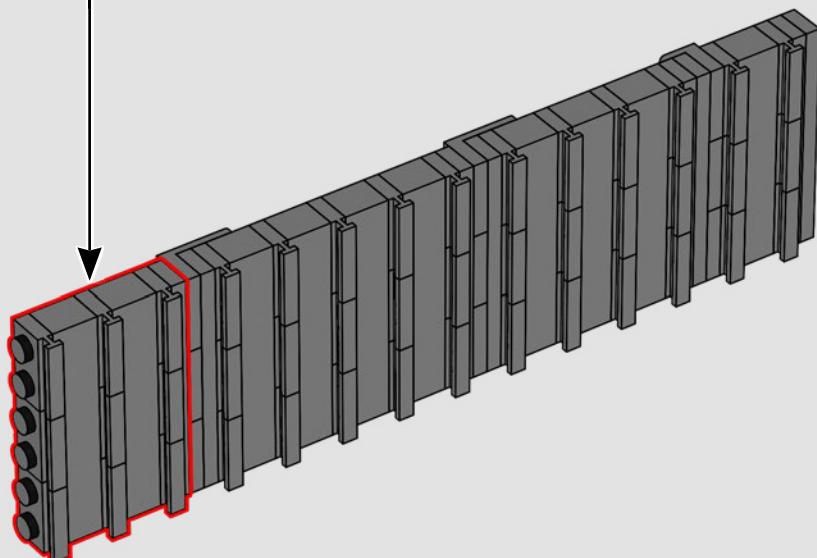
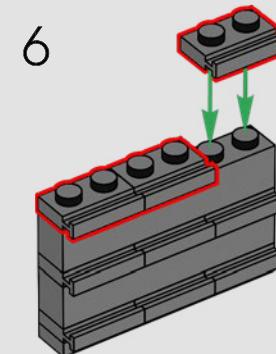
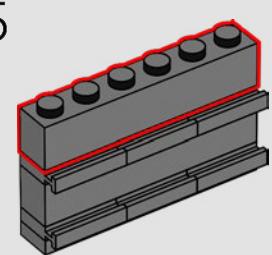
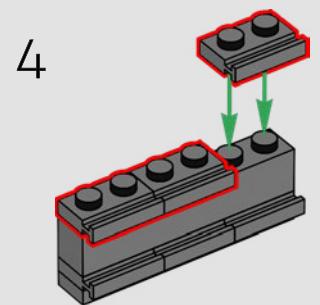
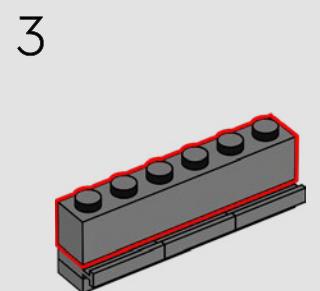
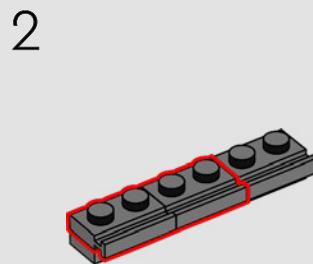
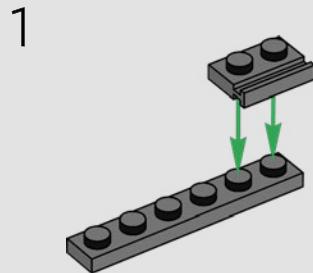


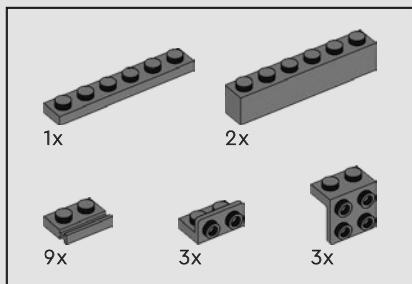
89





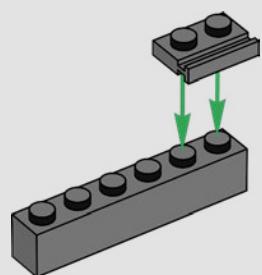
90



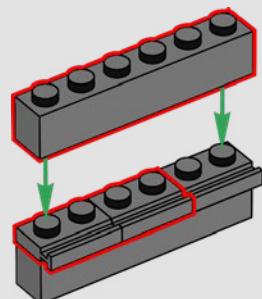


91

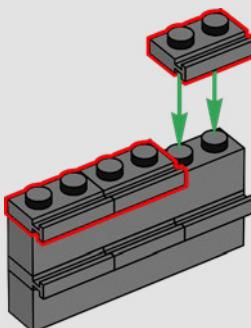
1



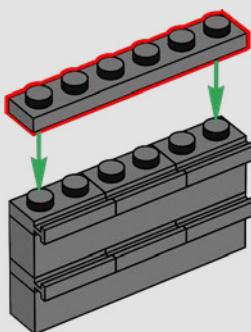
2



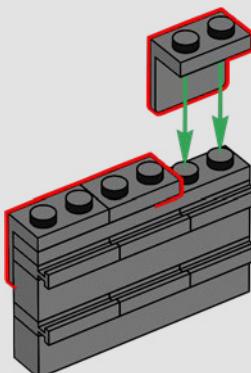
3



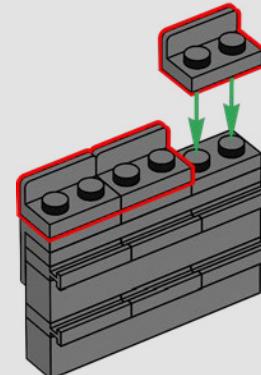
4



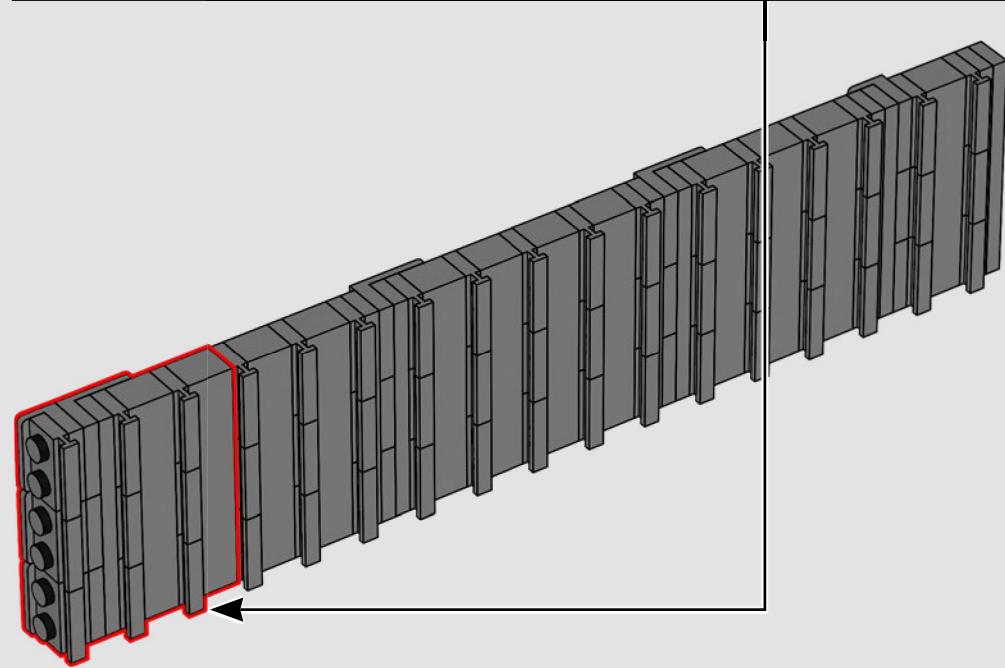
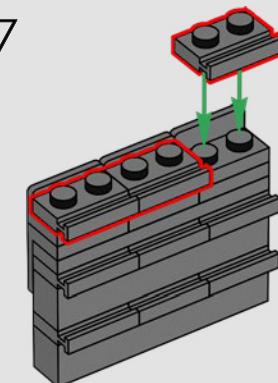
5

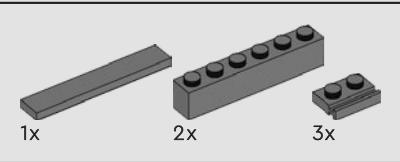


6

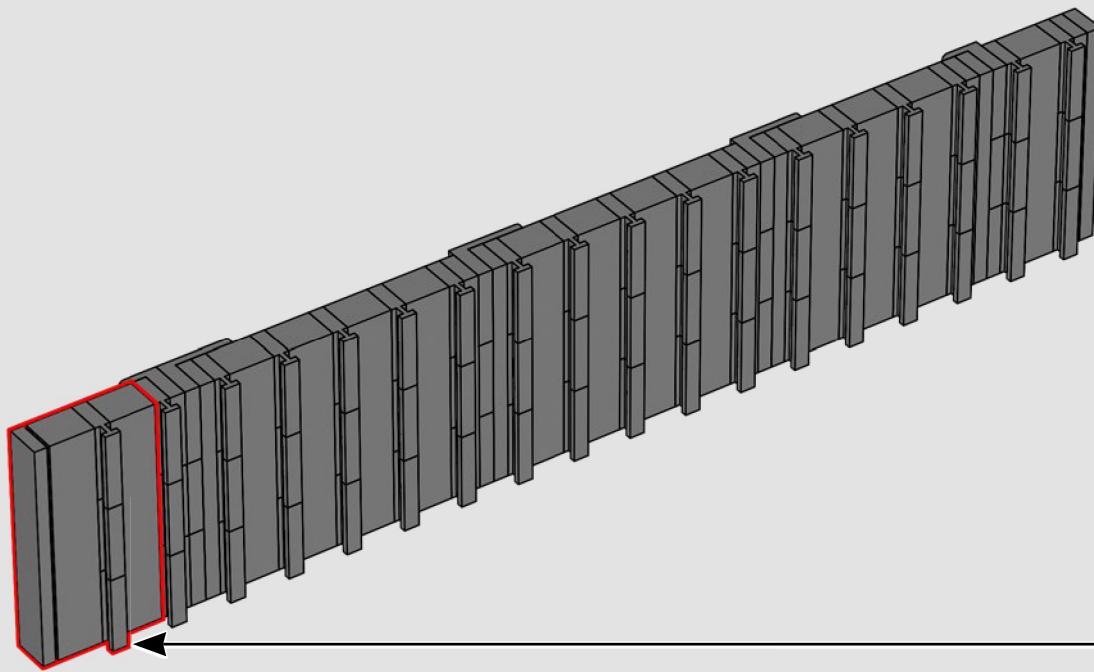
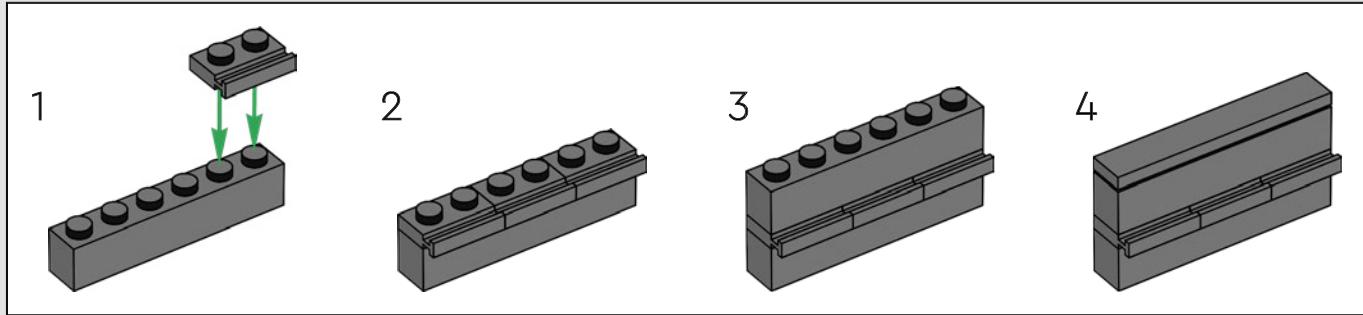


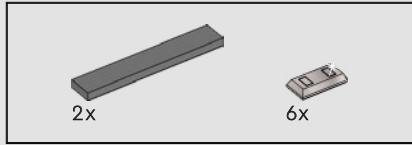
7



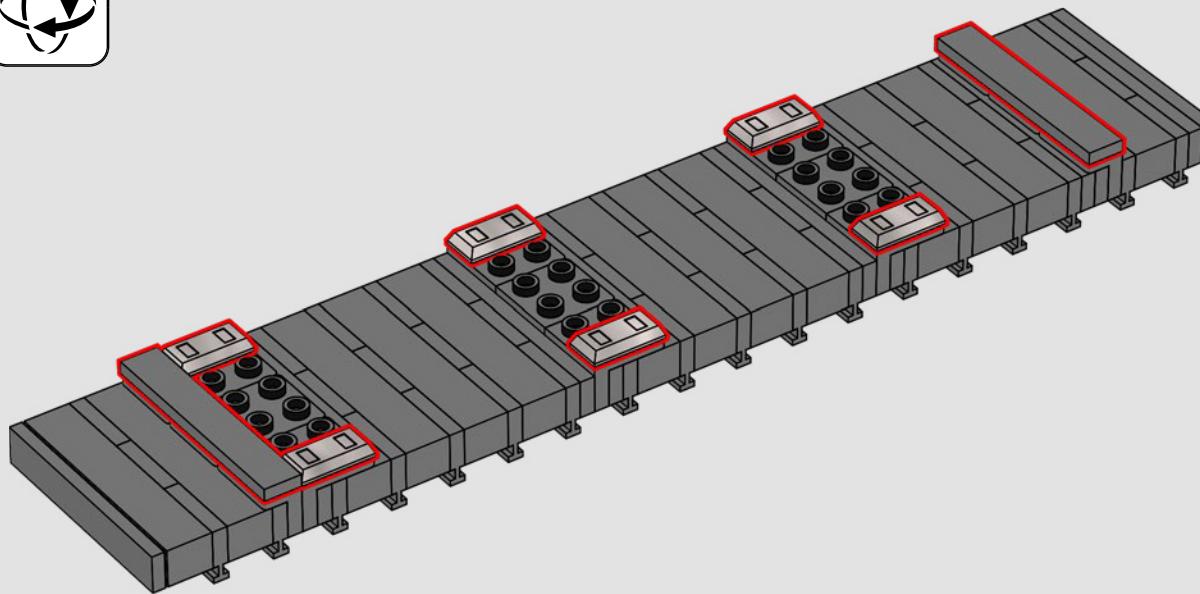
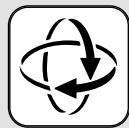


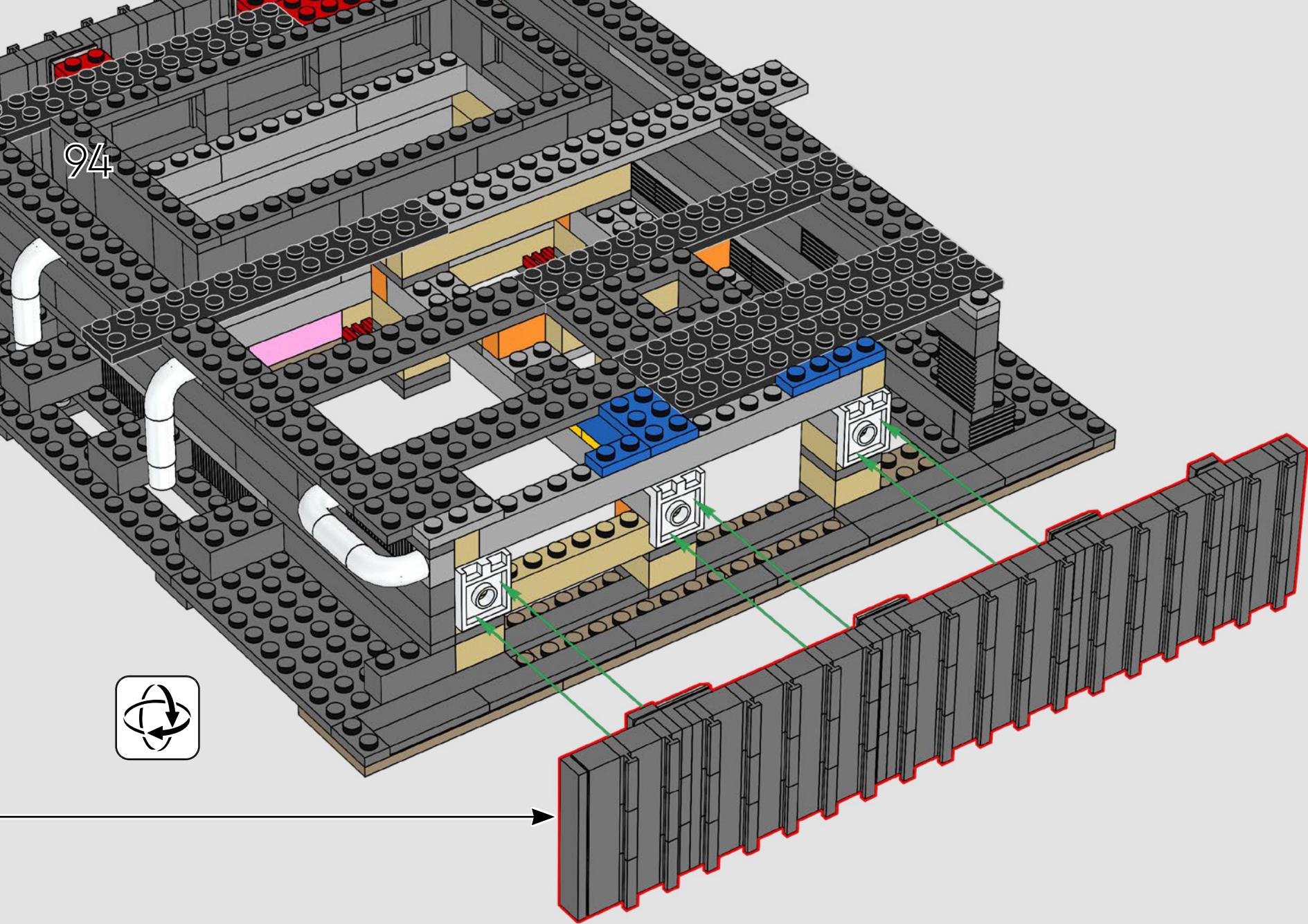
92

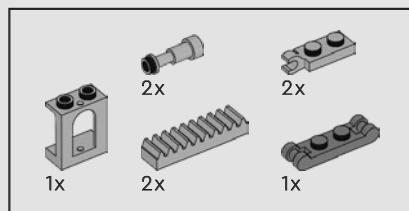




93

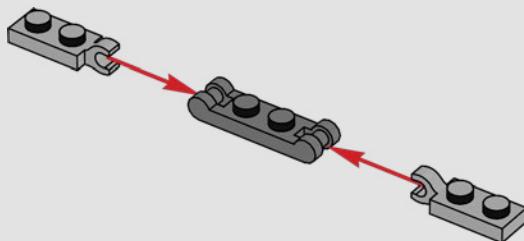




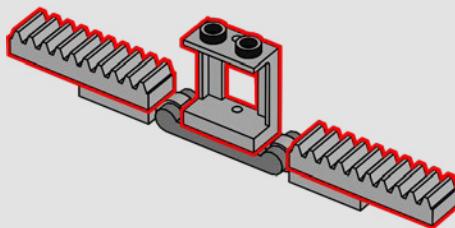


95

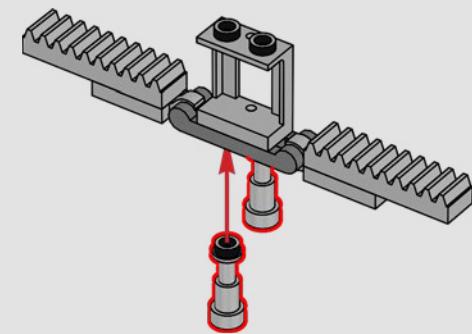
1



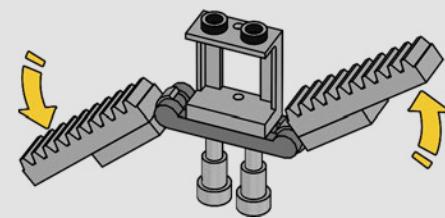
2

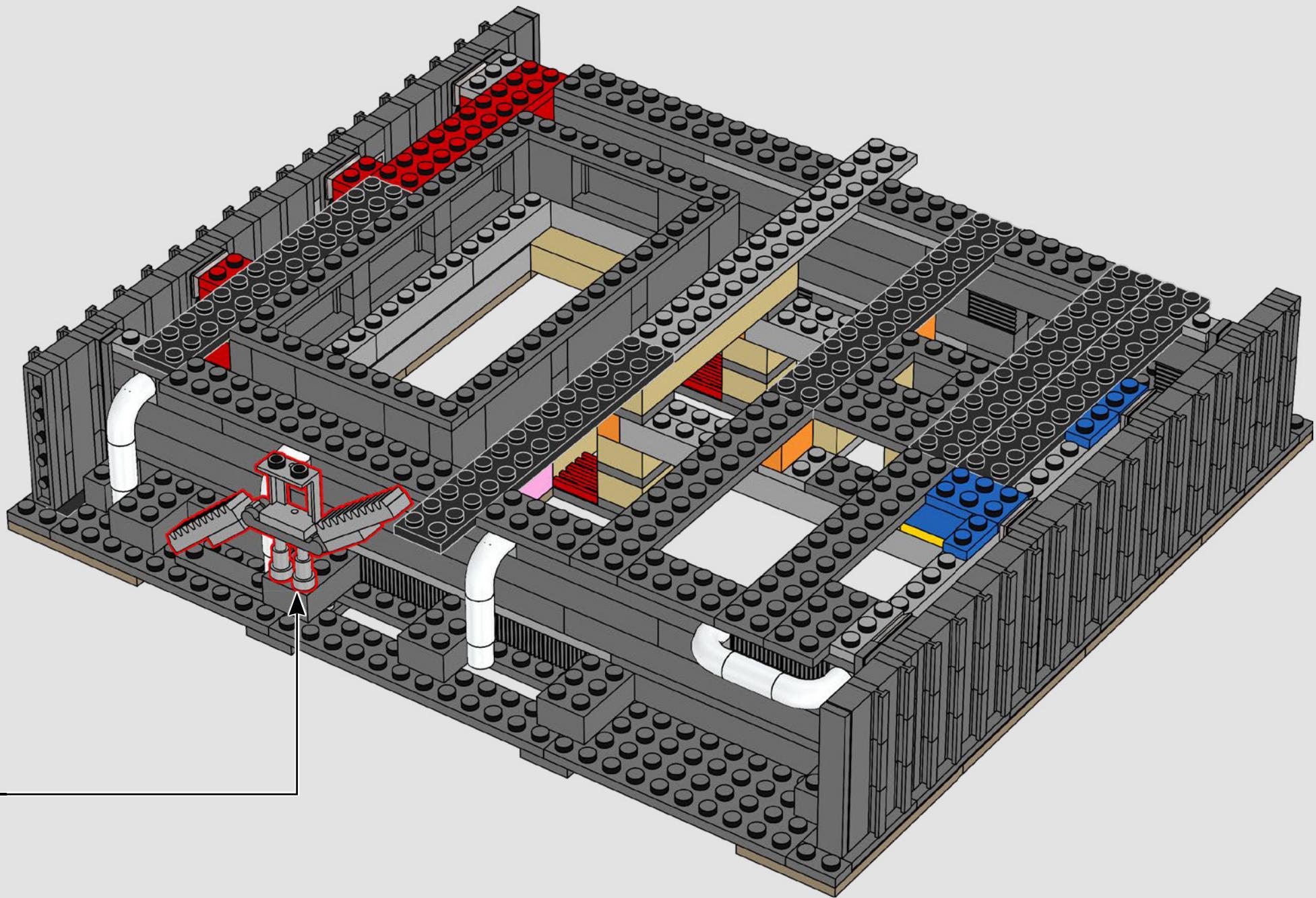


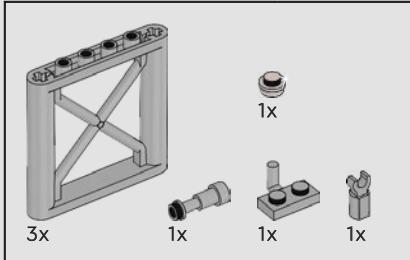
3



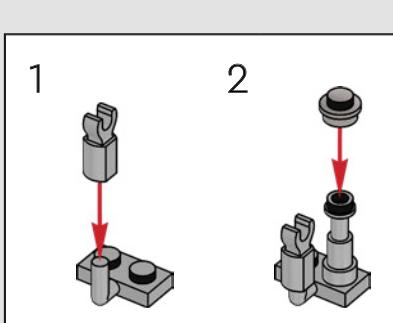
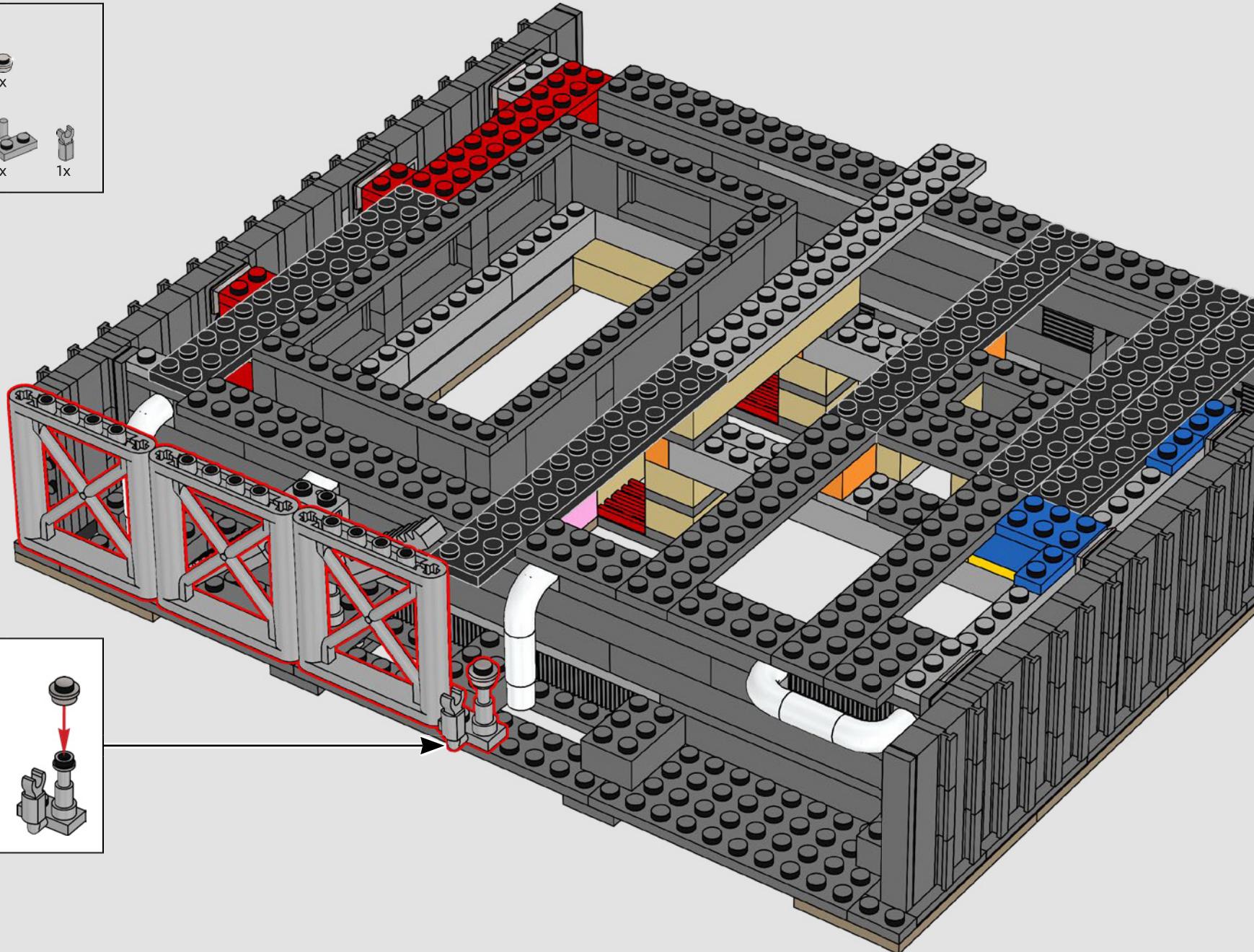
4

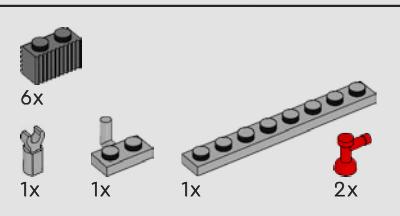




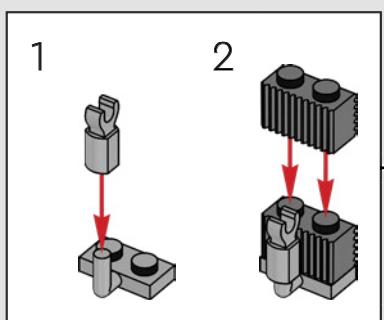
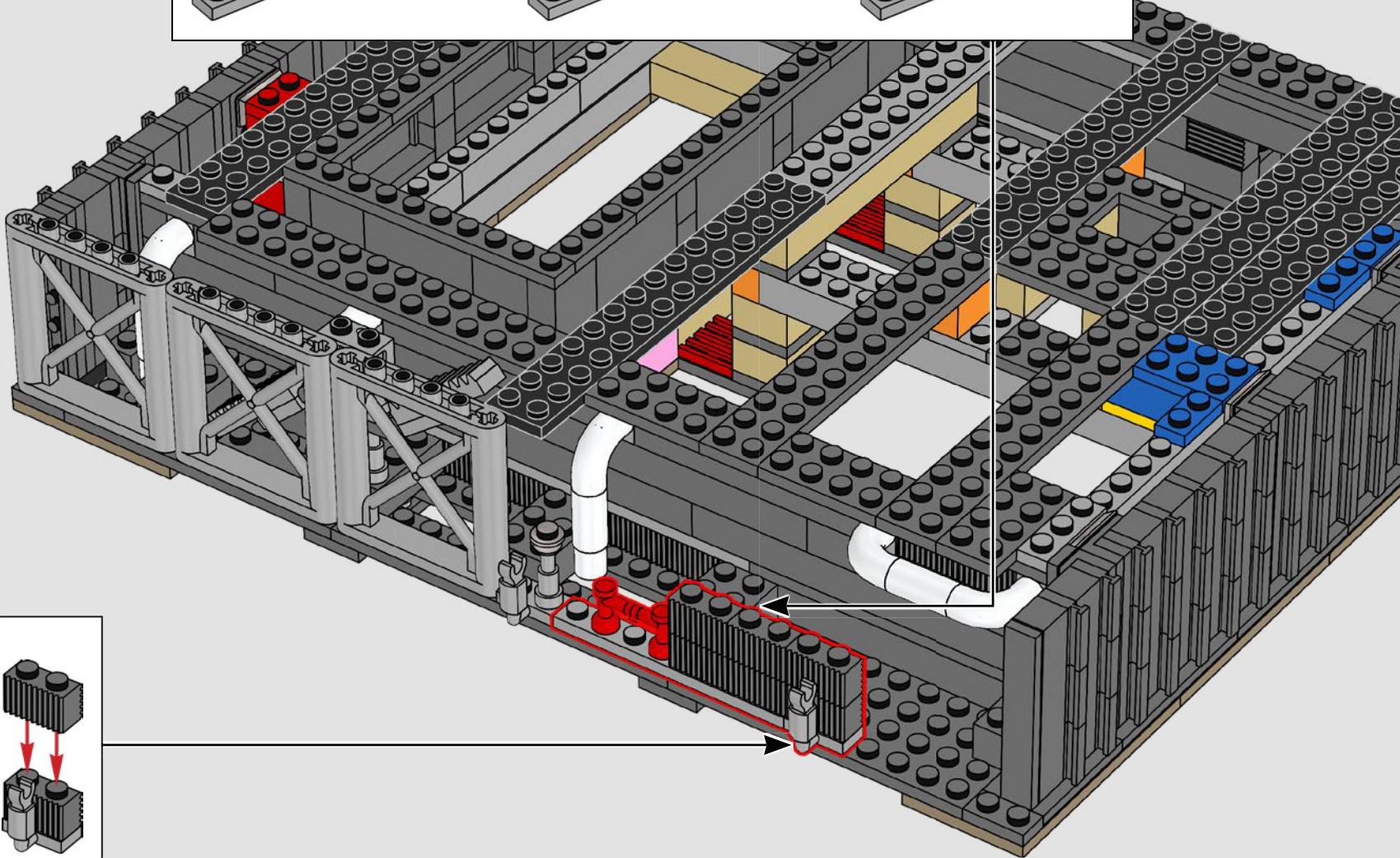
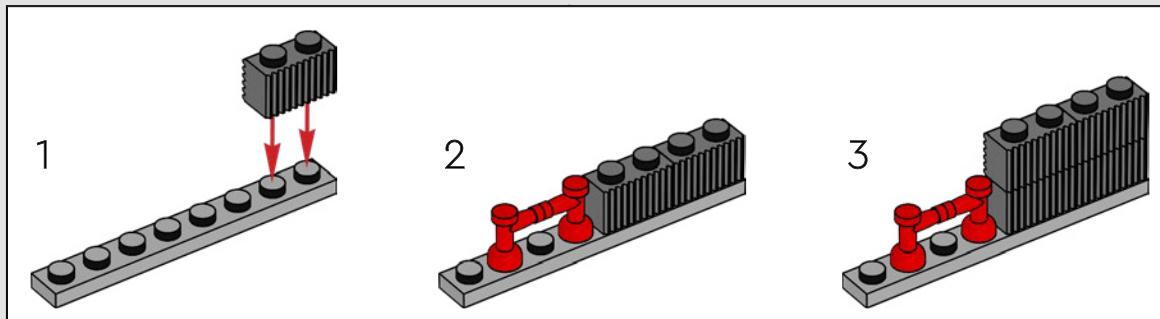


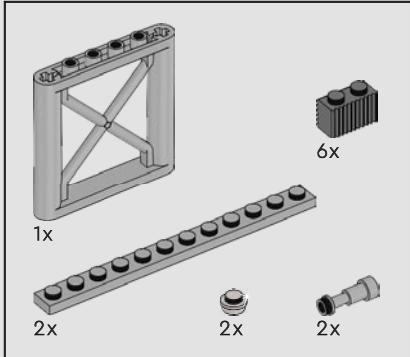
96





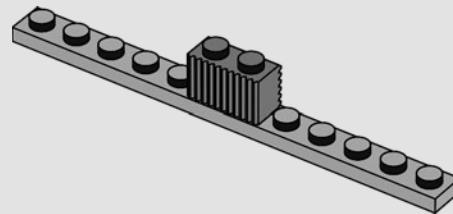
97



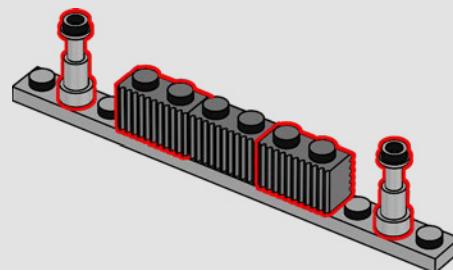


98

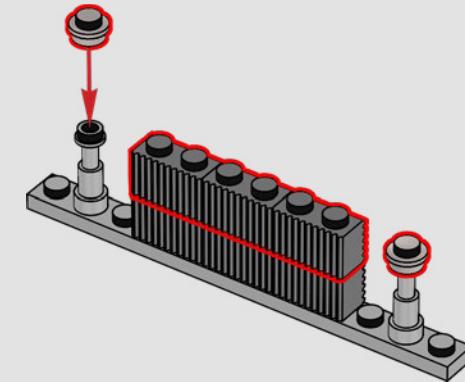
1



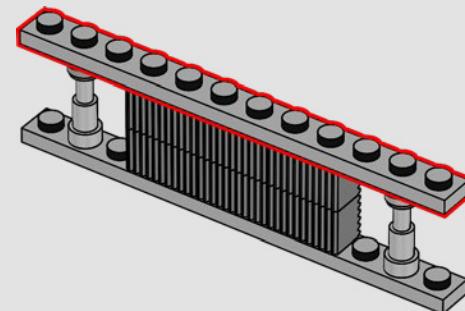
2

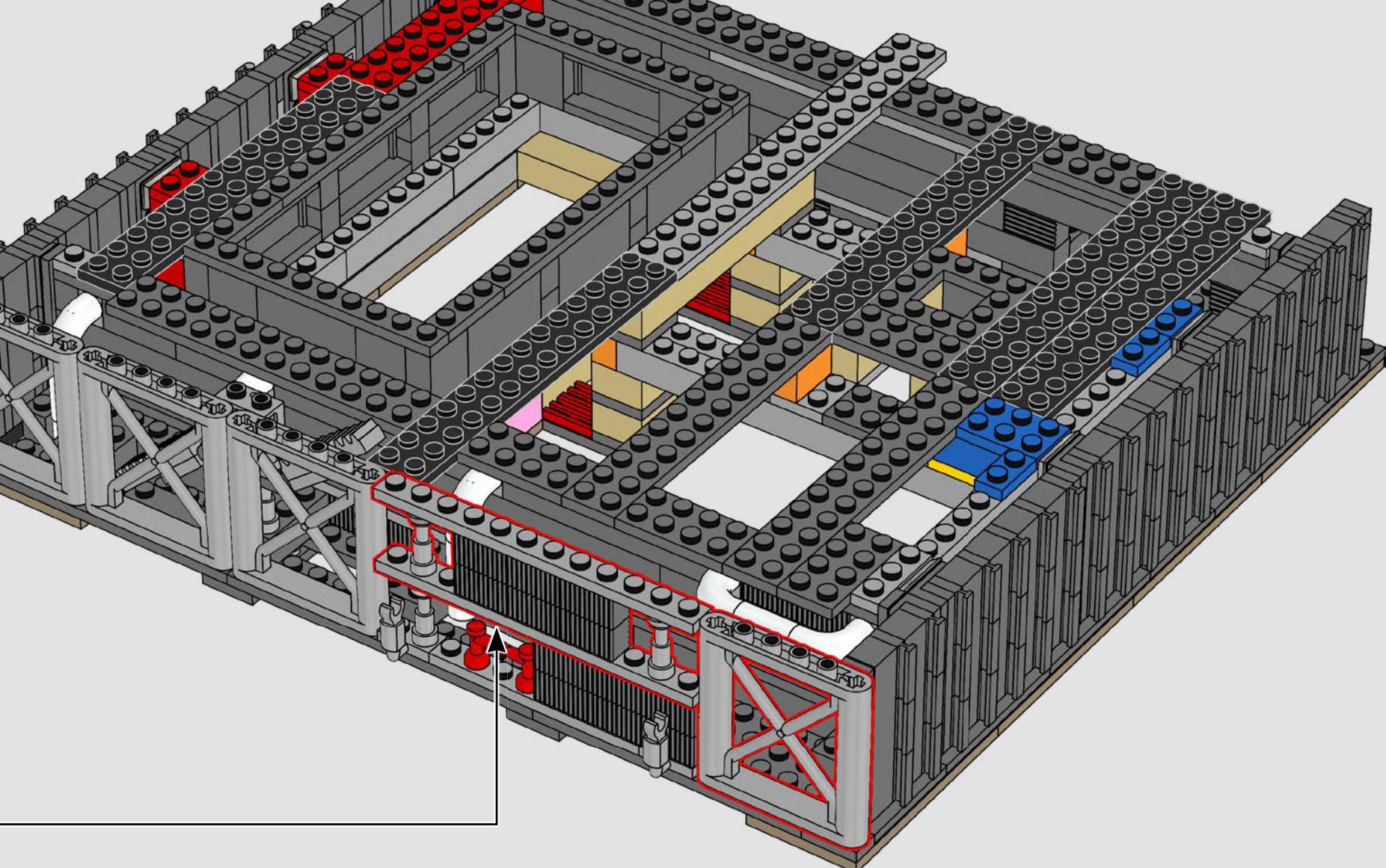


3

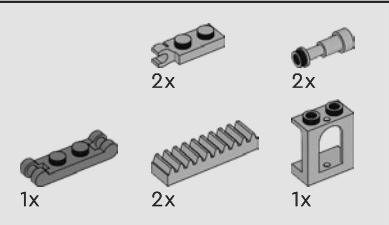


4



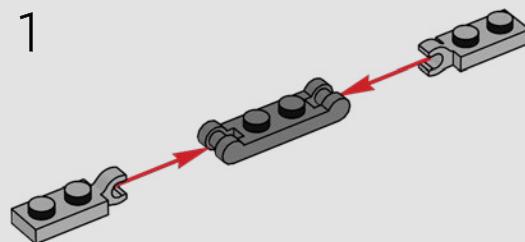


Unlike the real-life Space Shuttle launch pad, the LEGO® SLS platform has partly open sides showing interior details like pipes and staircases.

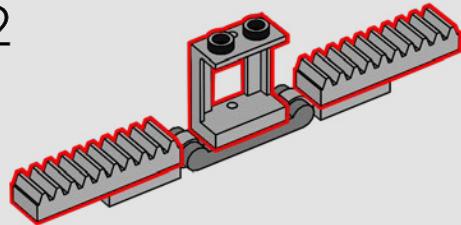


99

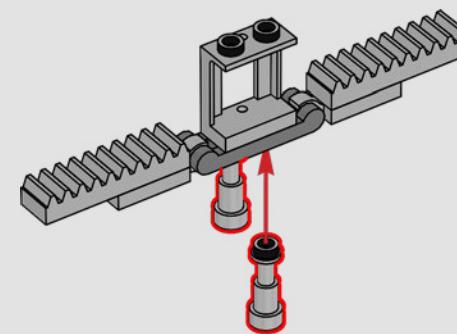
1



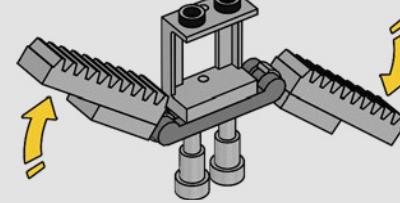
2

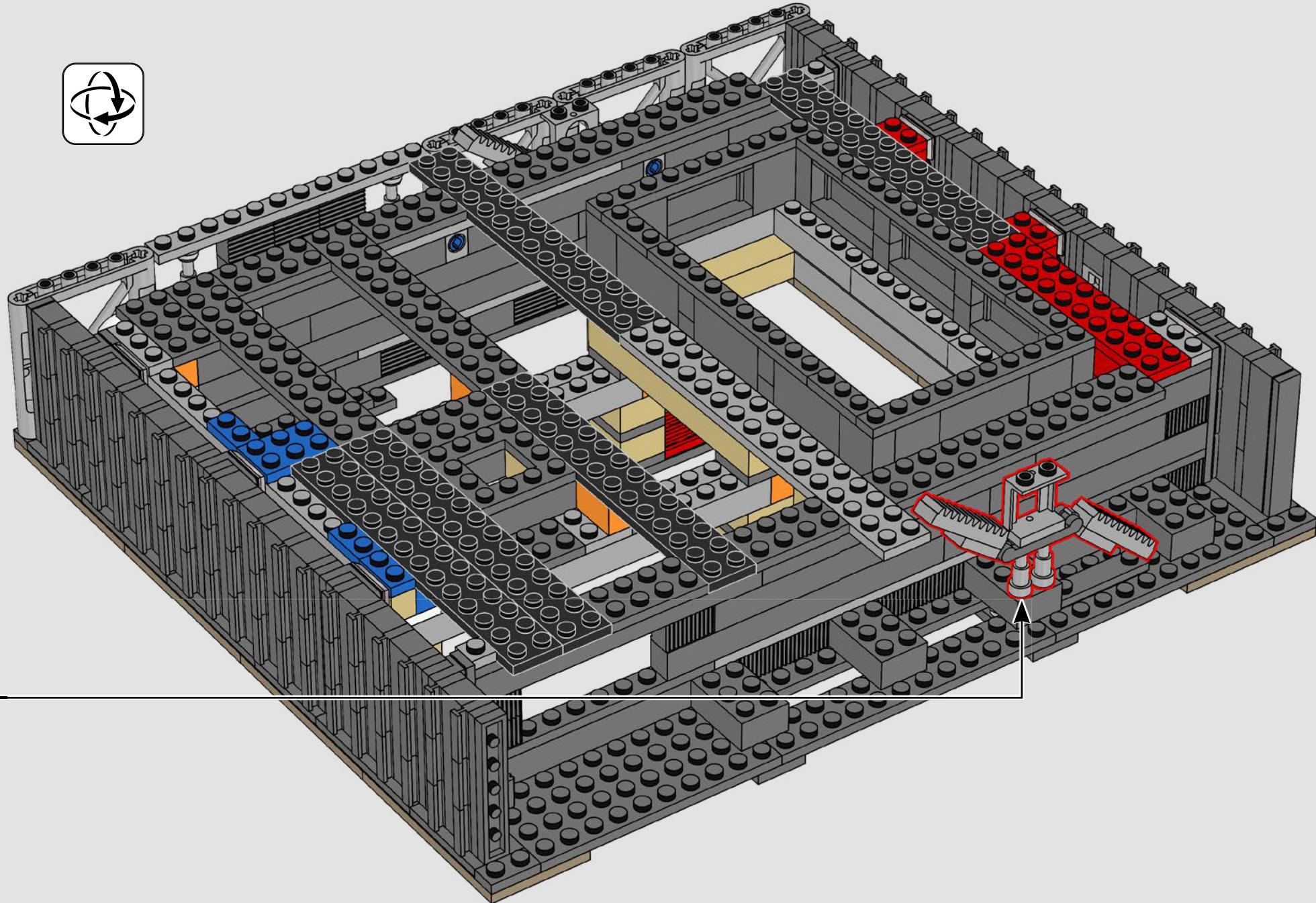


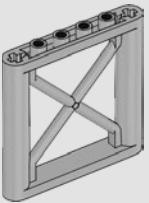
3



4

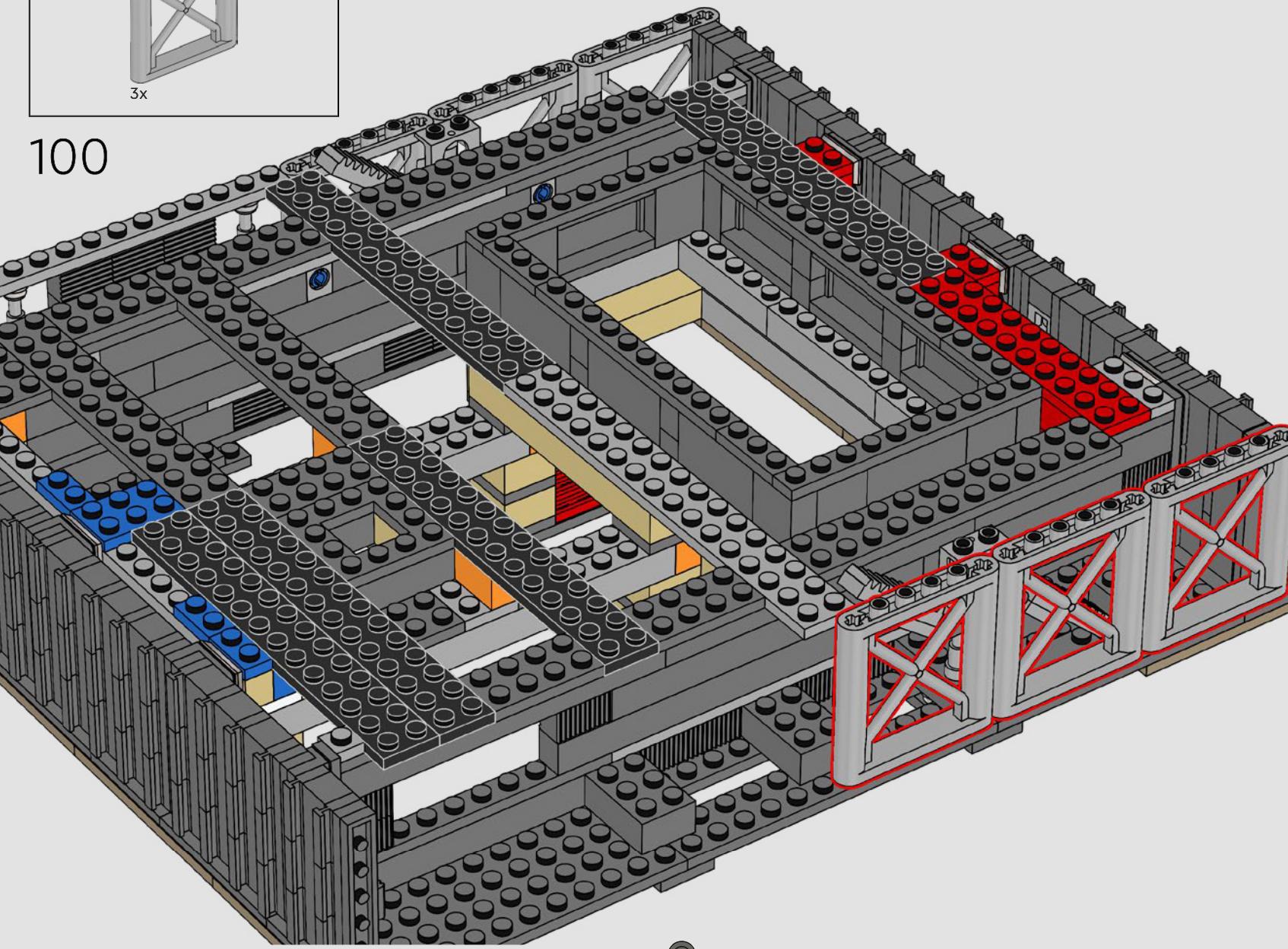


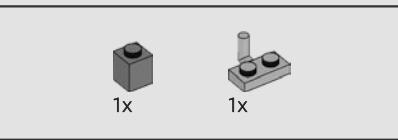
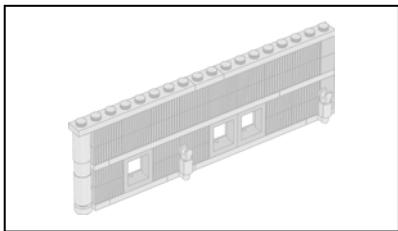




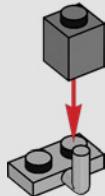
3x

100

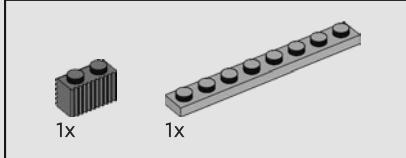
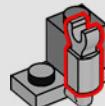




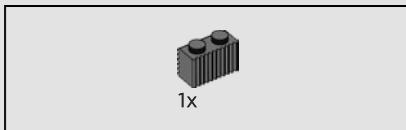
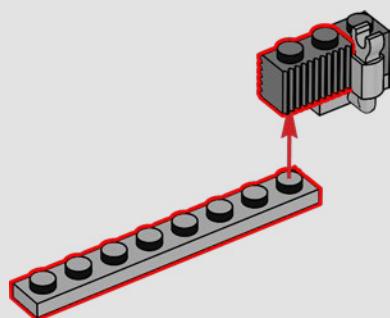
101



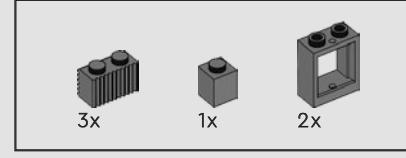
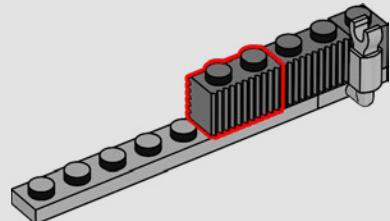
102



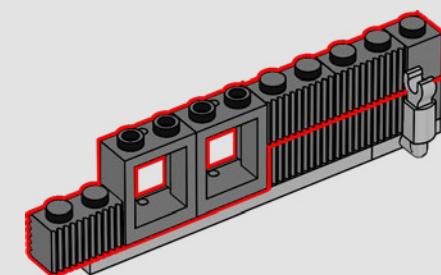
103



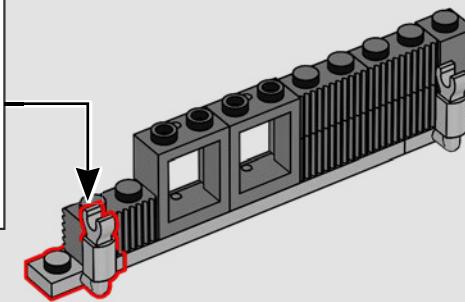
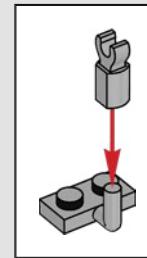
104



105

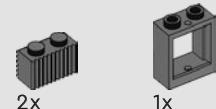
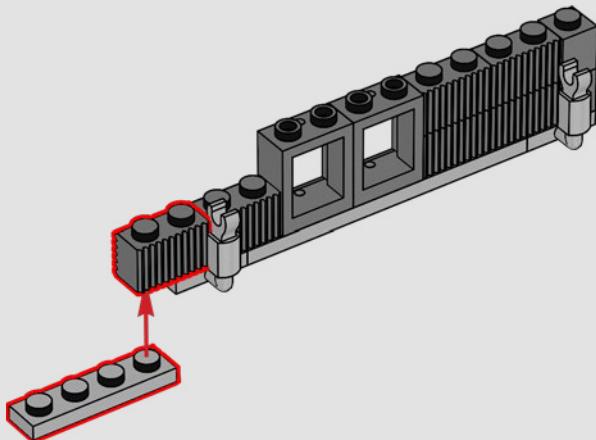


106

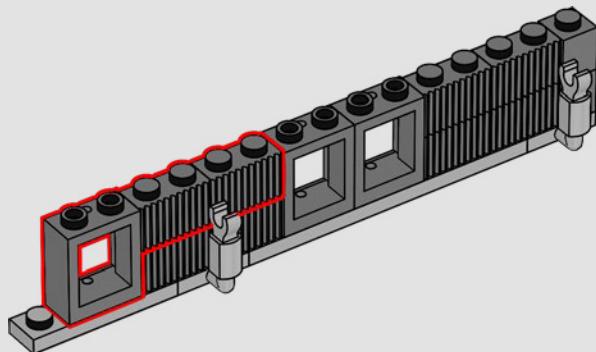




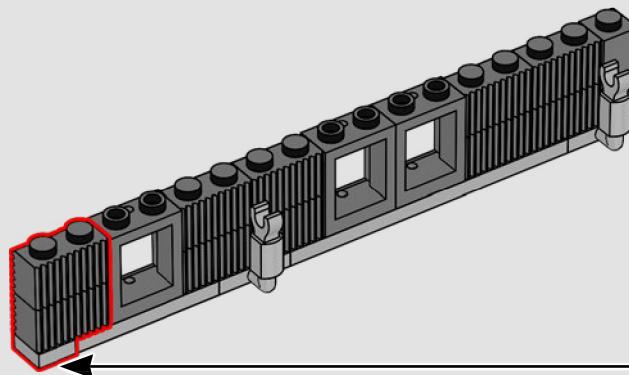
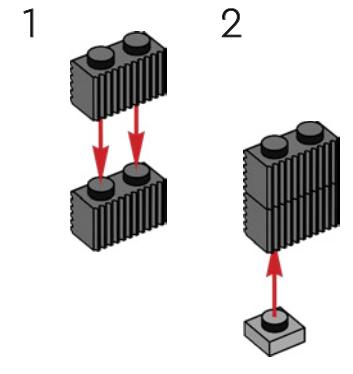
107

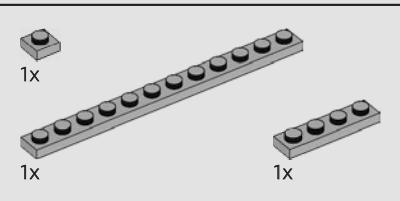


108

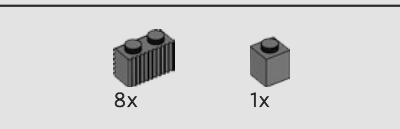
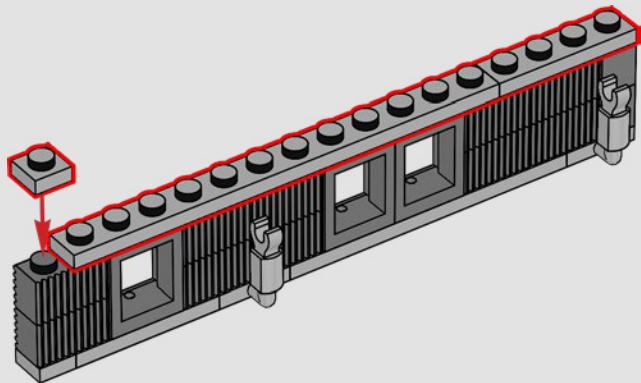


109

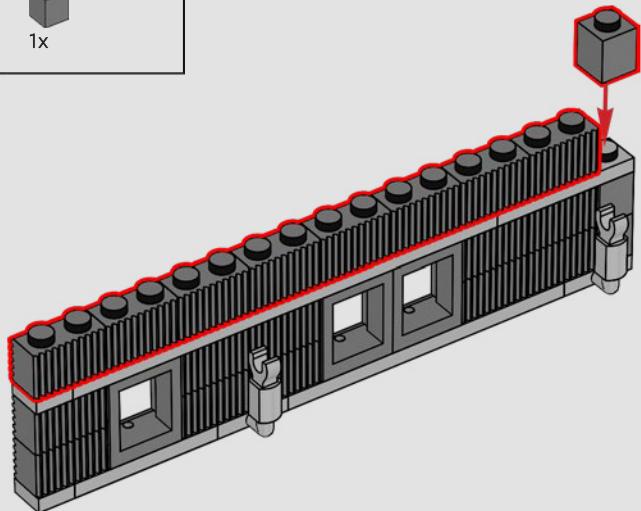




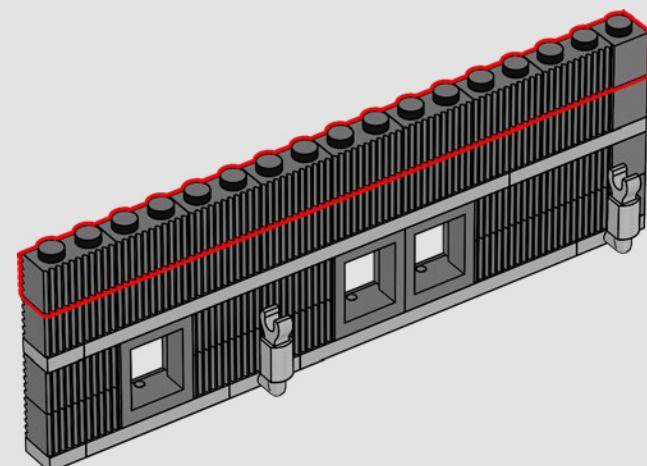
110

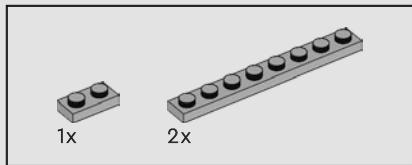


111

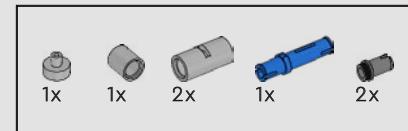
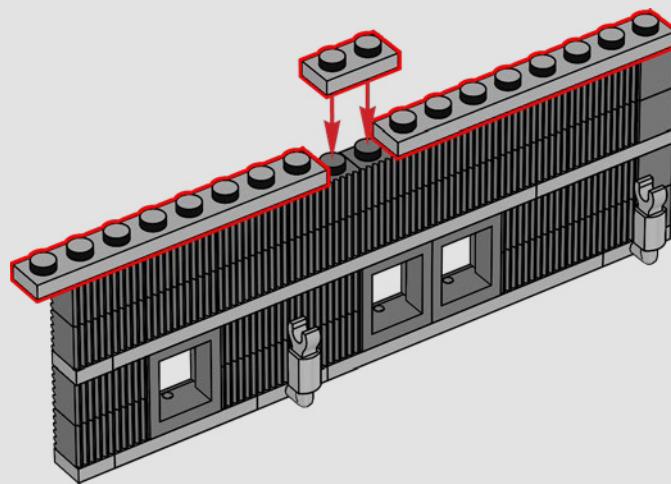


112

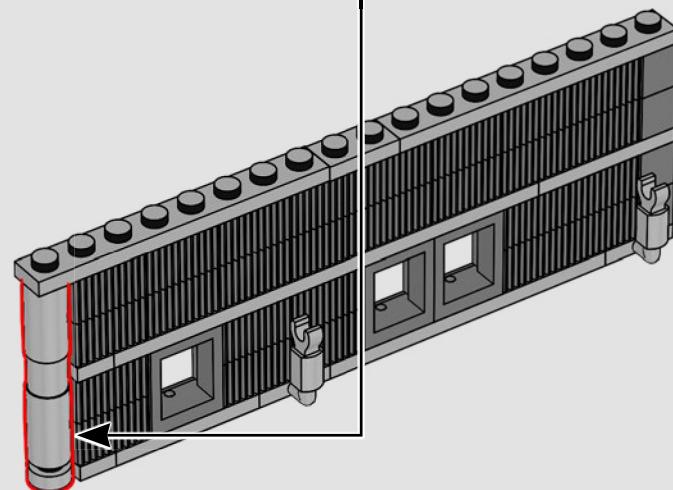
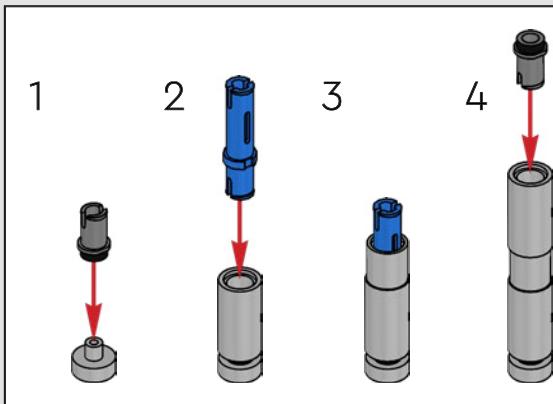




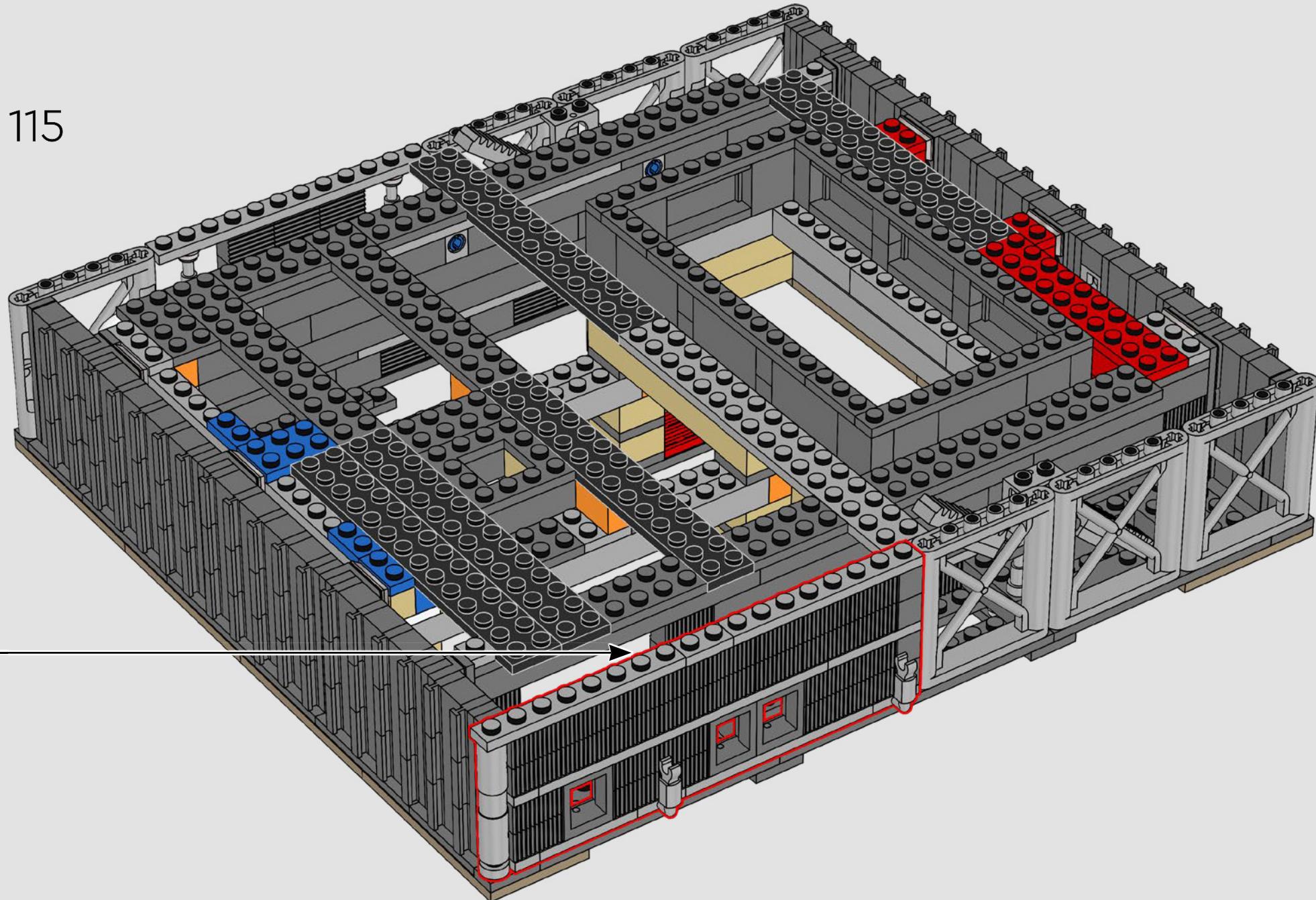
113

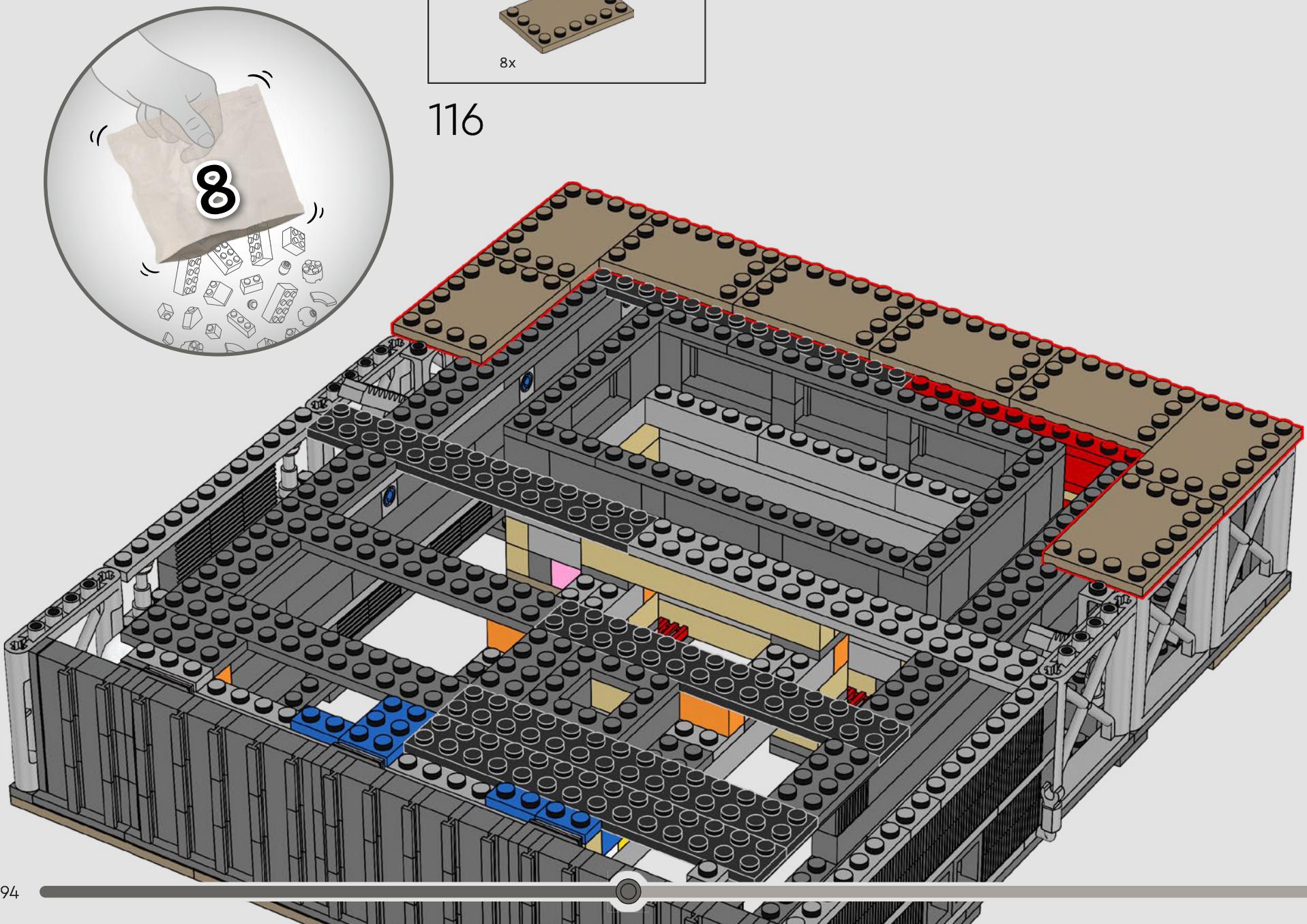


114

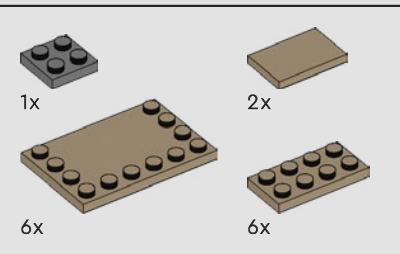


115

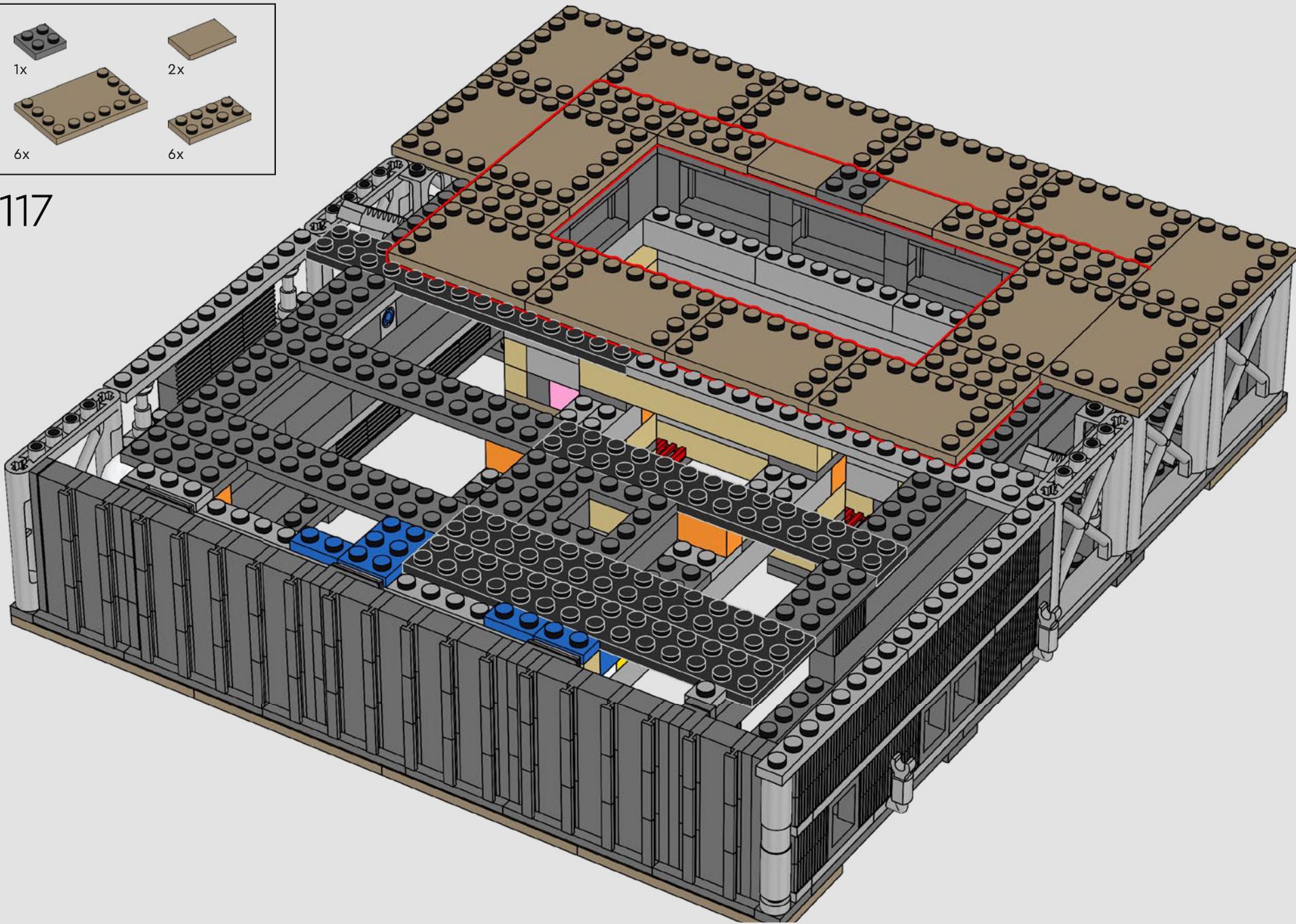


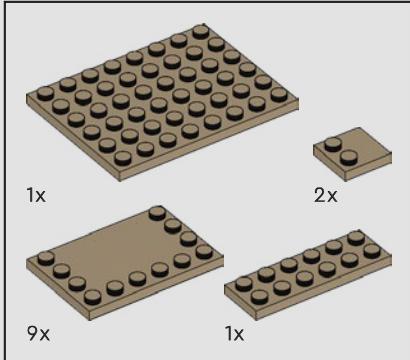


116

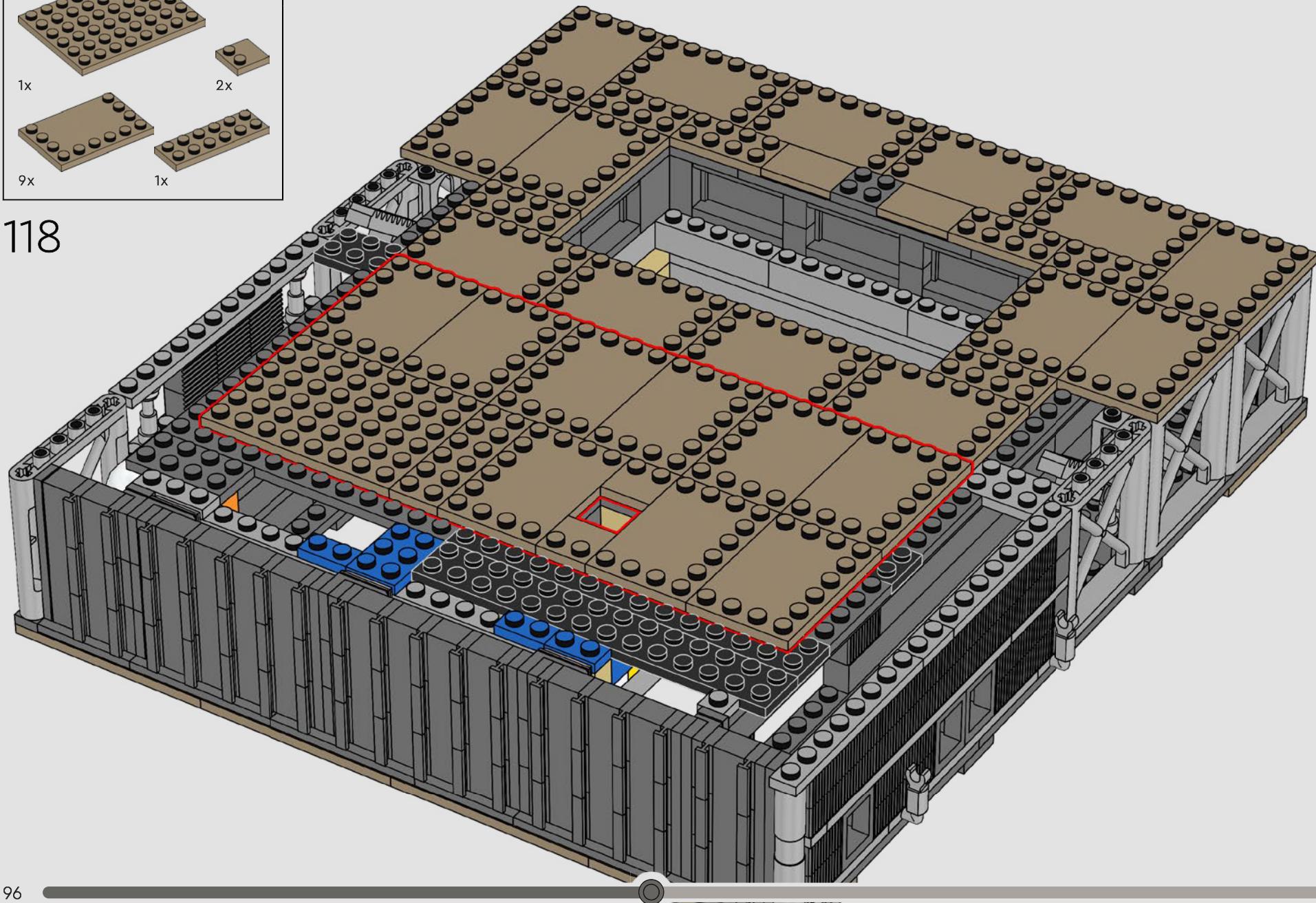


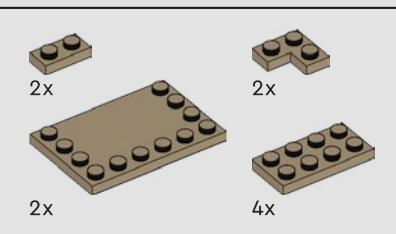
117



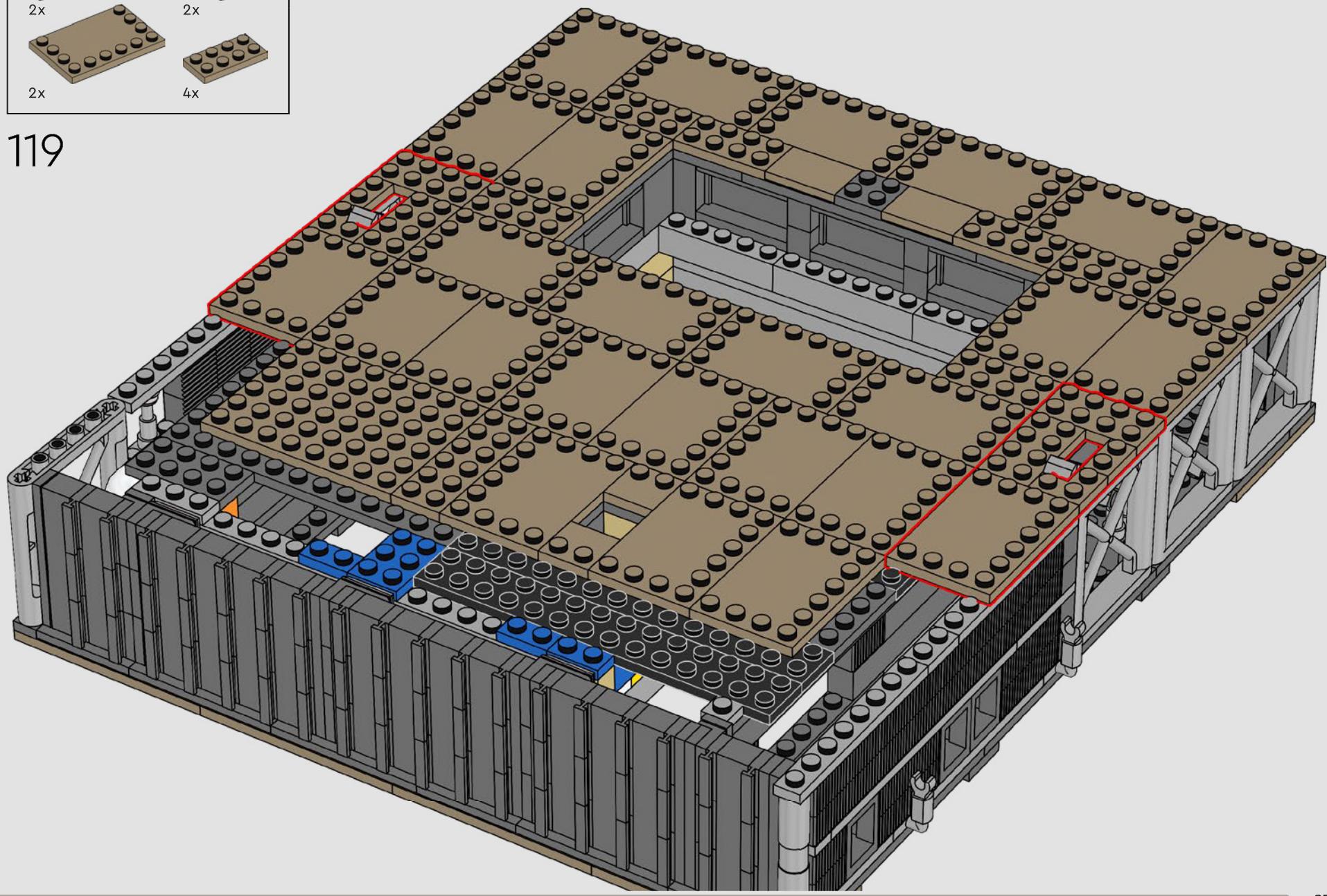


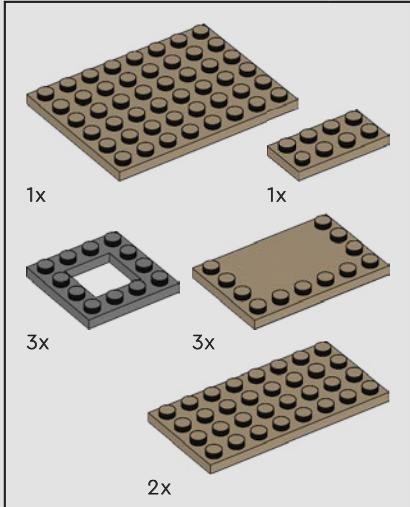
118



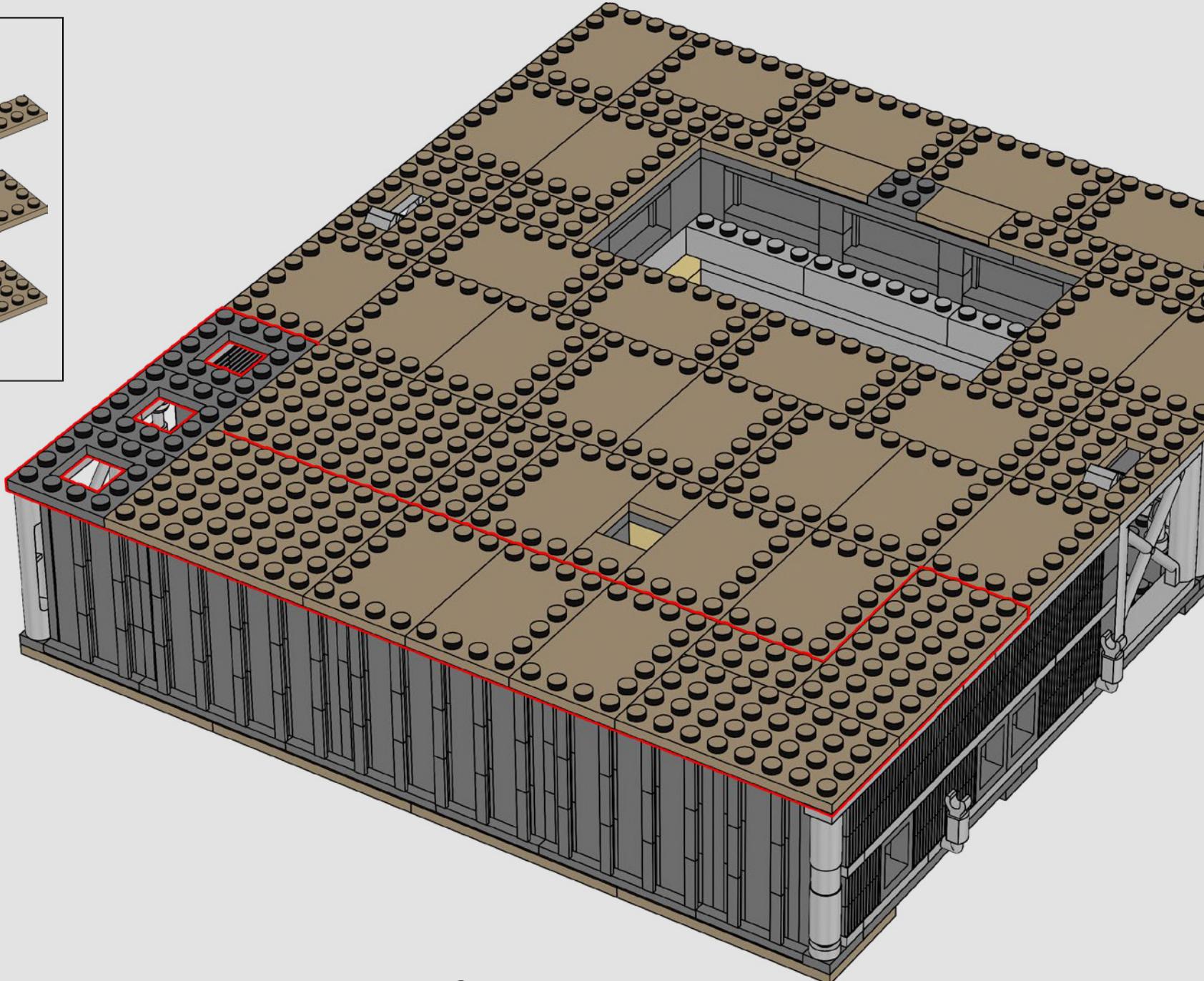


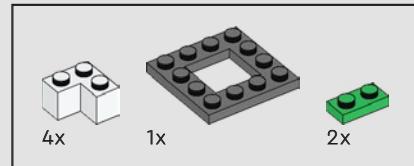
119



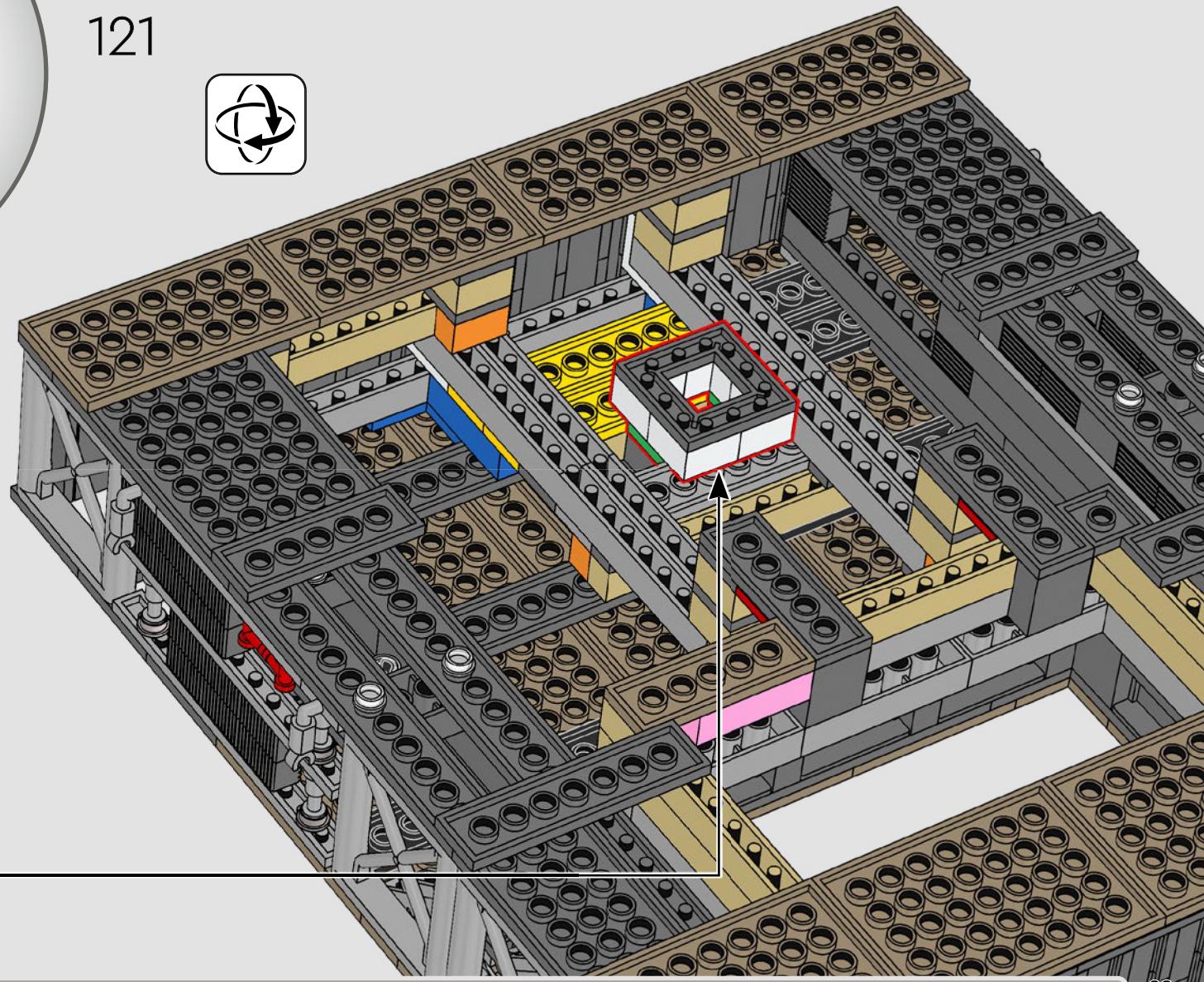
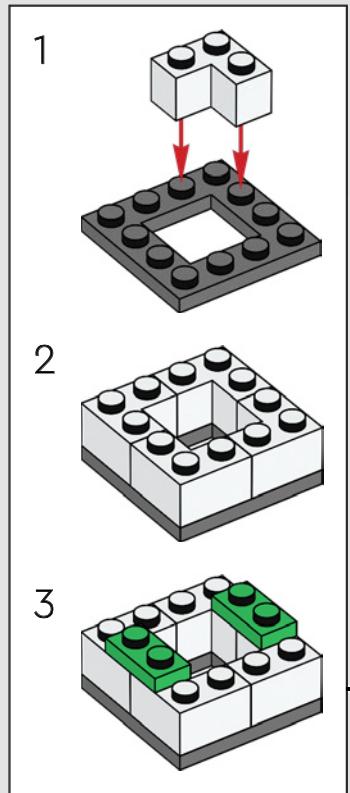


120



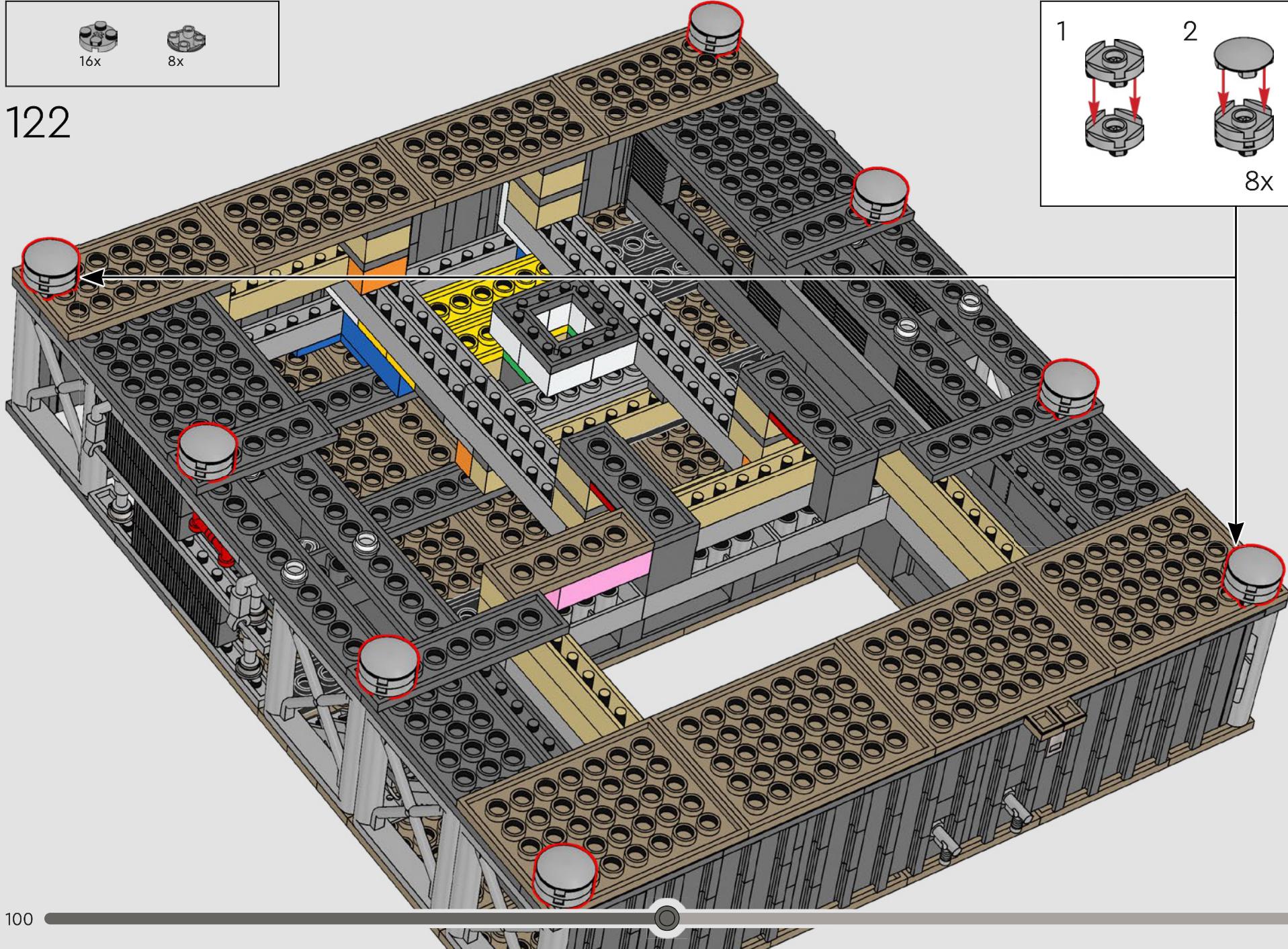
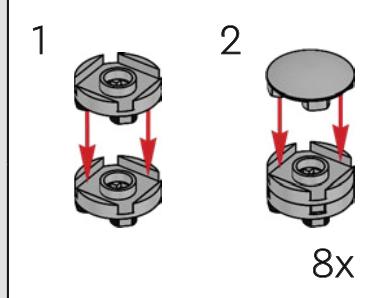


121





122



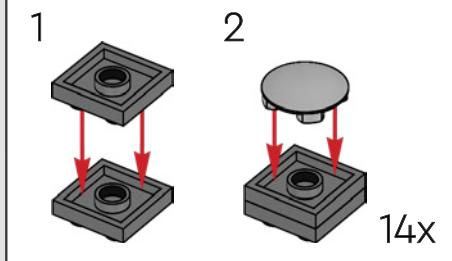
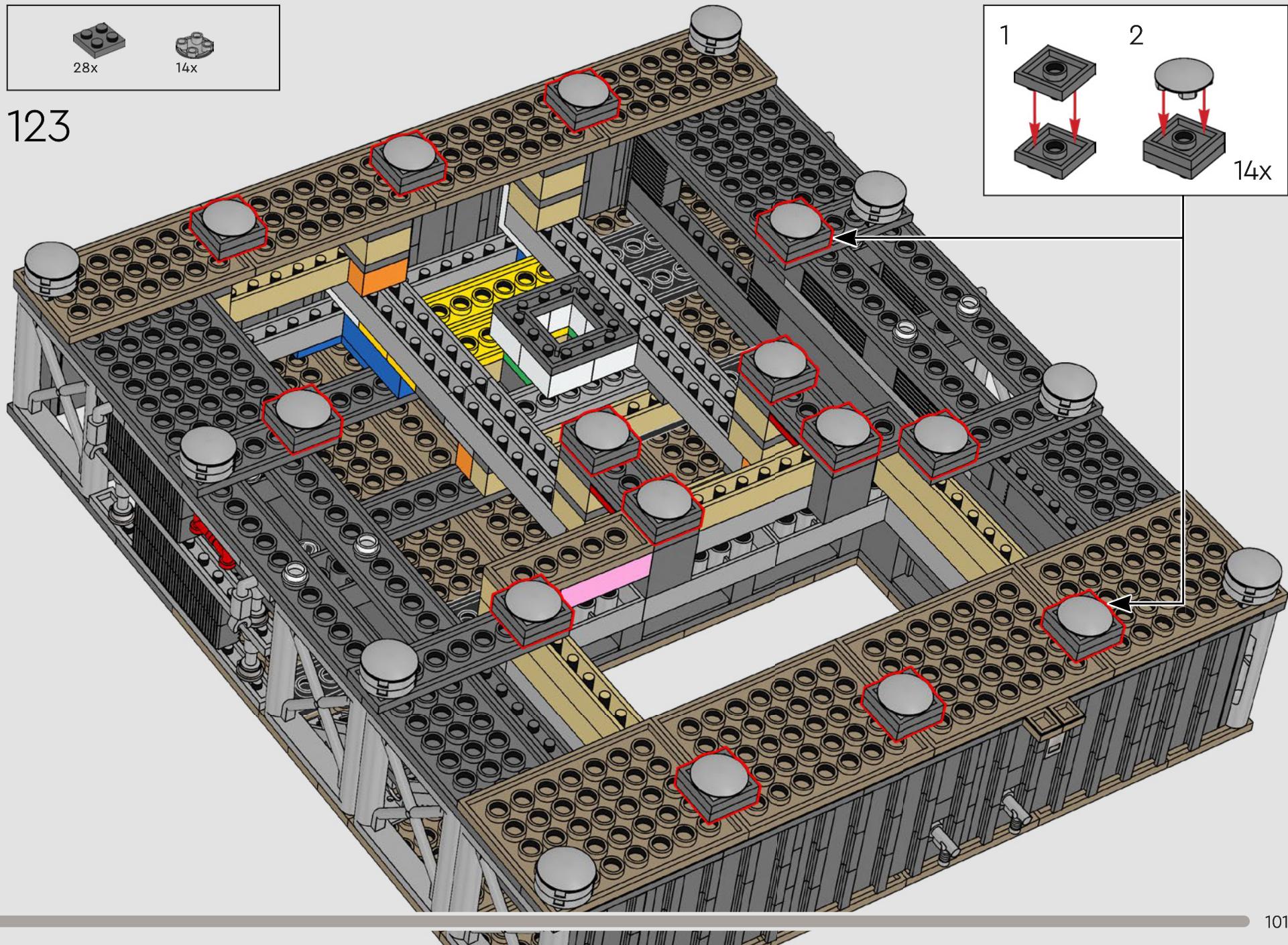


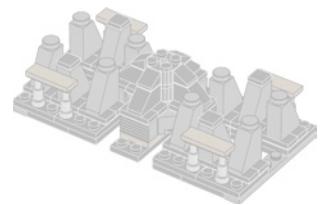
28x



14x

123





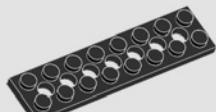
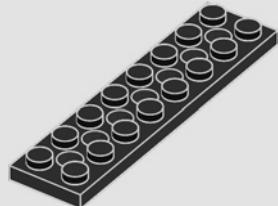
2x

126



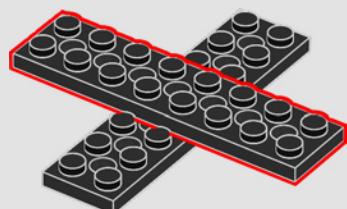
1x

124

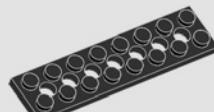
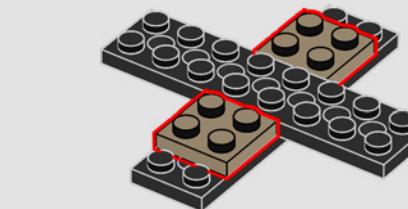


1x

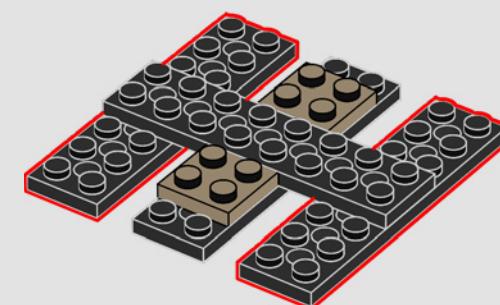
125

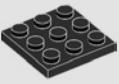


127



2x

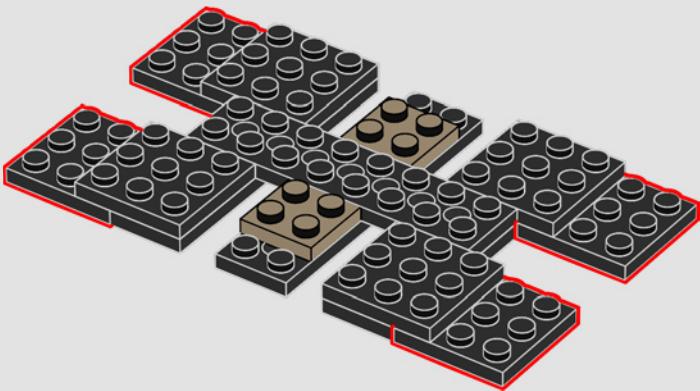




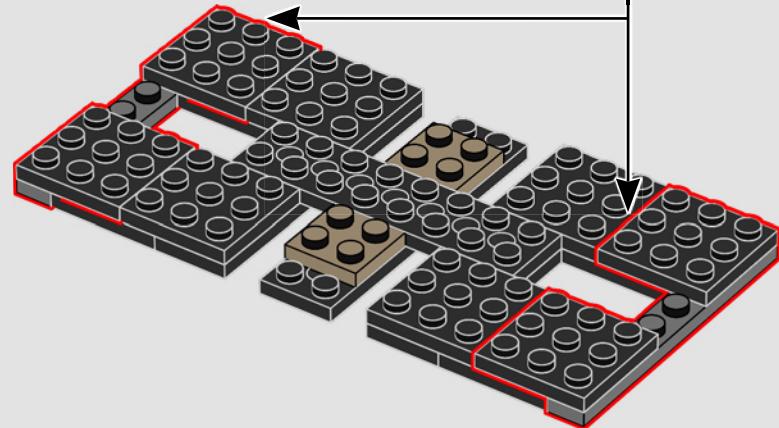
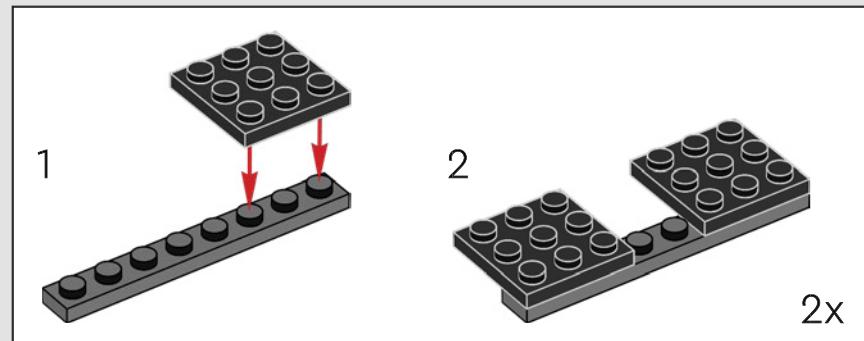
128



129



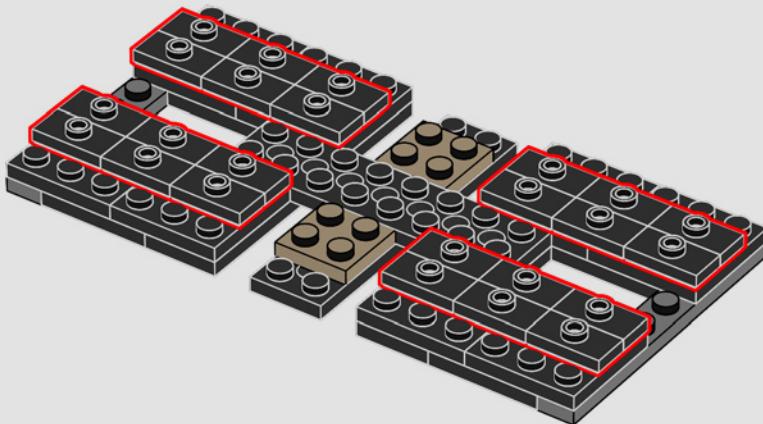
130





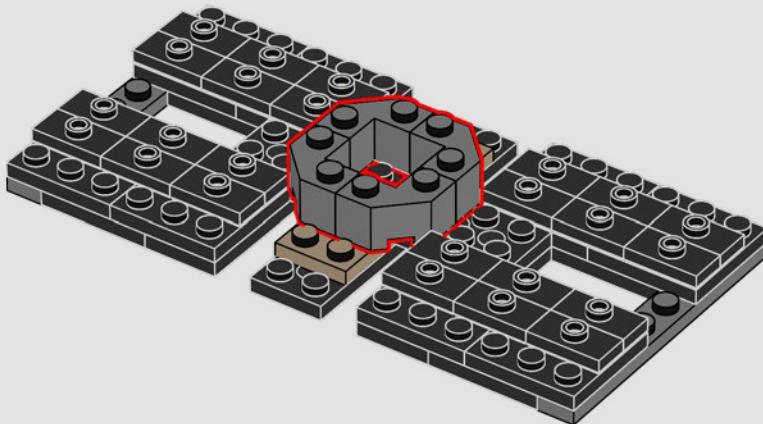
24x

131



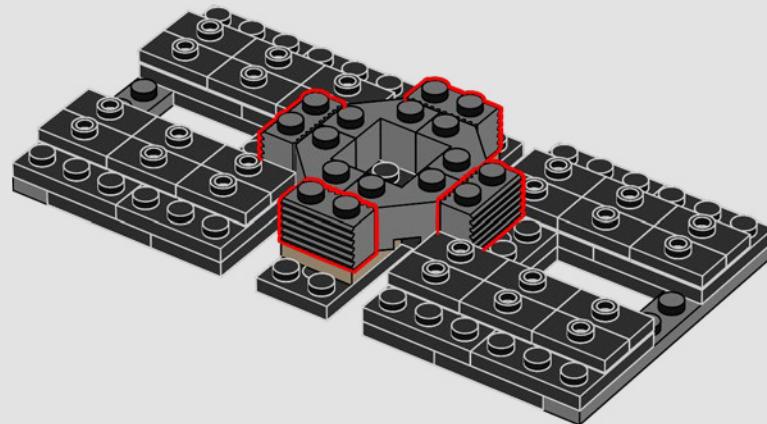
4x

132



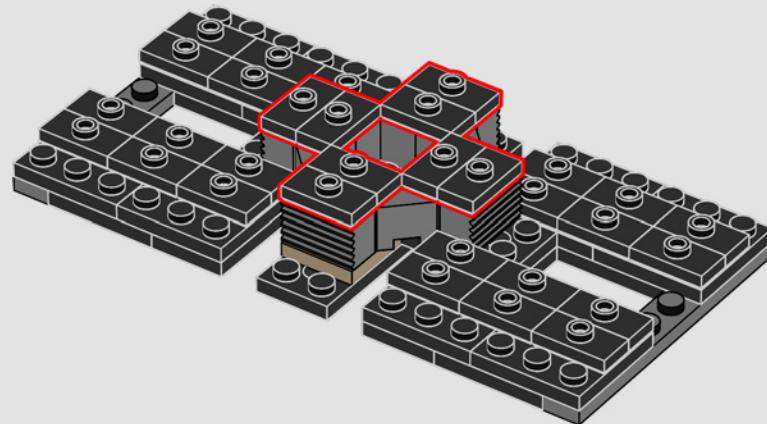
4x

133



8x

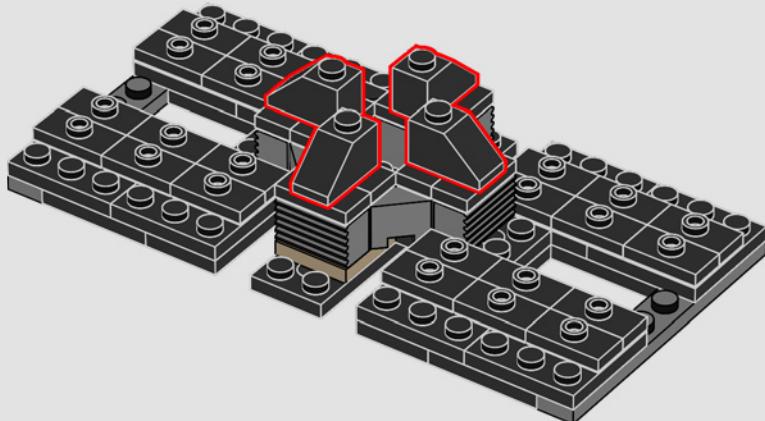
134





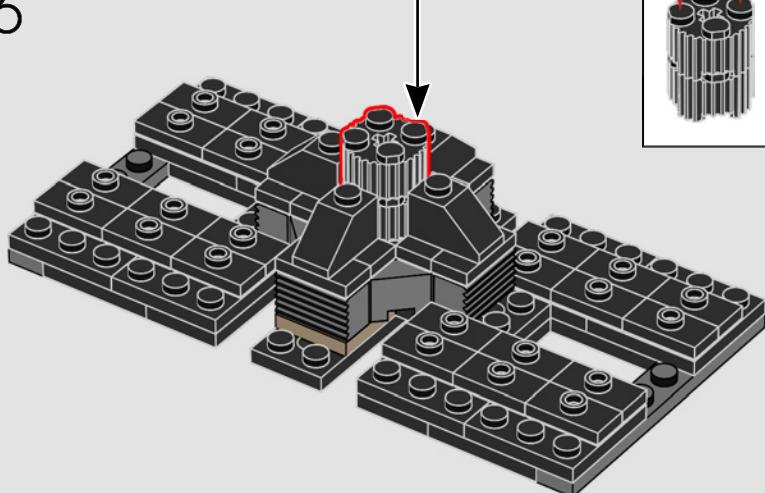
4x

135



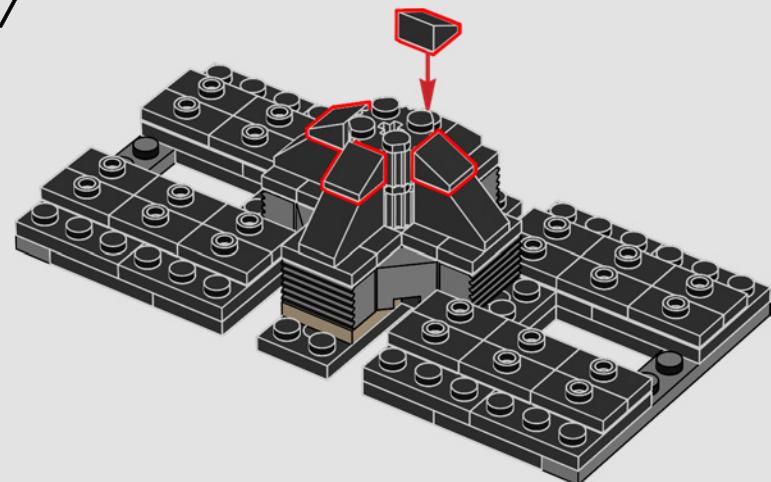
3x

136



4x

137

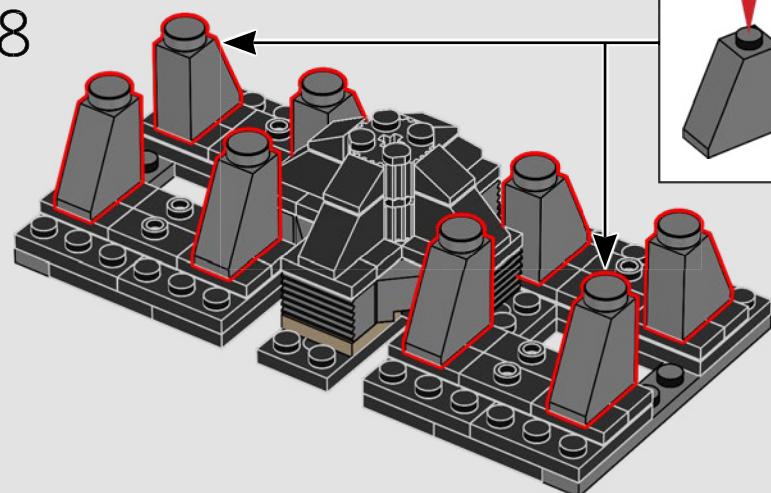


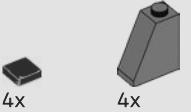
8x



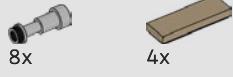
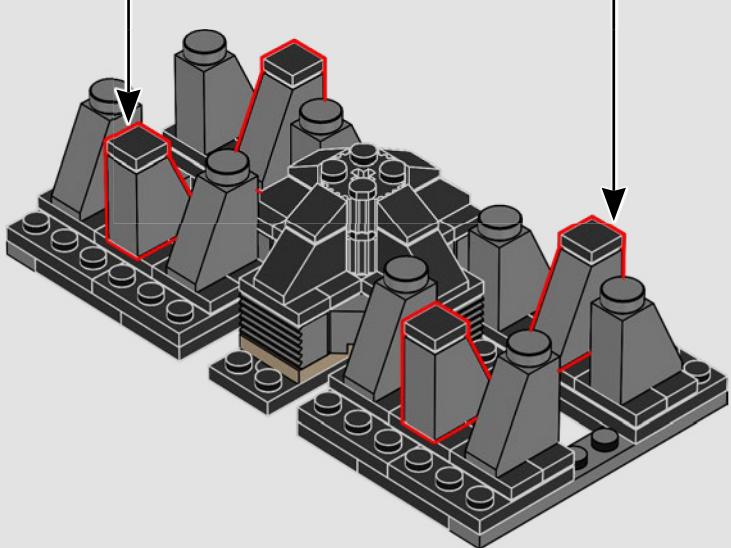
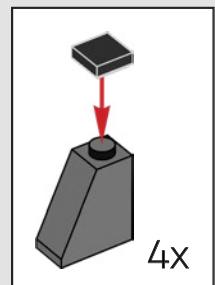
8x

138

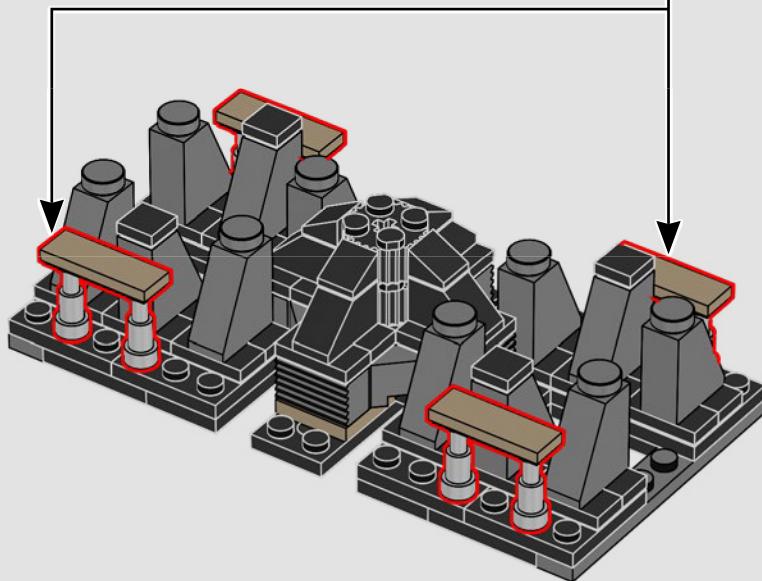
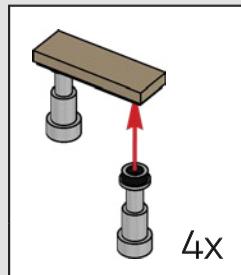




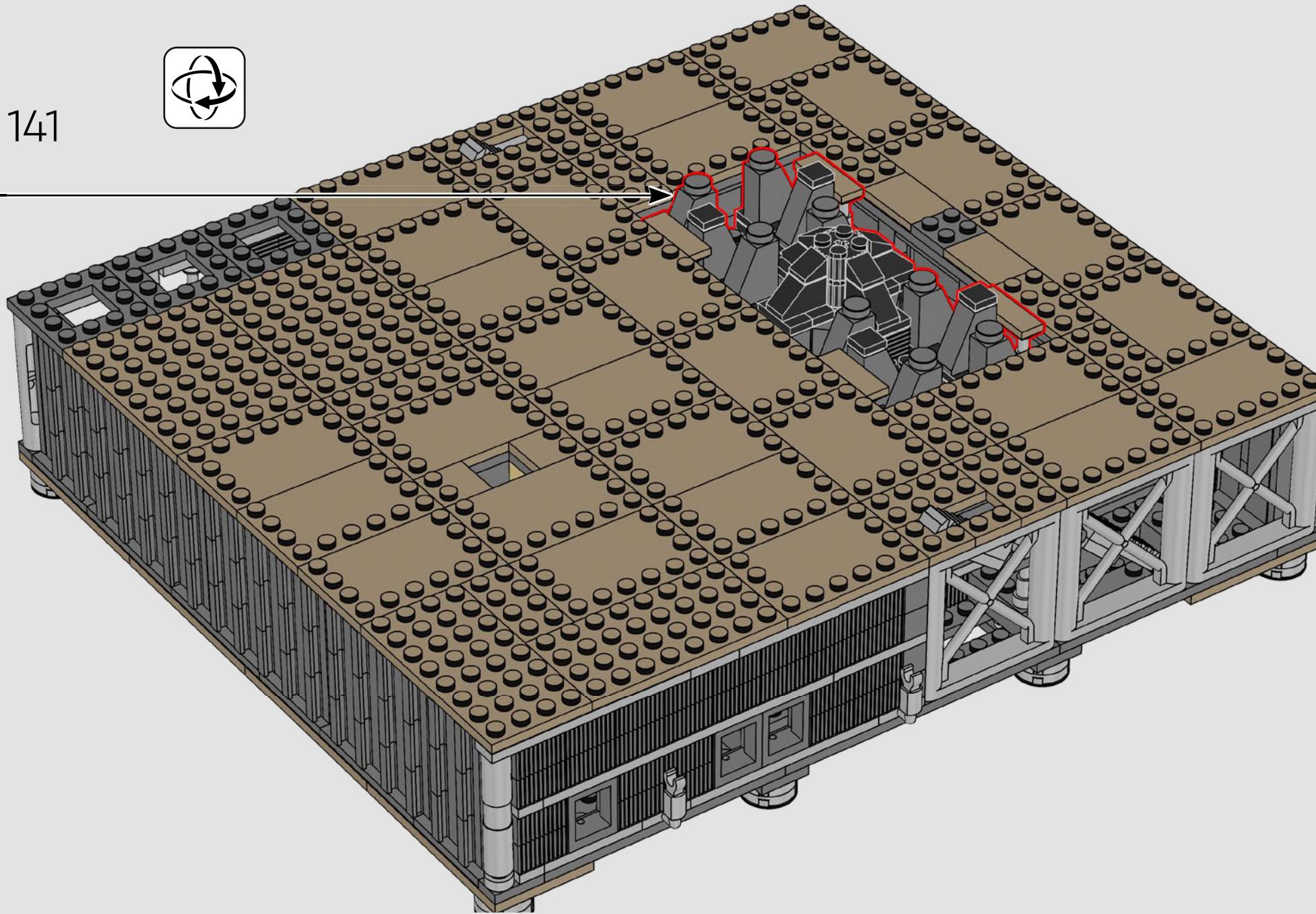
139

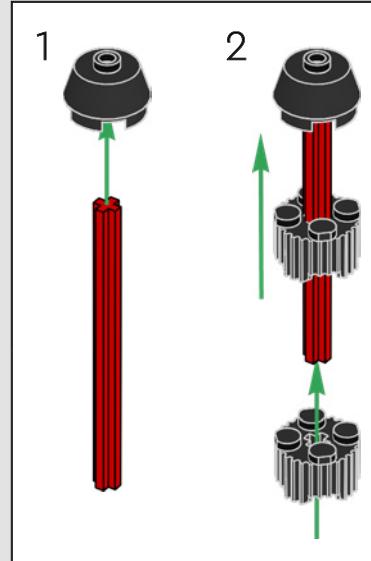
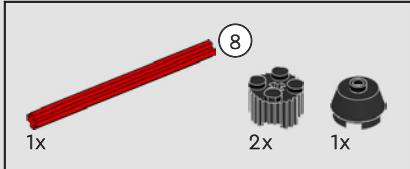


140



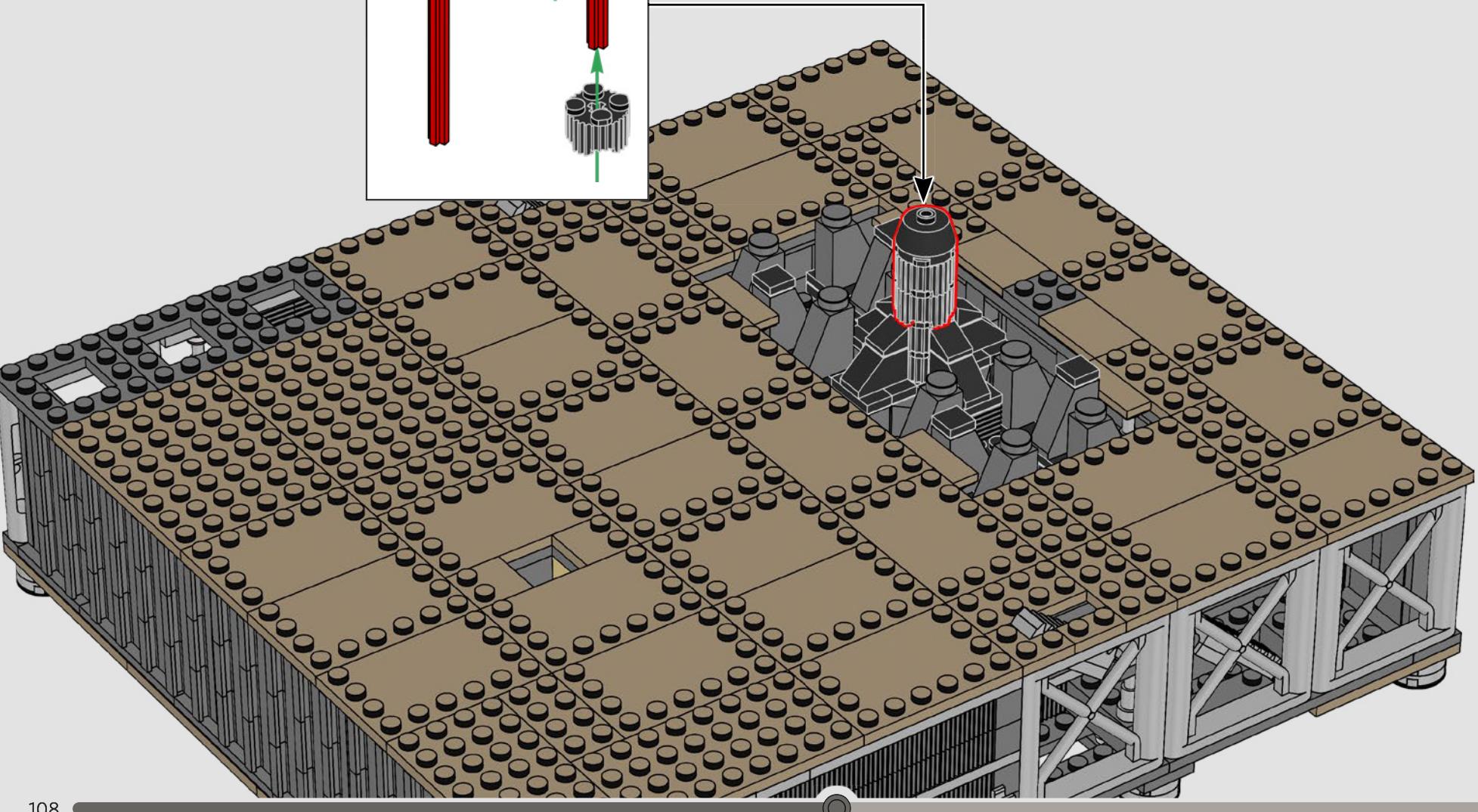
141





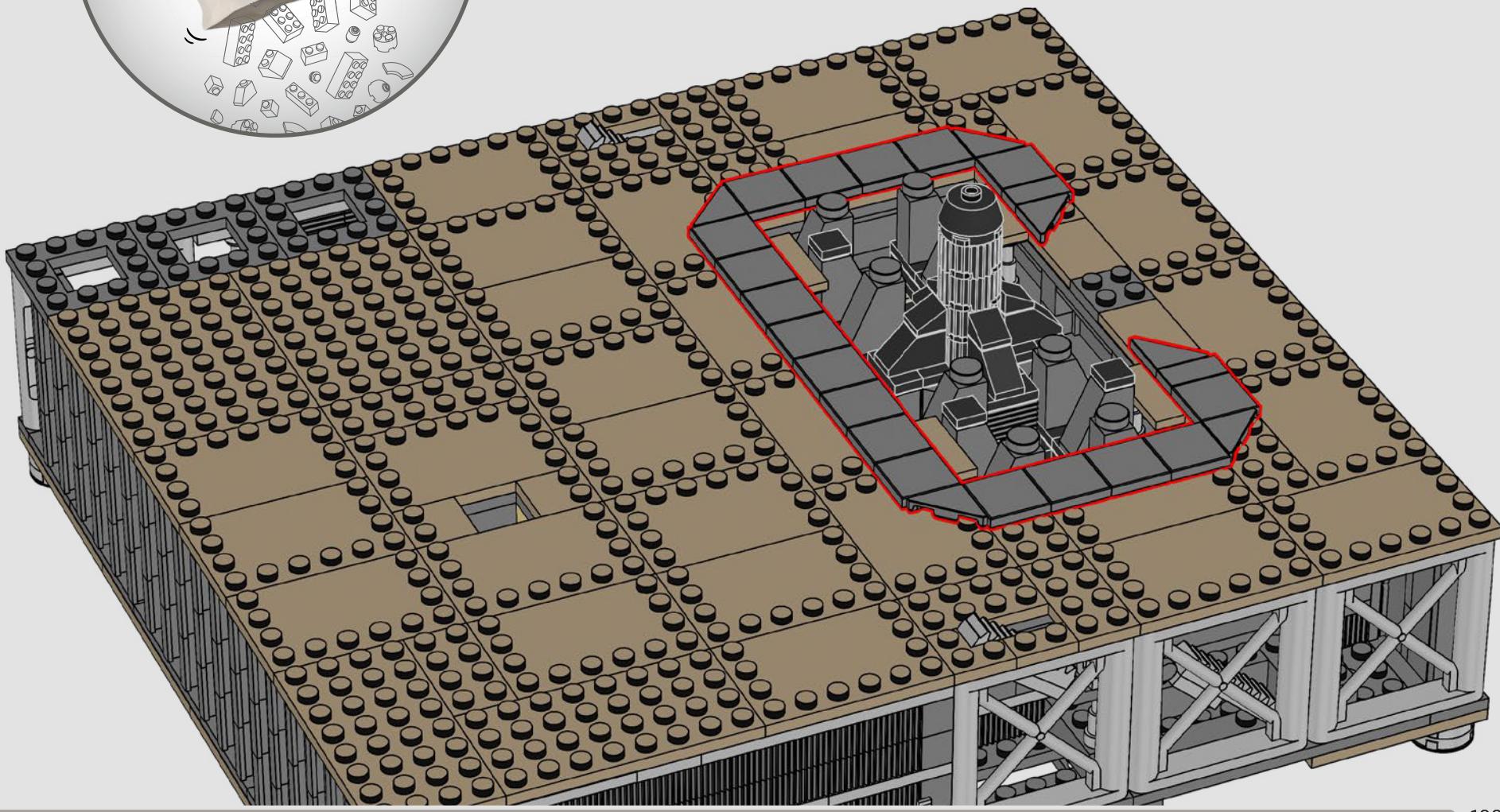
8 1:1

142



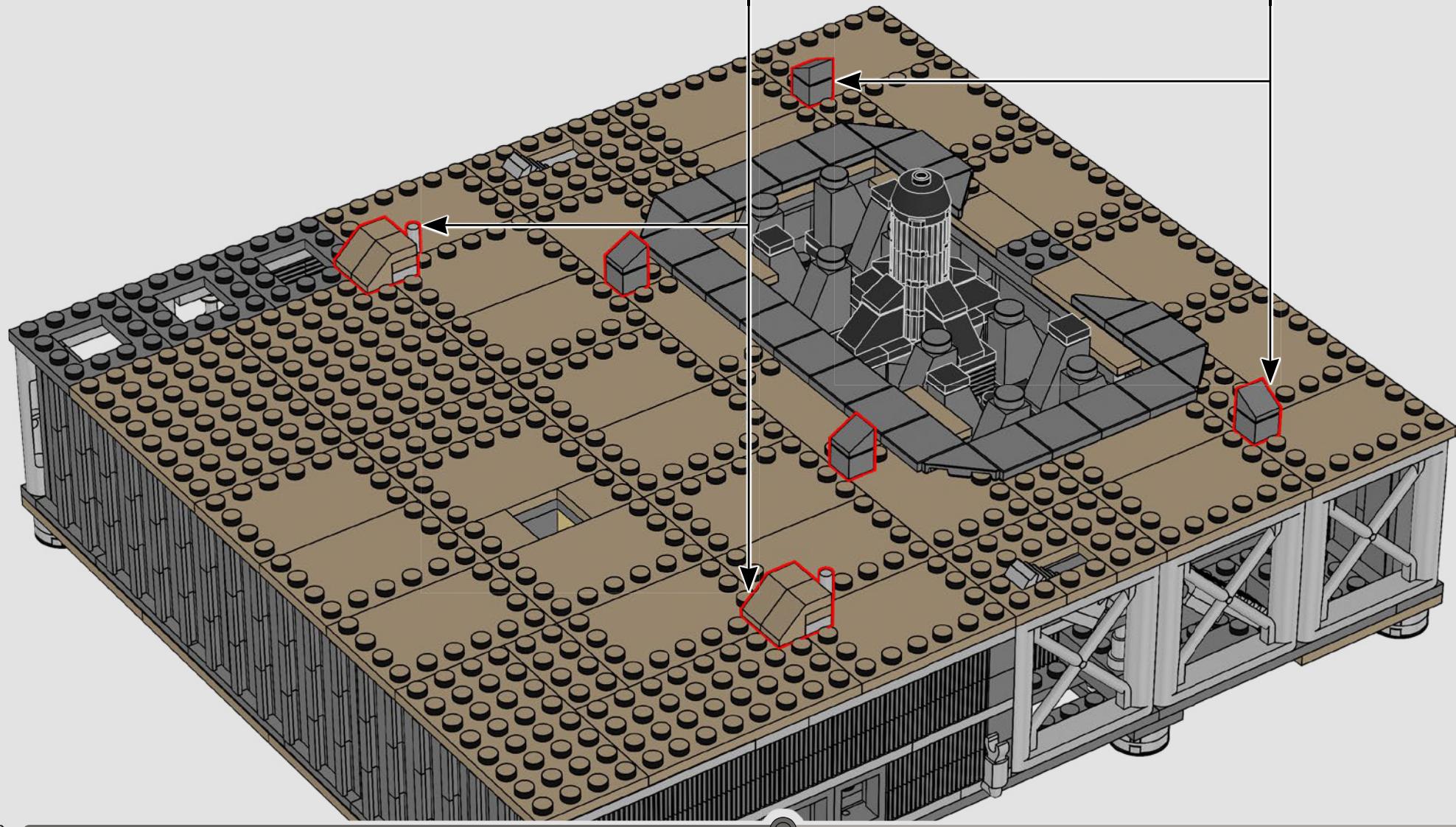
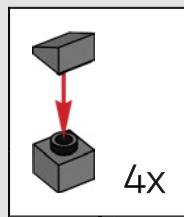
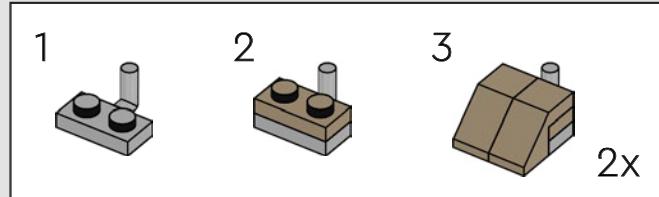


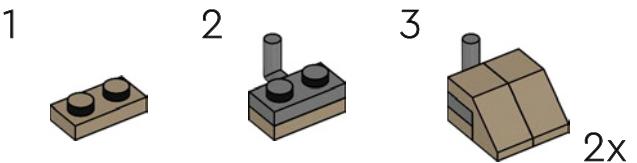
143



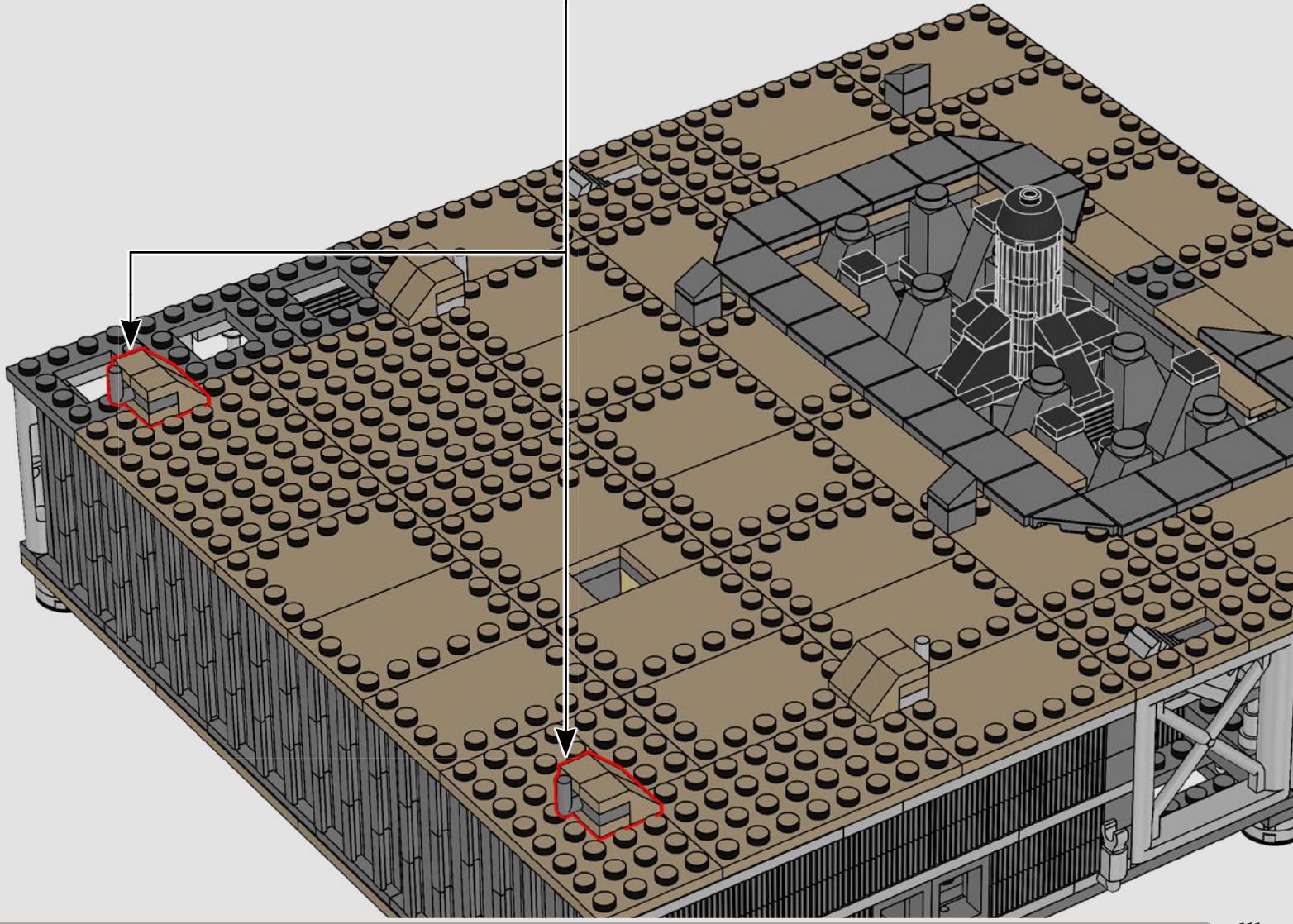


144





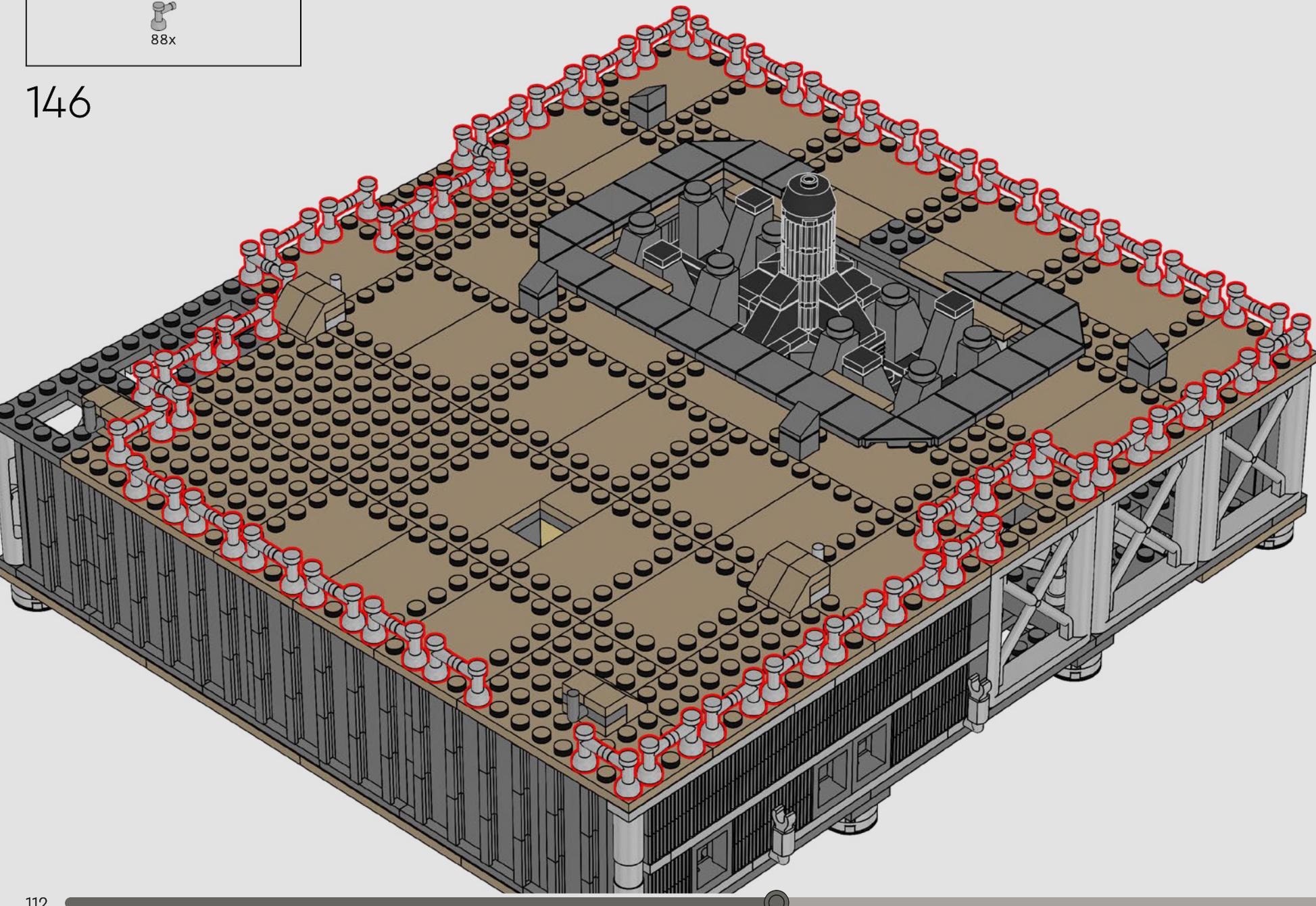
145

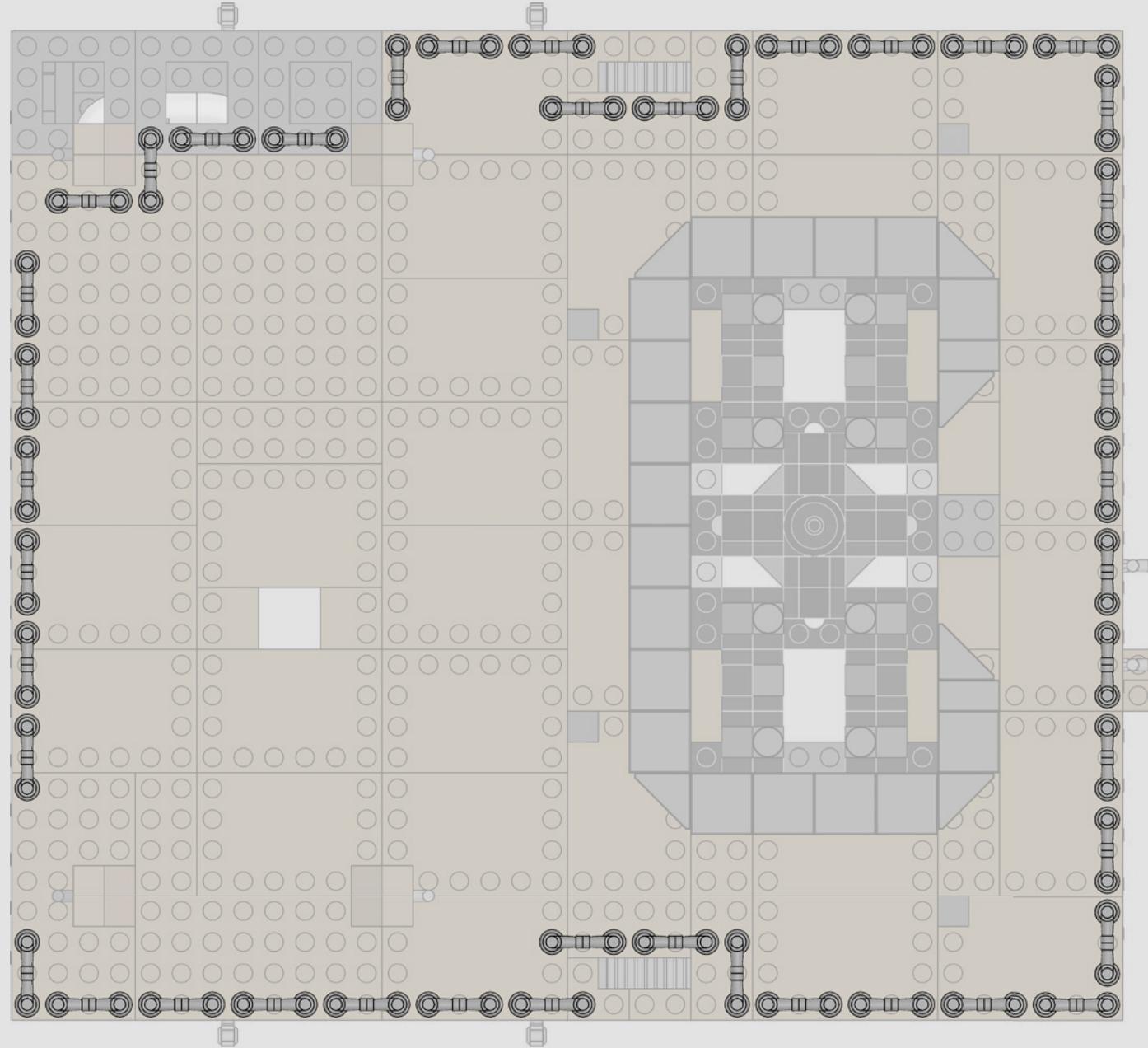


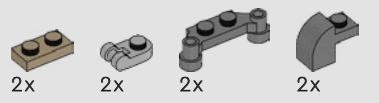


88x

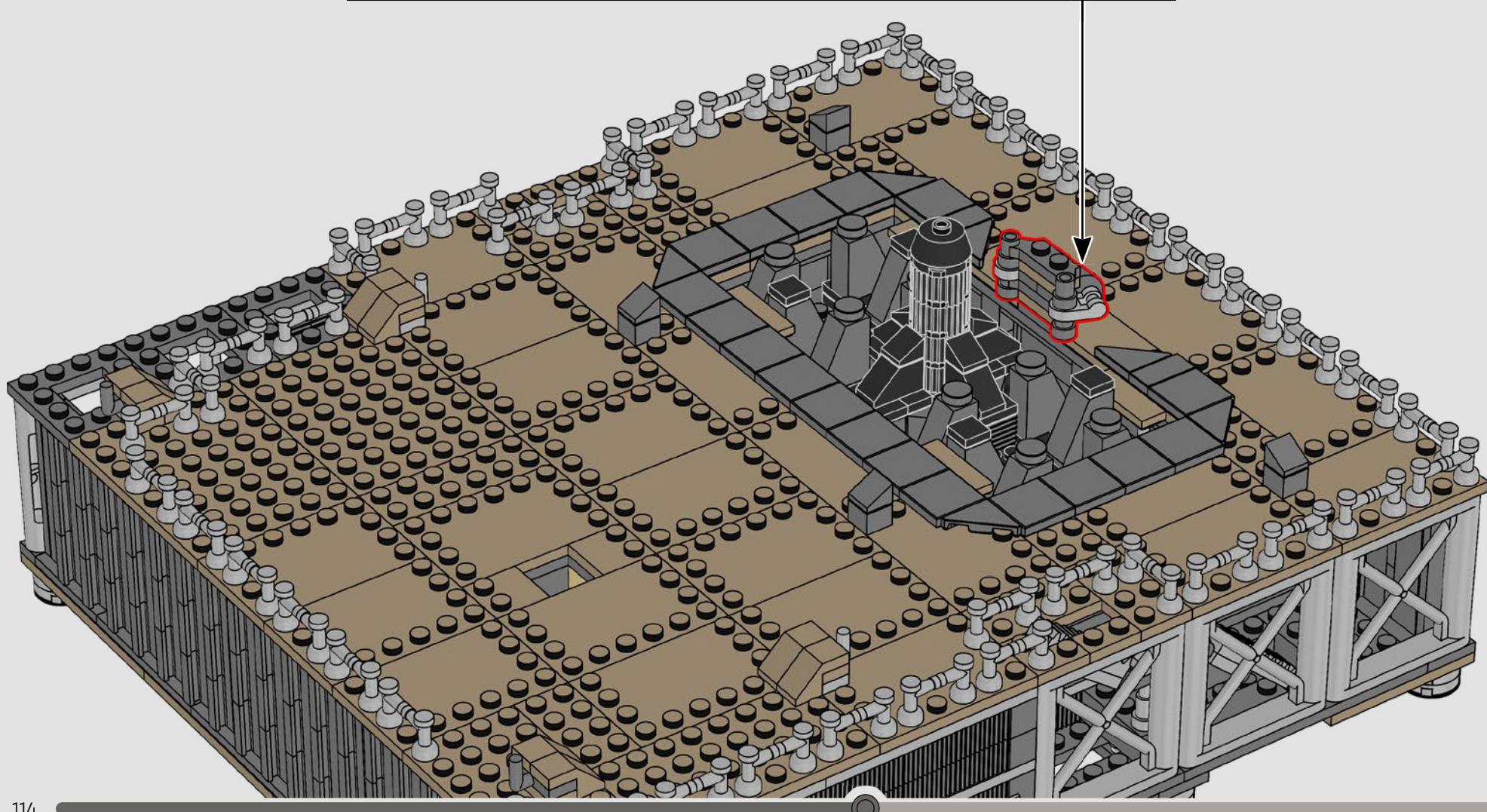
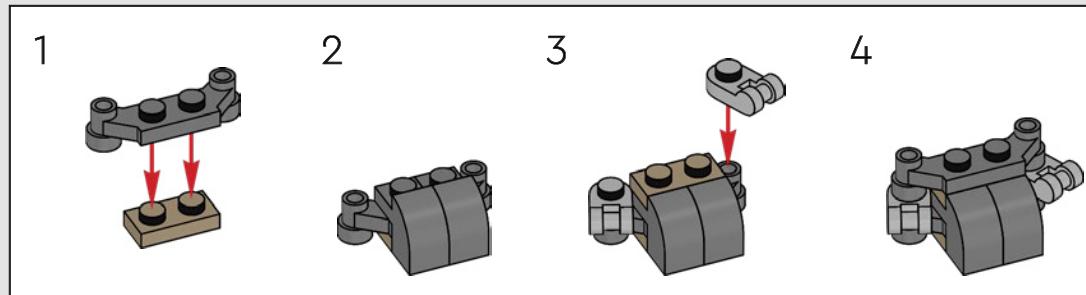
146

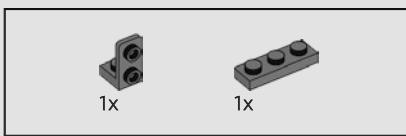
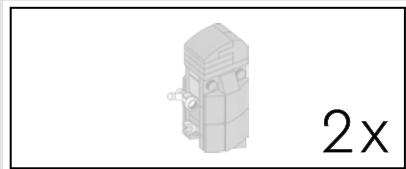




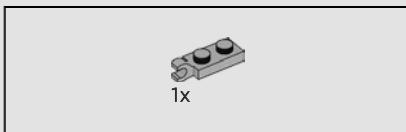
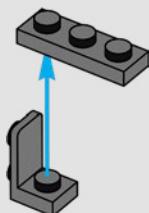


147

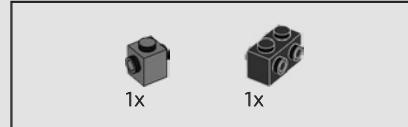
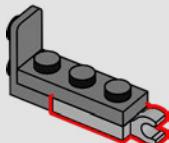




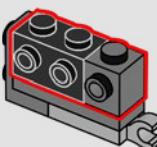
148



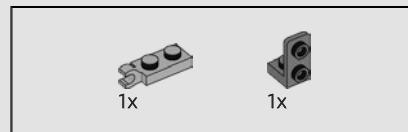
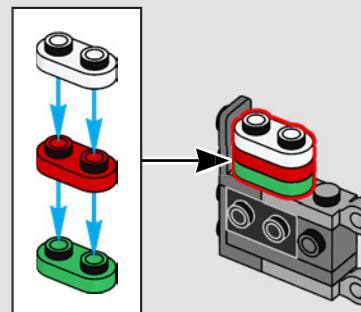
149



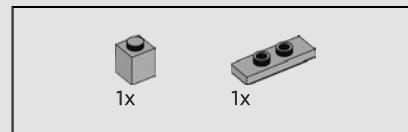
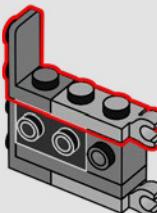
150



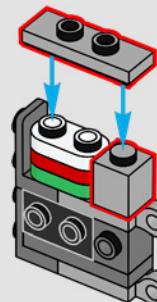
152



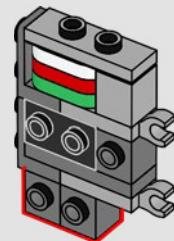
151



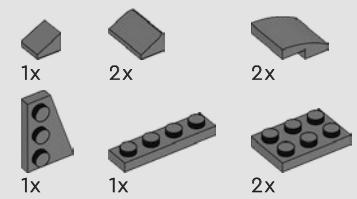
153



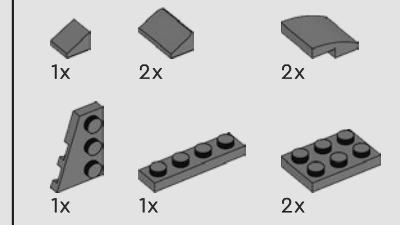
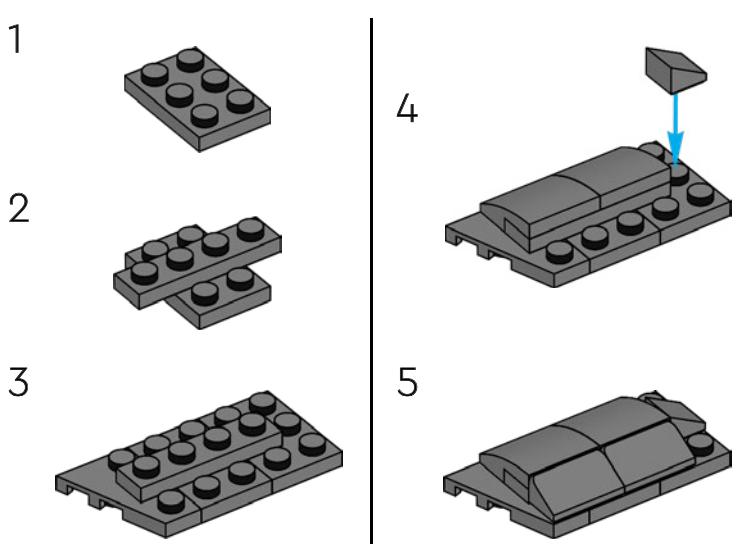
154



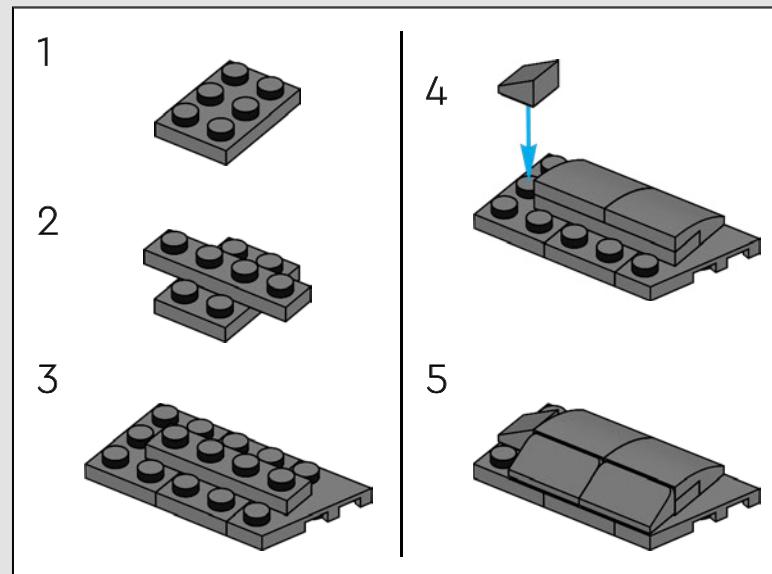
A LEGO® rocket must be powered the LEGO way, of course. The stacked rounded 1x2 plates inside the 'petrol station' in front of the rocket have a long LEGO history!

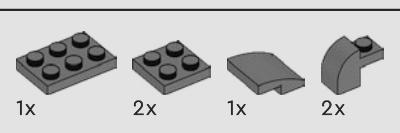


155

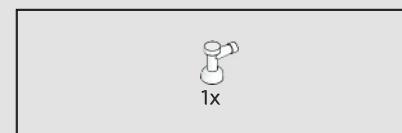
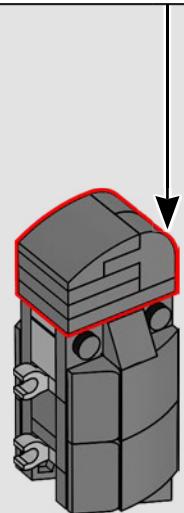
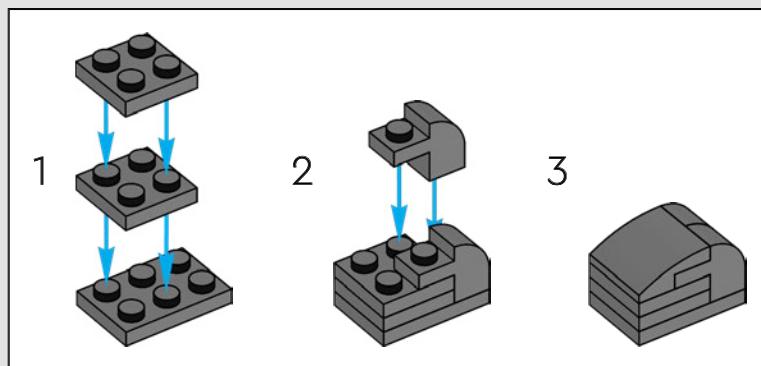


156

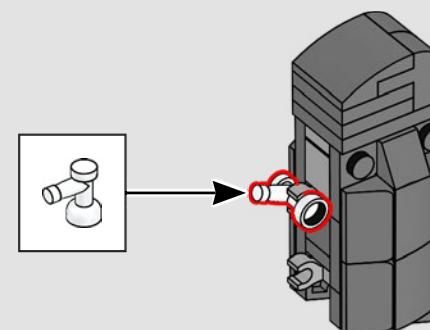




157



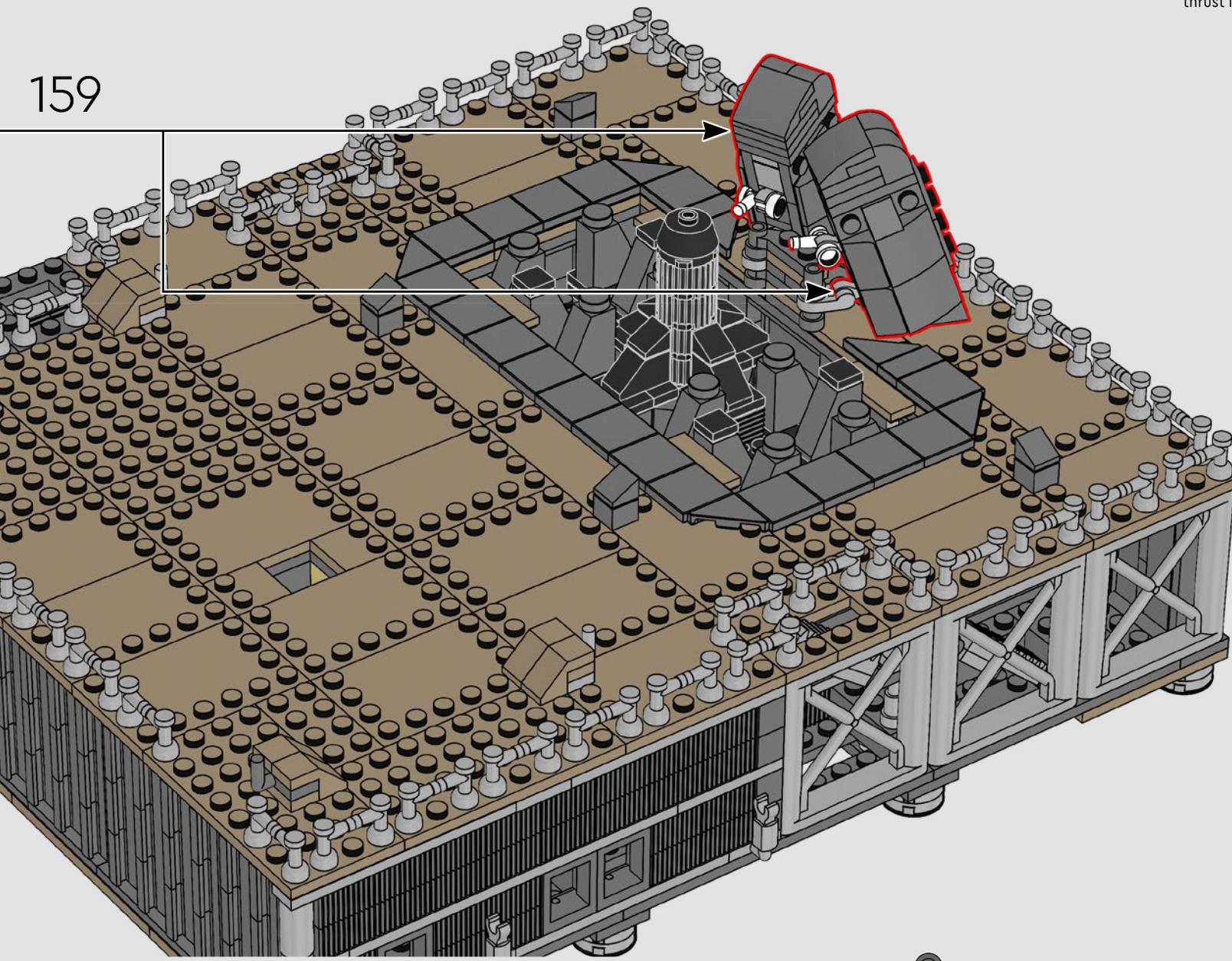
158

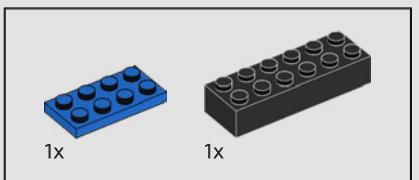
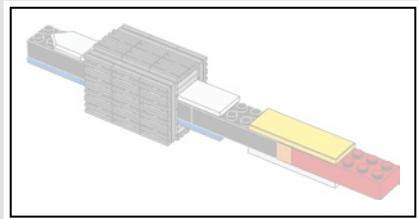


2x

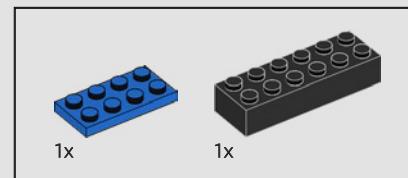
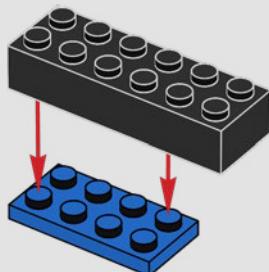
SLS uses larger solid rocket boosters than the NASA space shuttles. Liquid hydrogen and liquid oxygen feed the RS-25 engines, which operate at a higher thrust level and with new controllers.

159

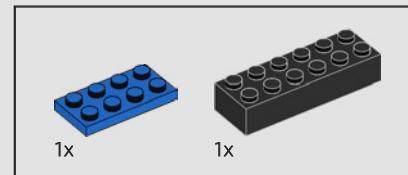
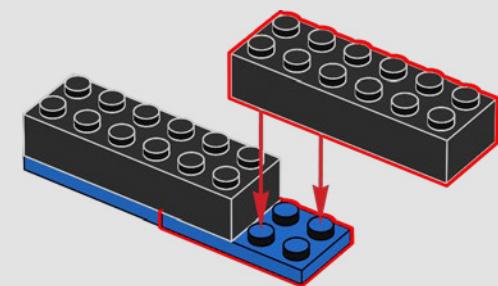




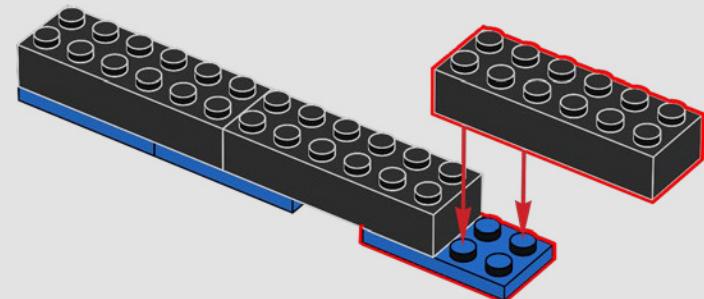
160



161



162



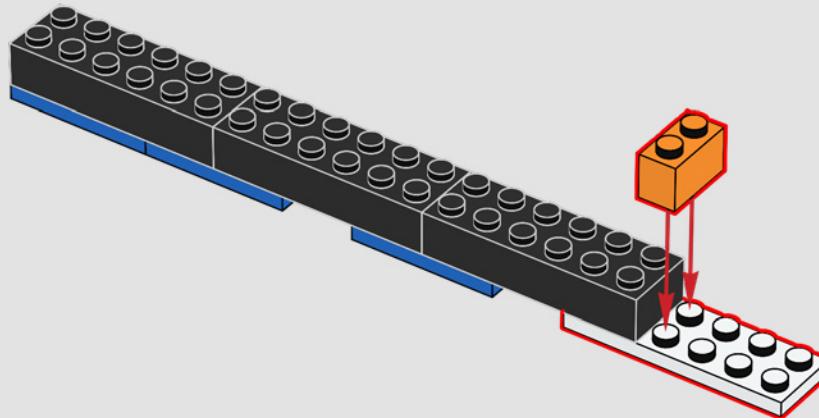


1x



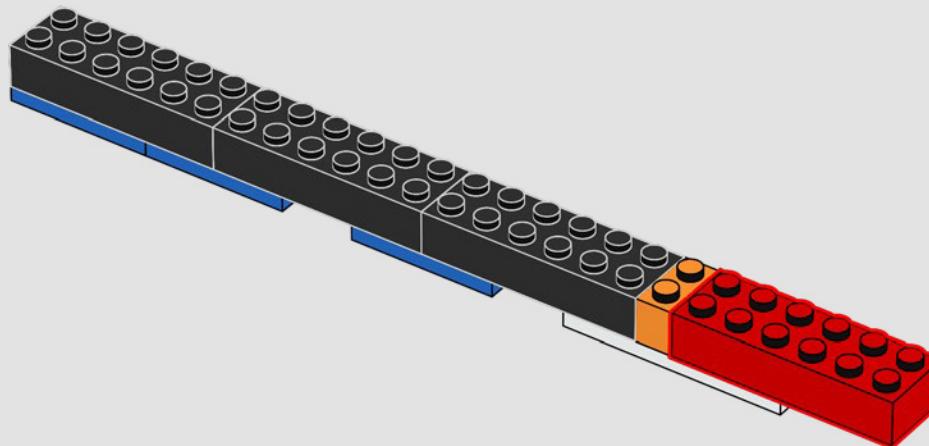
1x

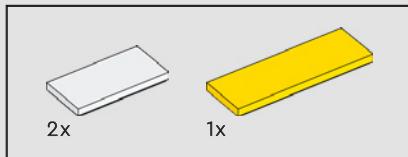
163



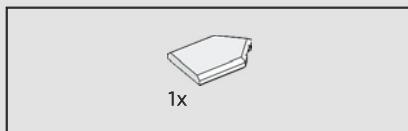
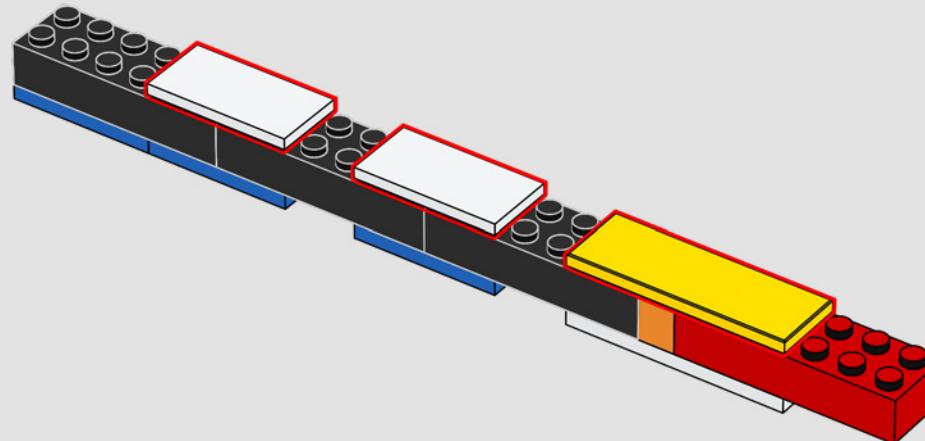
1x

164

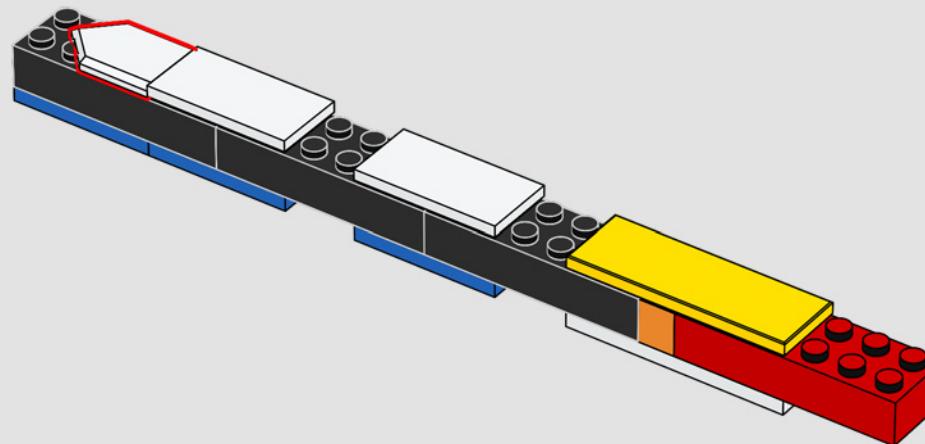


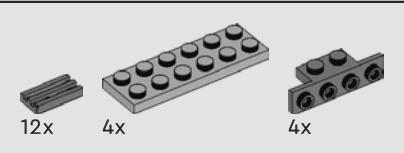


165

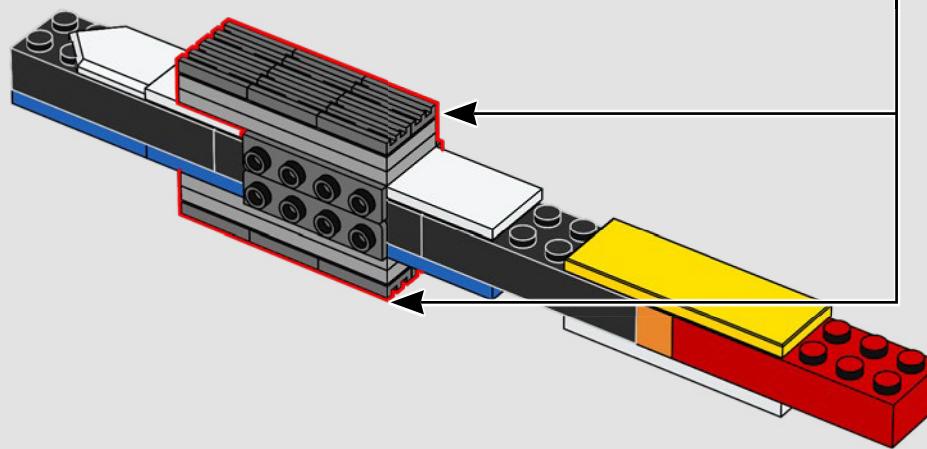
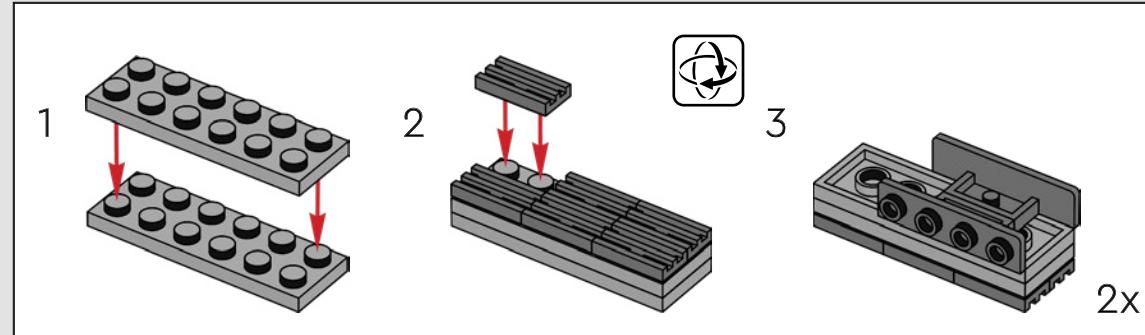


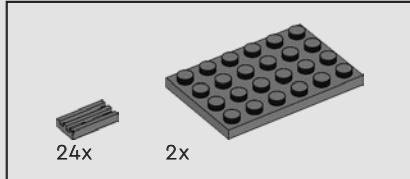
166



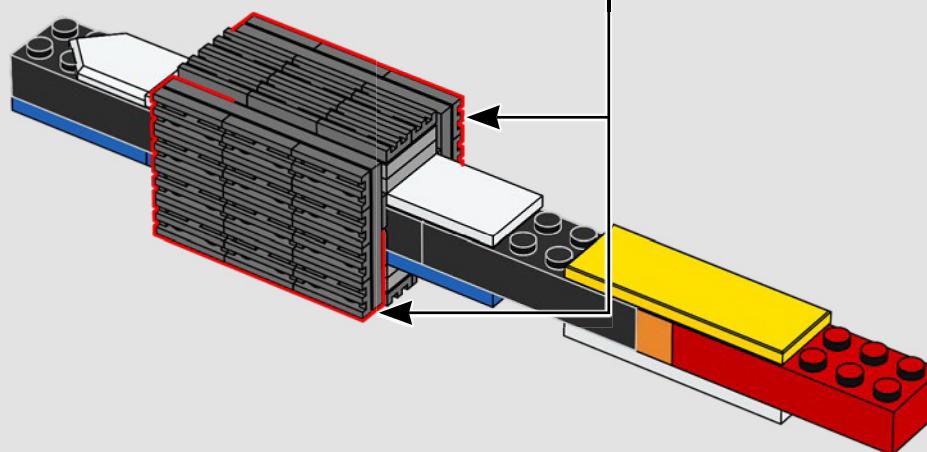
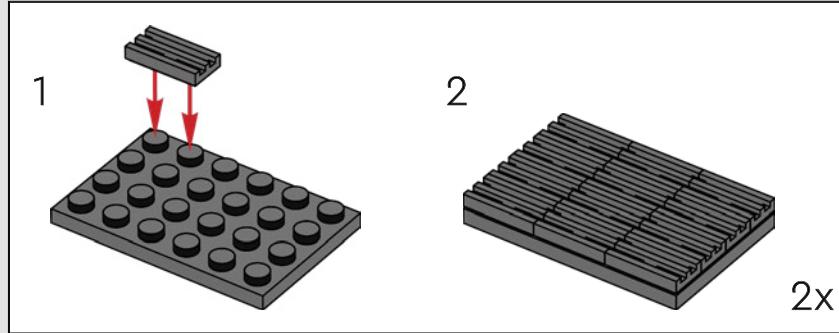


167

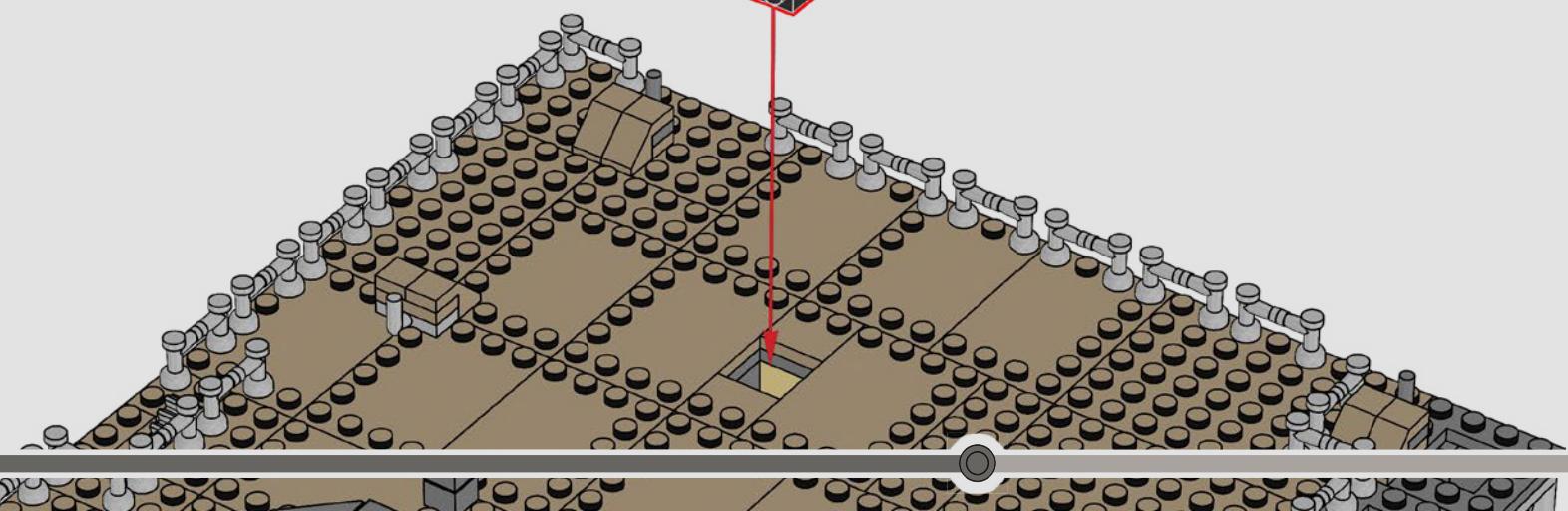
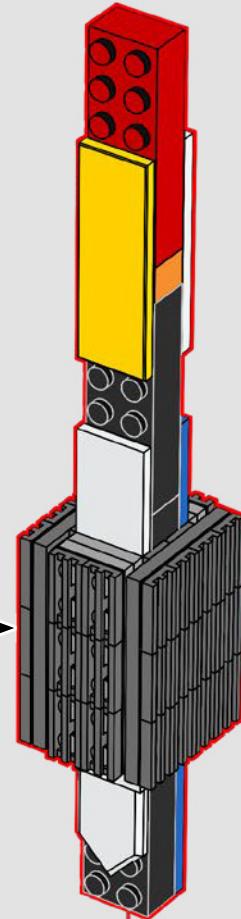
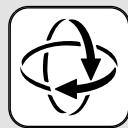




168



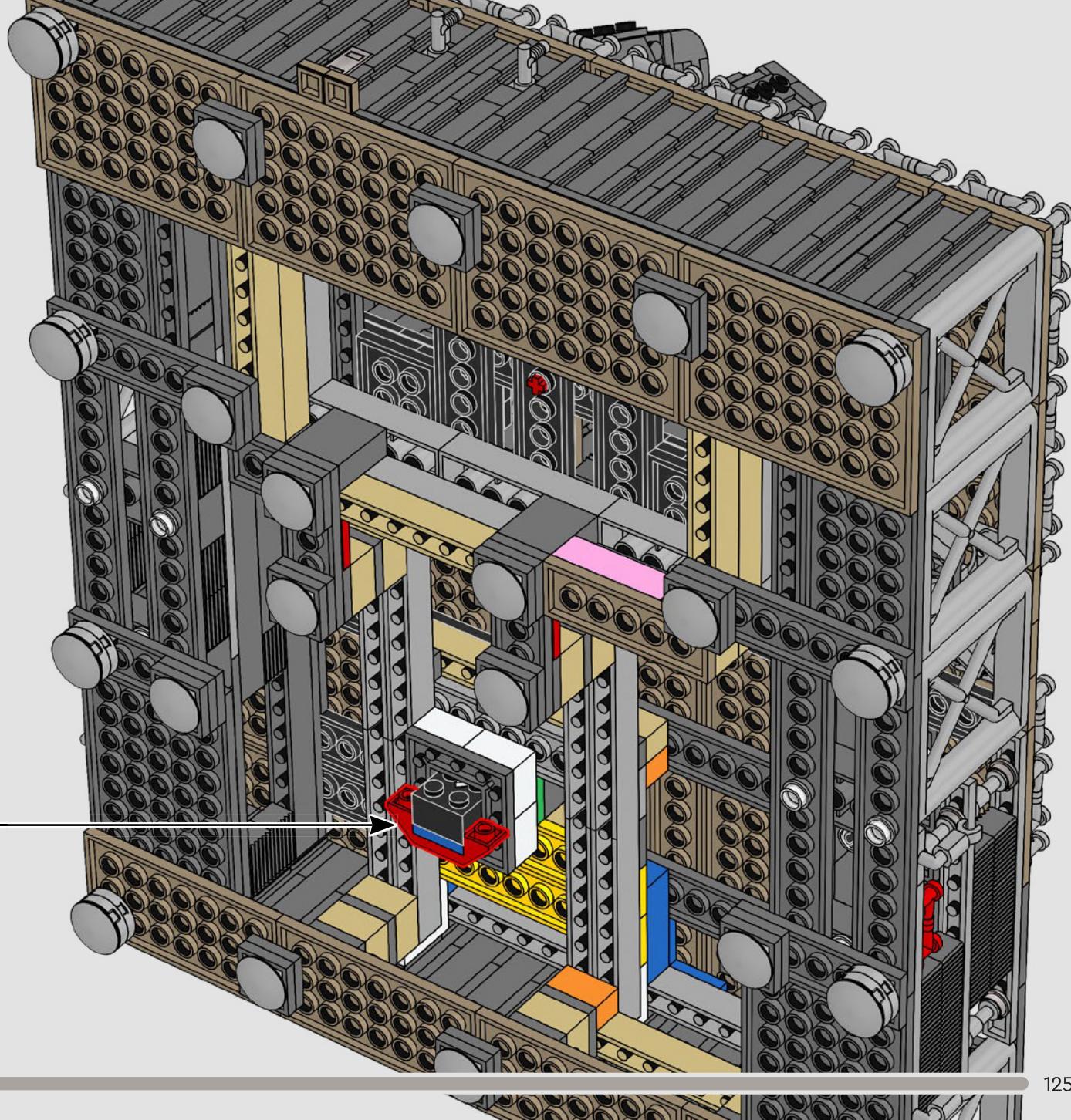
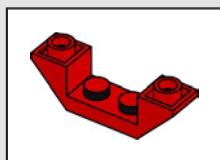
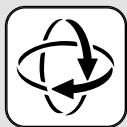
169





1x

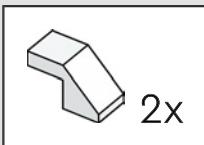
170



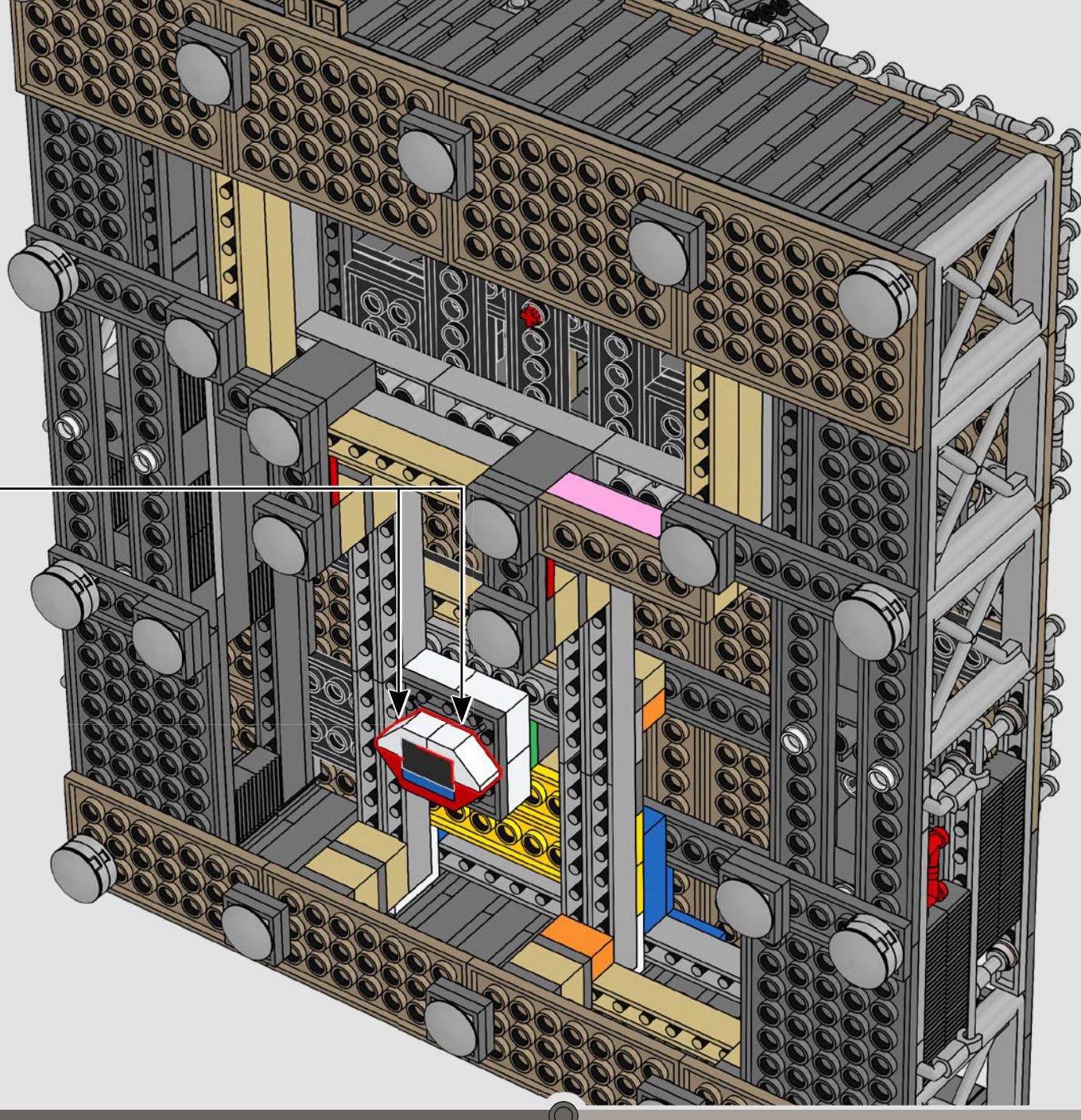


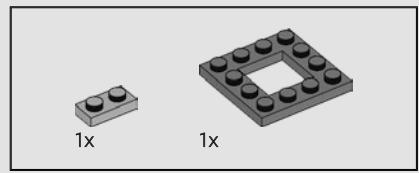
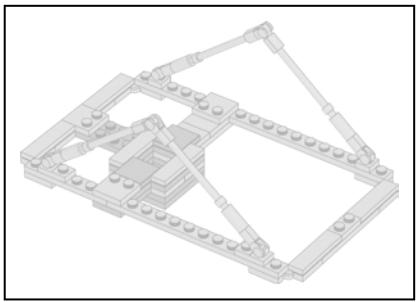
2x

171

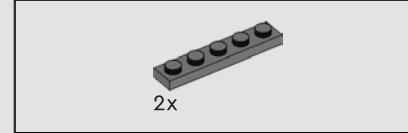
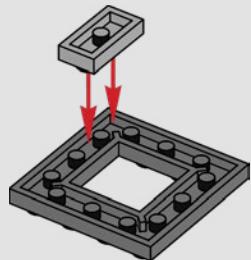


2x

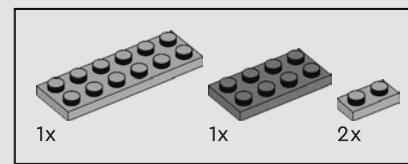
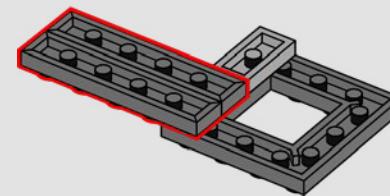




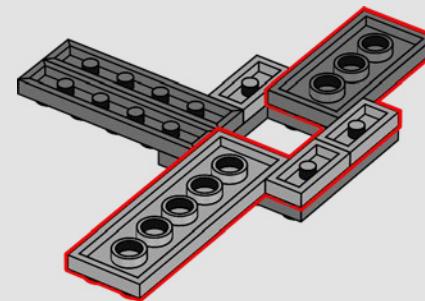
172

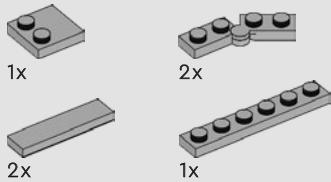


173

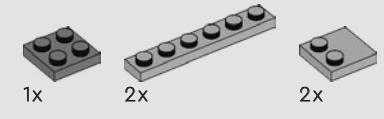
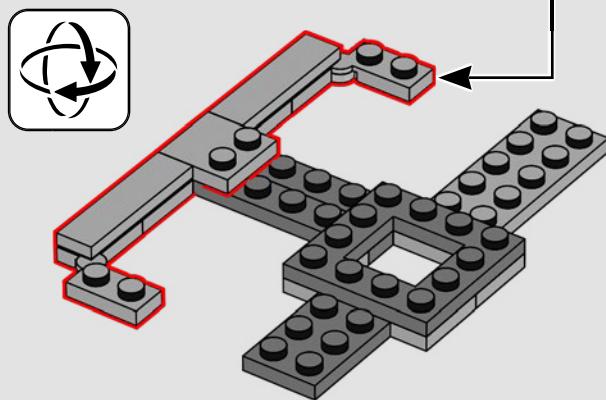
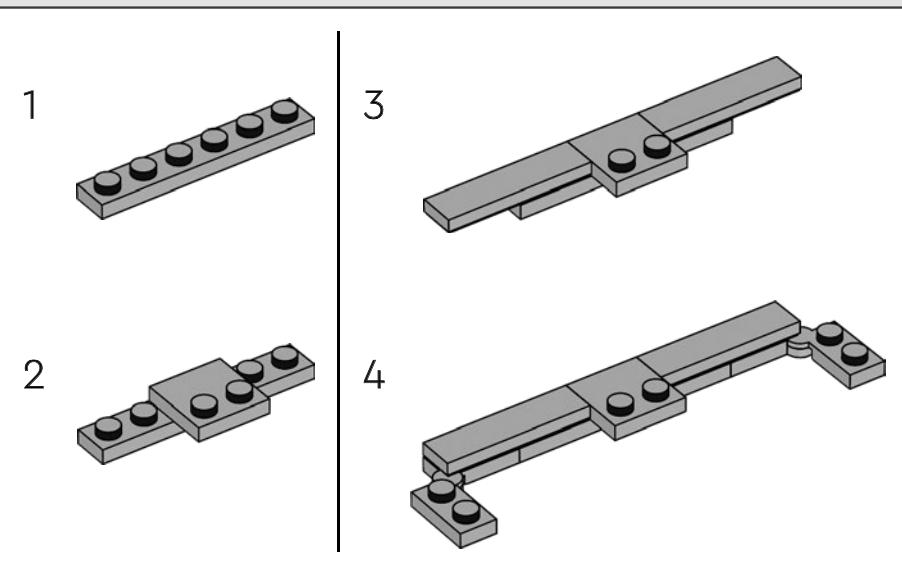


174

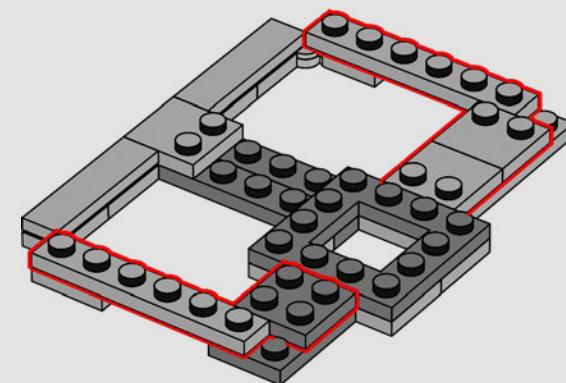


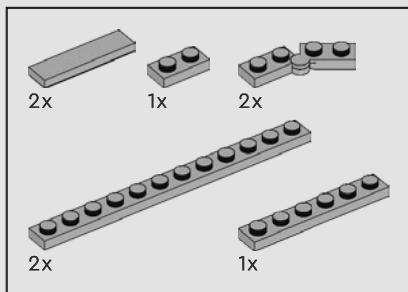


175



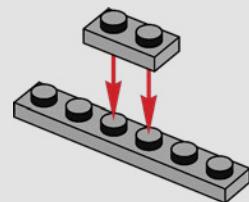
176



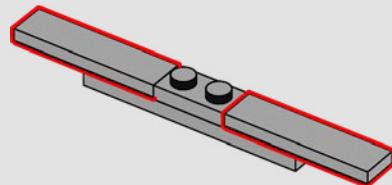


177

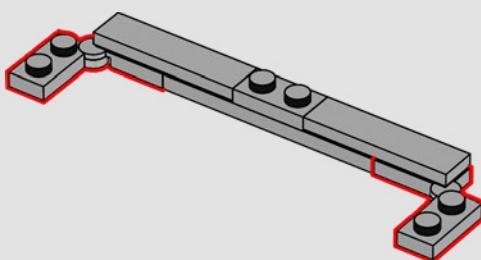
1



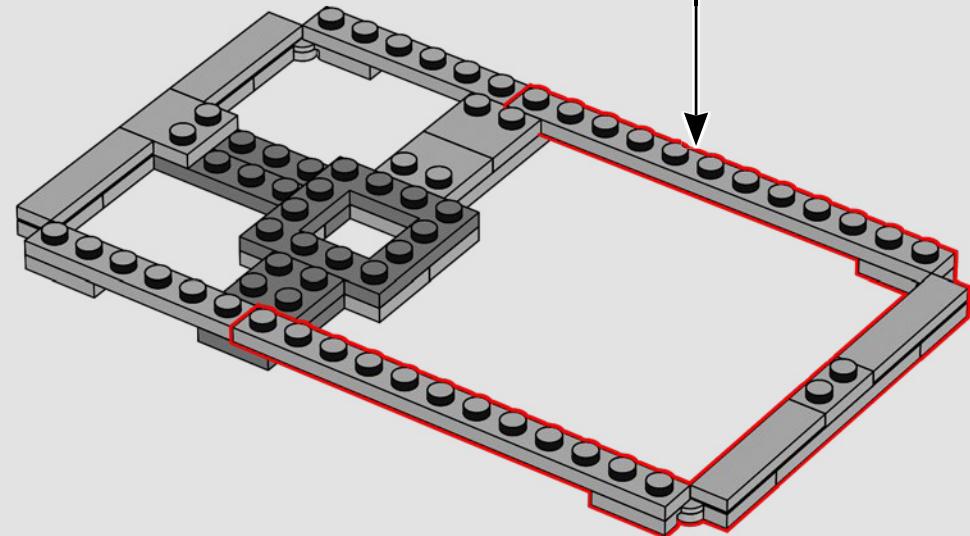
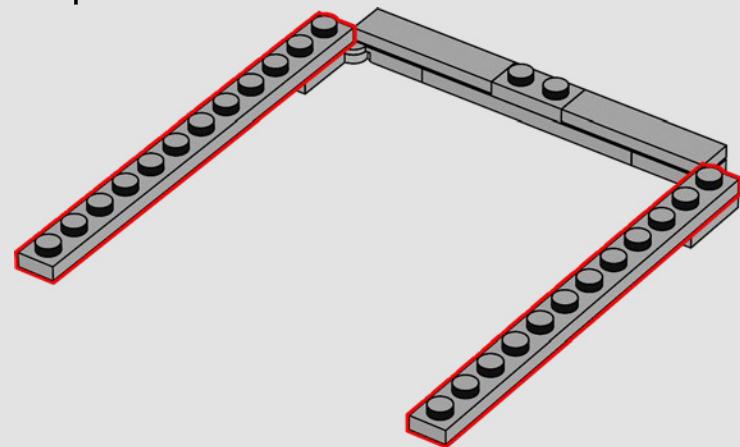
2

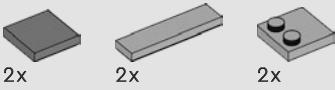


3

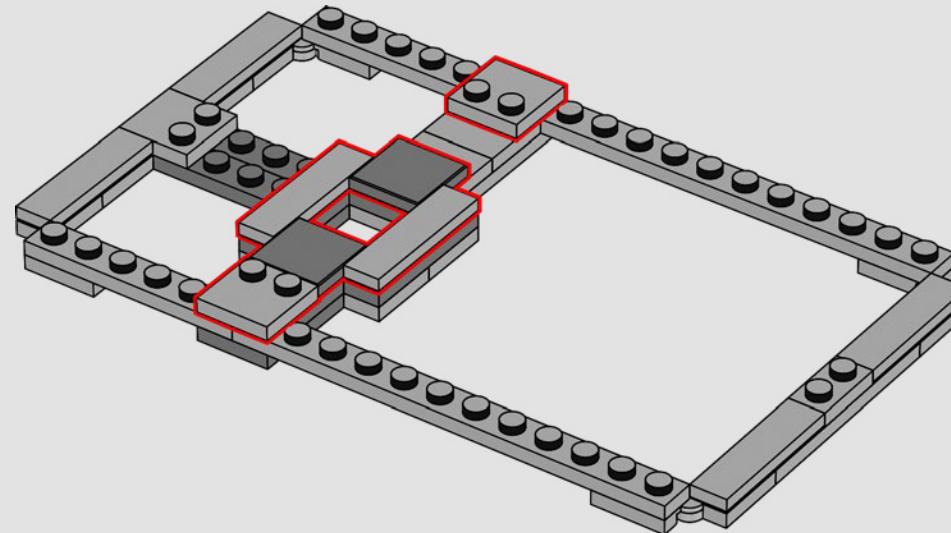


4

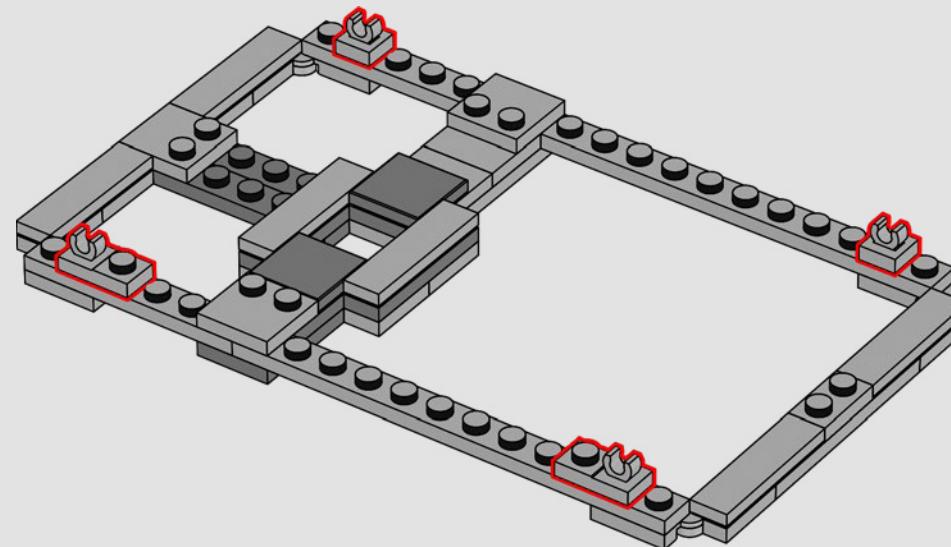


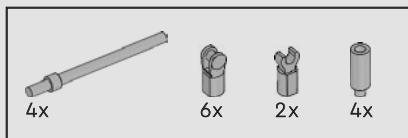
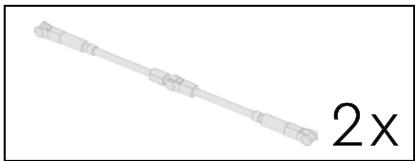


178



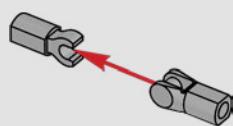
179



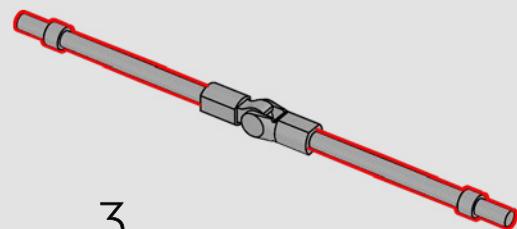


180

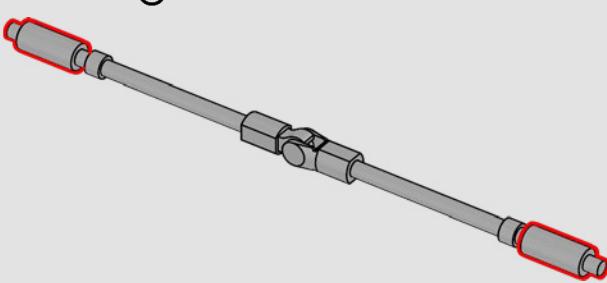
1



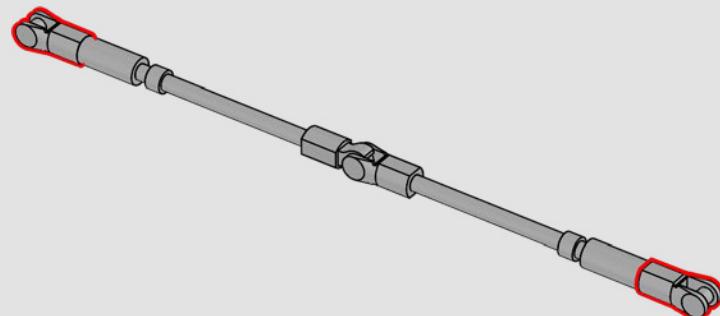
2



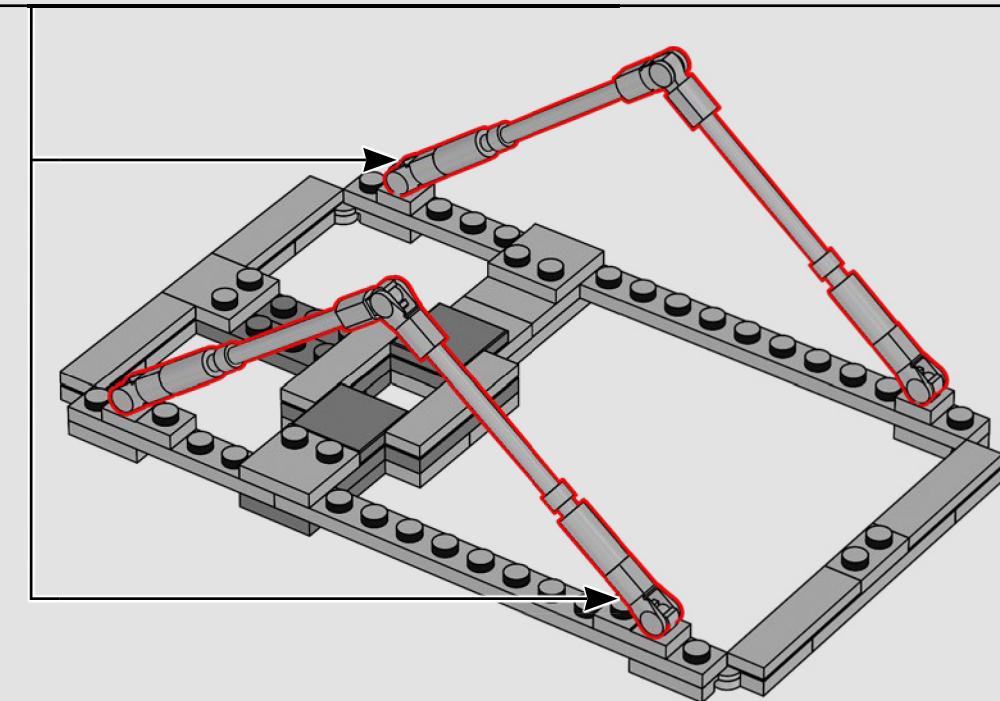
3



4



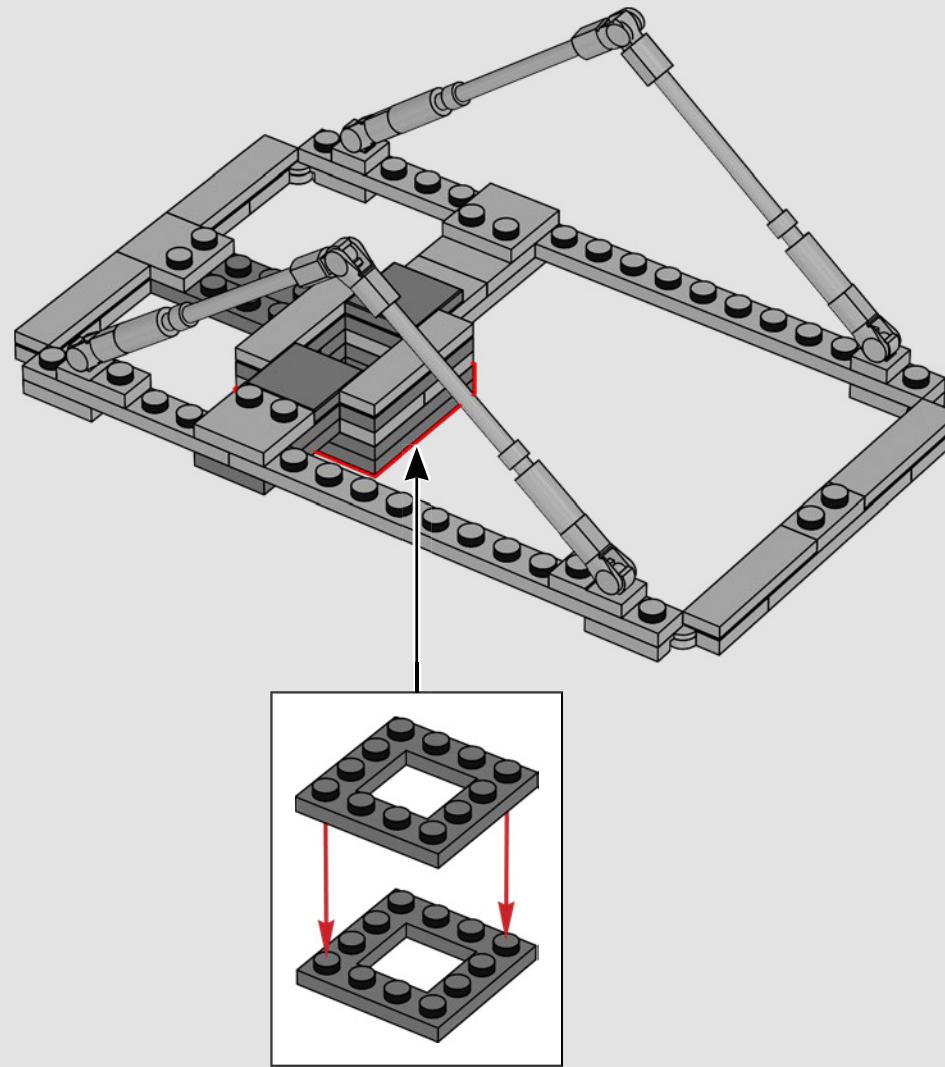
2x



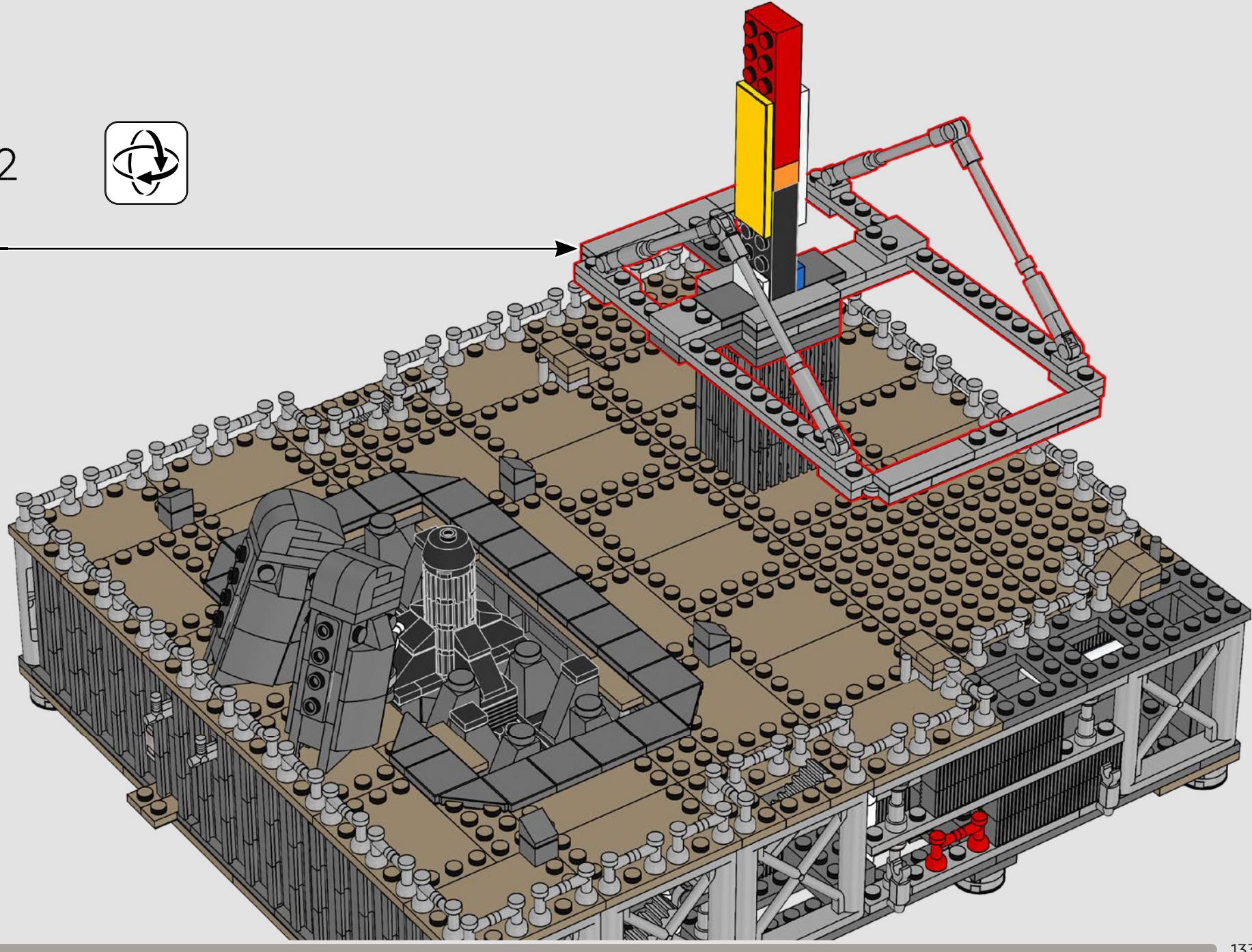
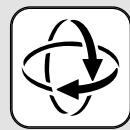


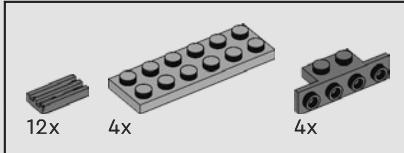
2x

181

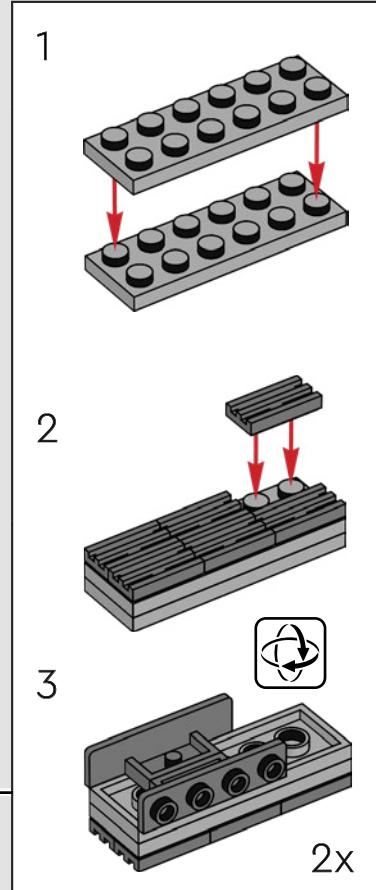
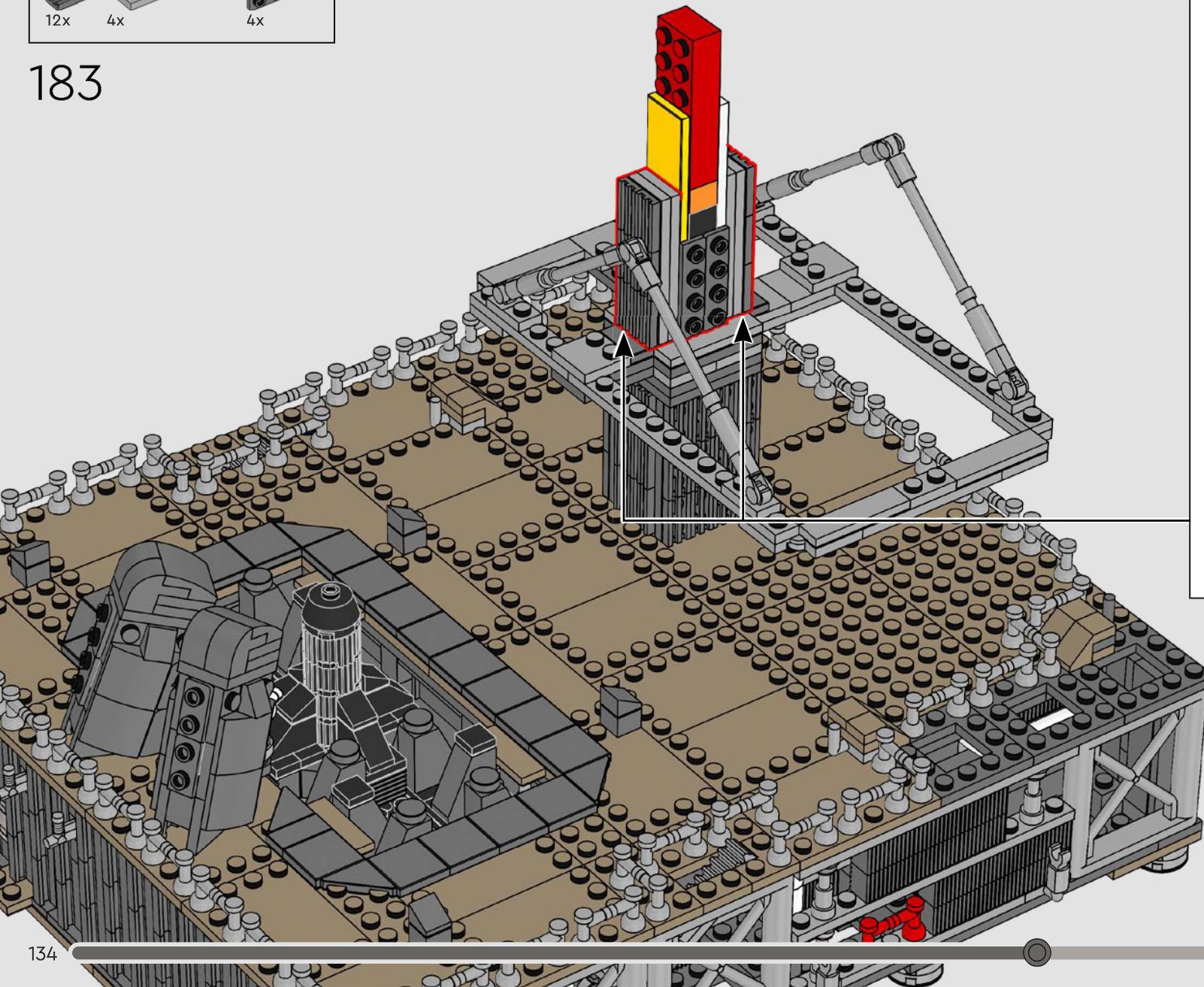


182





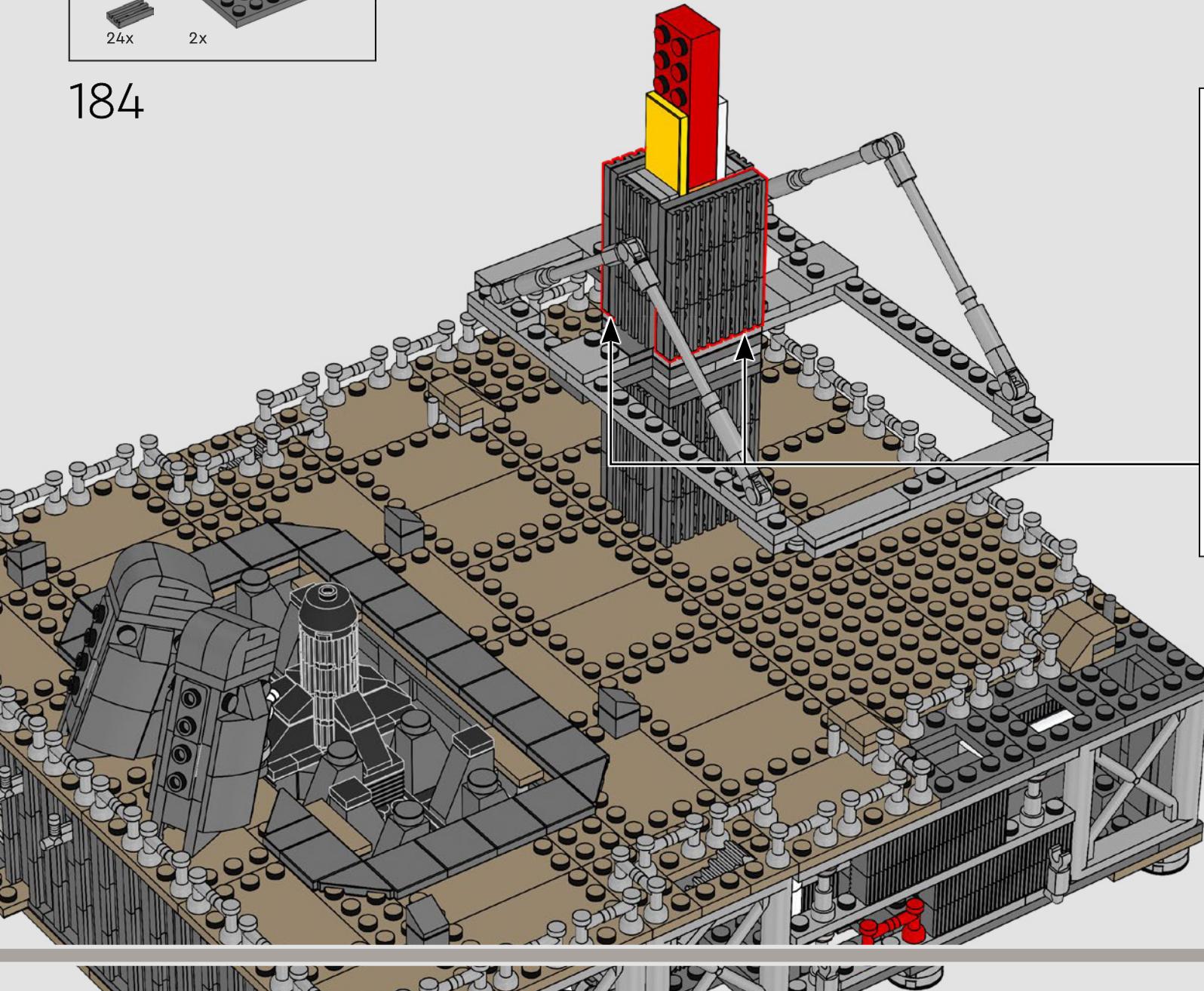
183



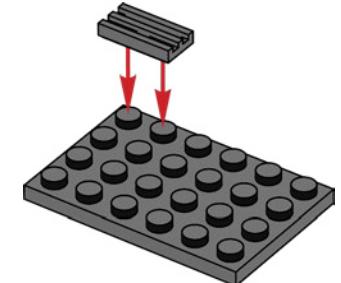
24x 2x



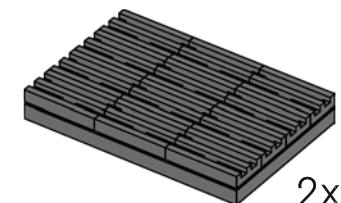
184

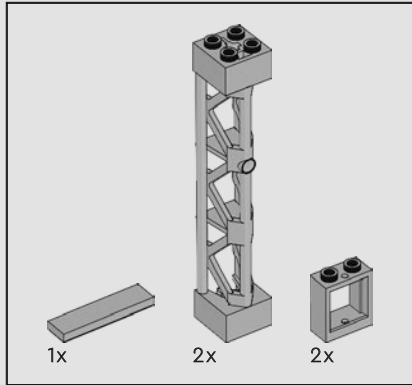


1

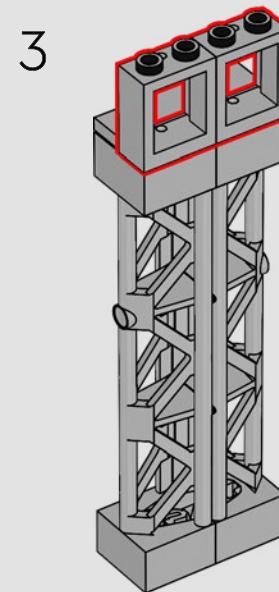
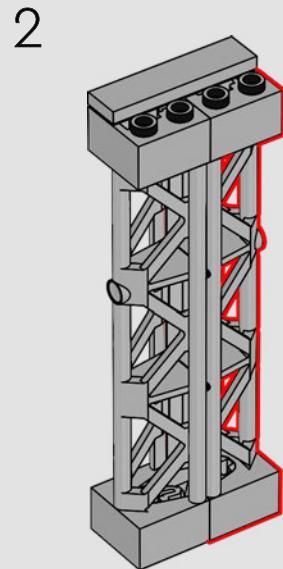
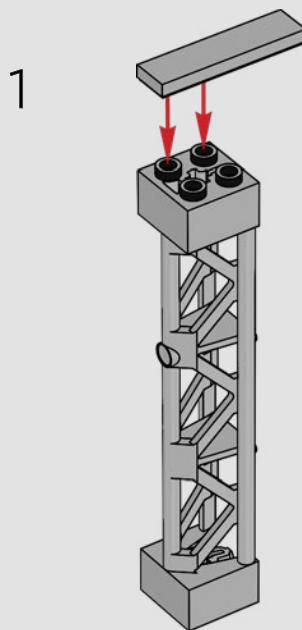


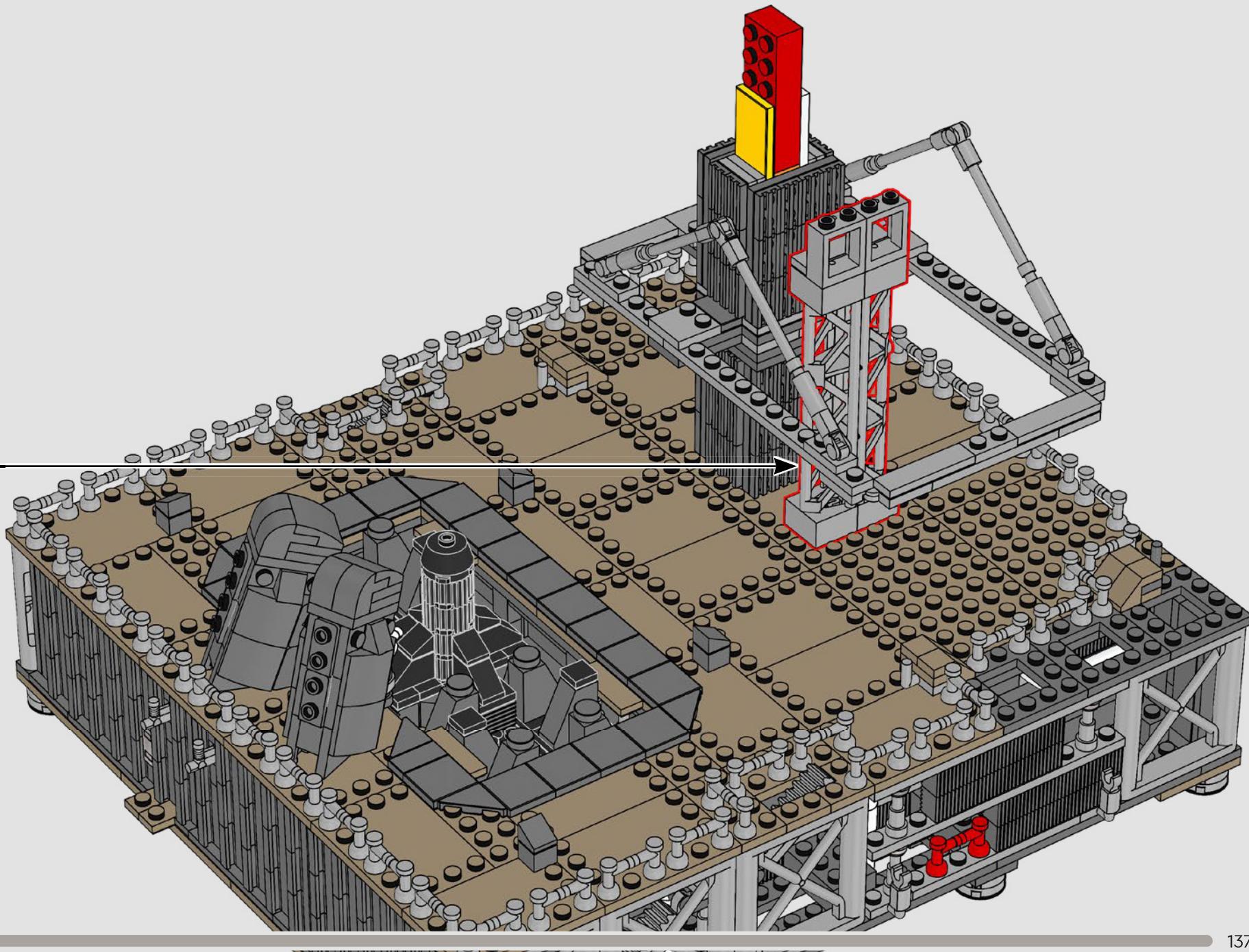
2

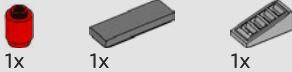




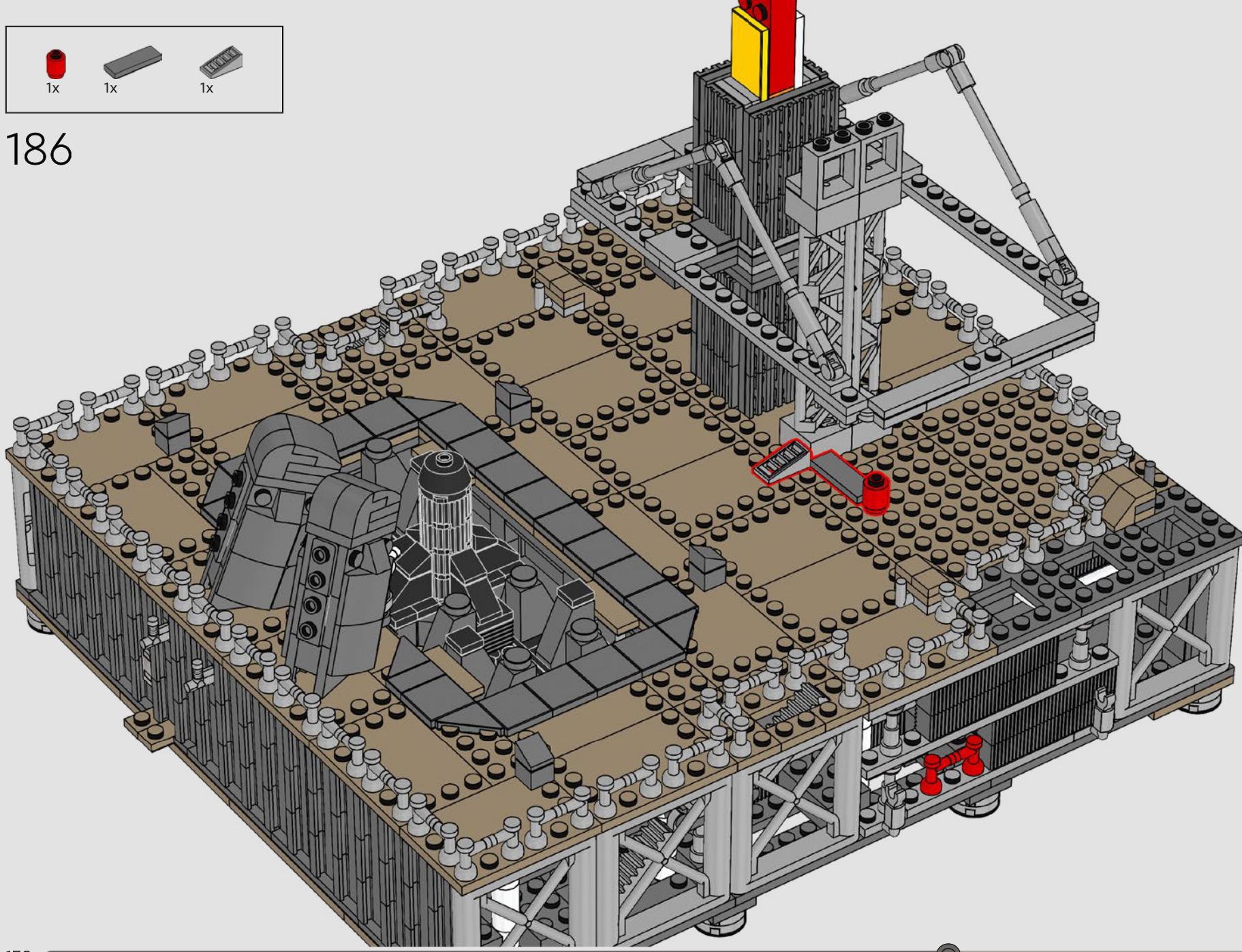
185

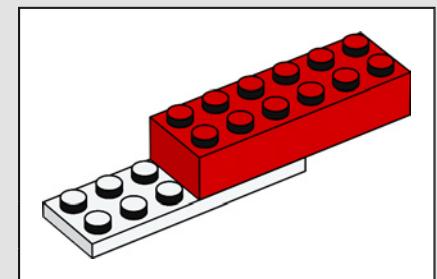
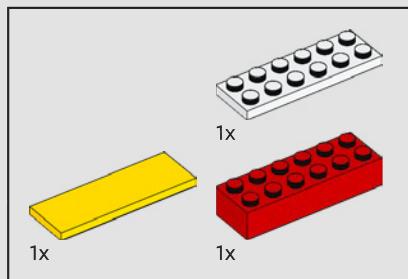




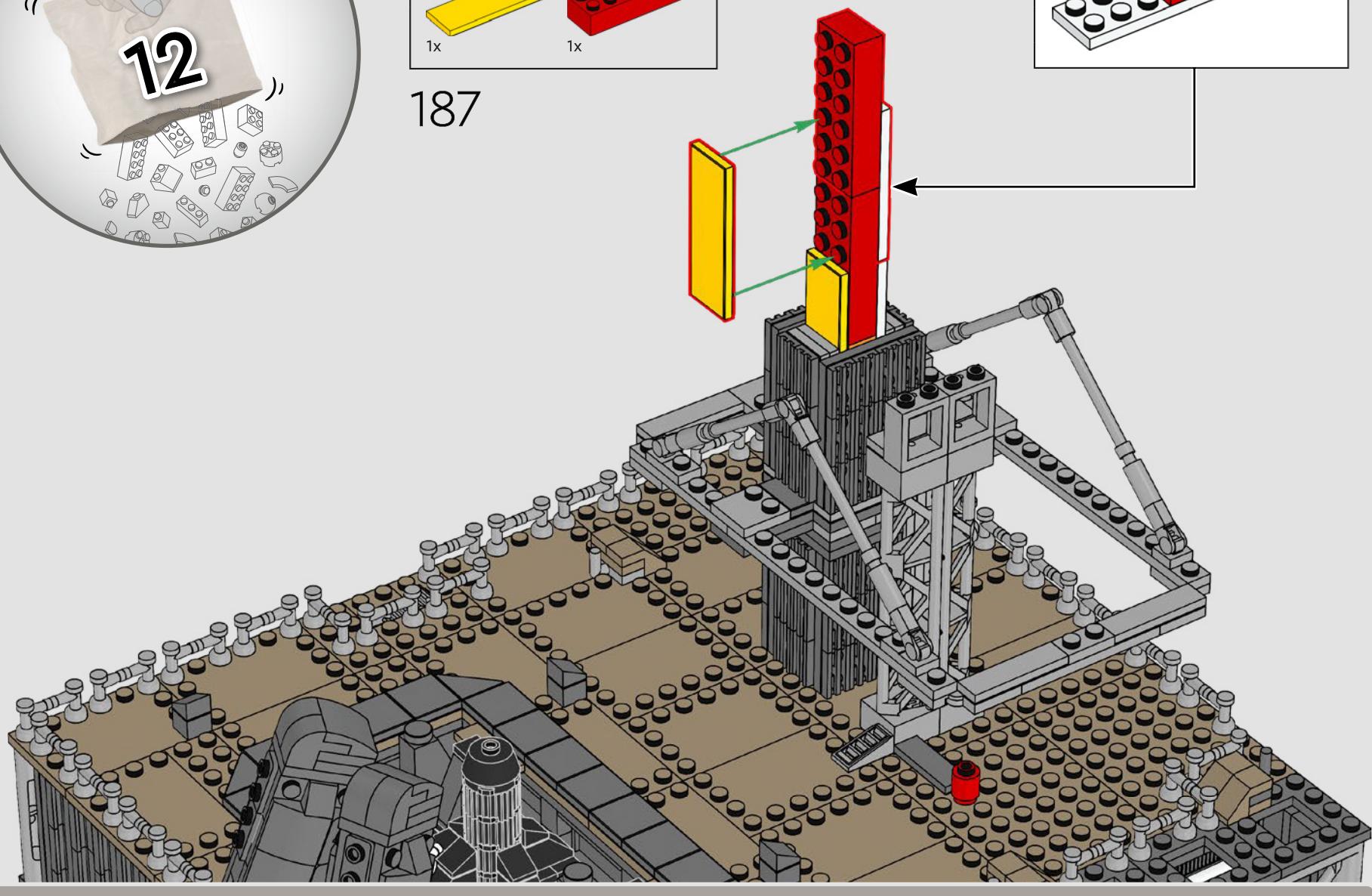


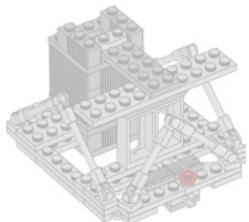
186



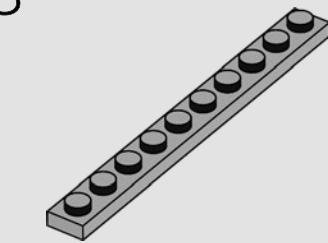


187

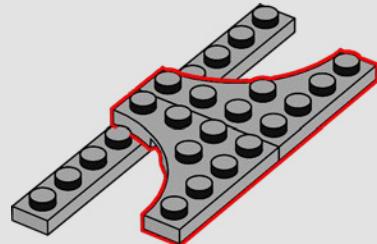




188



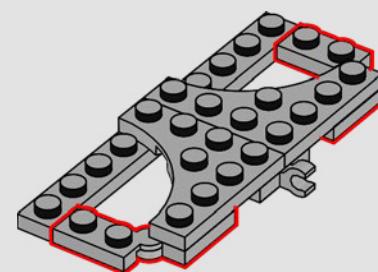
189



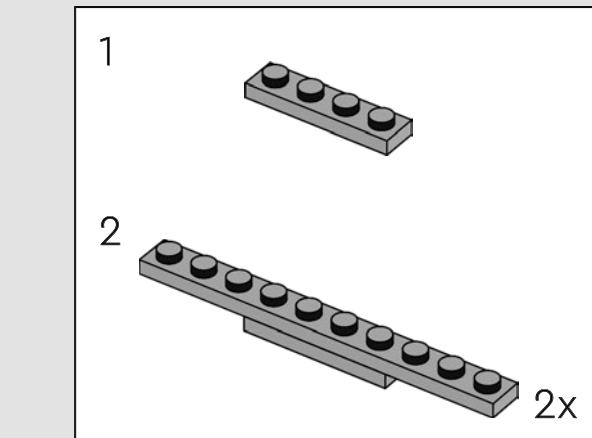
190



191



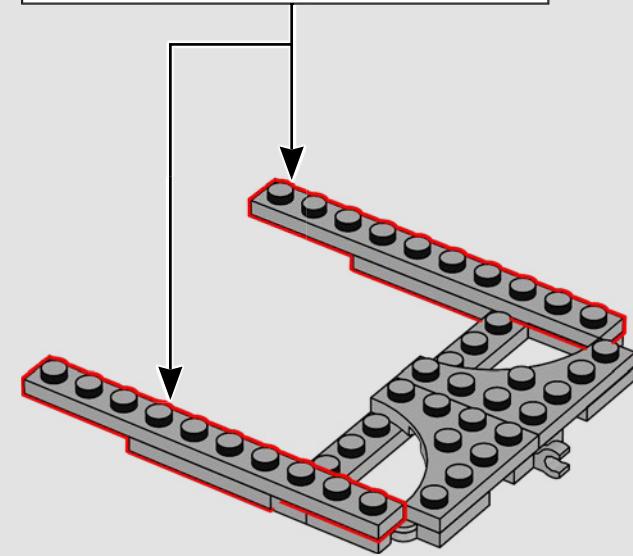
192

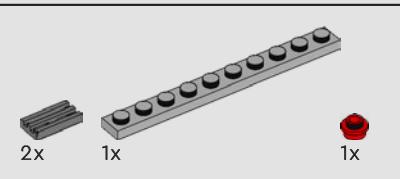


1

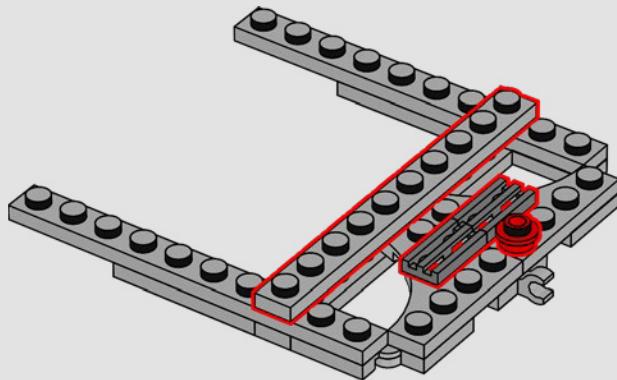
2

2x

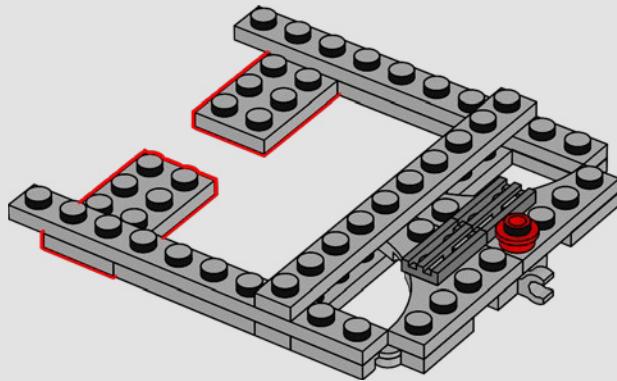




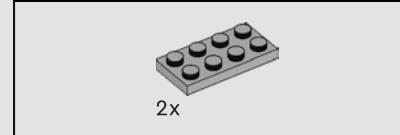
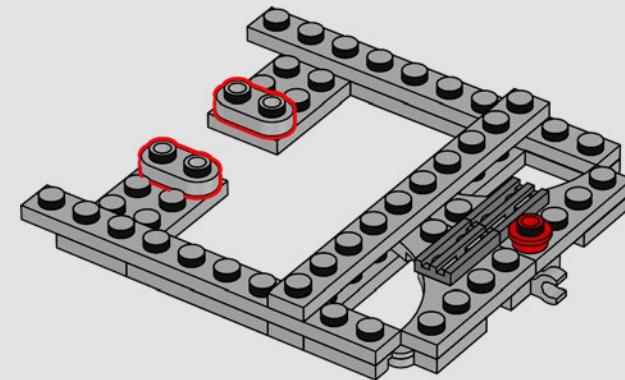
193



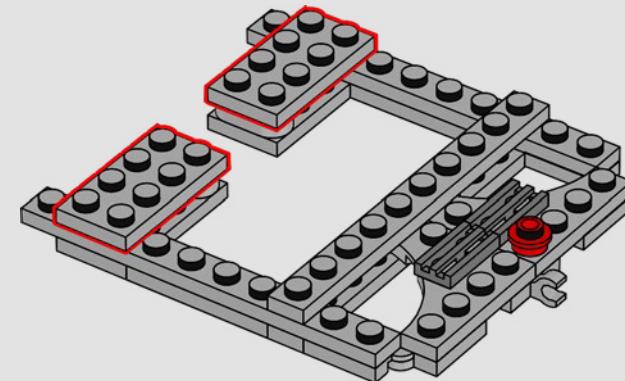
194



195

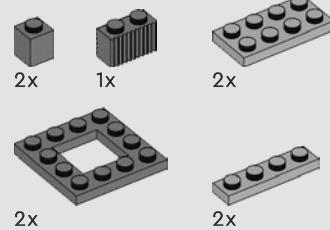


196

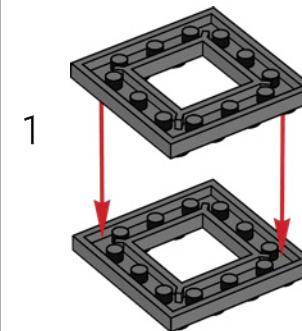




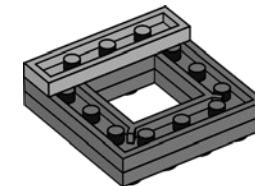
197



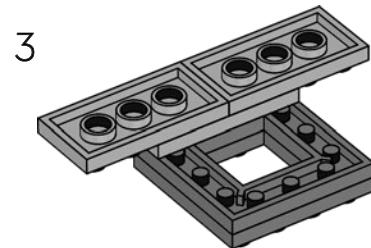
198



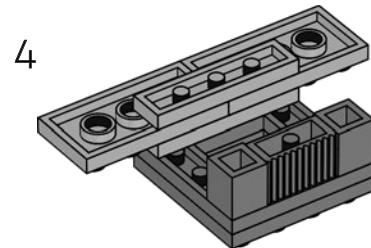
1



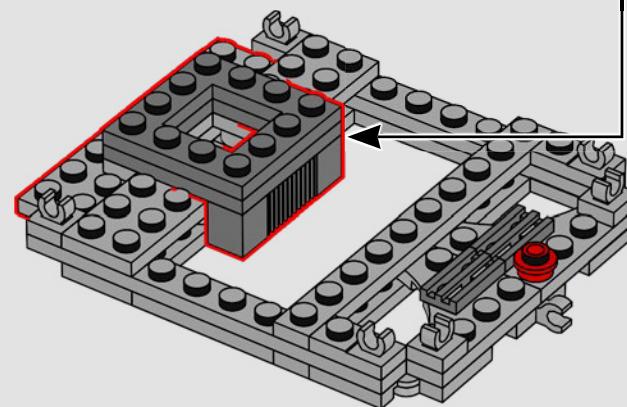
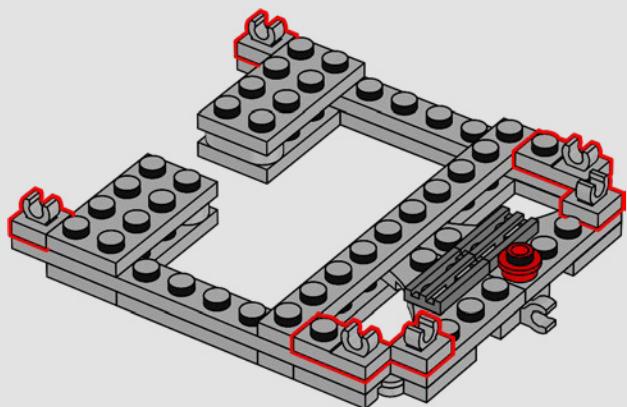
2



3



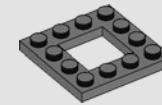
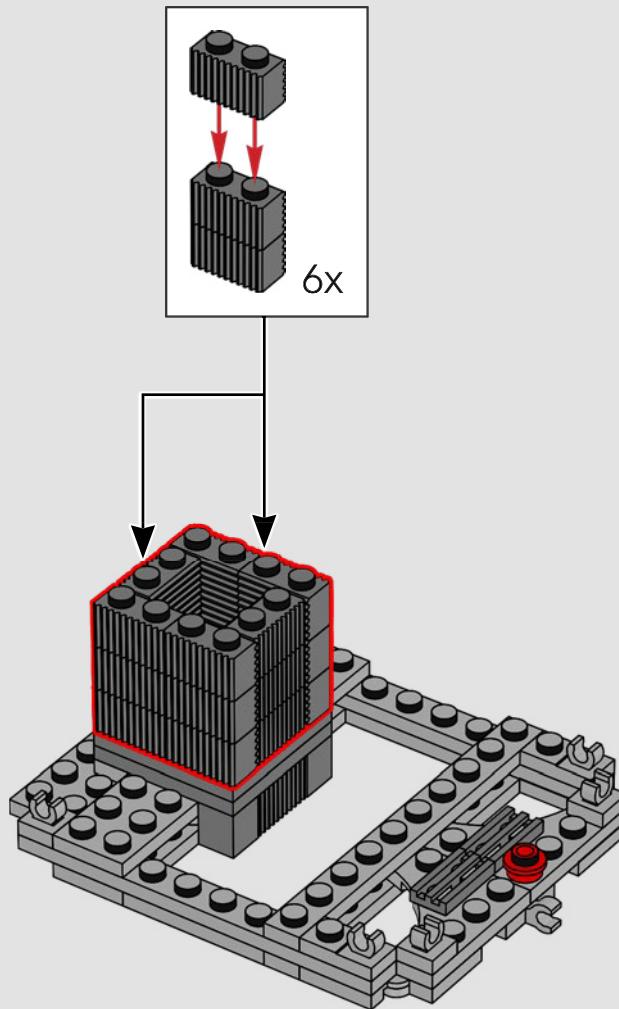
4





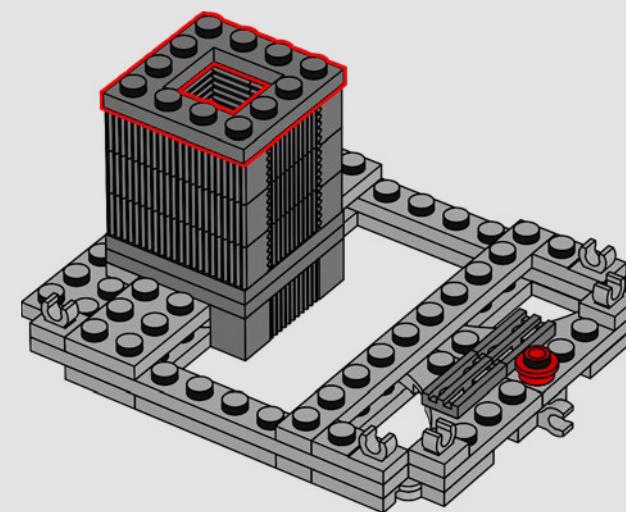
18x

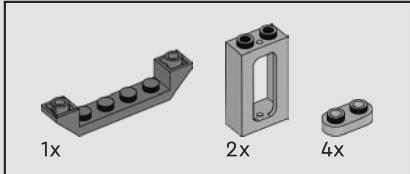
199



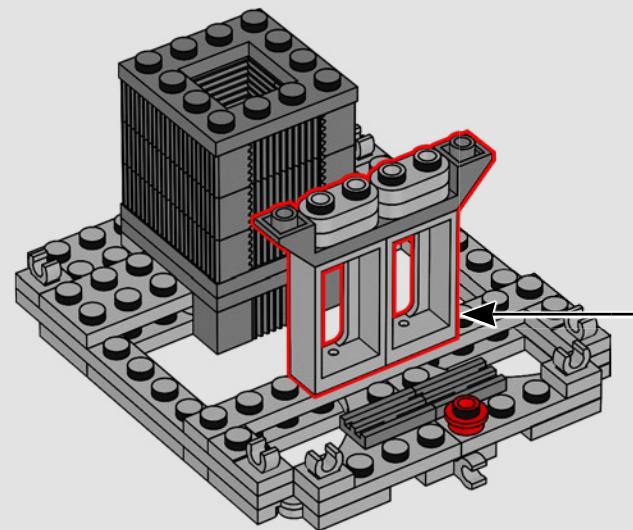
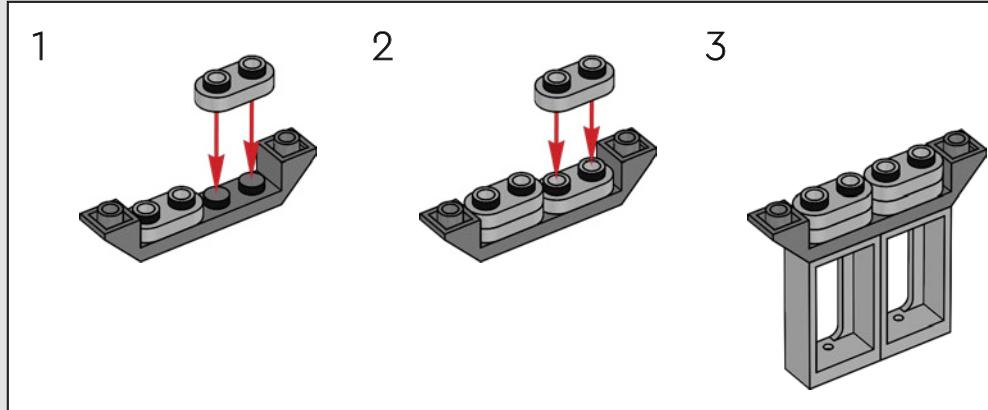
1x

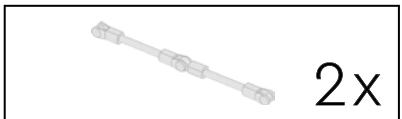
200





201

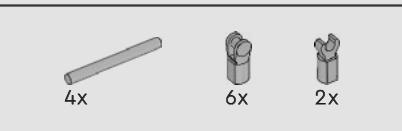




2x



1:1



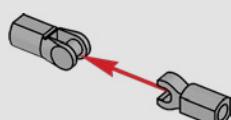
4x

6x

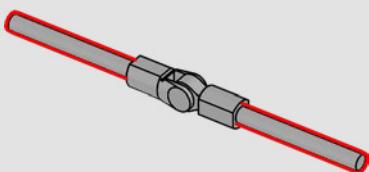
2x

202

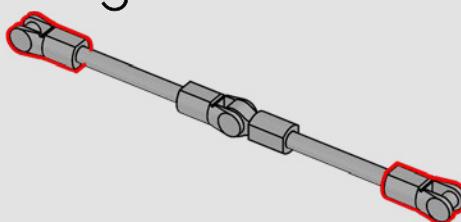
1



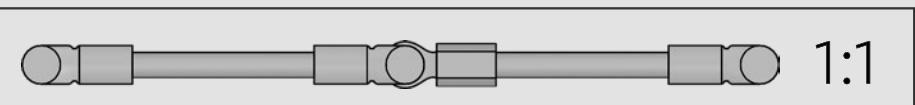
2



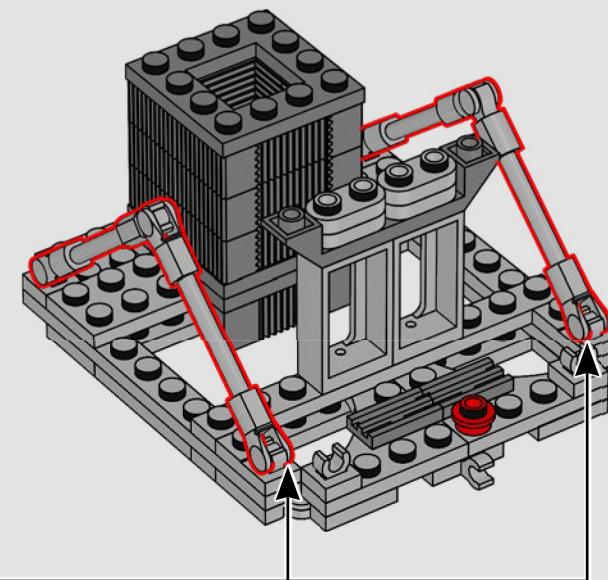
3



2x



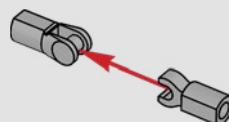
1:1



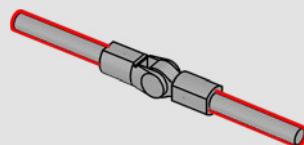


203

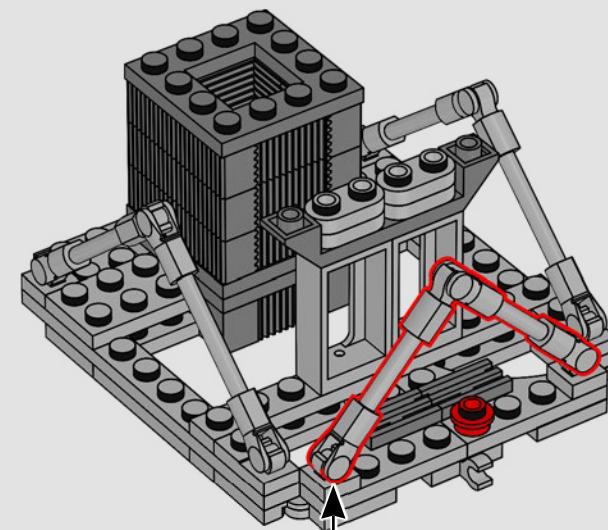
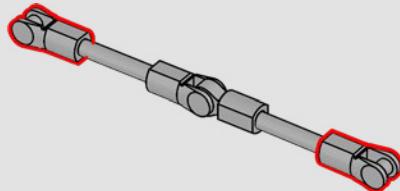
1

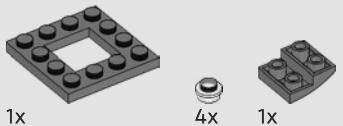


2

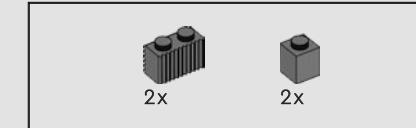
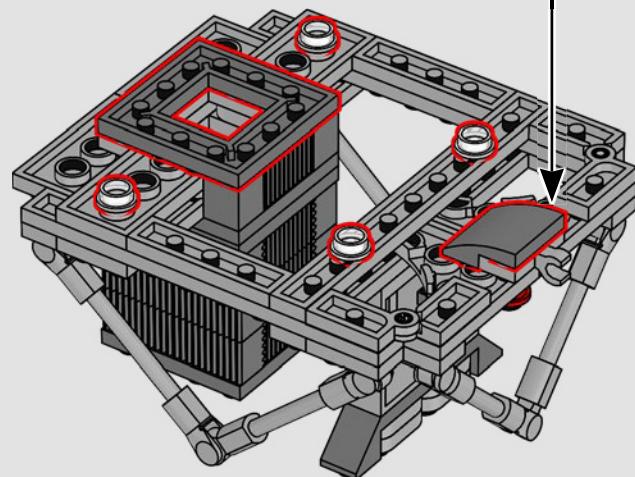
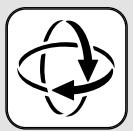


3

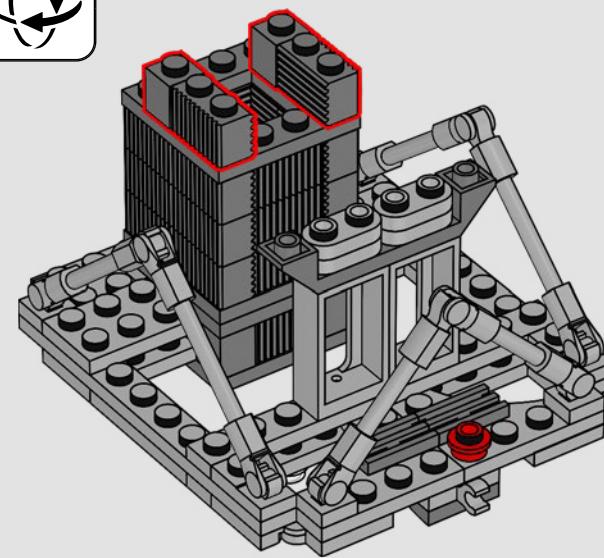
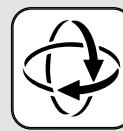


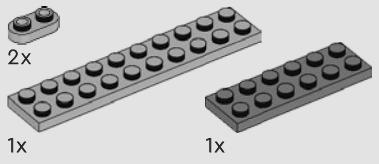


204

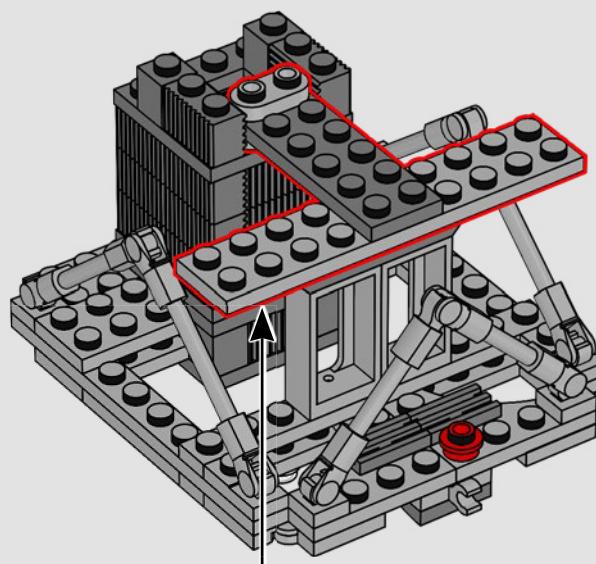
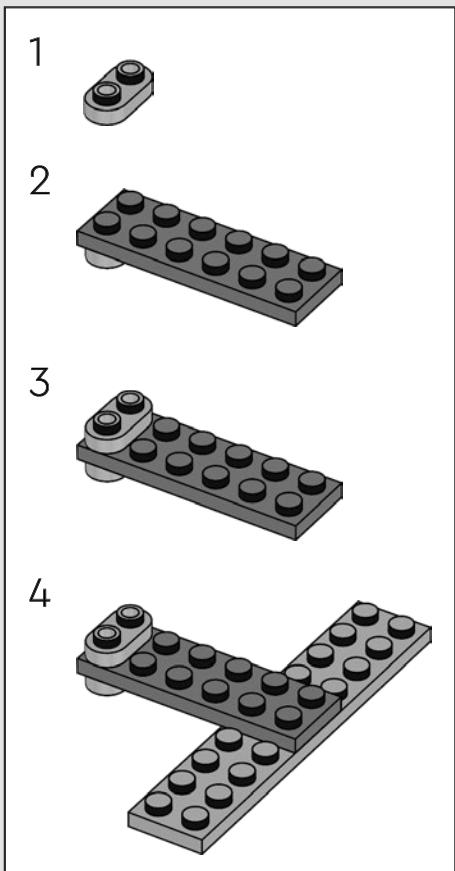


205

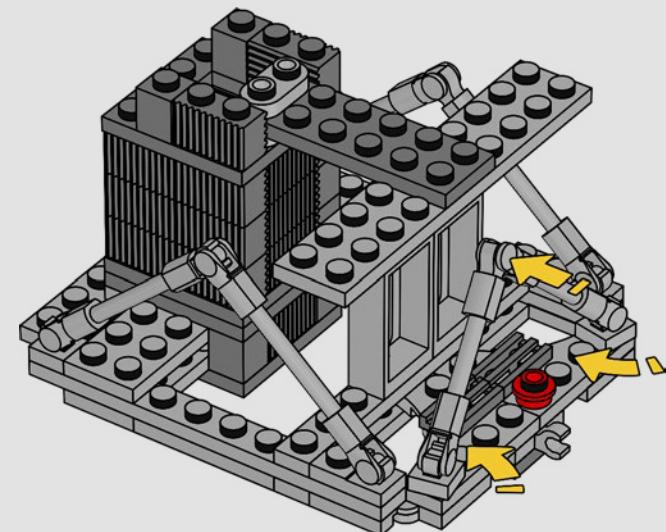




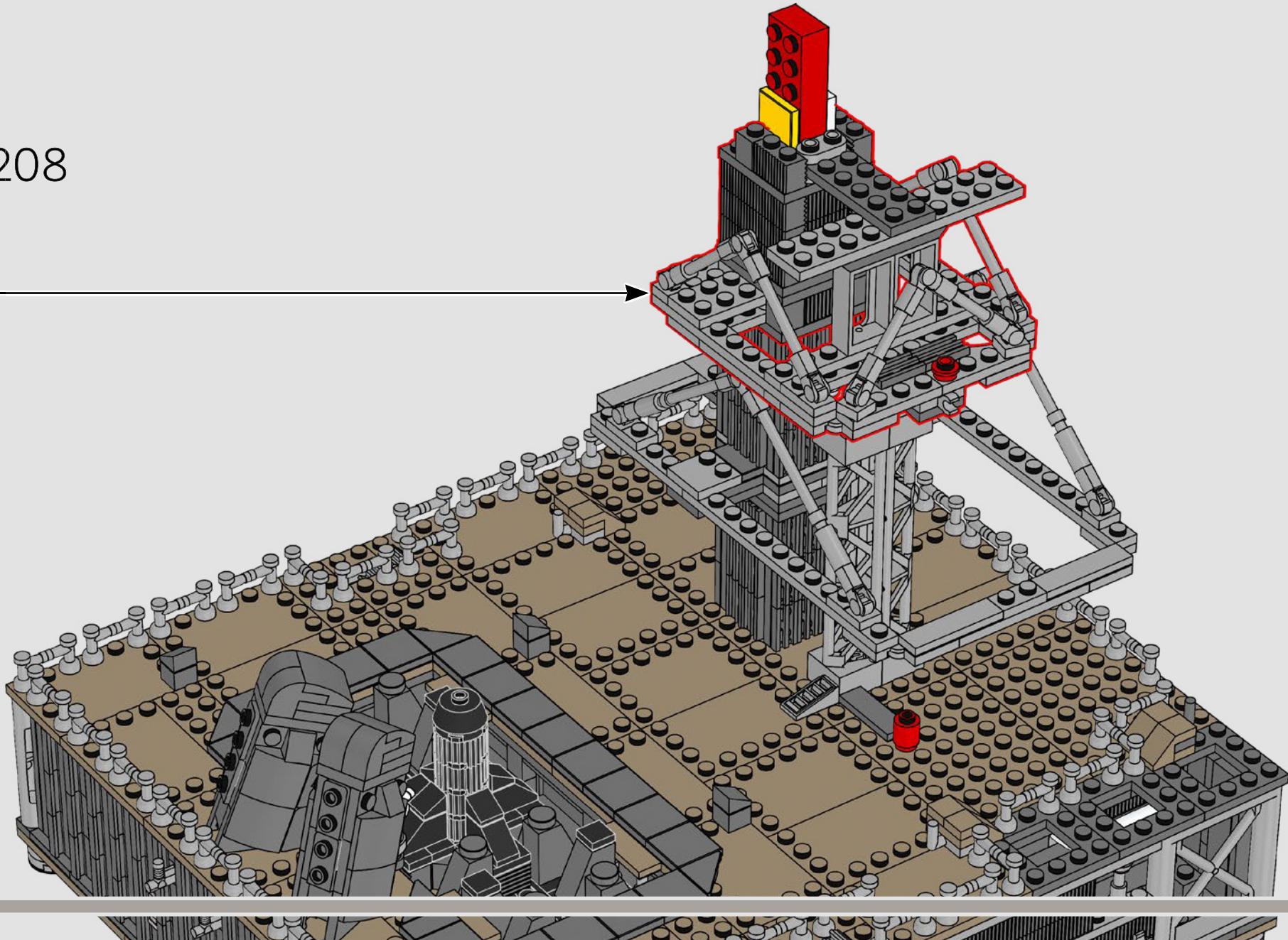
206

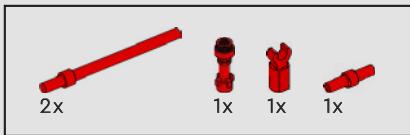


207



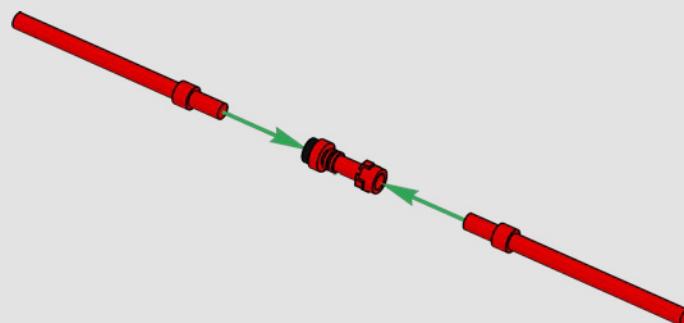
208



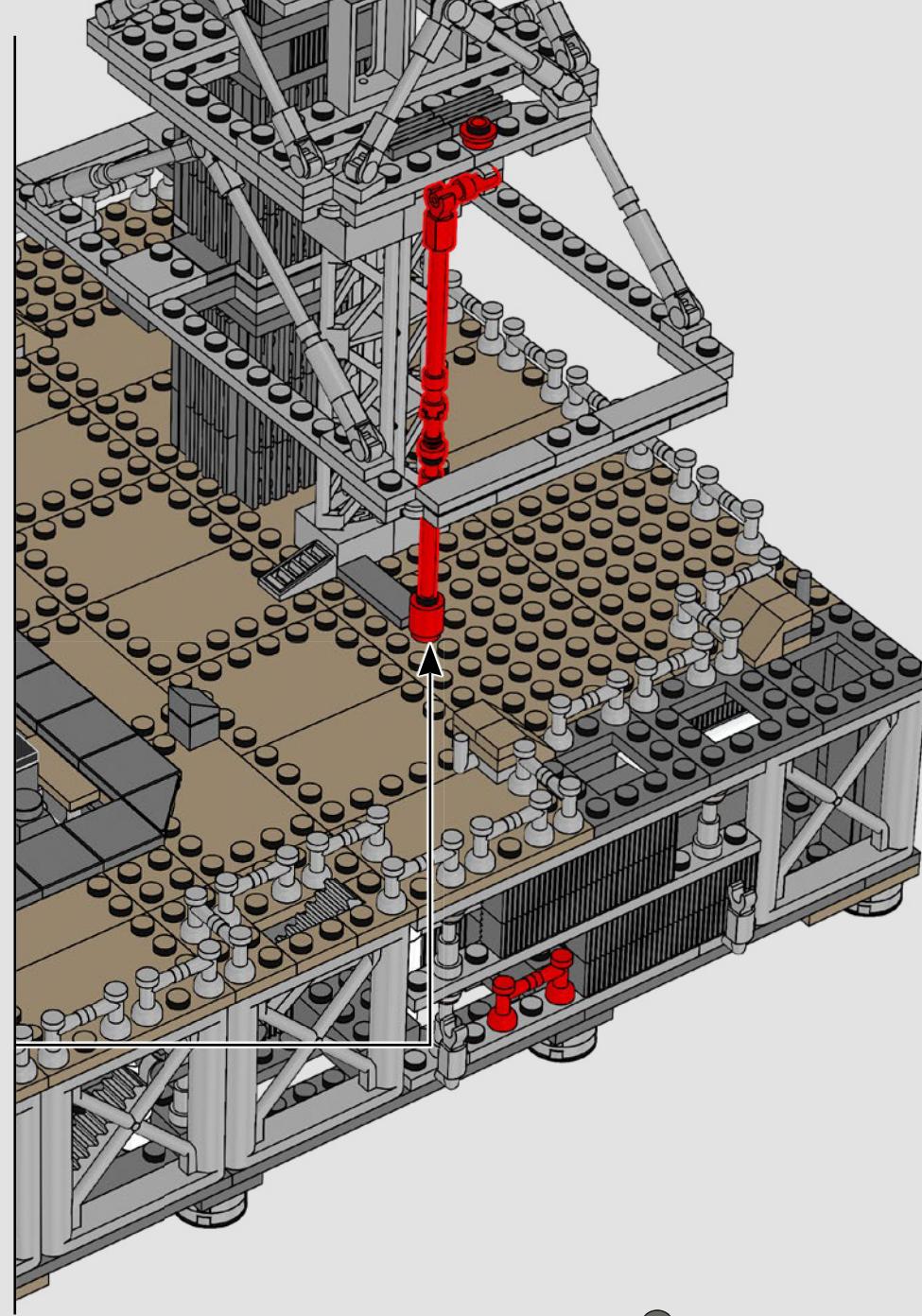
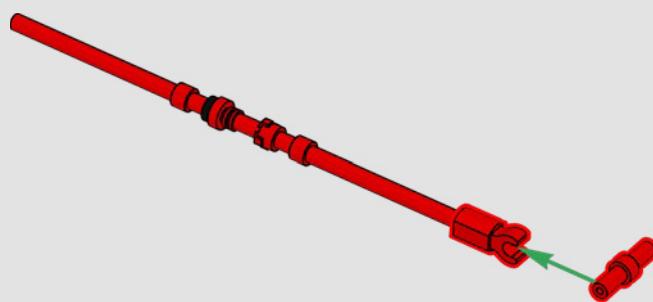


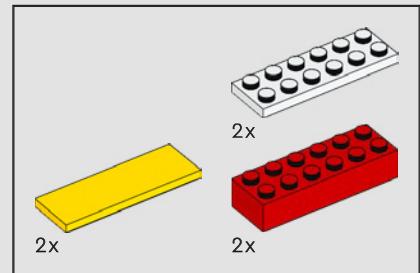
209

1

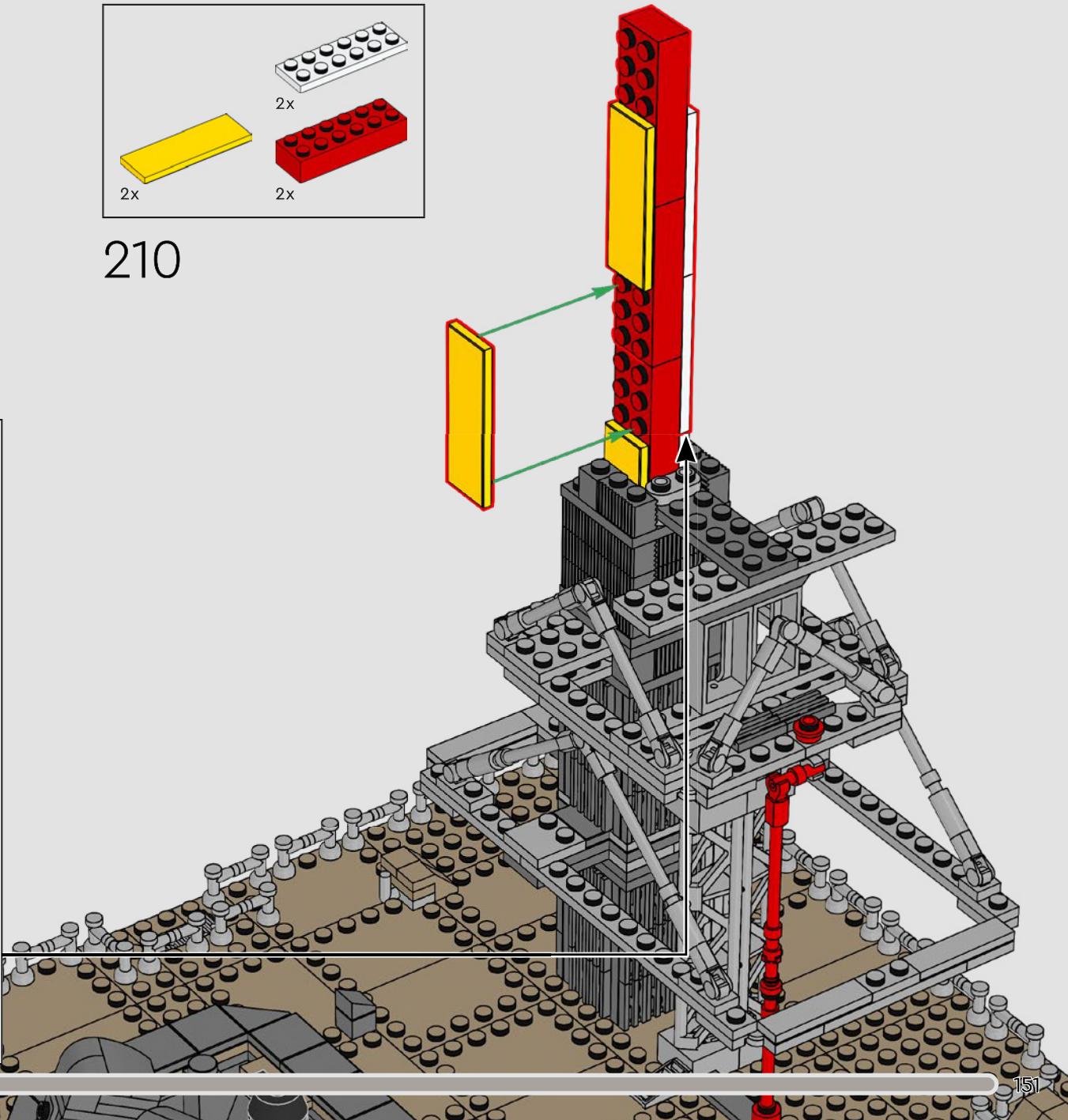
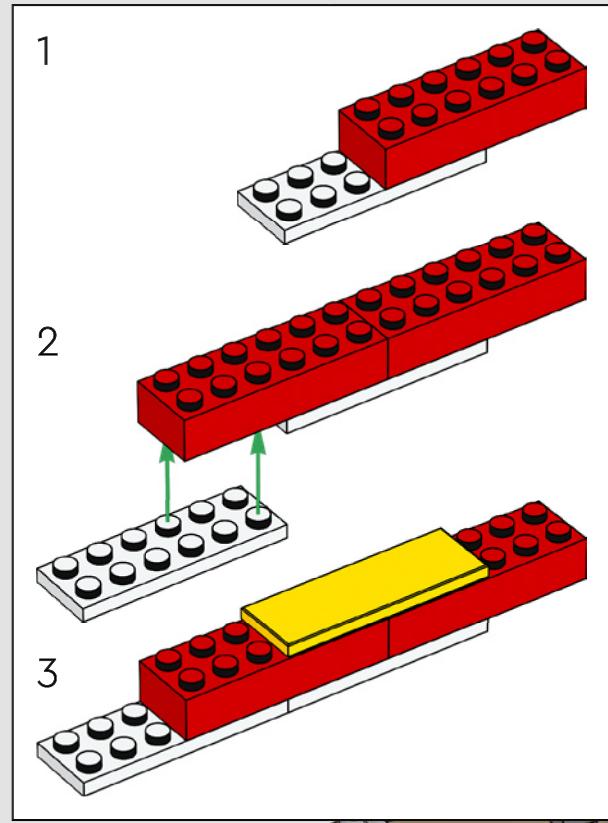


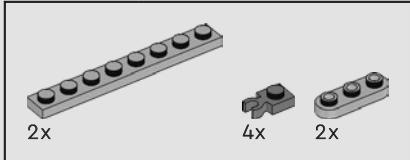
2





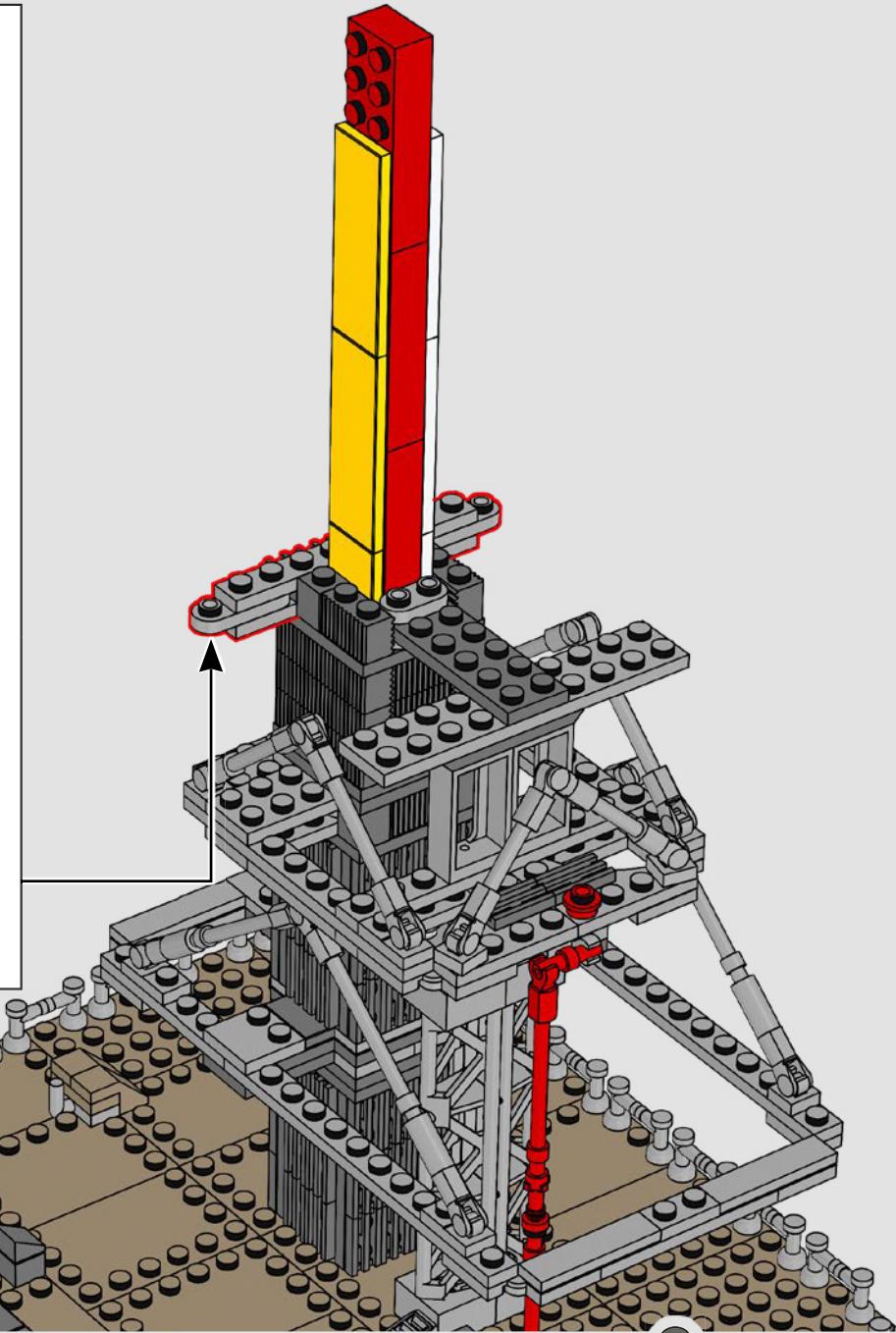
210

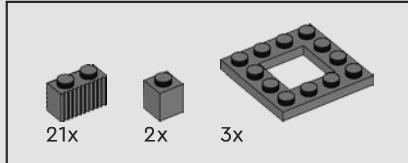




211

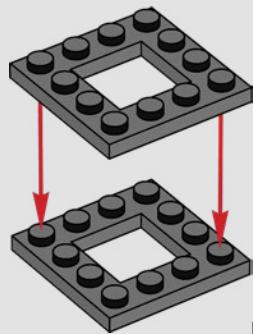
- 1
- 2
- 3
- 4



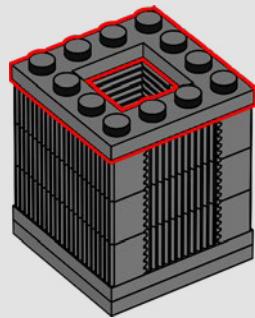


212

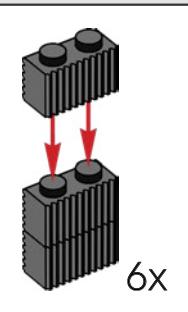
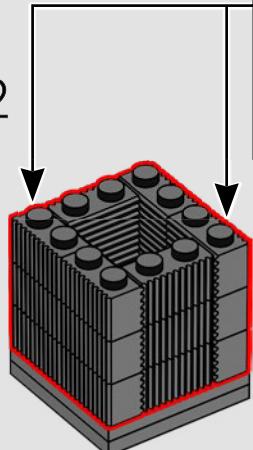
1



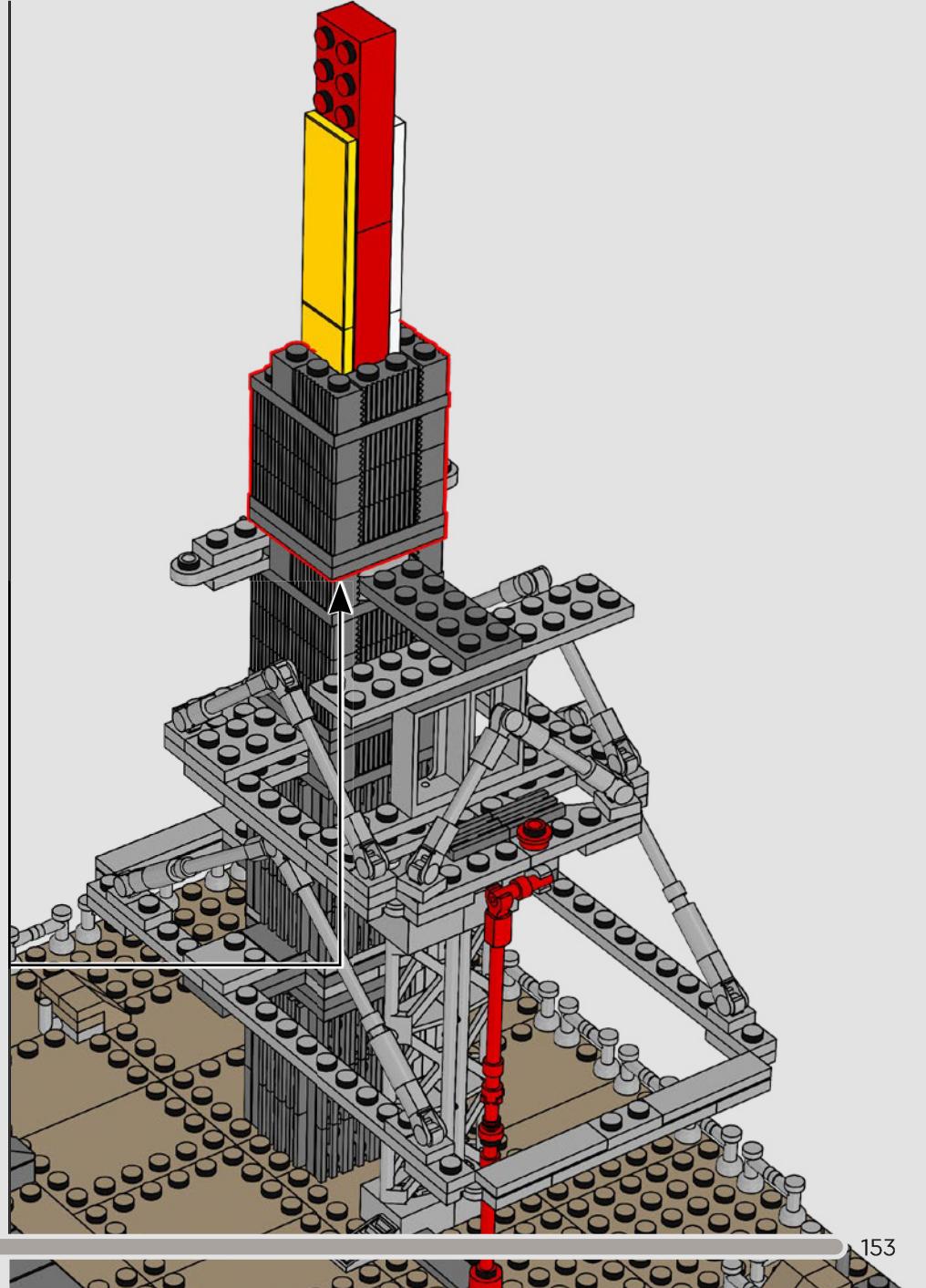
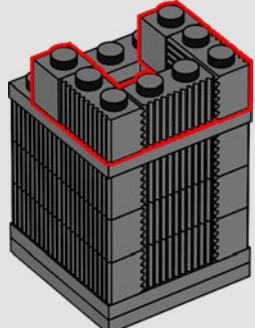
3

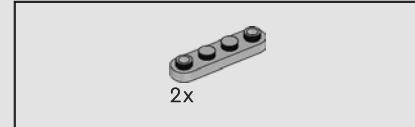
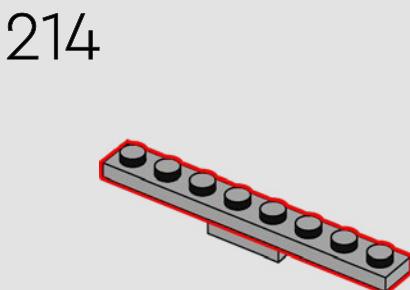
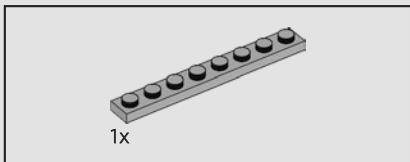
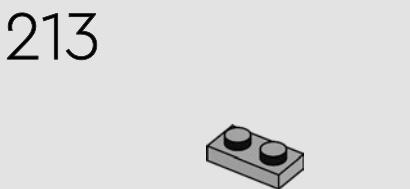
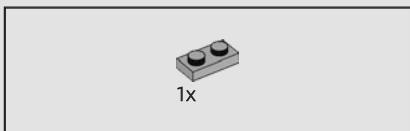
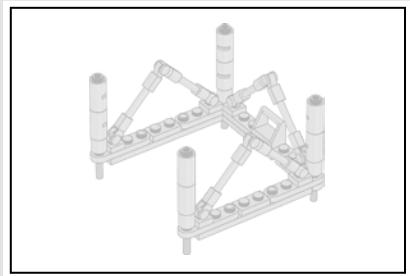


2

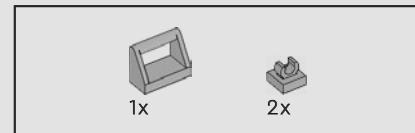
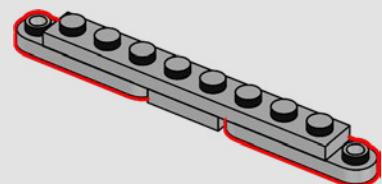


4

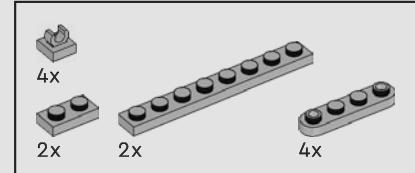
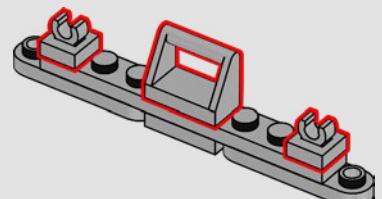




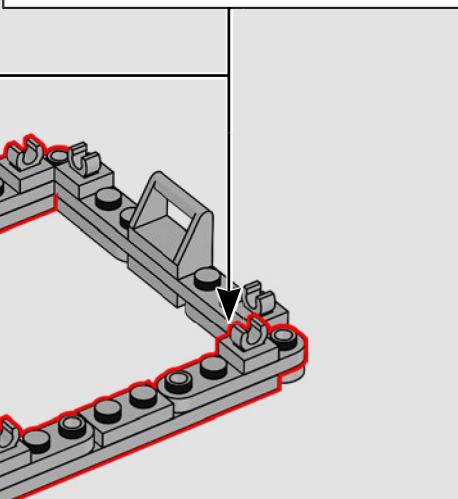
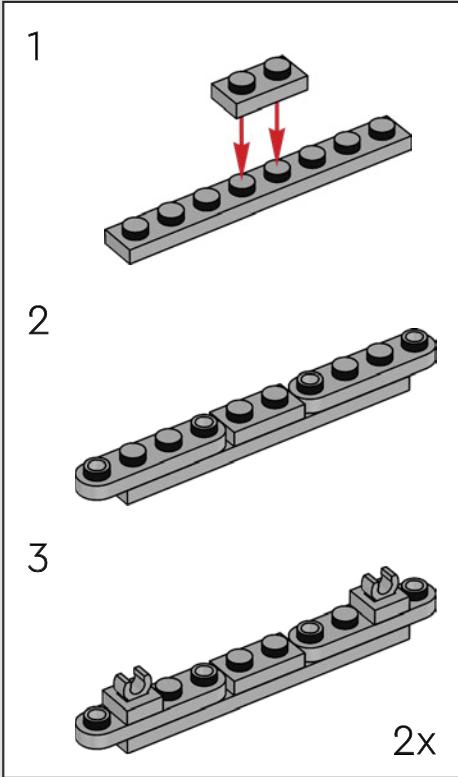
215



216

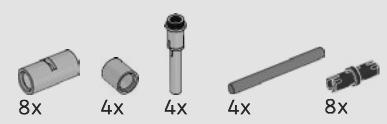
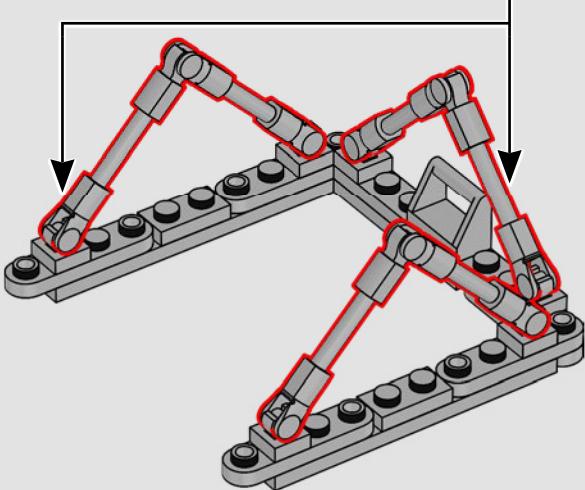
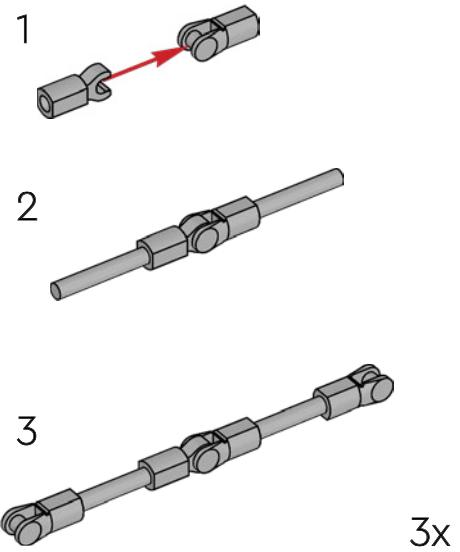


217

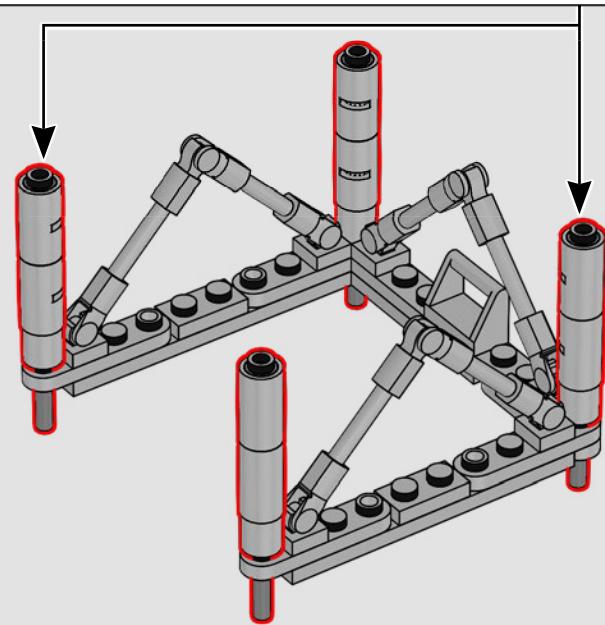
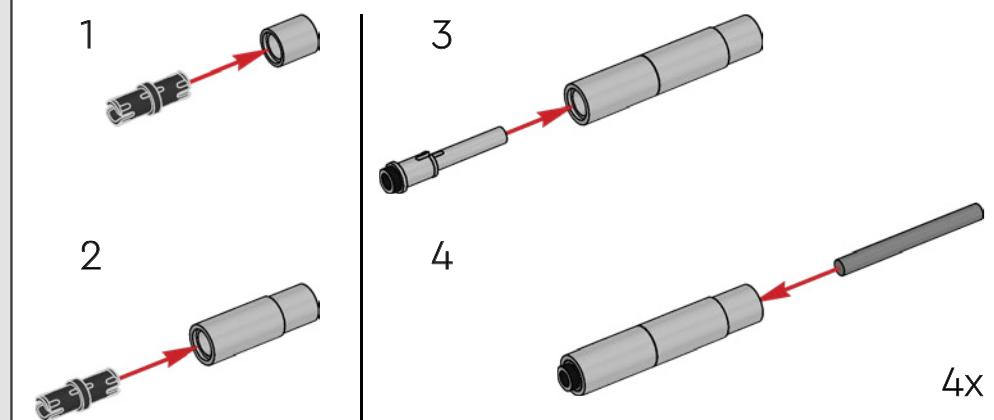




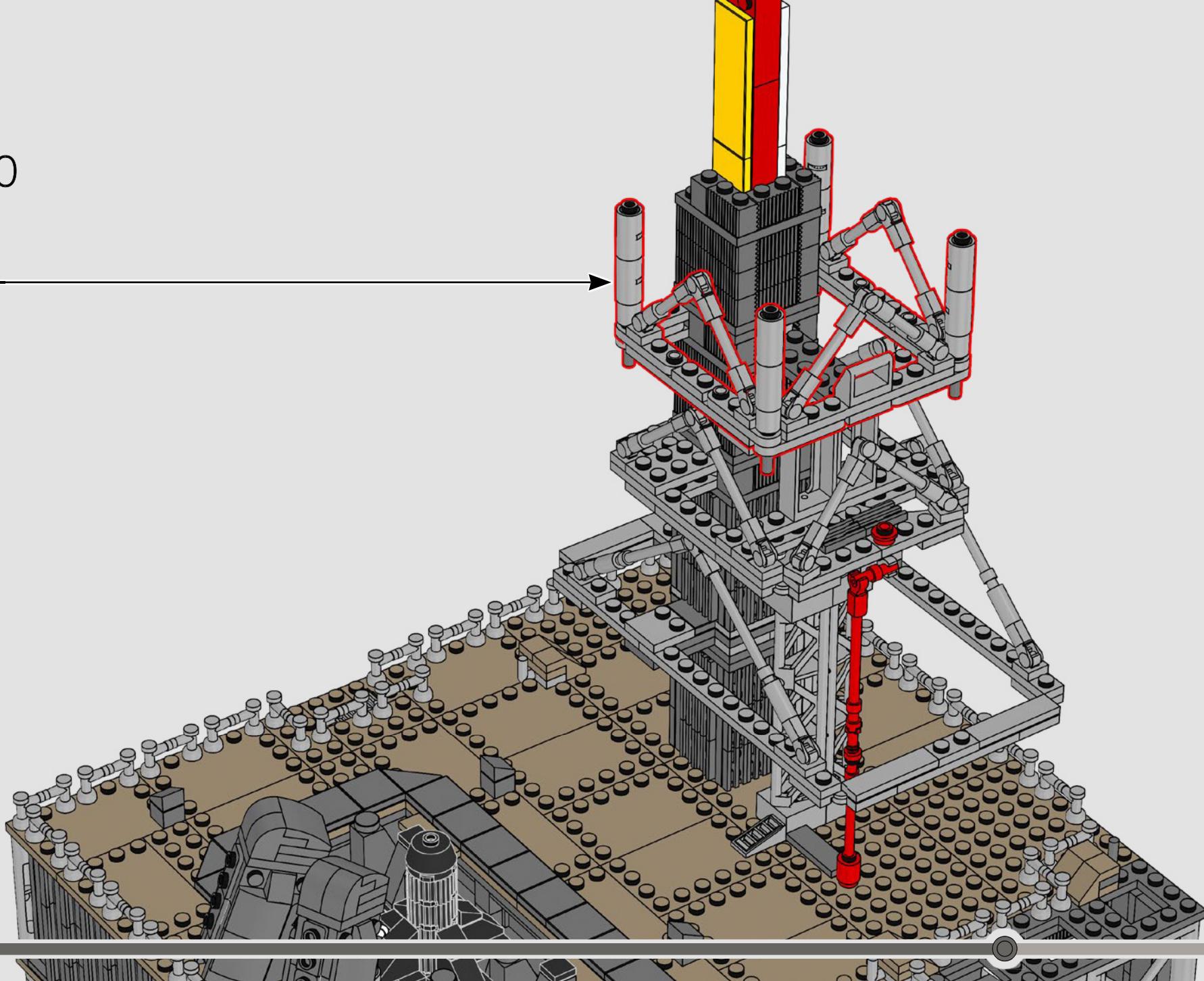
218

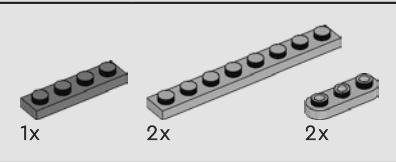


219

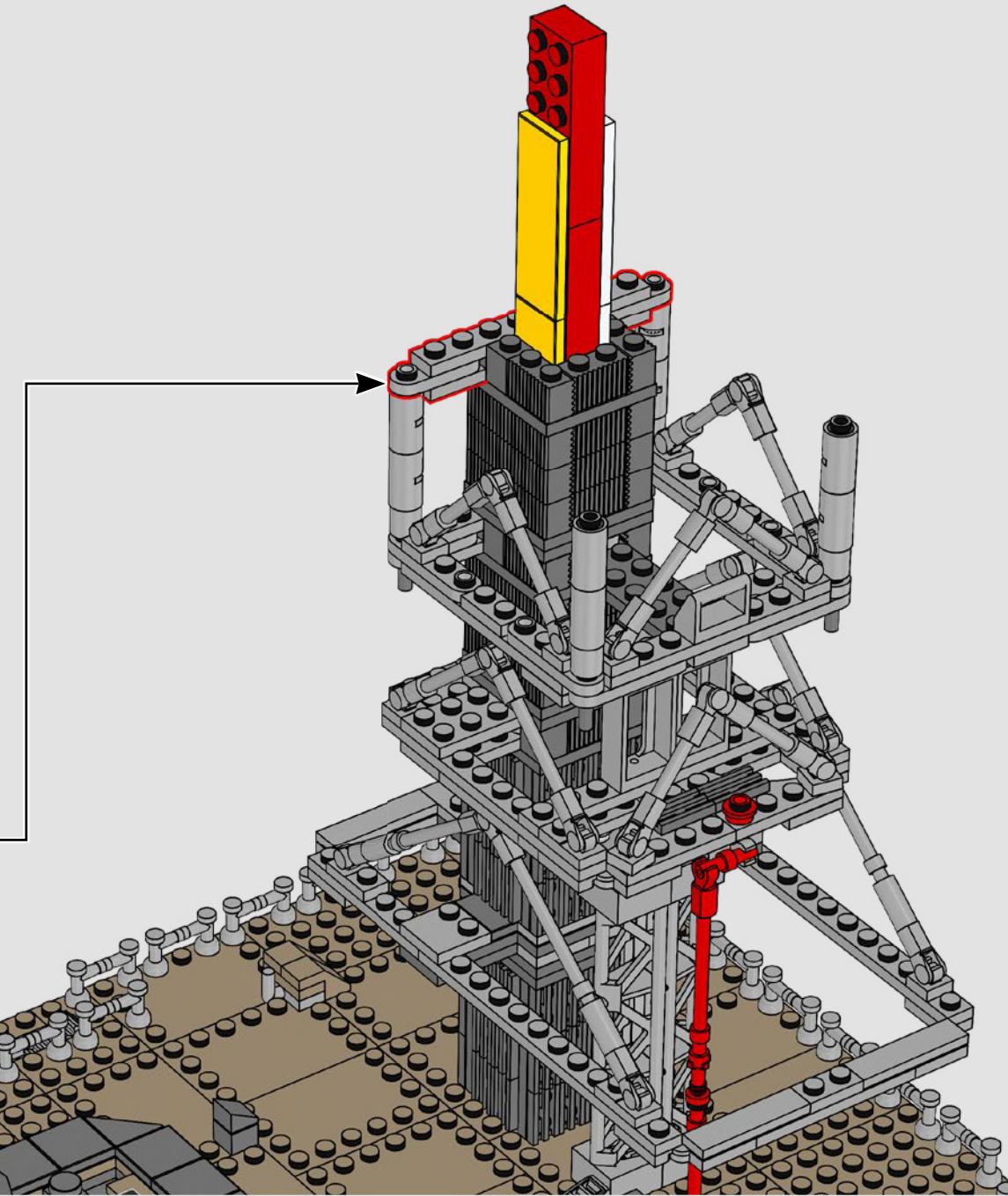
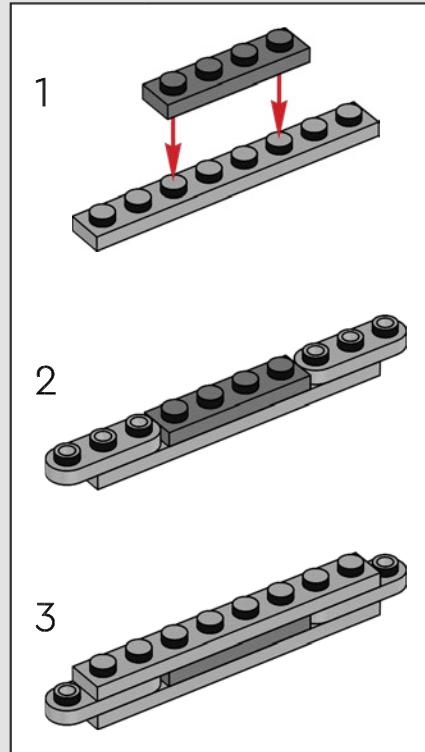


220





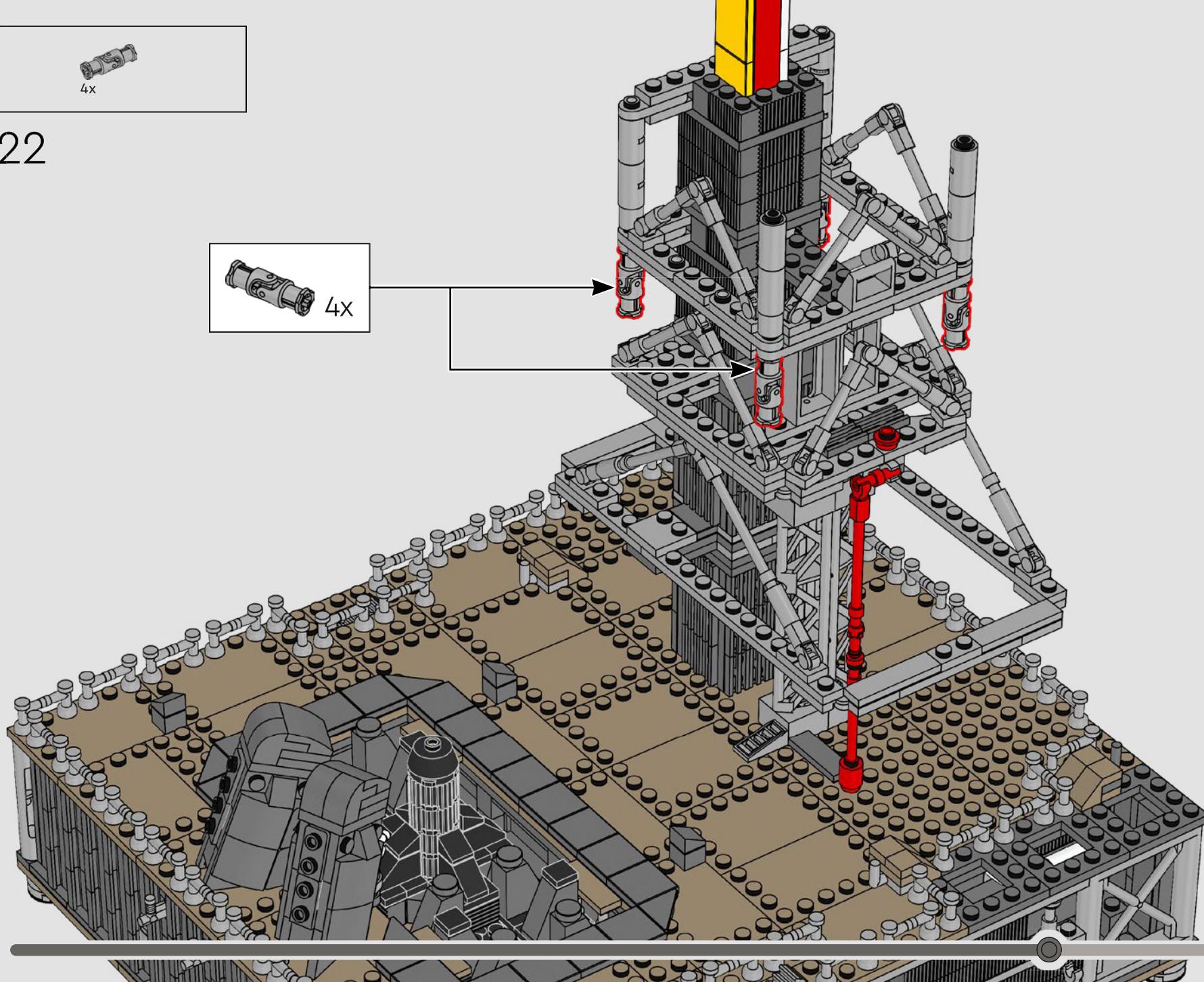
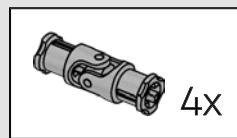
221

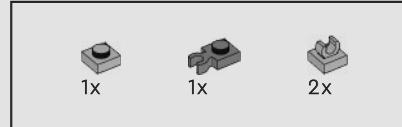
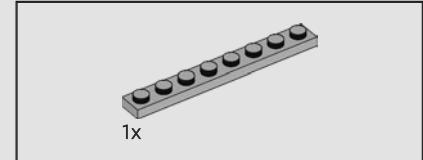
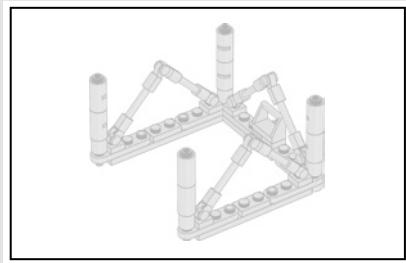




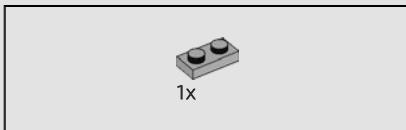
4x

222

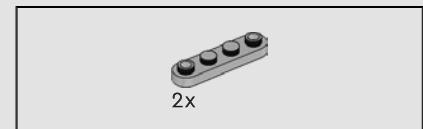
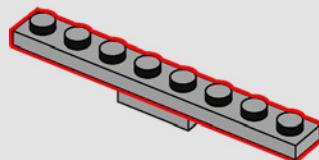




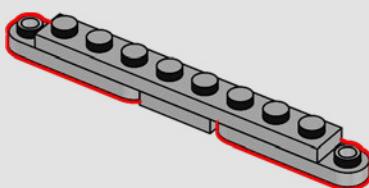
224



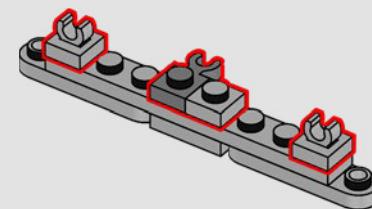
223



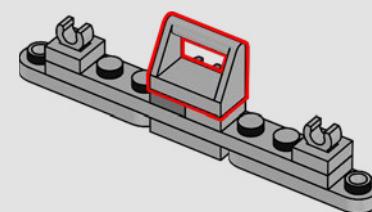
225

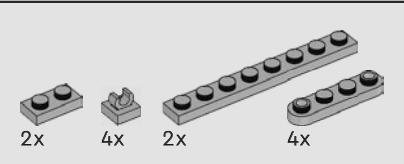


226

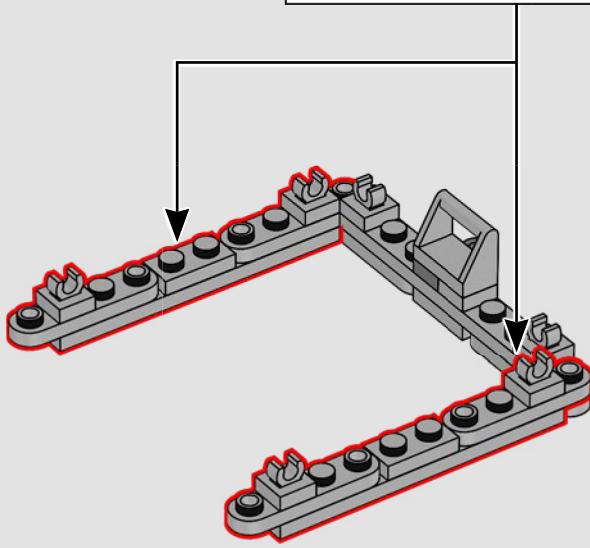
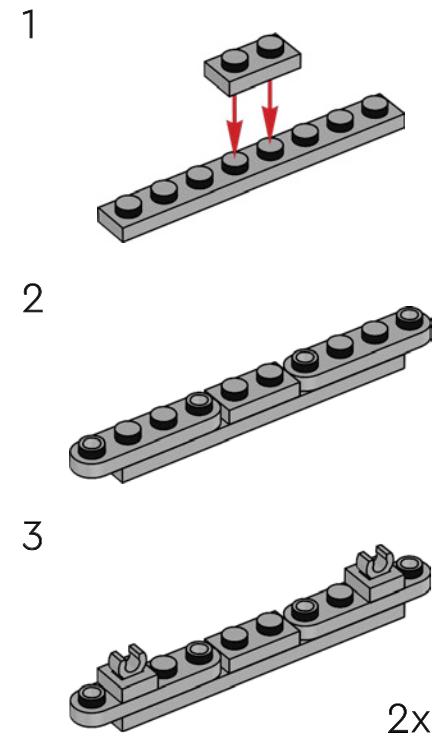


227

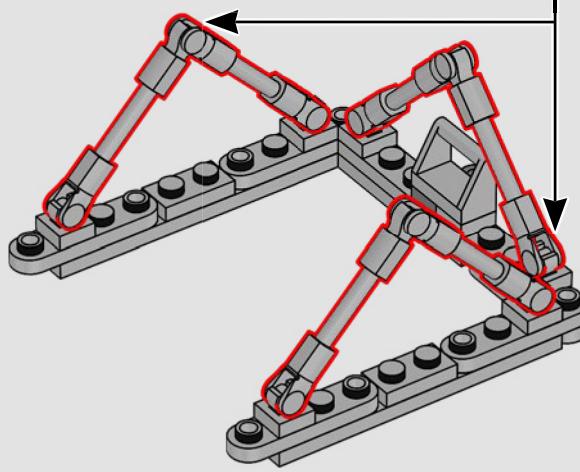
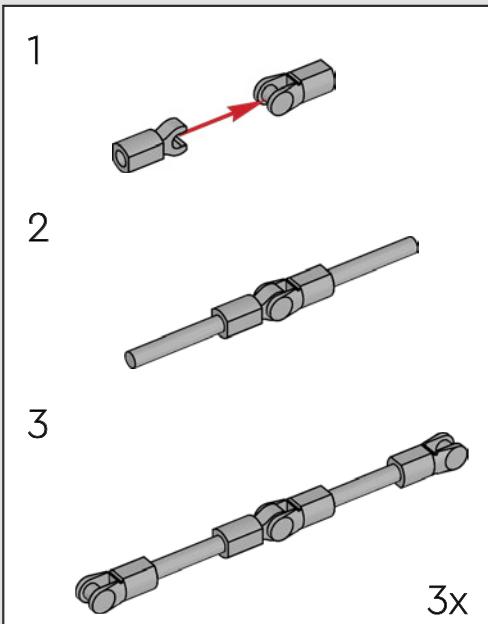


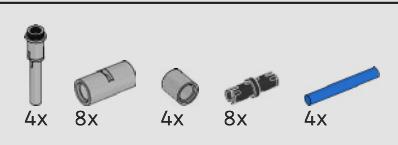


228

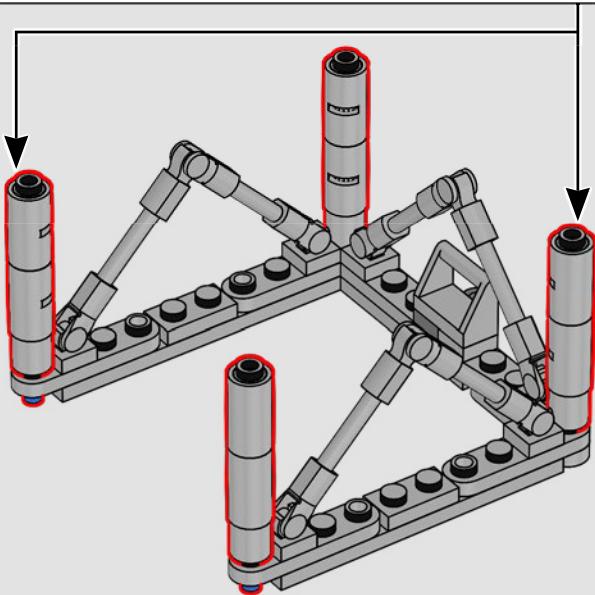
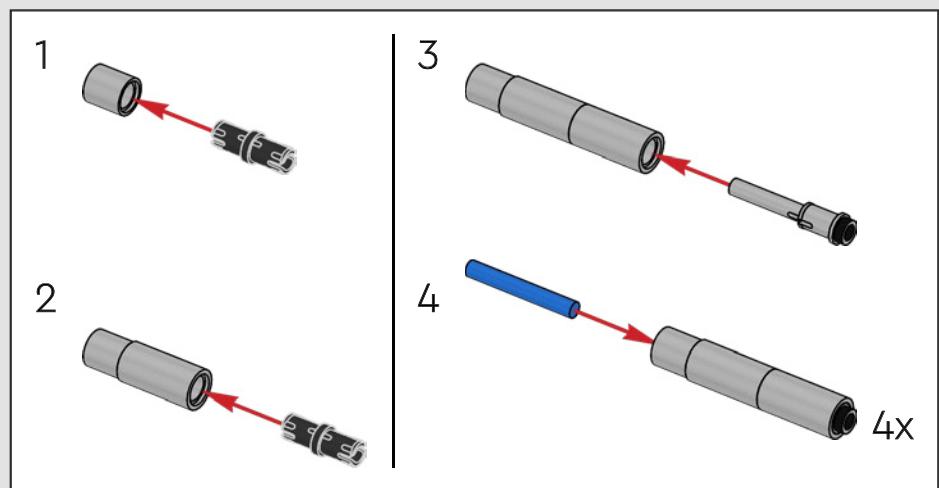


229

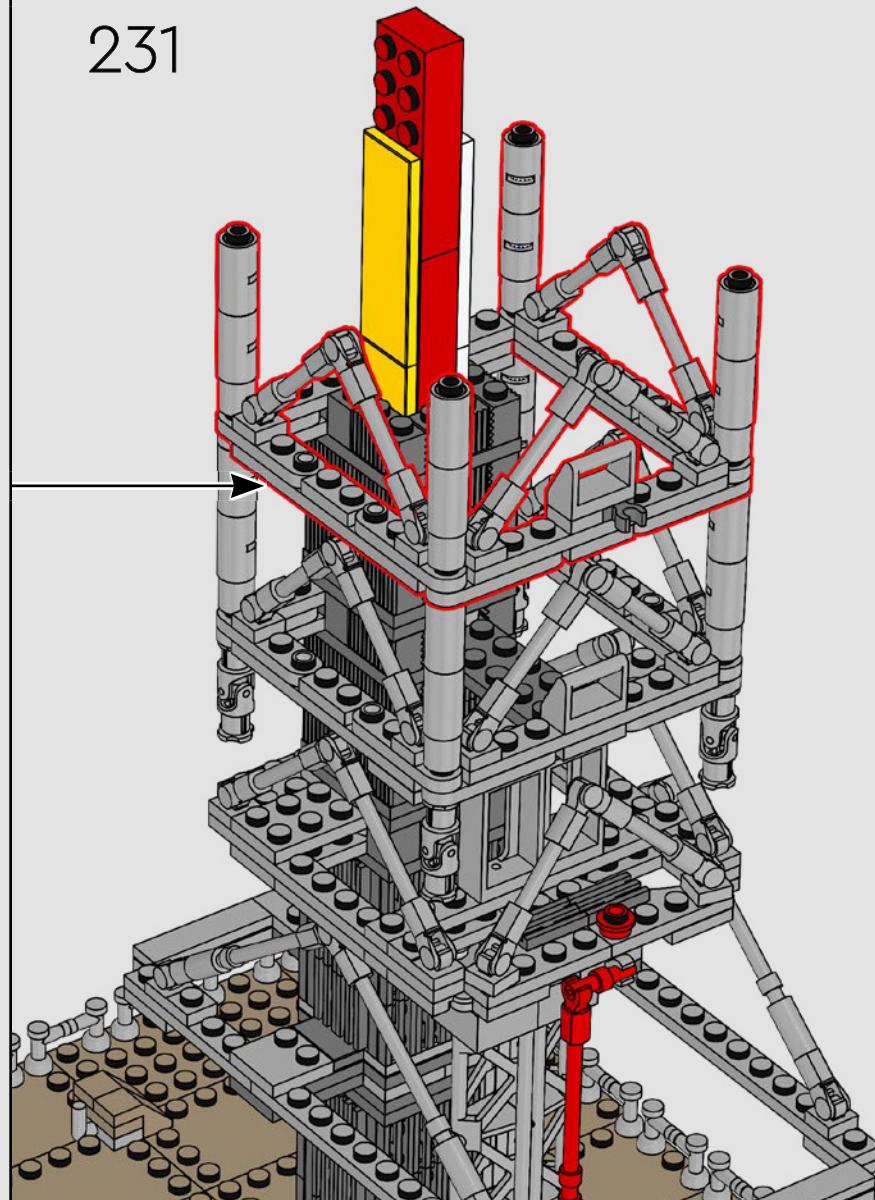


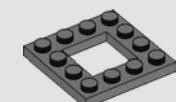


230

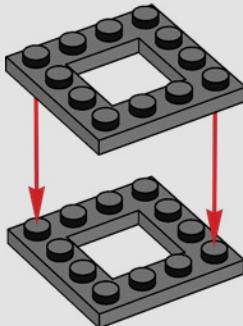


231



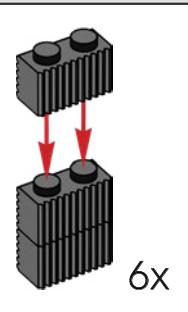
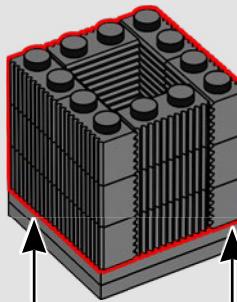


232

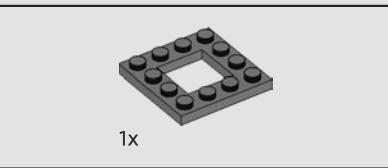


18x

233

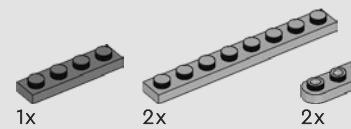
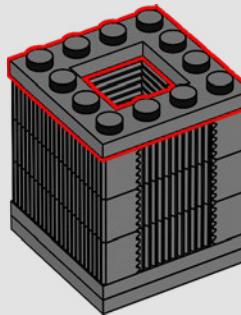


6x

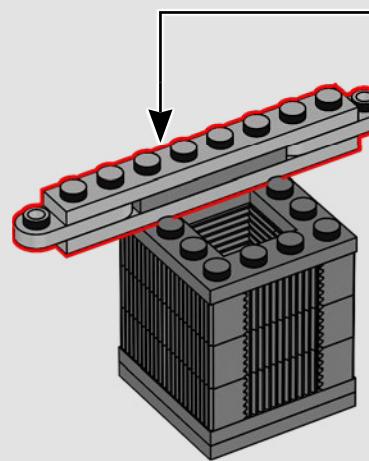


1x

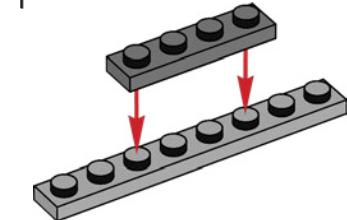
234



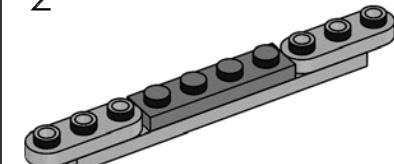
235



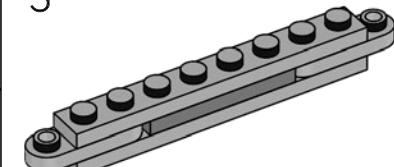
1



2



3



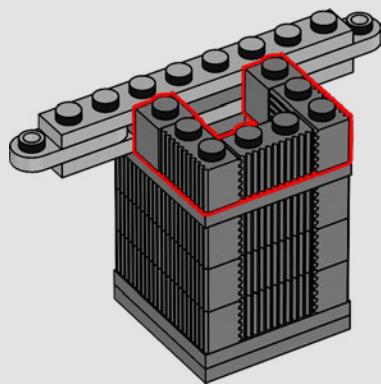


3x

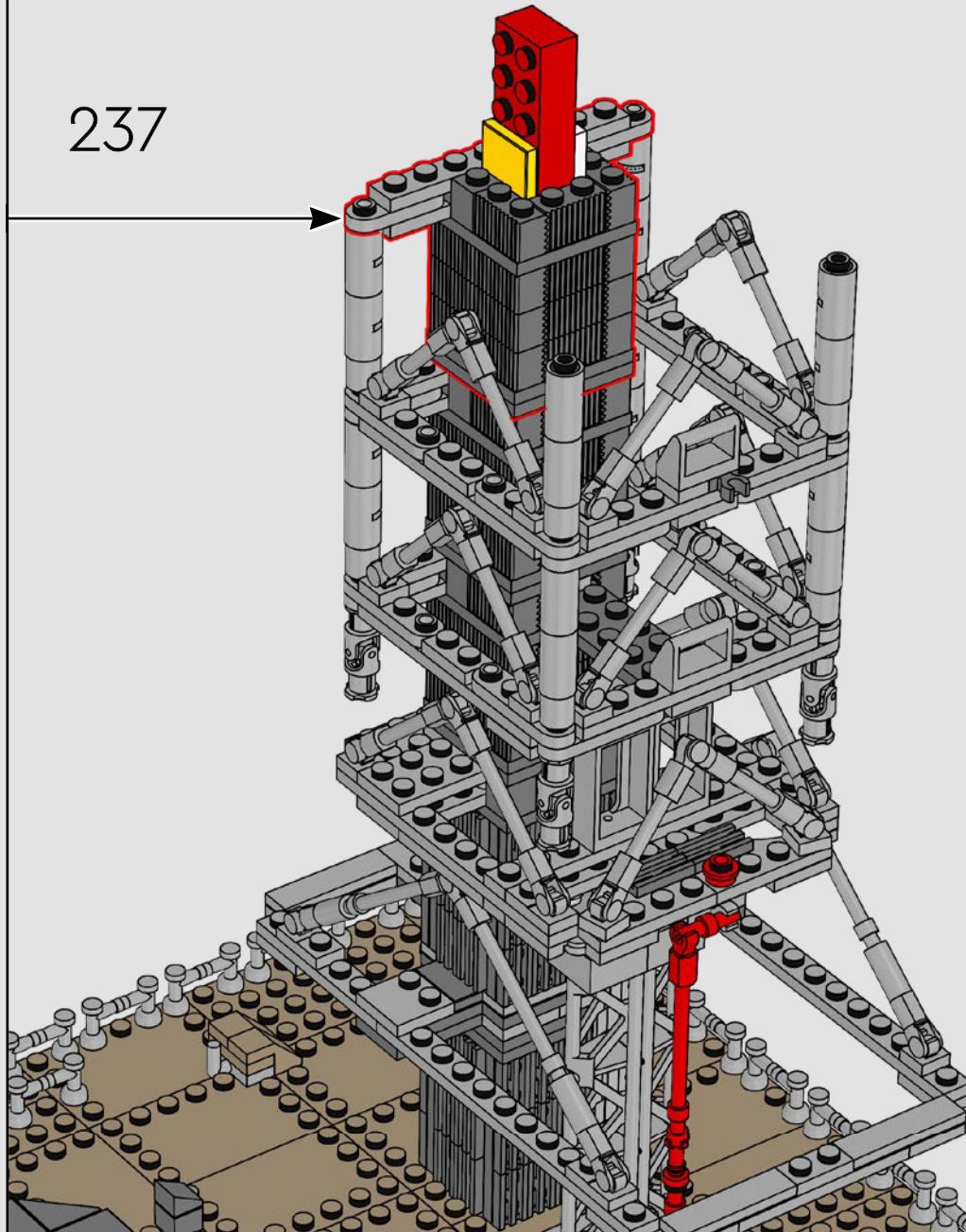


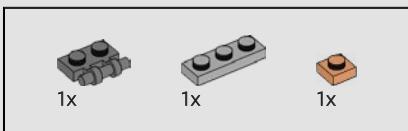
2x

236

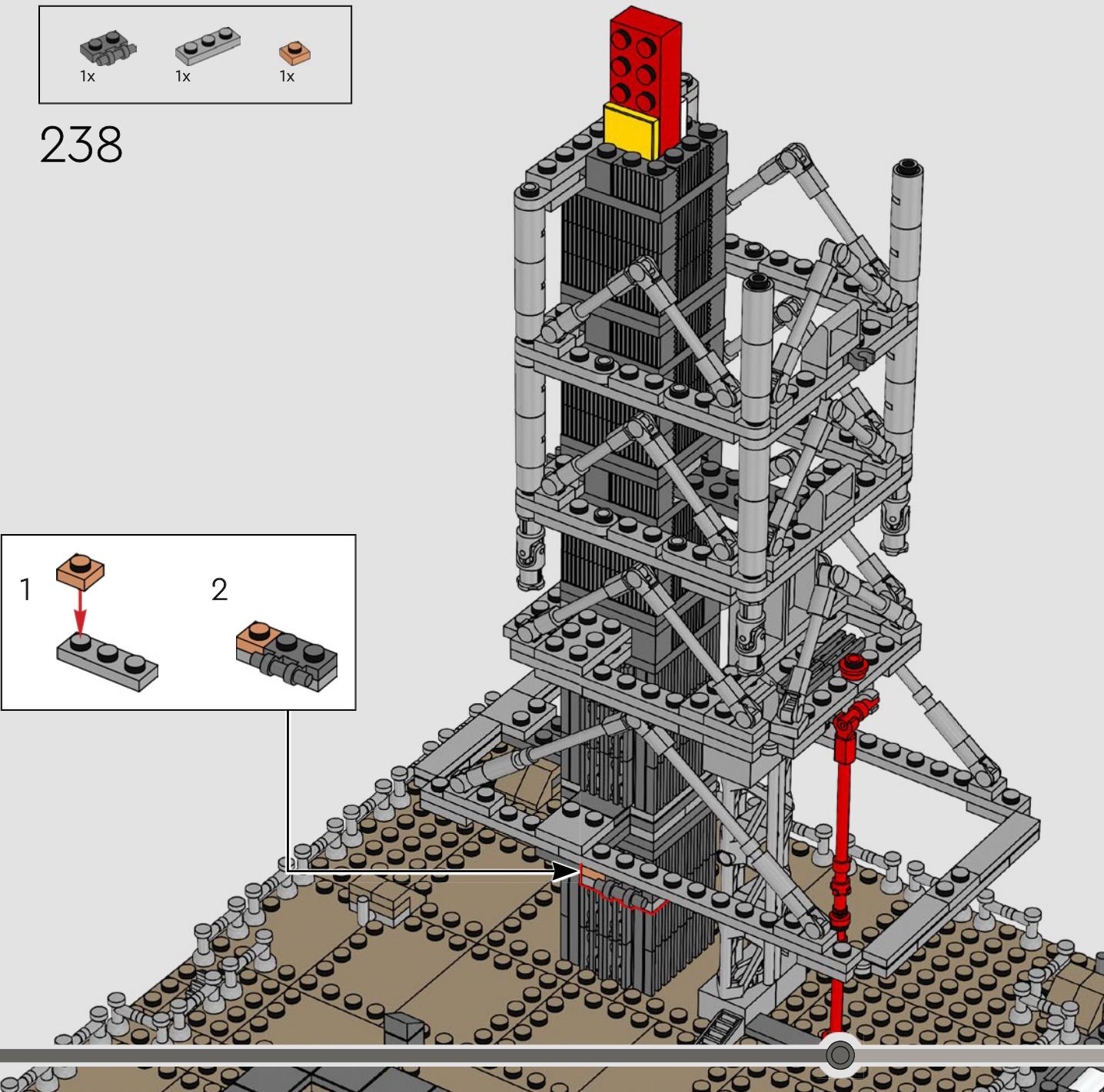
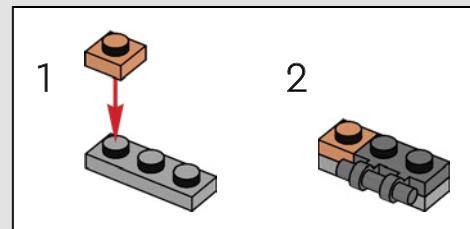


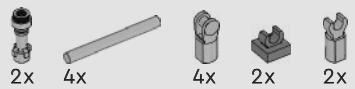
237



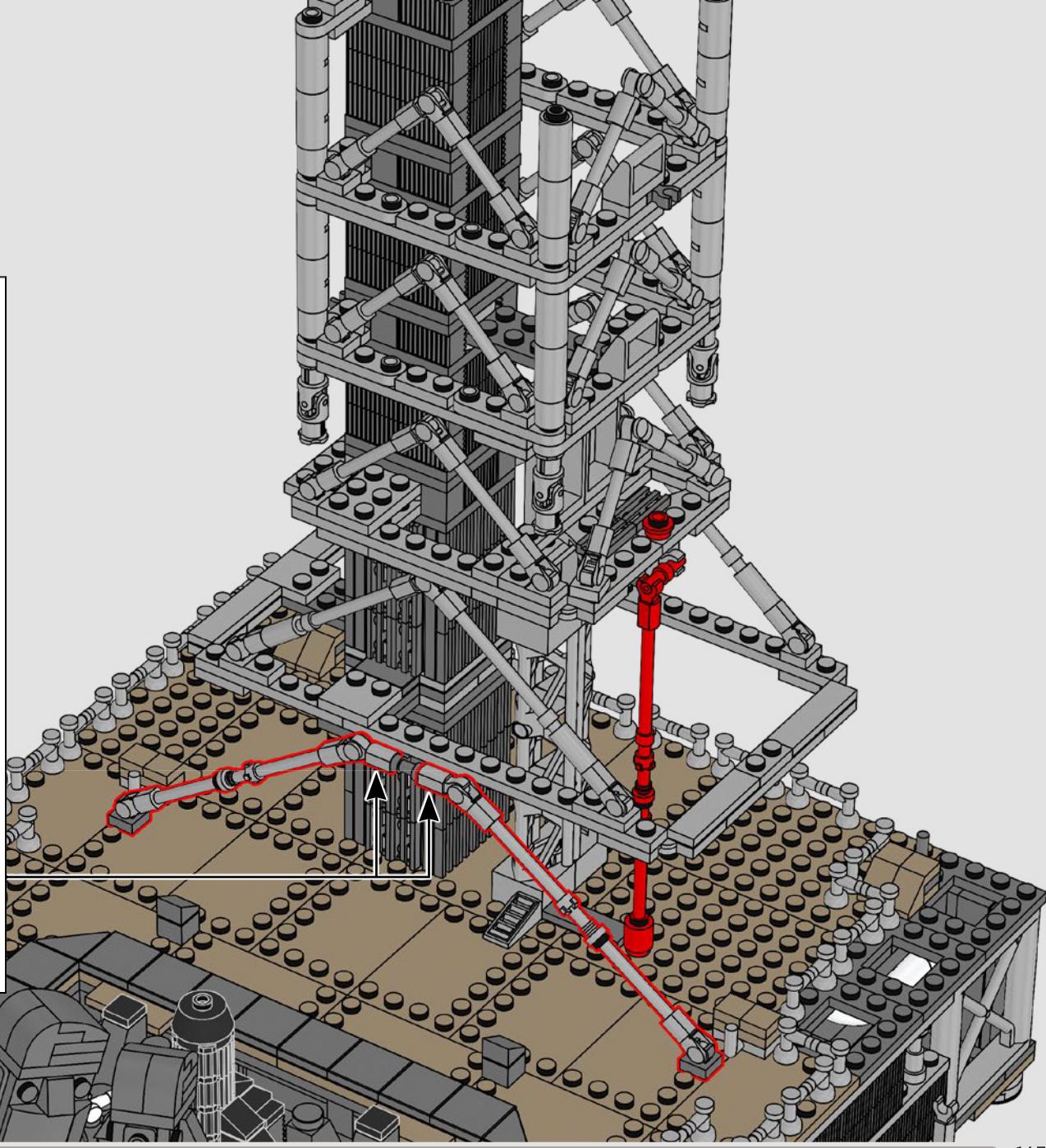
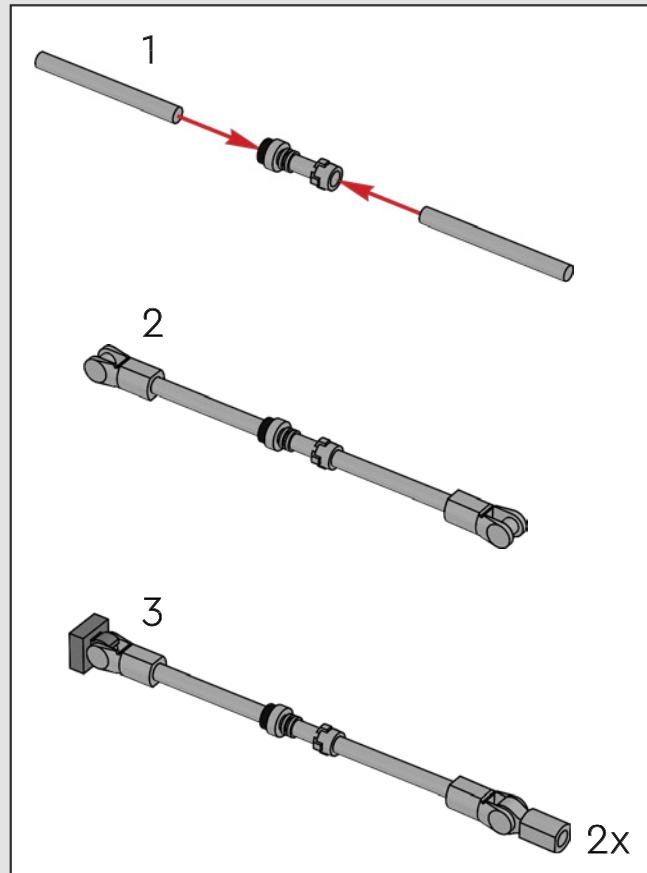


238

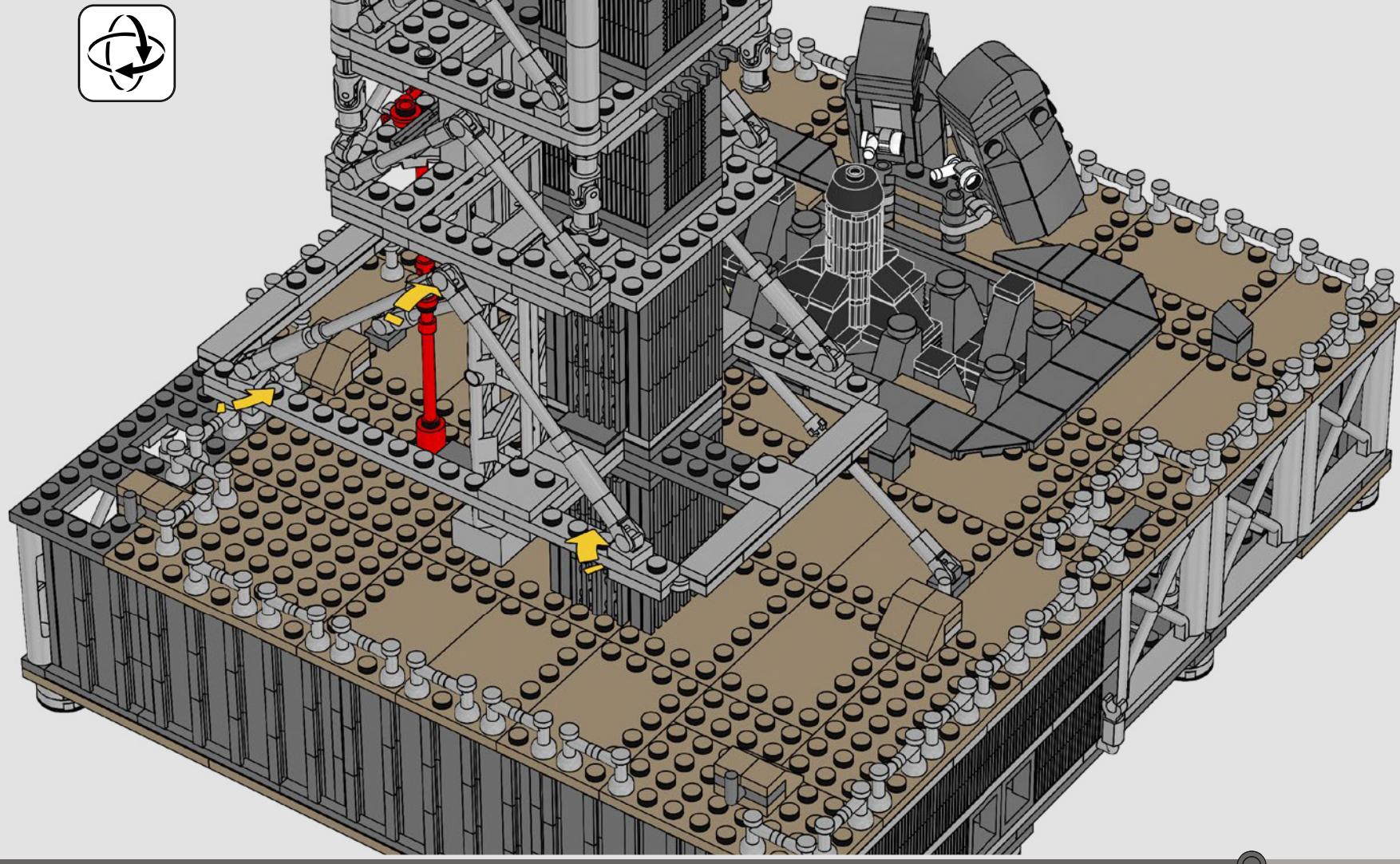




239

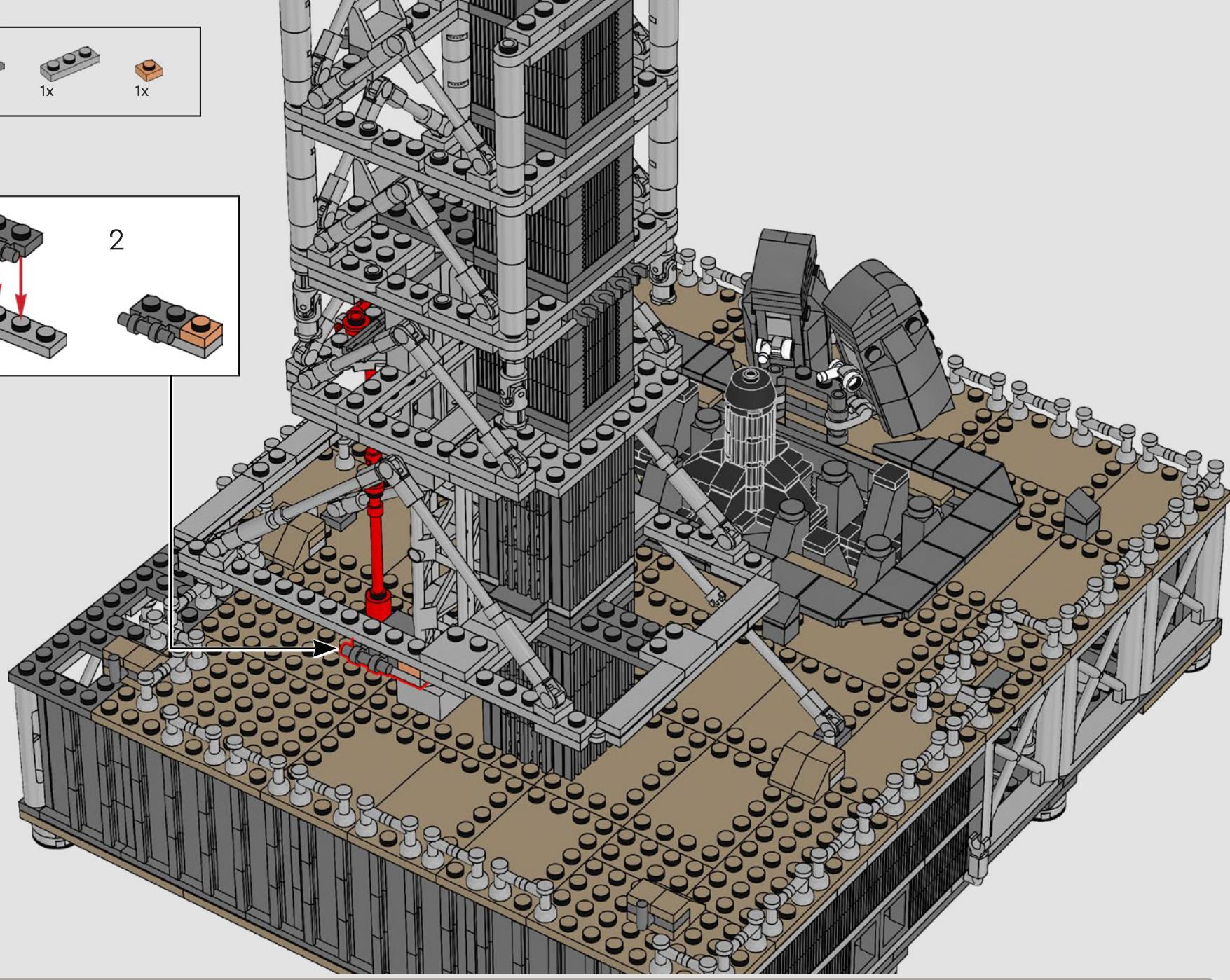
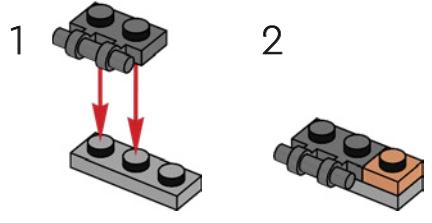


240



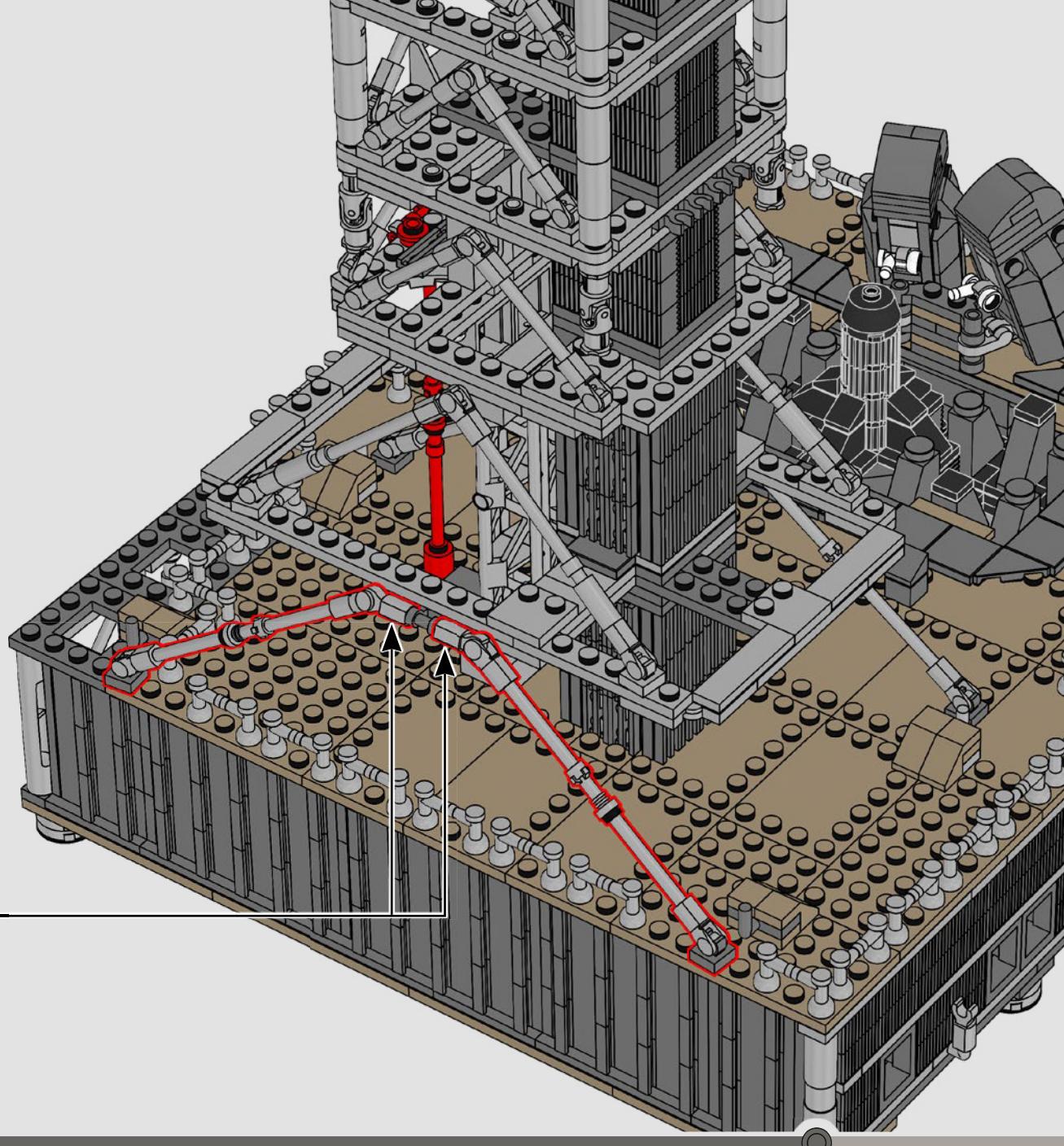
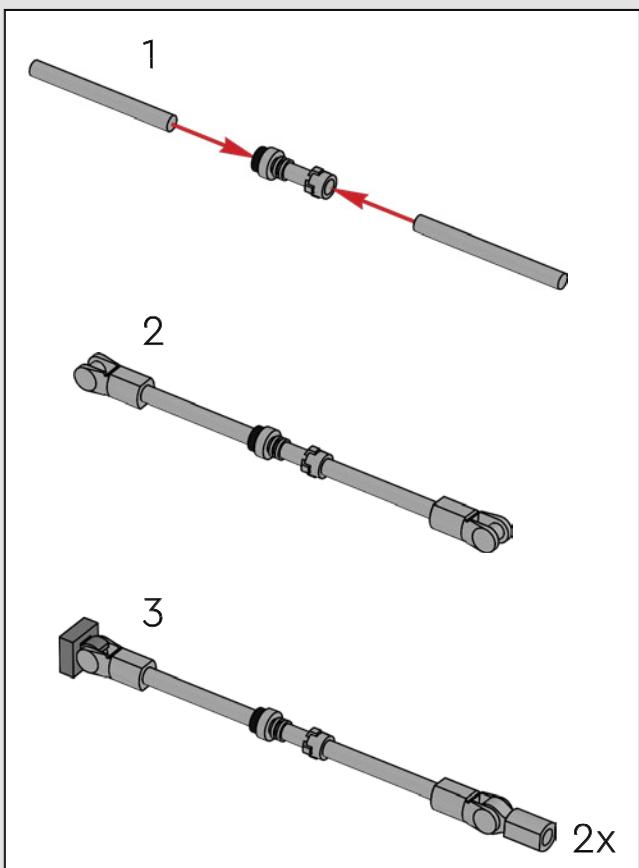


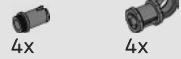
241



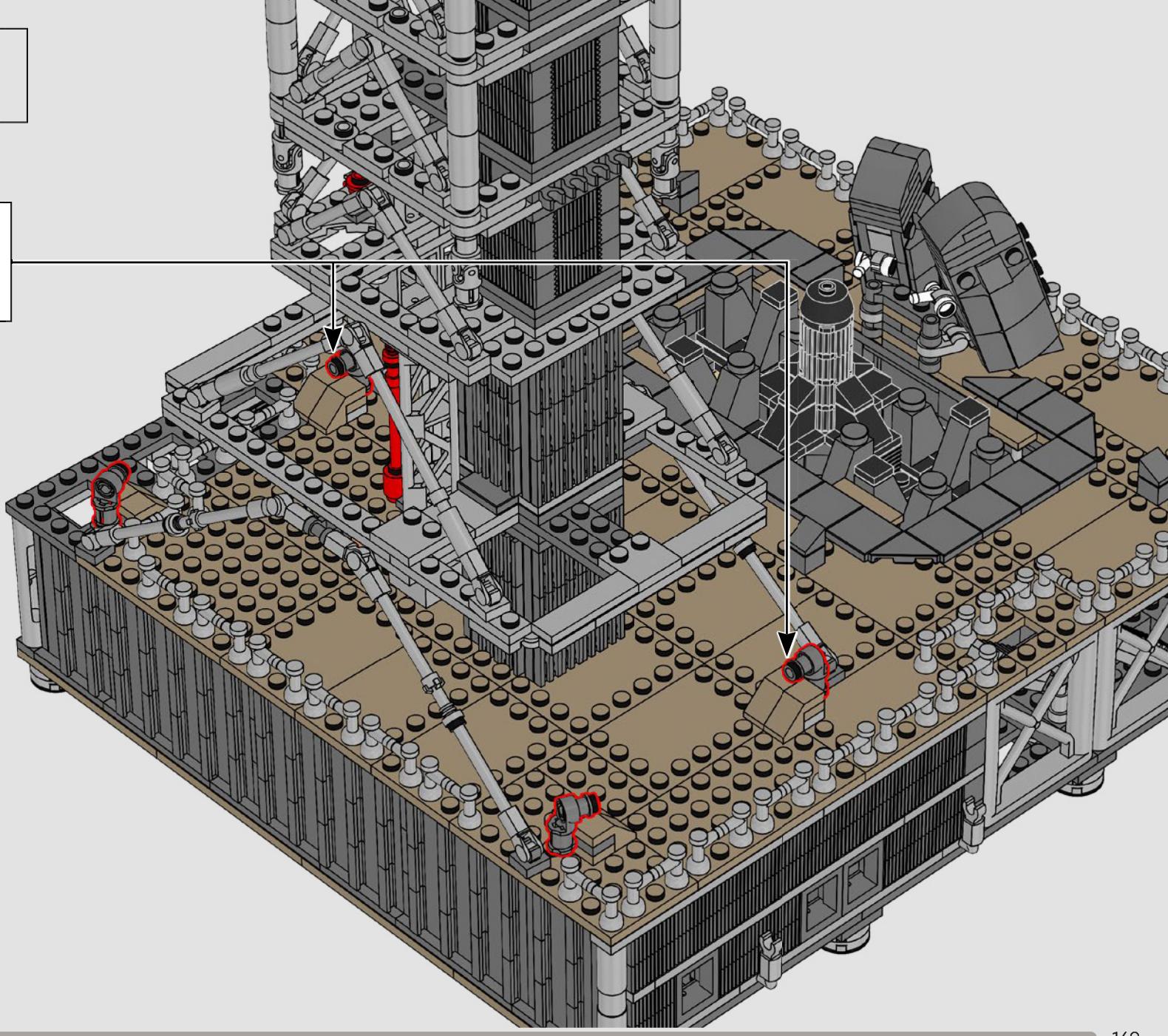
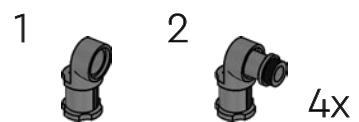


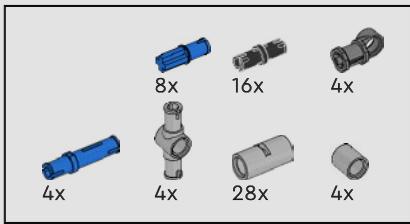
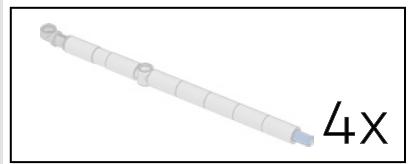
242



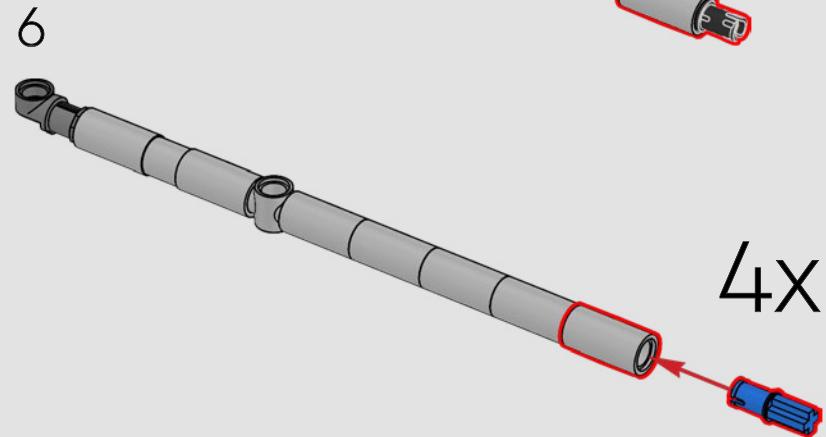
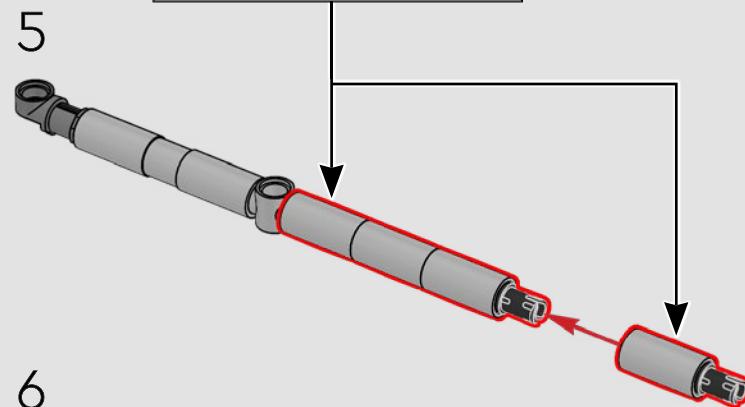
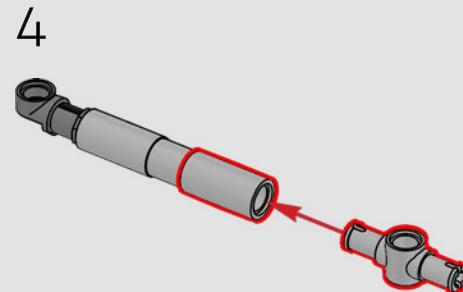
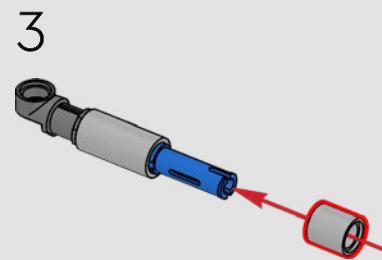
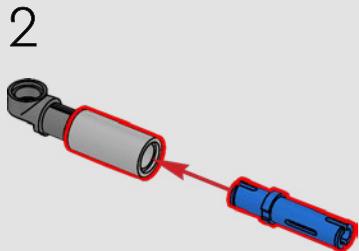
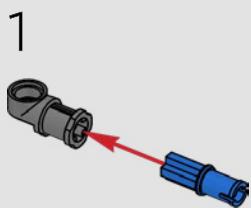


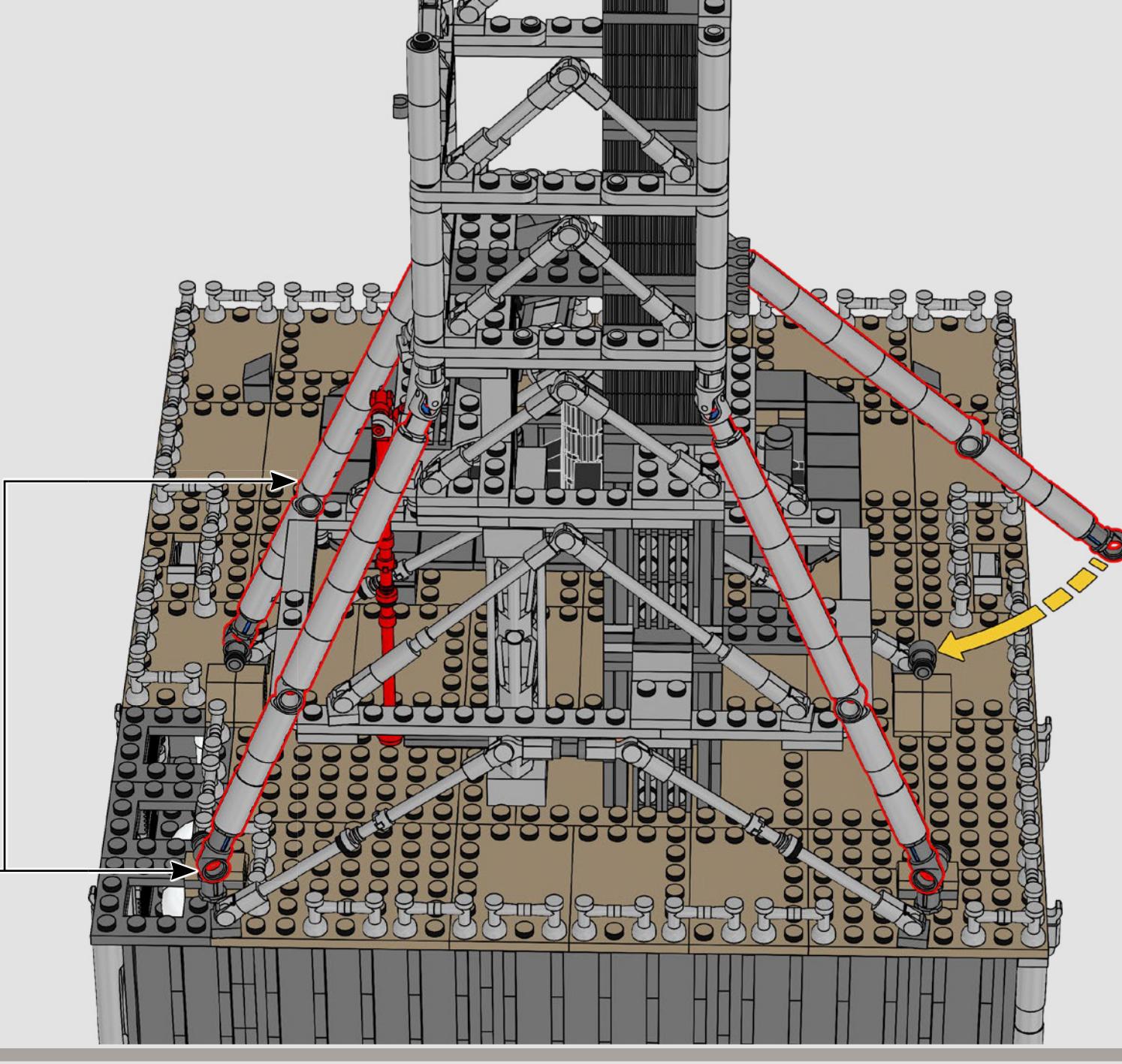
243



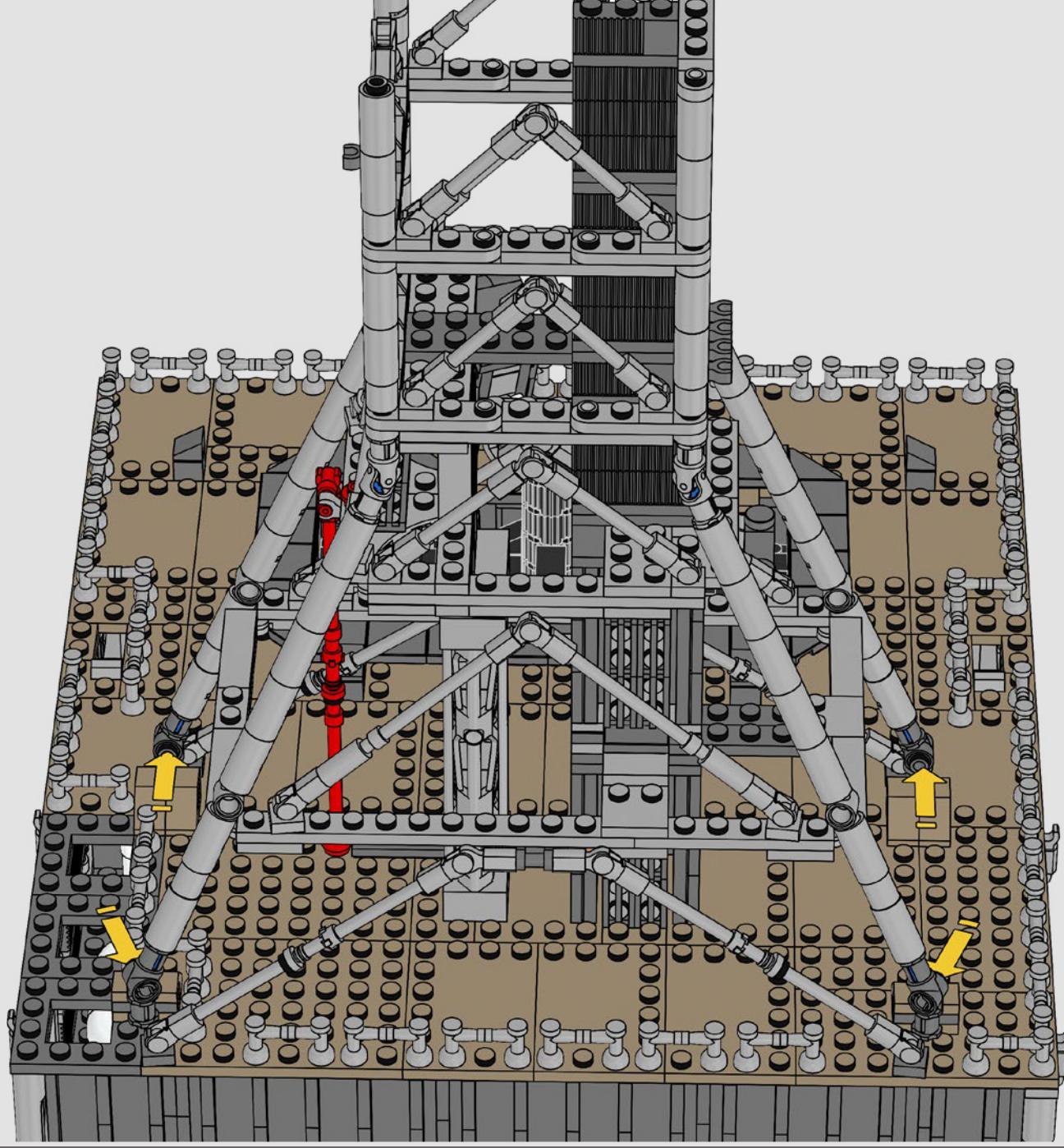


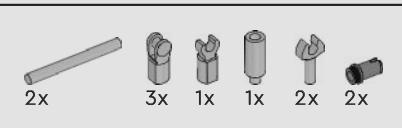
244





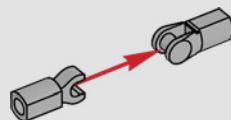
245



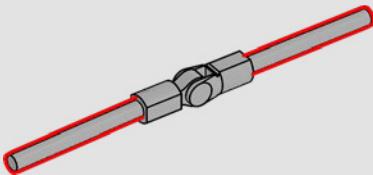


246

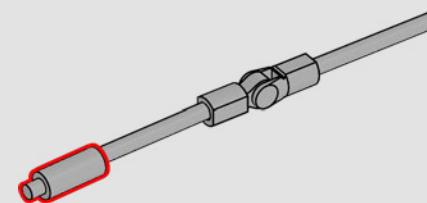
1



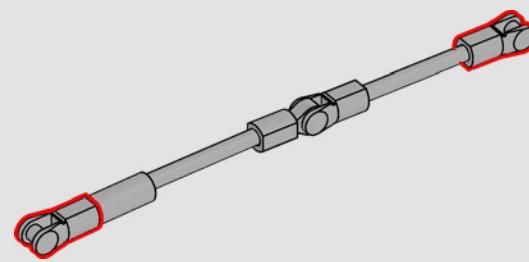
2



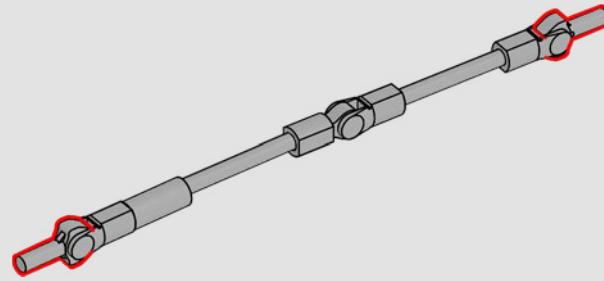
3

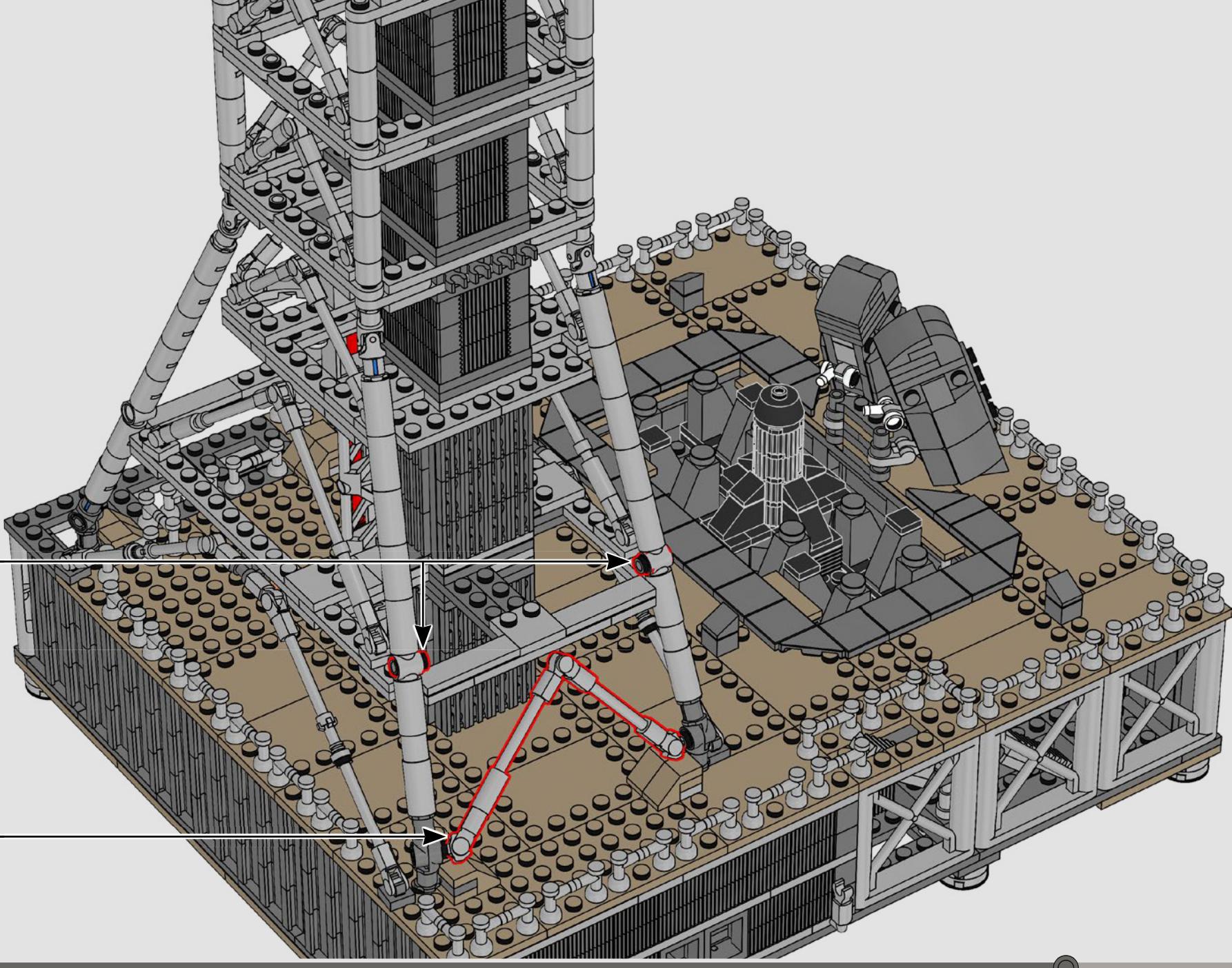


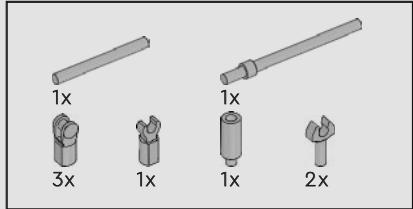
4



5

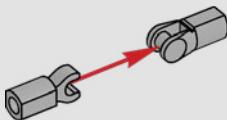




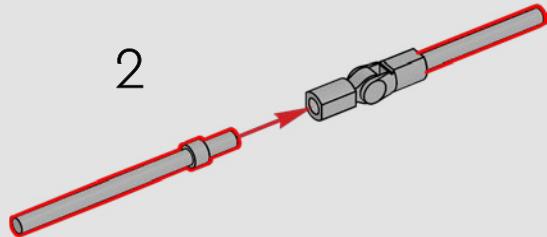


247

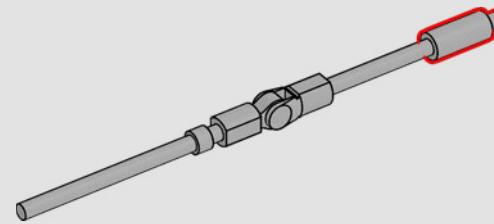
1



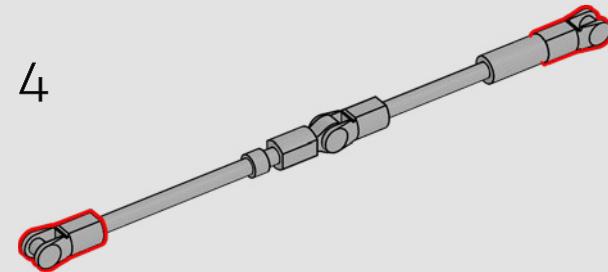
2



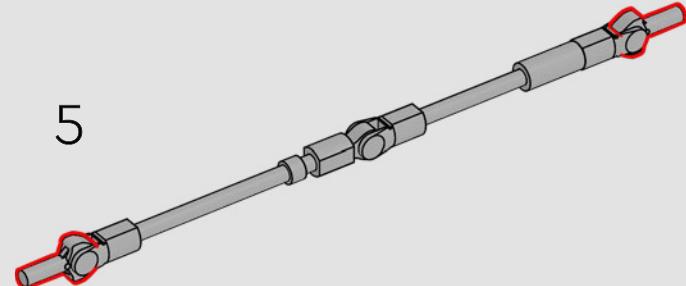
3

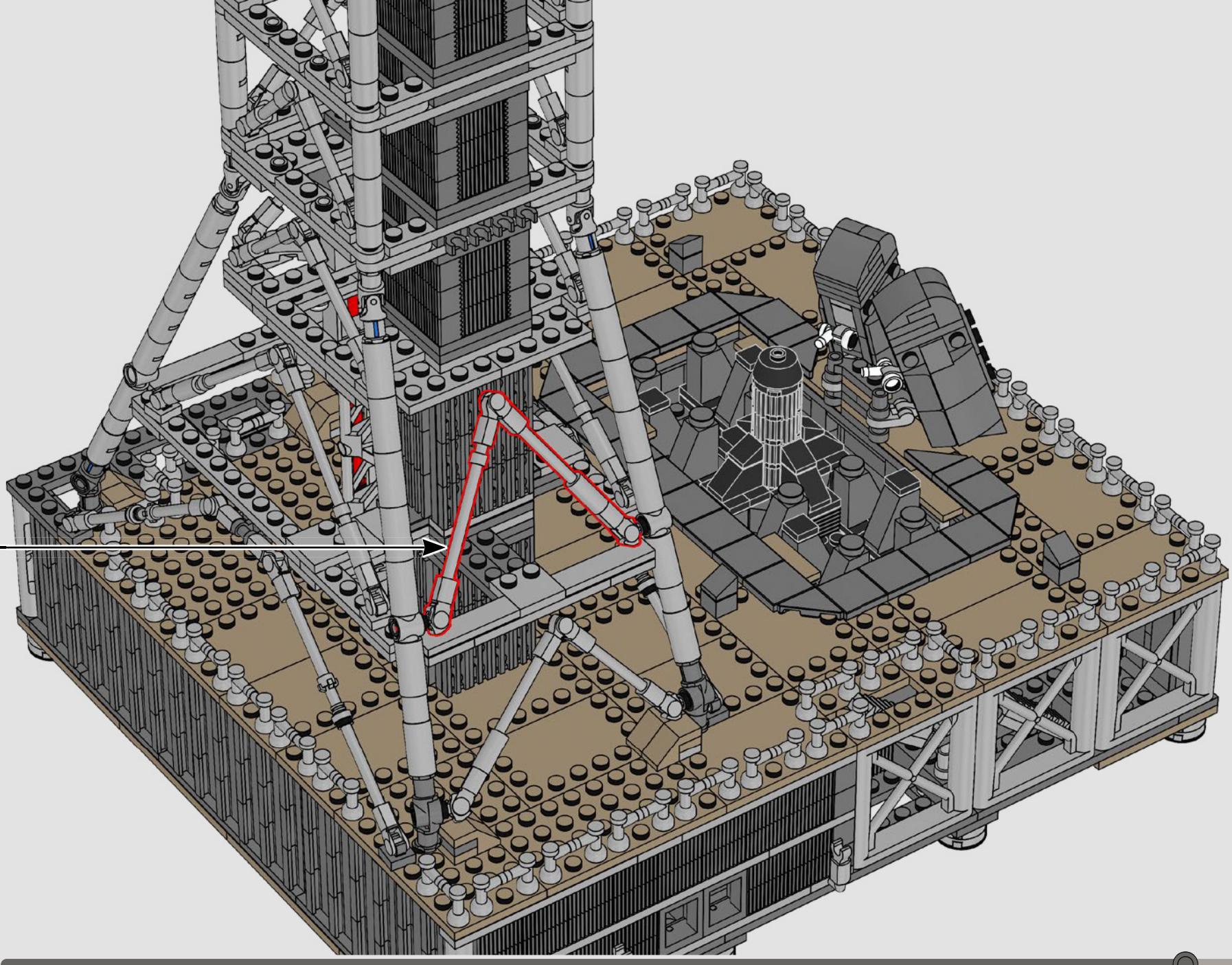


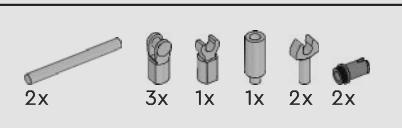
4



5

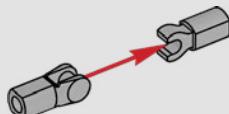




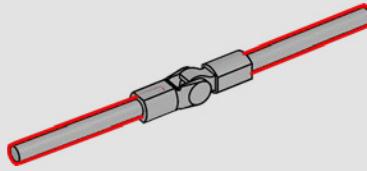


248

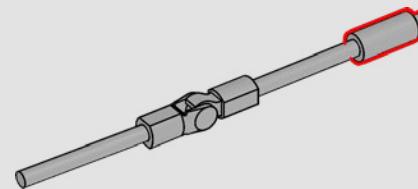
1



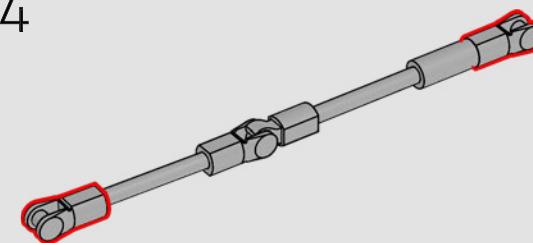
2



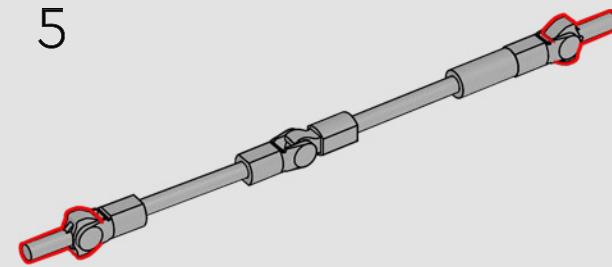
3

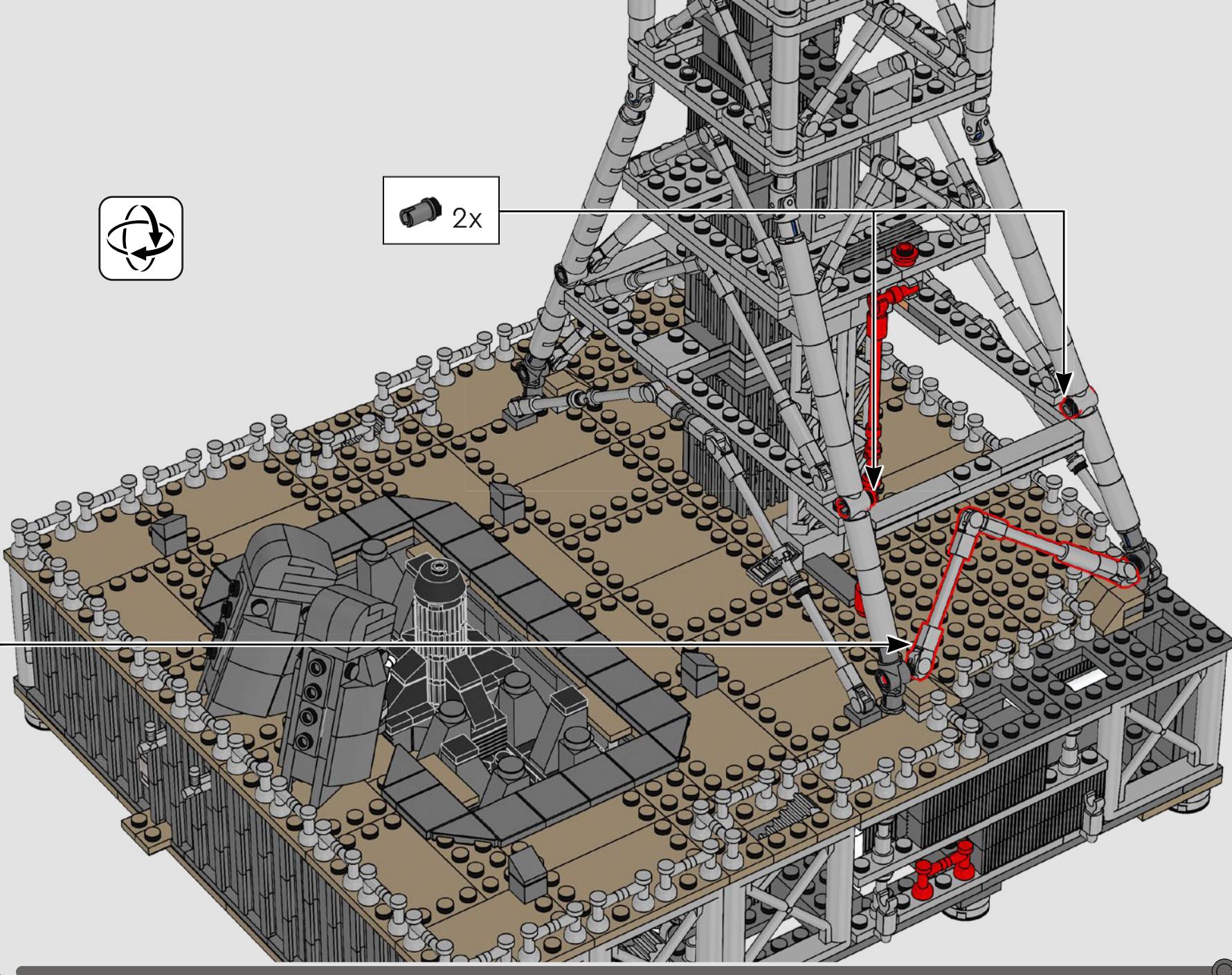


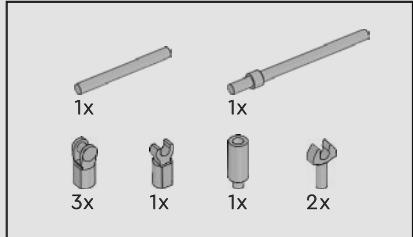
4



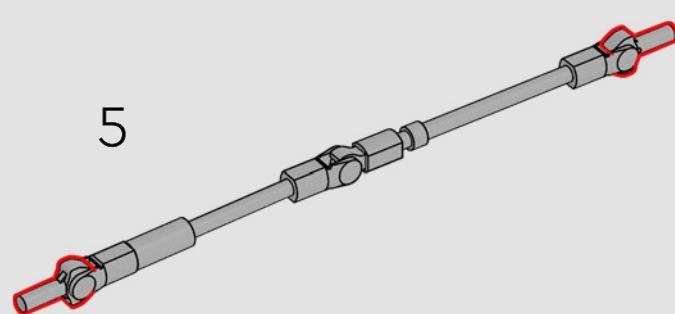
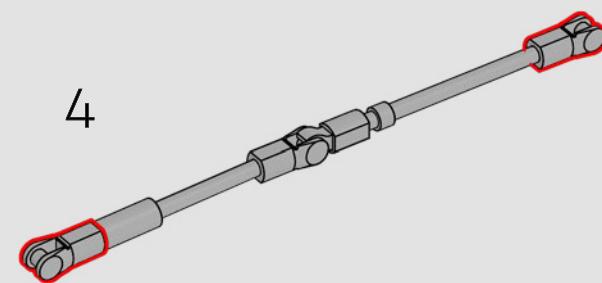
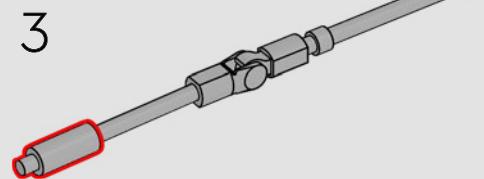
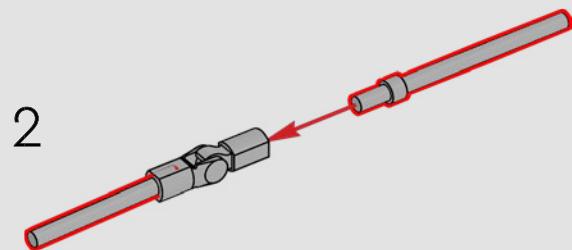
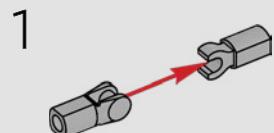
5

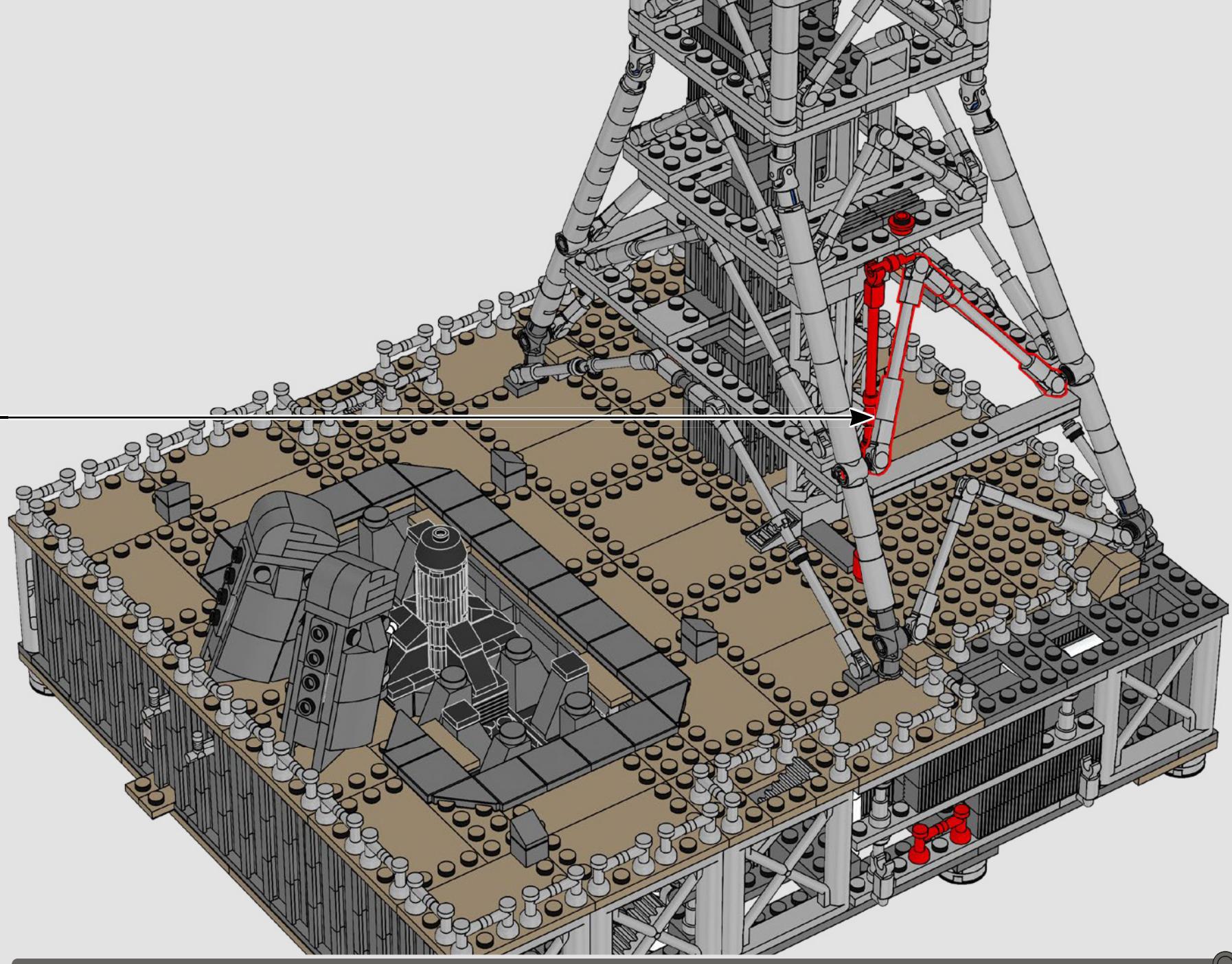


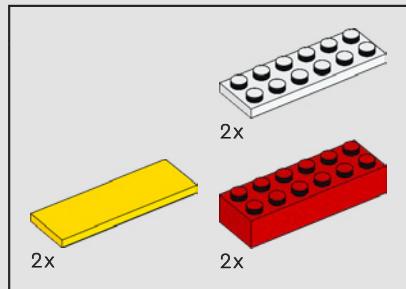




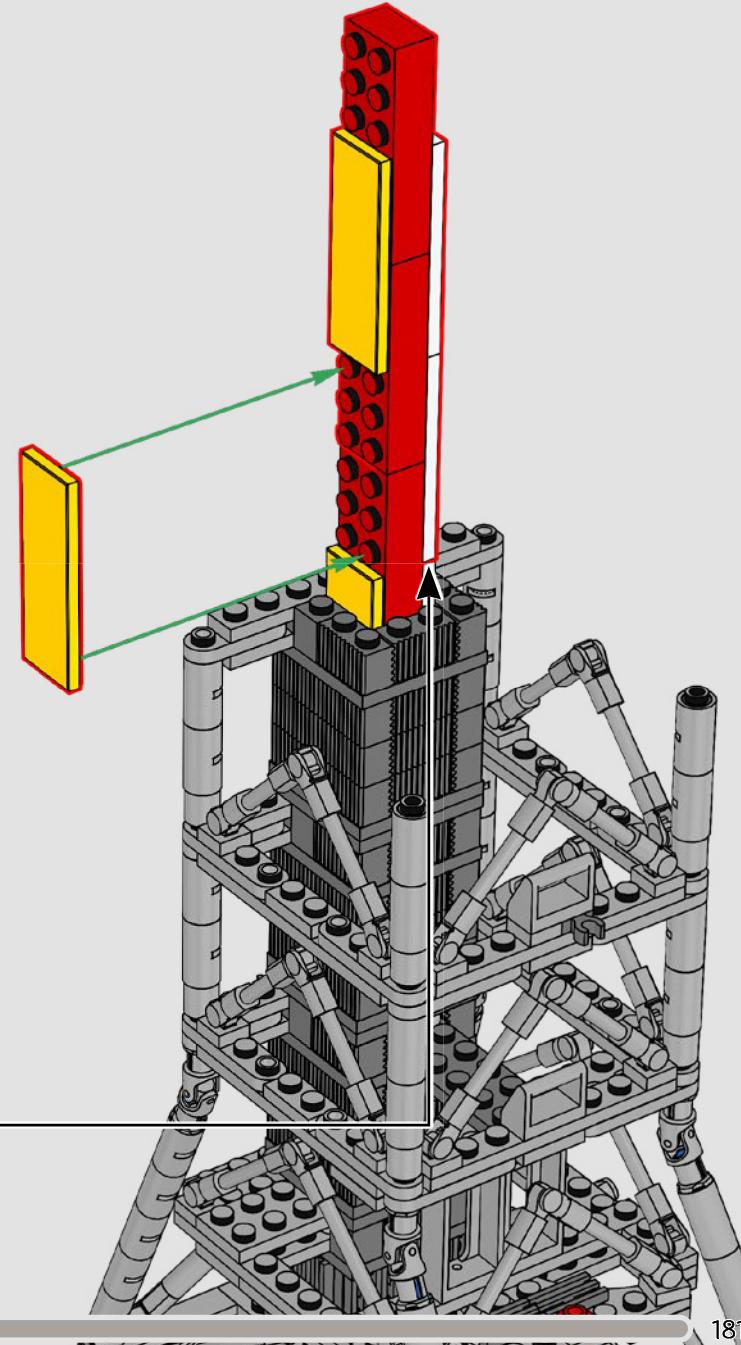
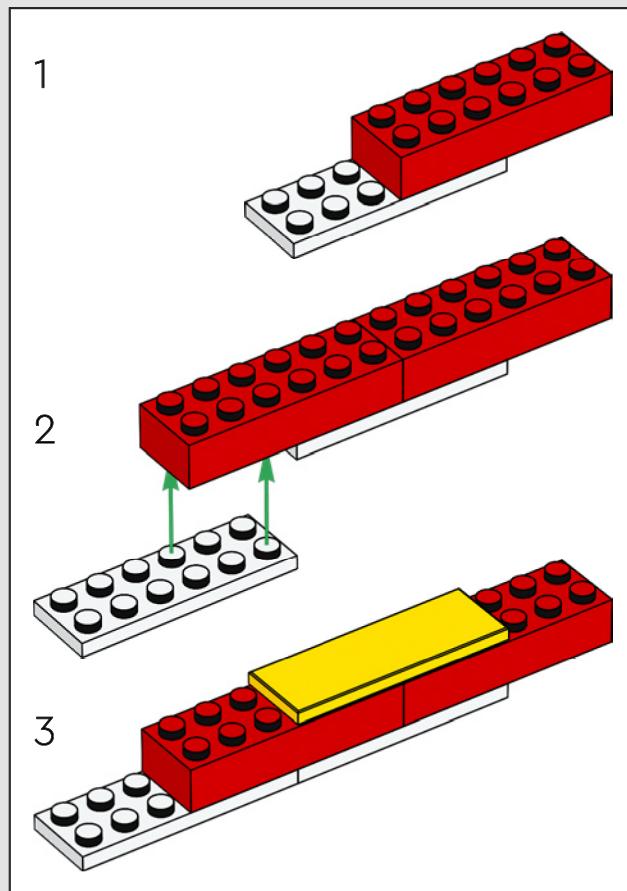
249

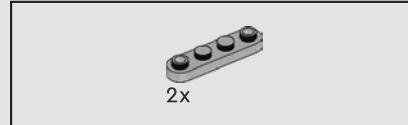
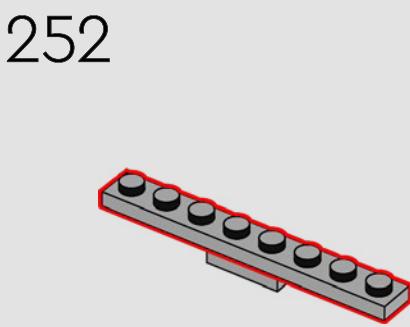
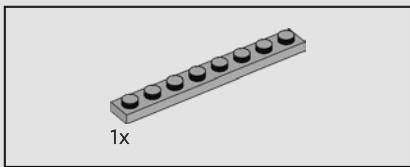
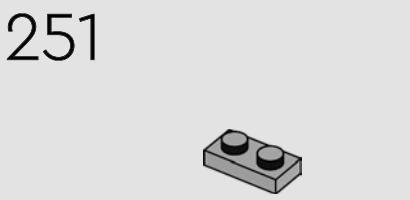
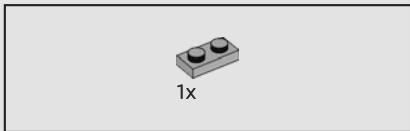
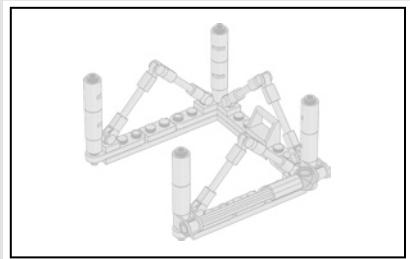




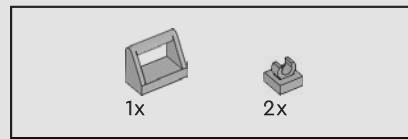
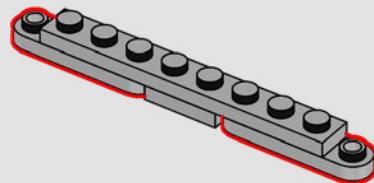


250

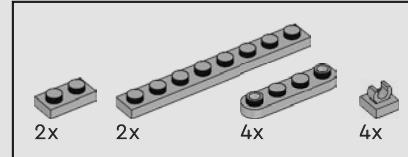
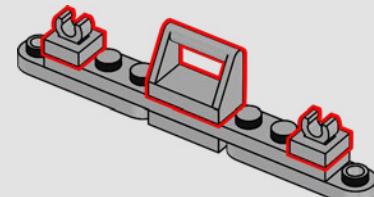




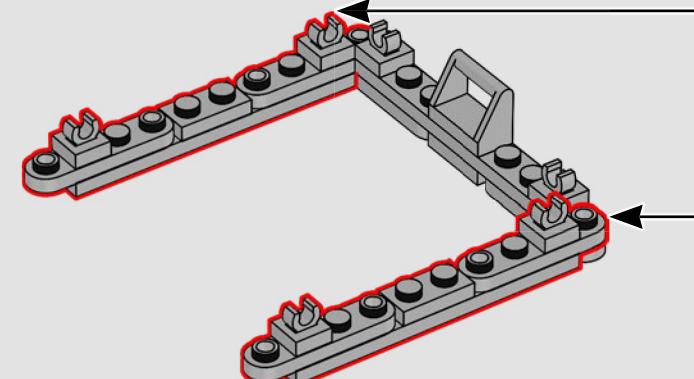
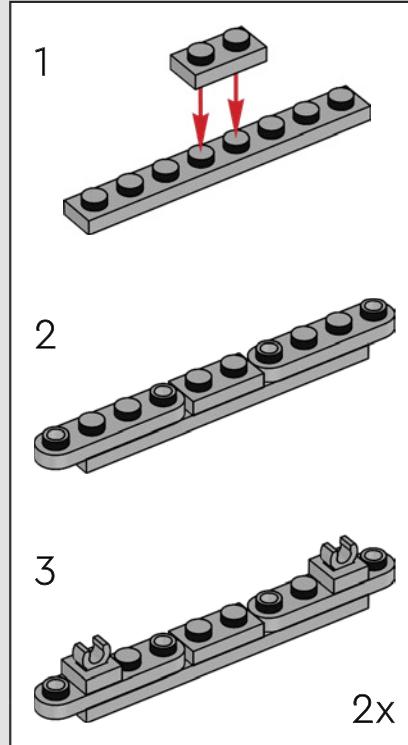
253



254

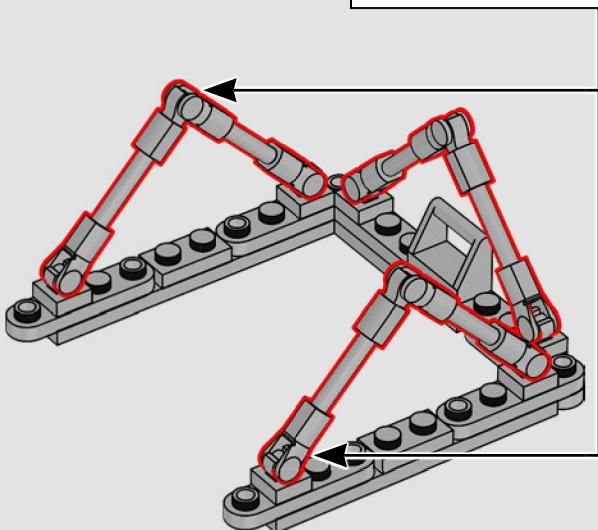
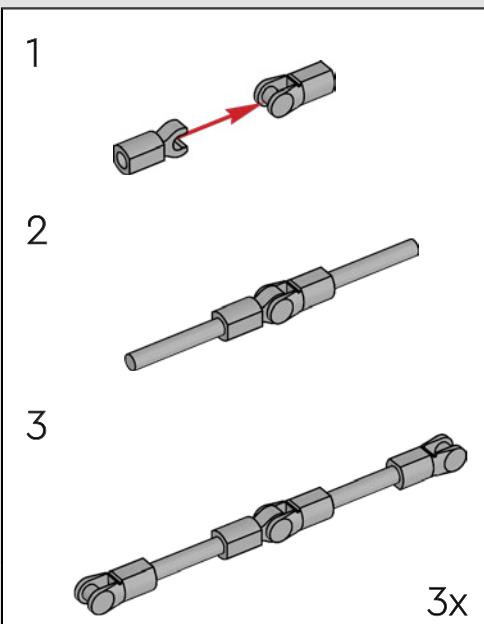


255

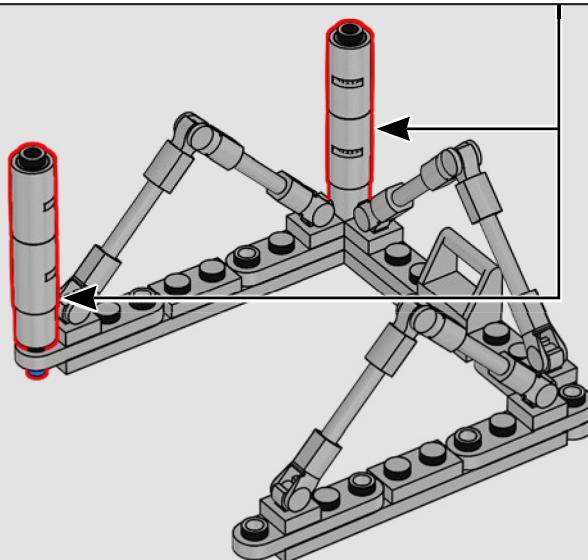
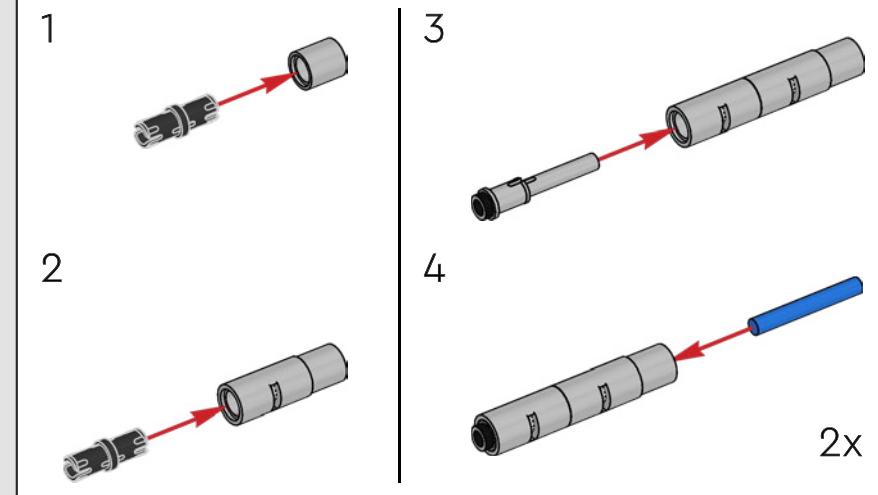


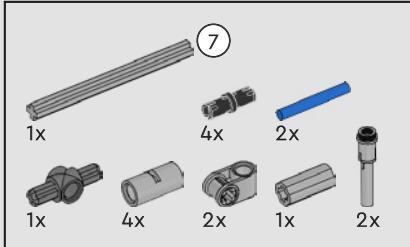


256



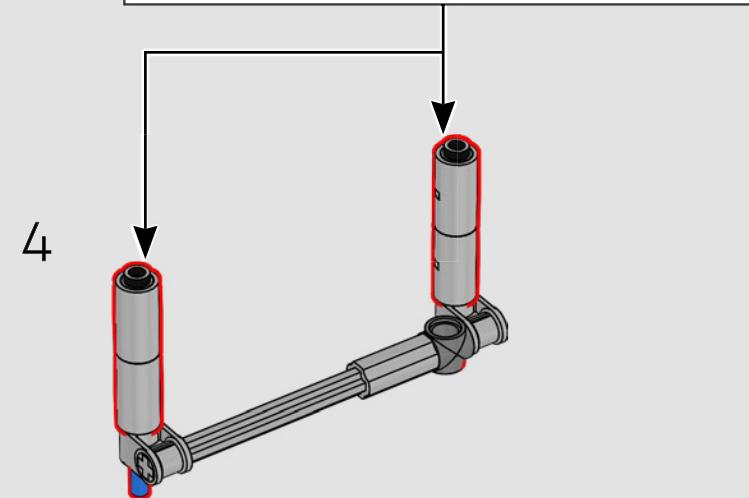
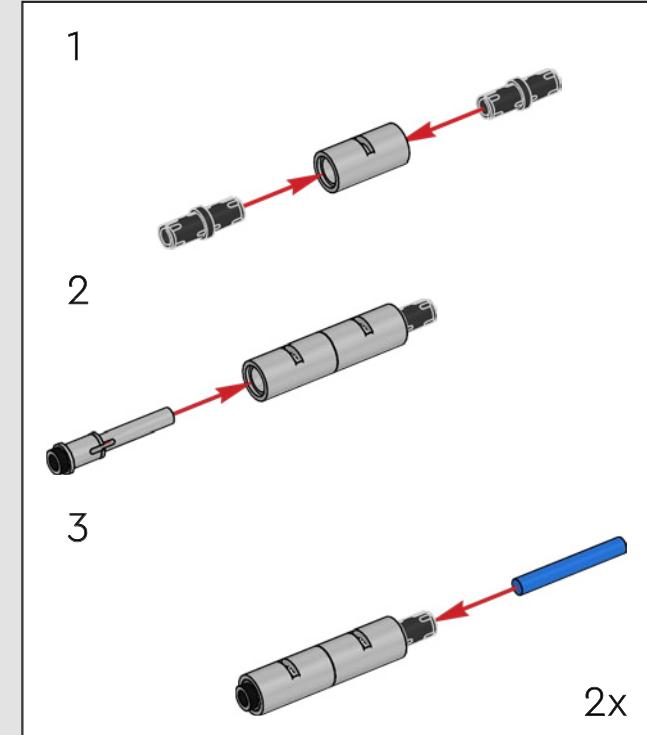
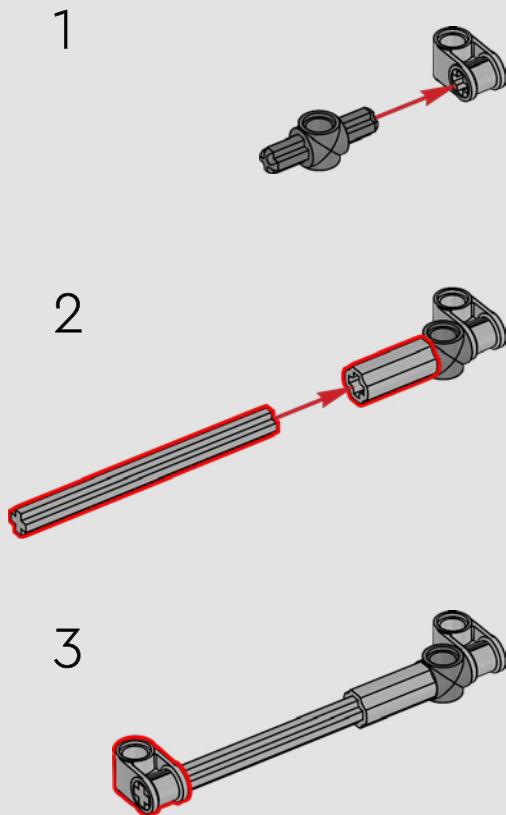
257

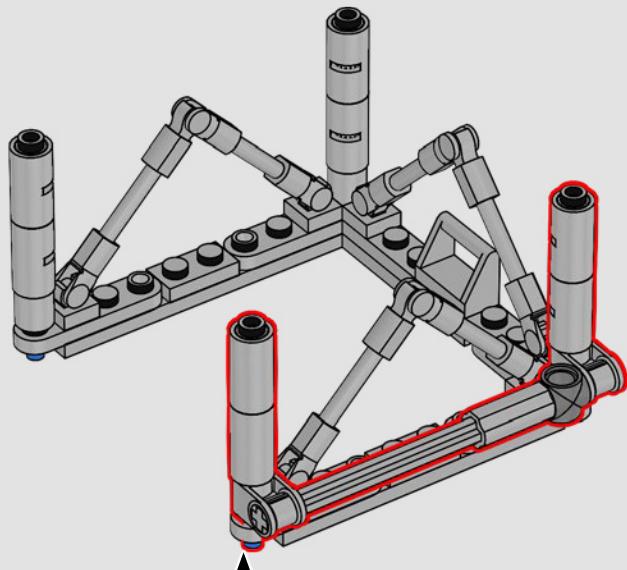




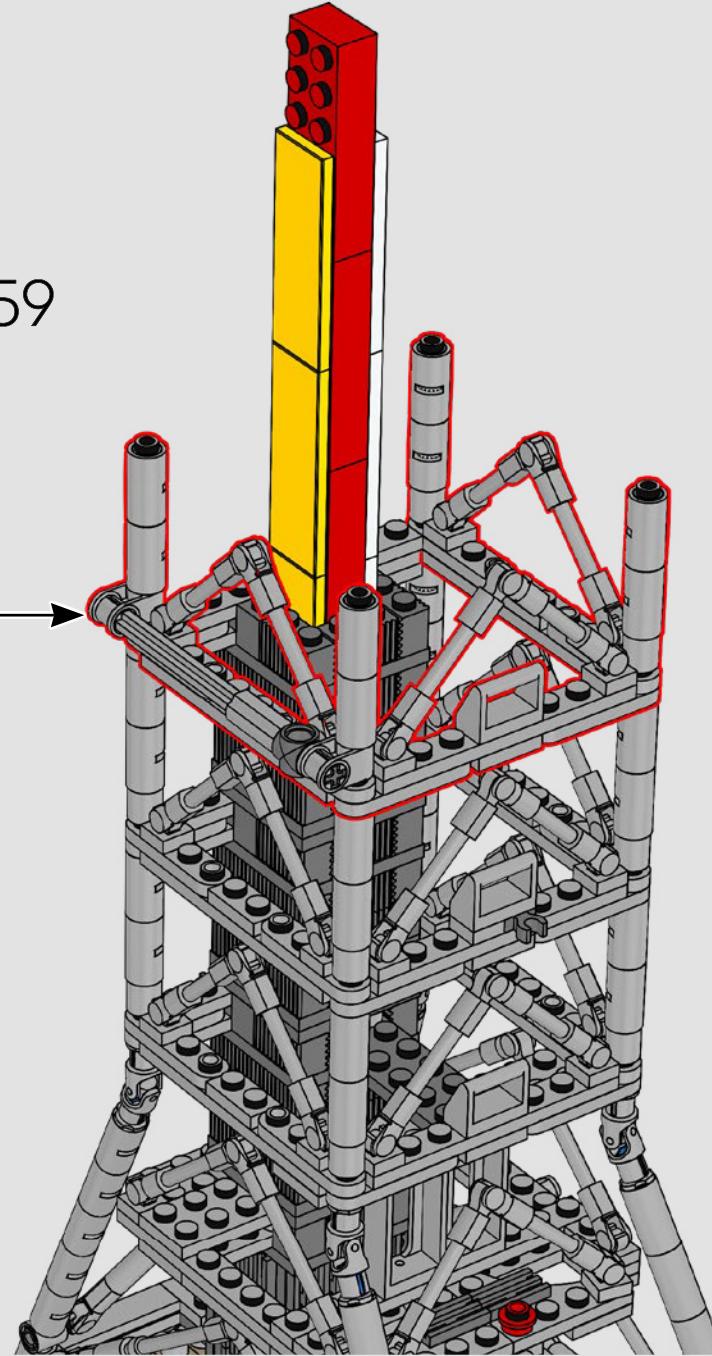
(7) 1:1

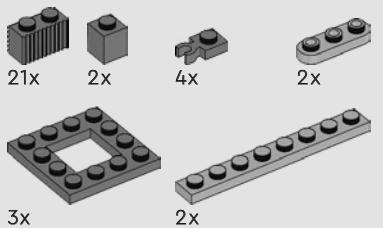
258



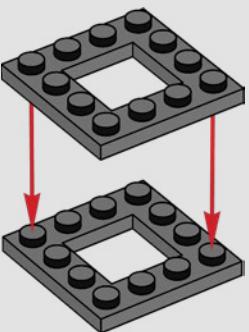


259



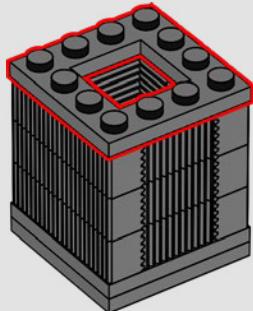


260

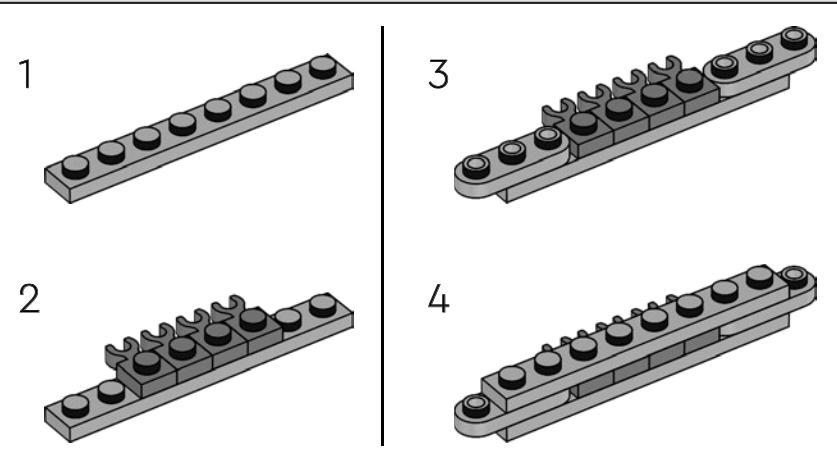
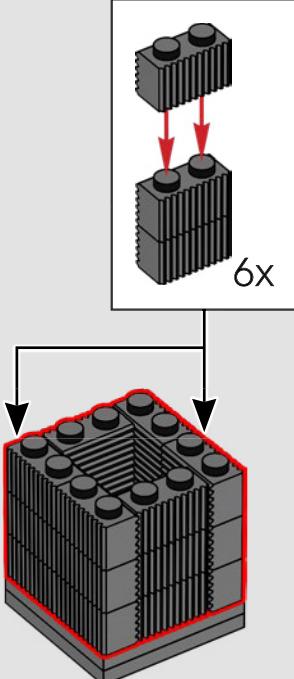


1

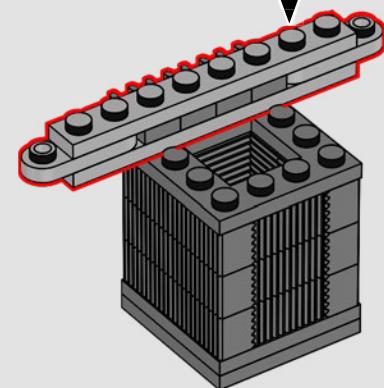
3



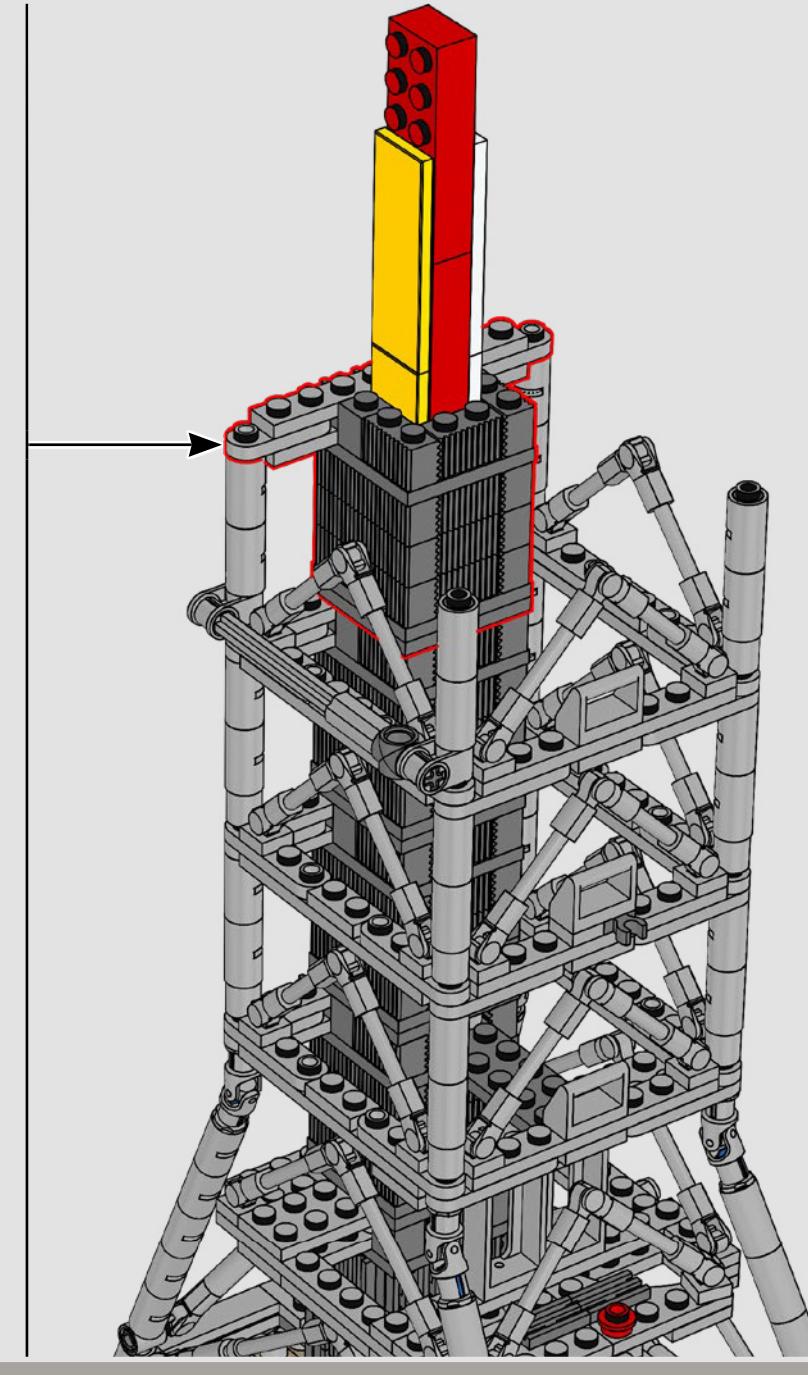
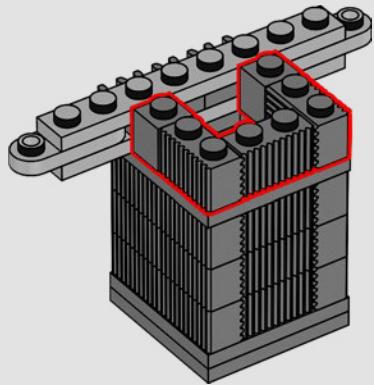
2

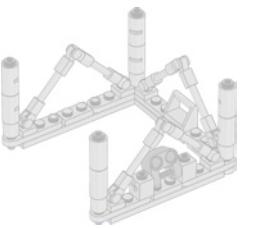


4



5



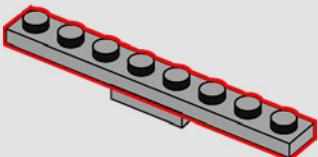


1x

261

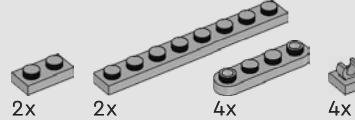
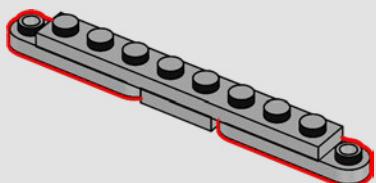


262



2x

263



2x

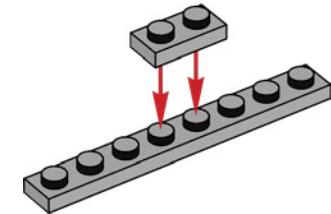
2x

4x

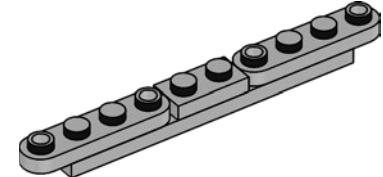
4x

265

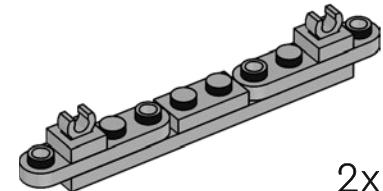
1



2

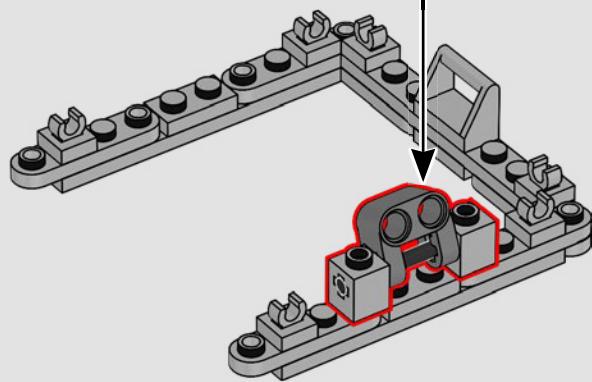
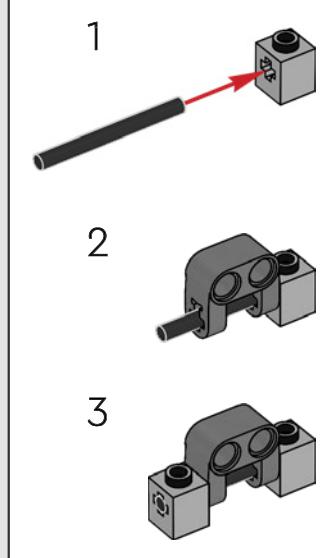


3

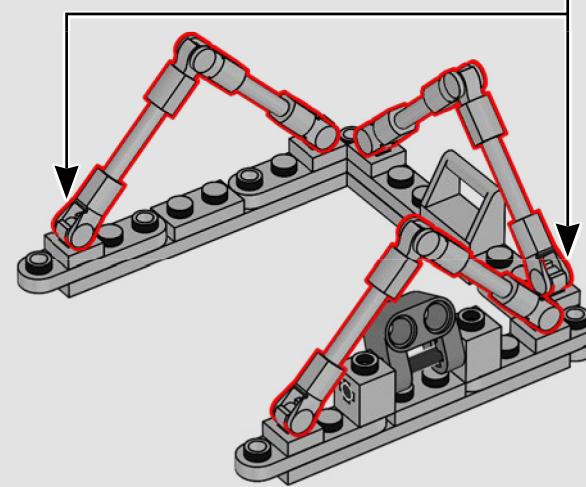
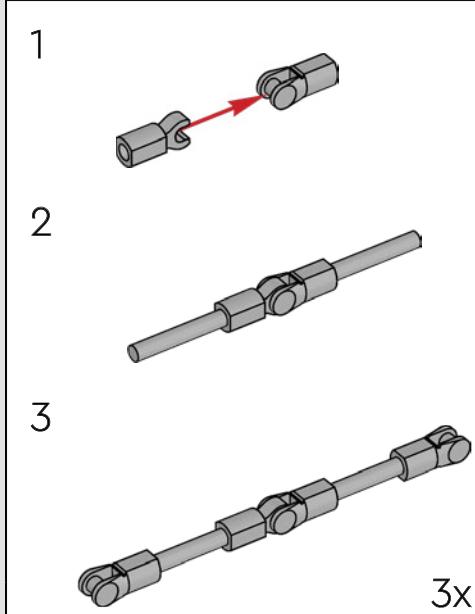




266

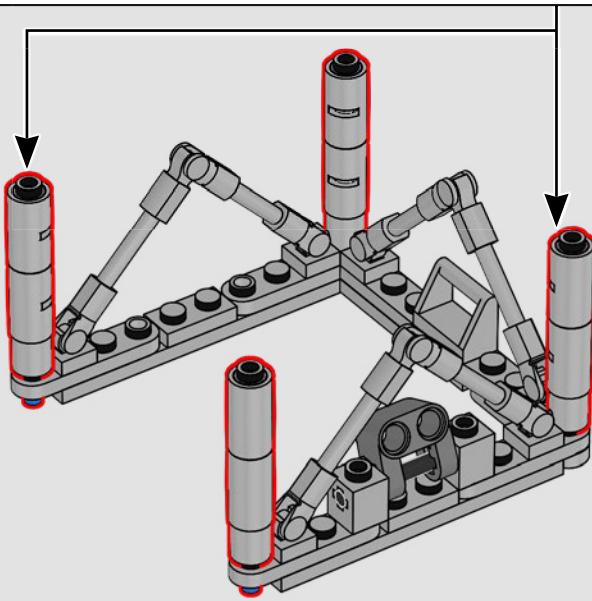
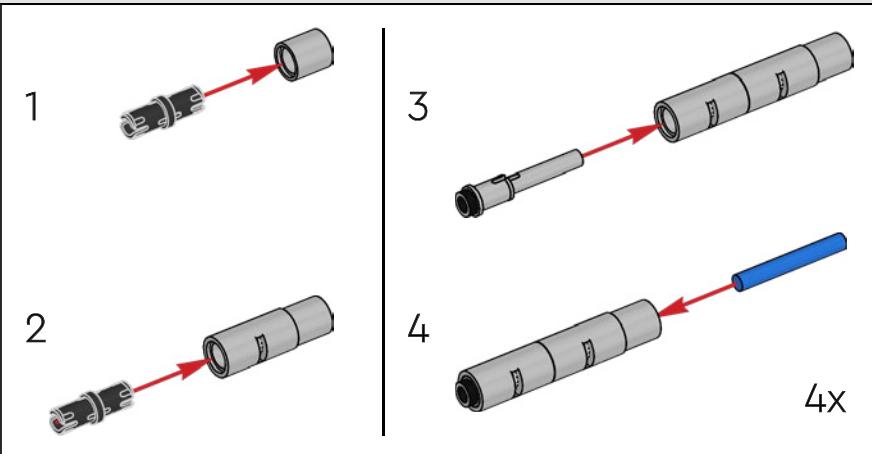


267

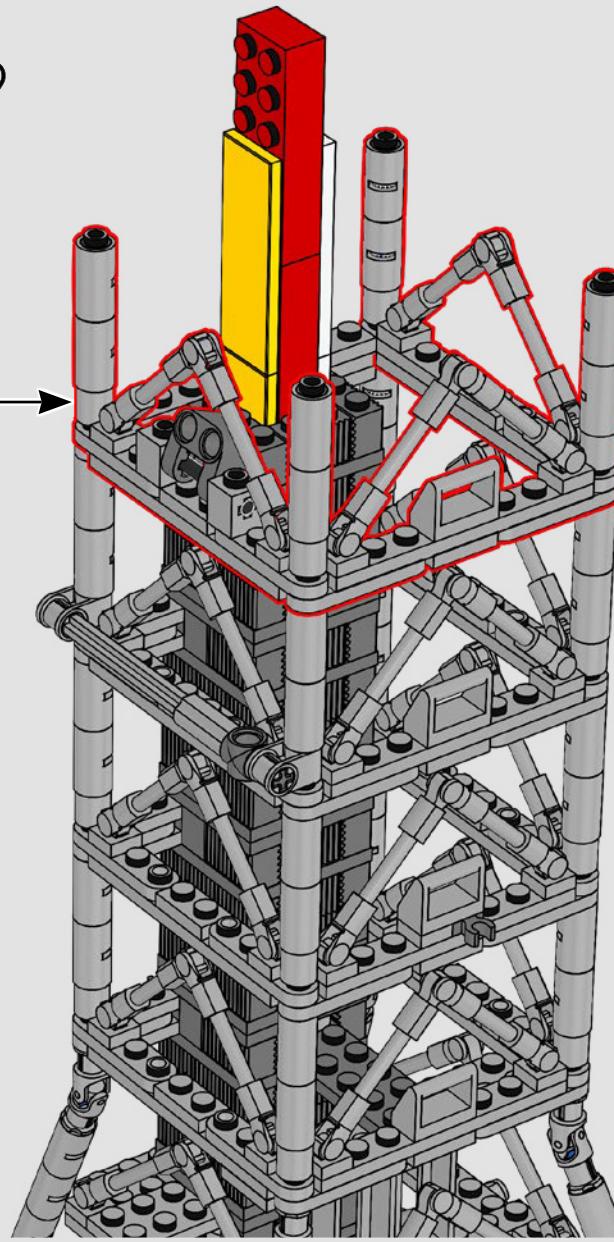


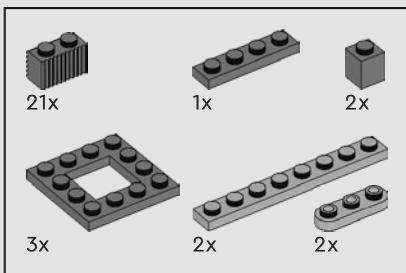
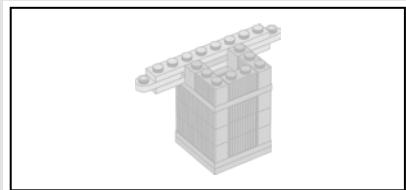


268



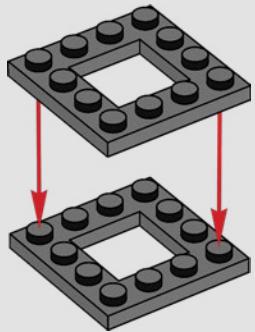
269



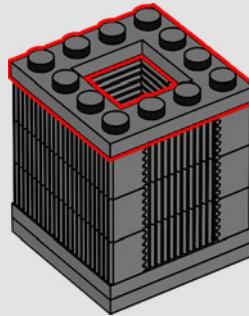


270

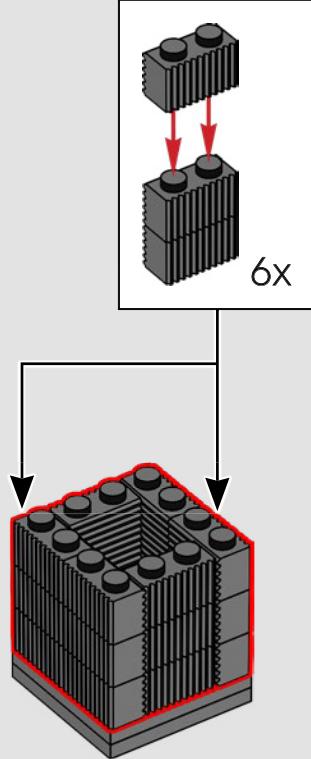
1



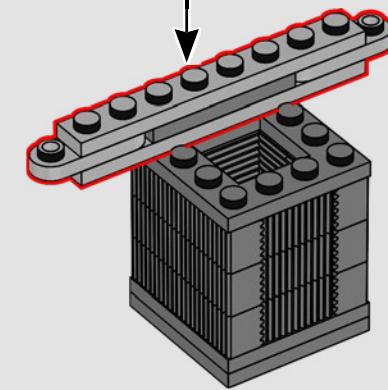
3



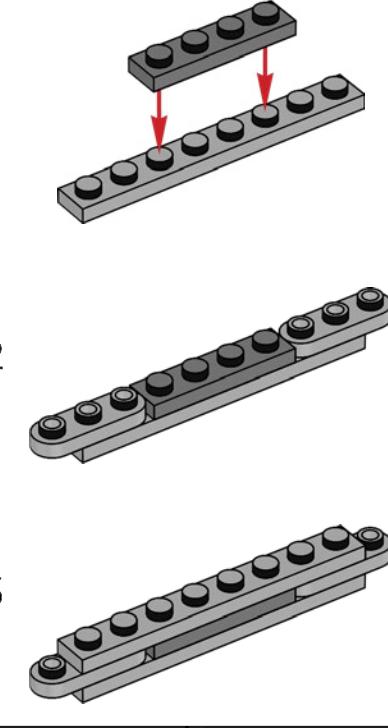
2



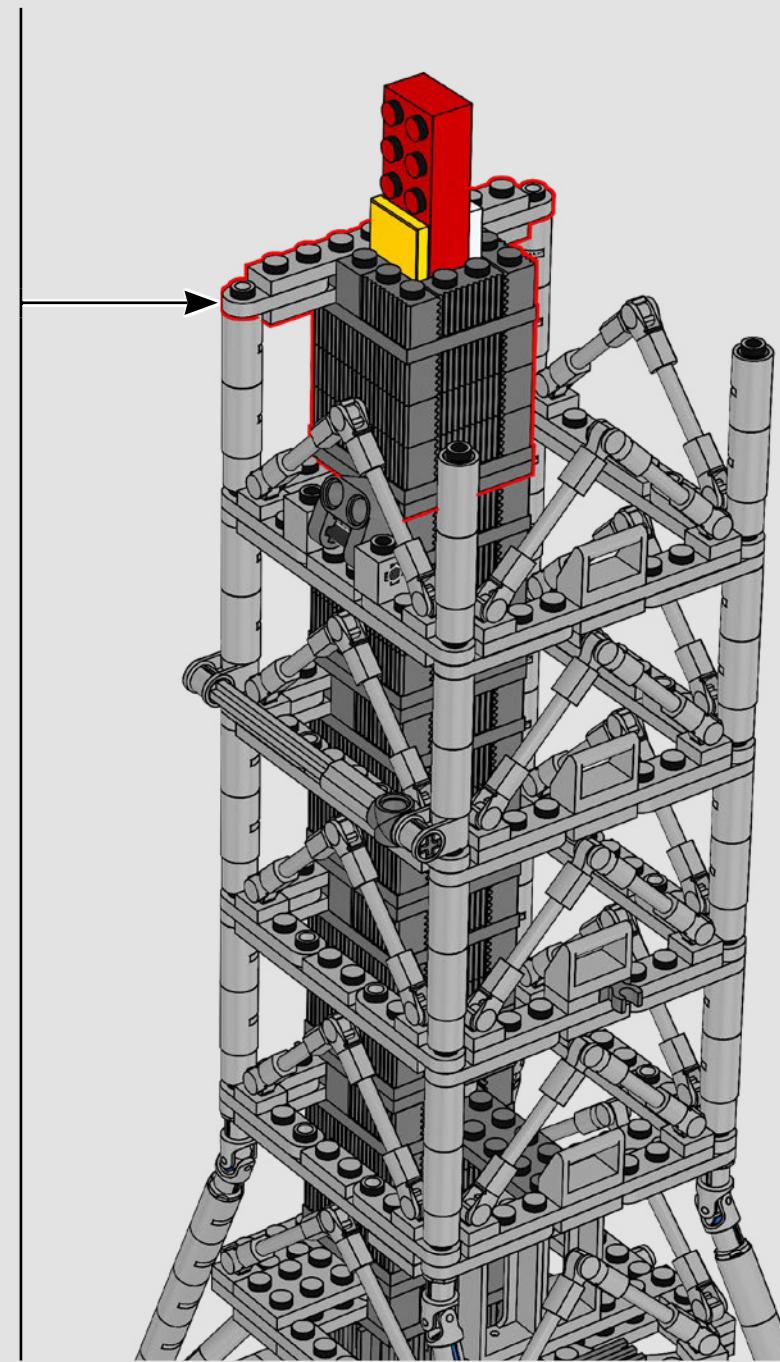
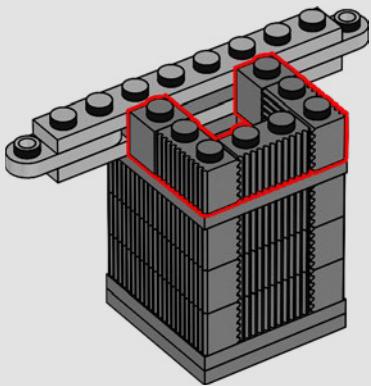
4

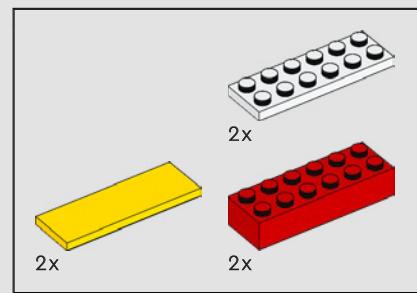


1

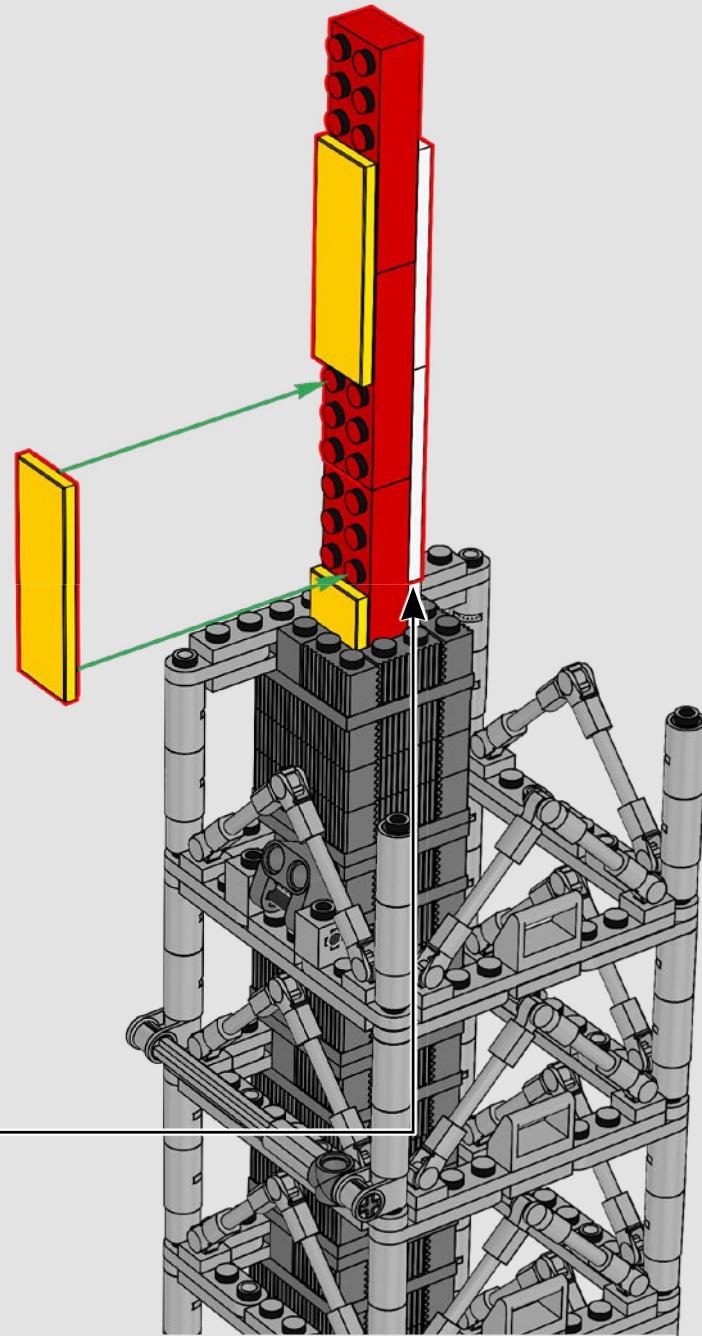
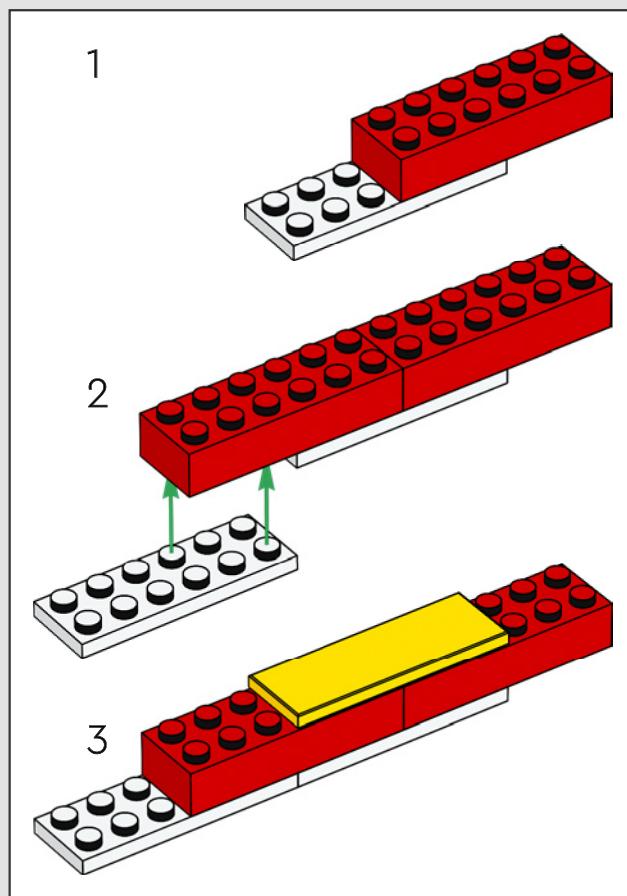


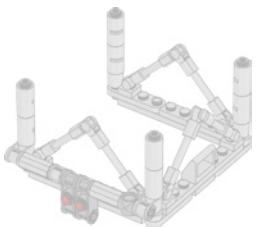
5





271





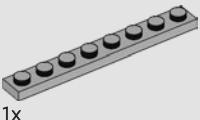
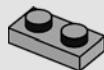
2x

274



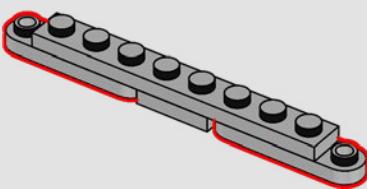
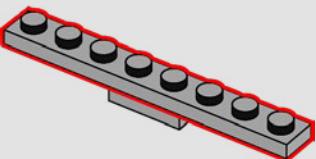
1x

272



1x

273

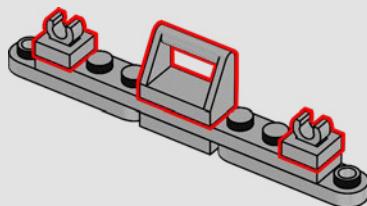


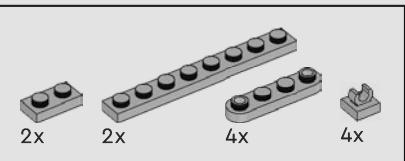
1x



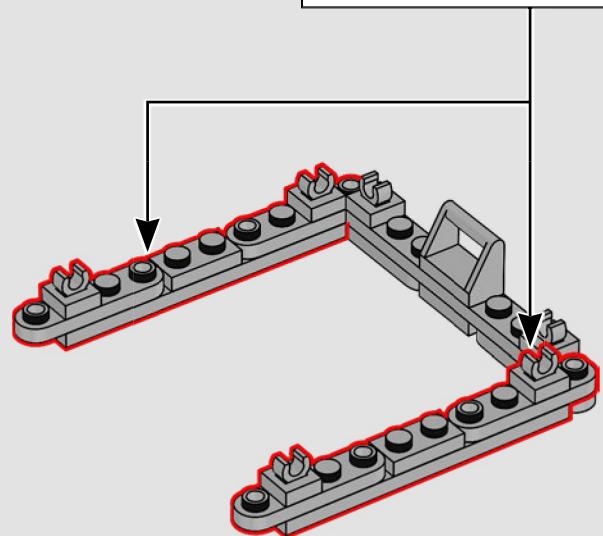
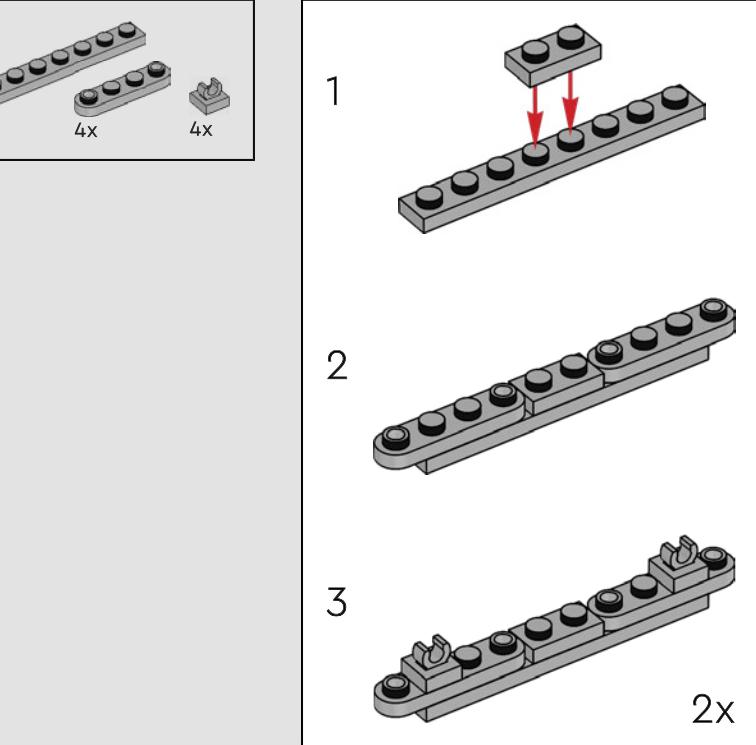
2x

275

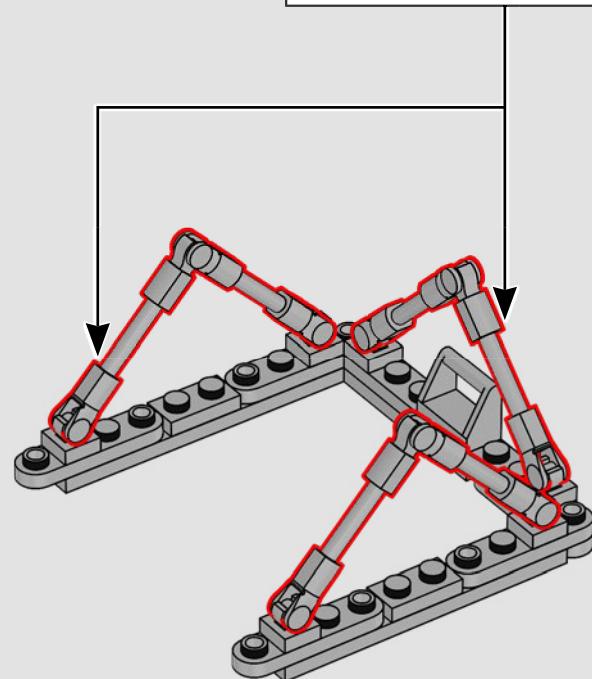
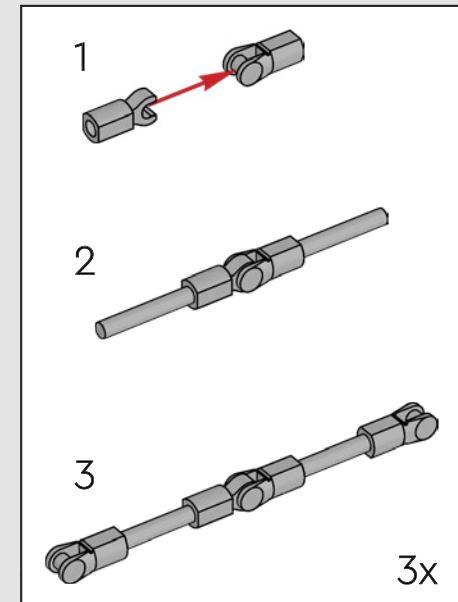




276

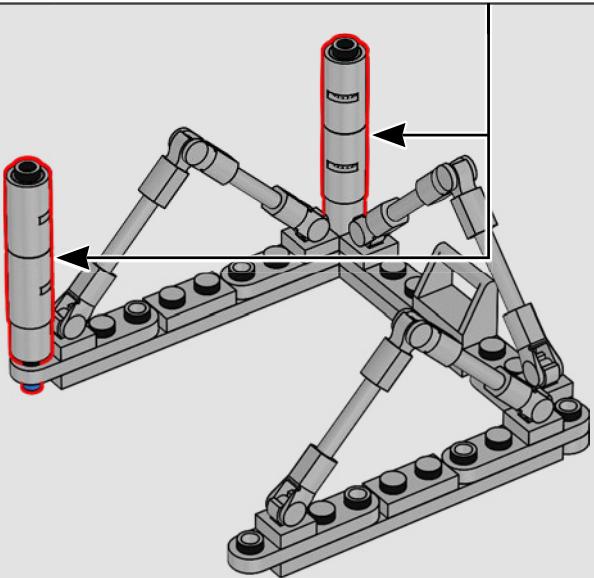
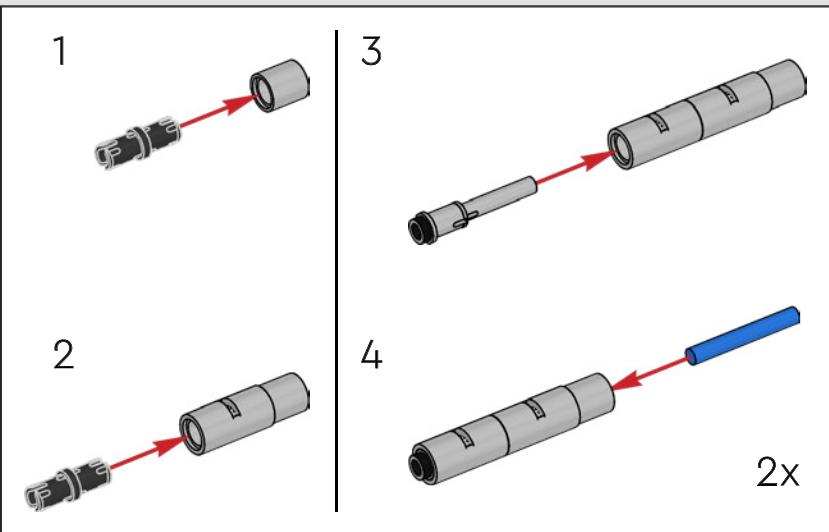


277

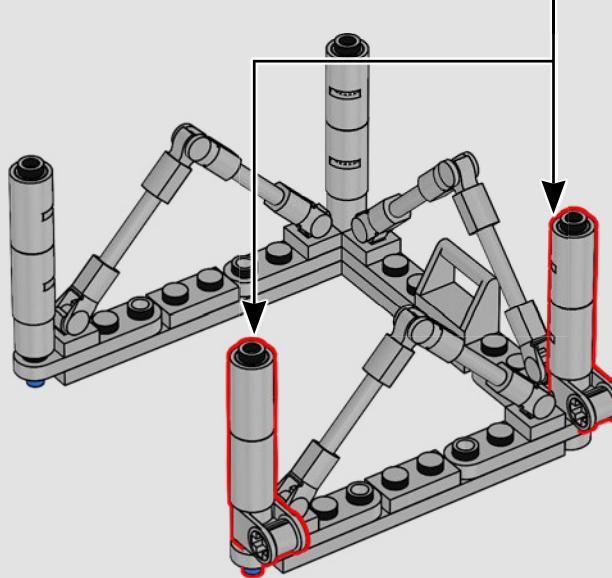
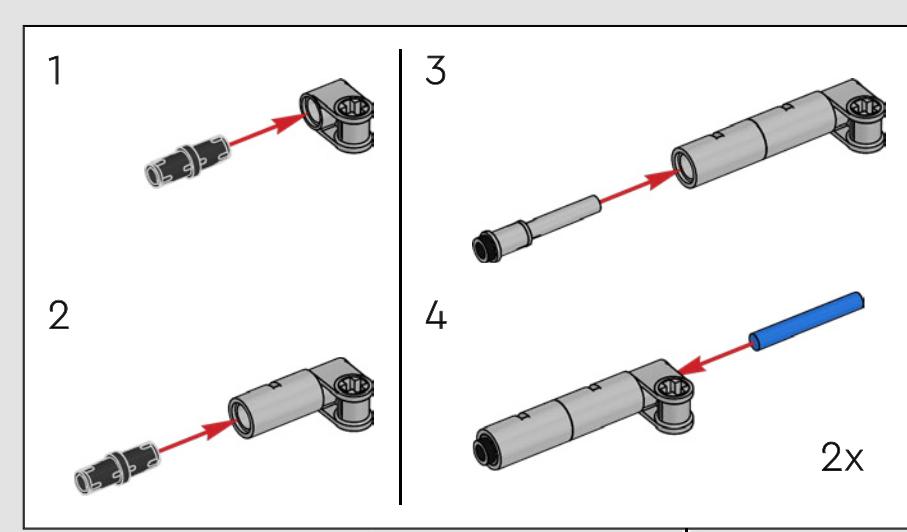


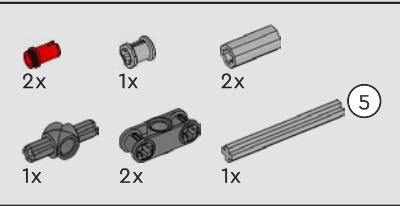


278

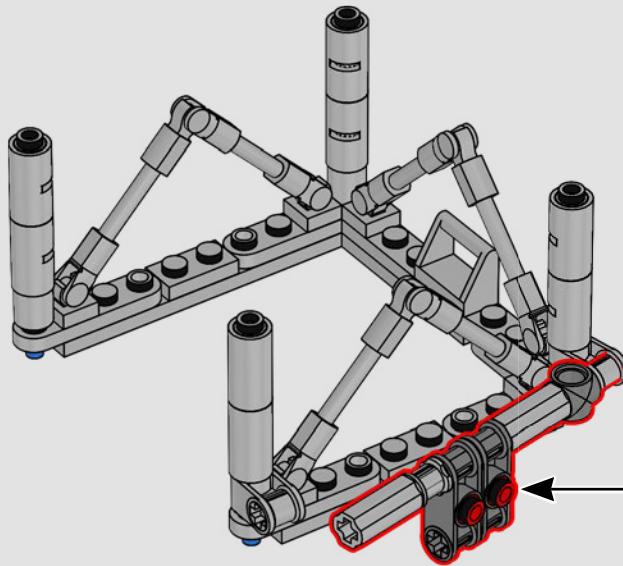
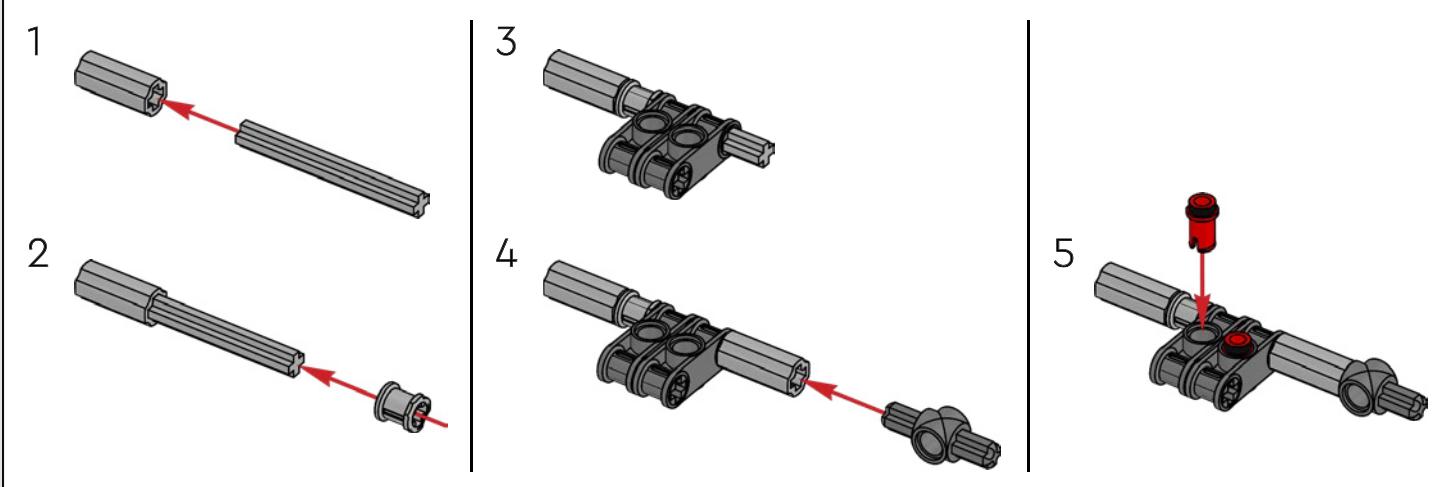


279





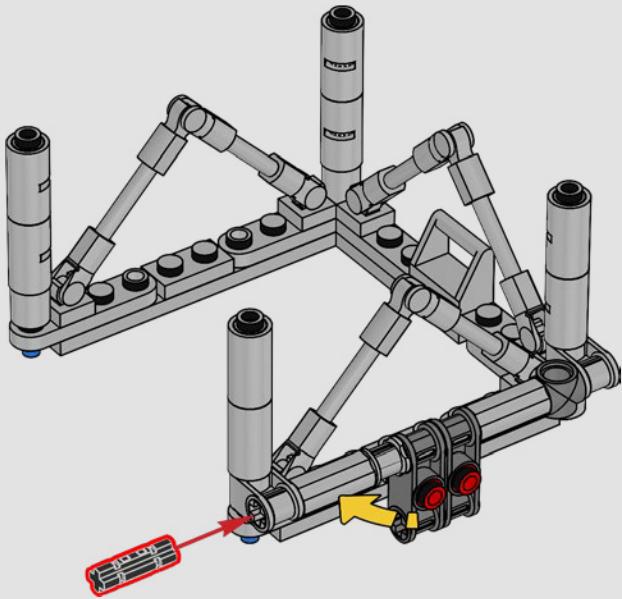
280



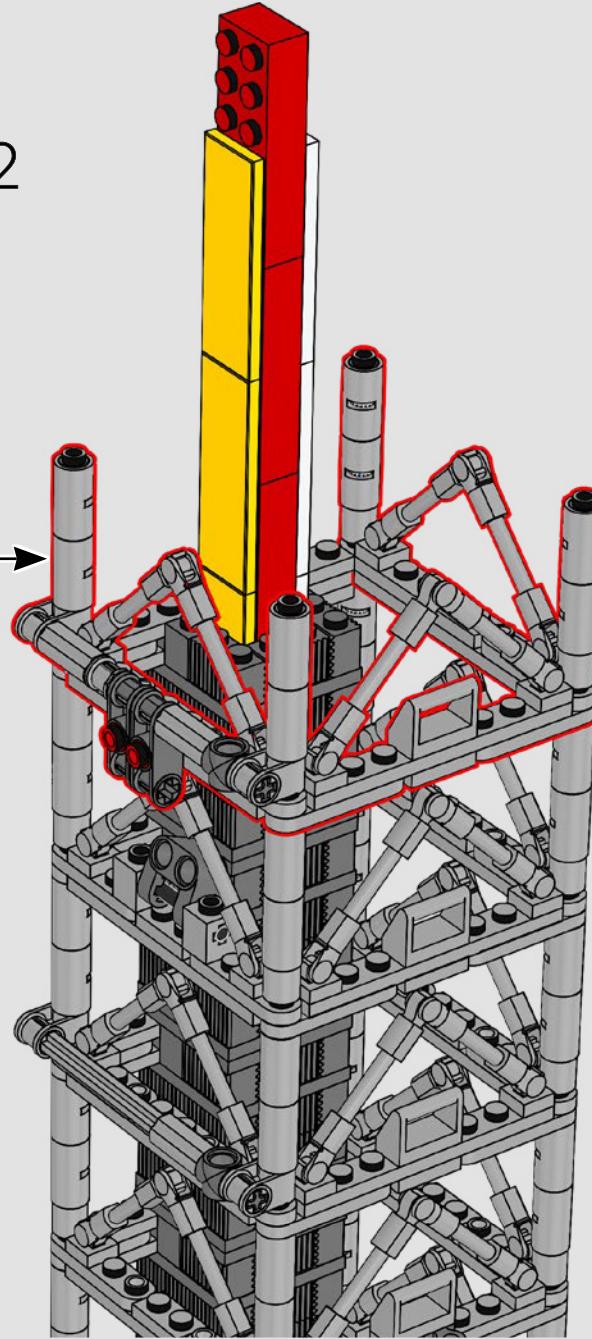


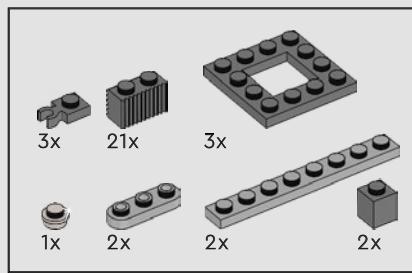
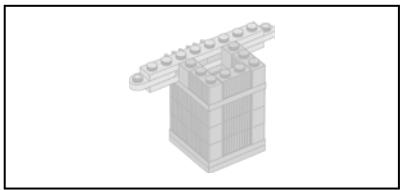
1x

281



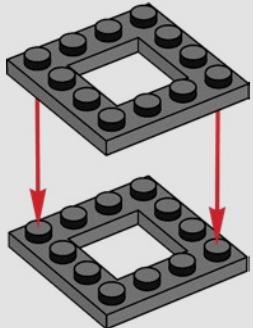
282



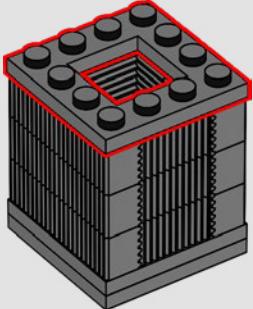


283

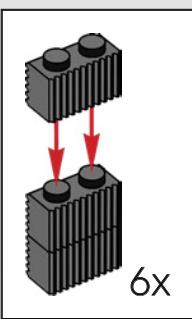
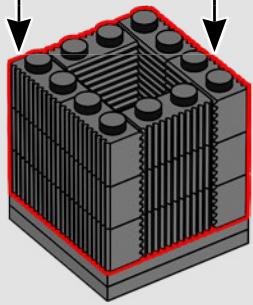
1



3



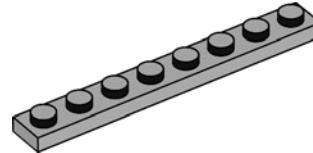
2



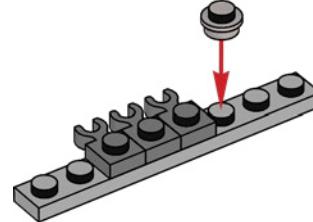
6x

1

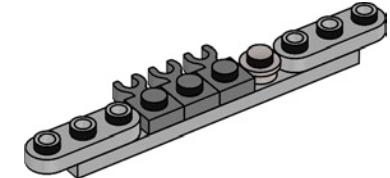
1



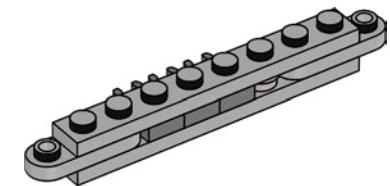
2



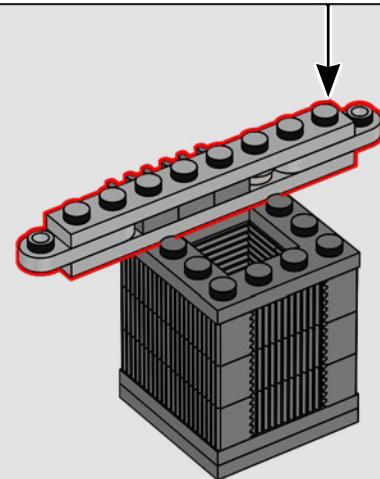
3



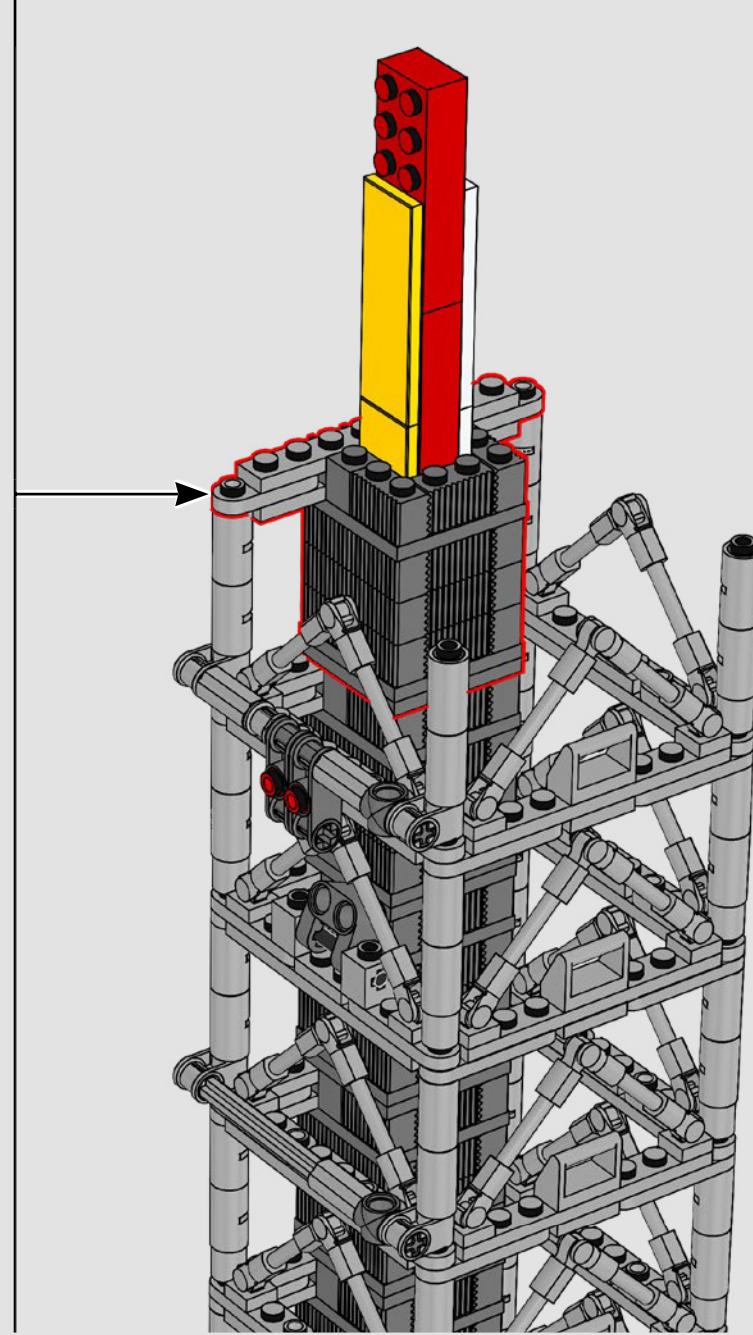
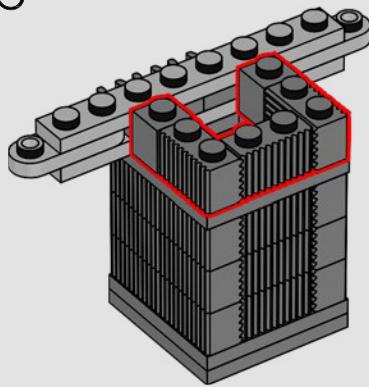
4

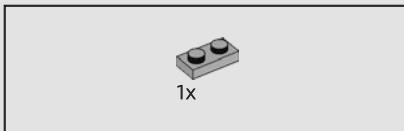
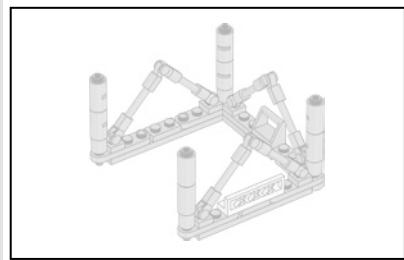


4

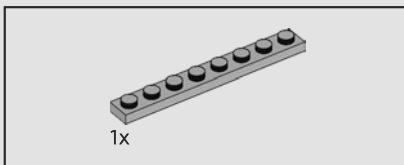


5

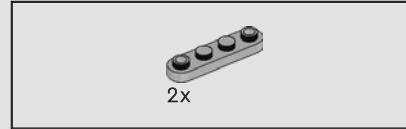
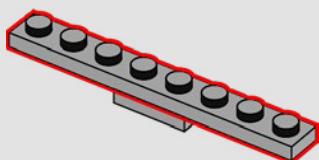




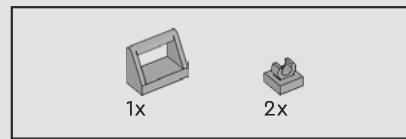
284



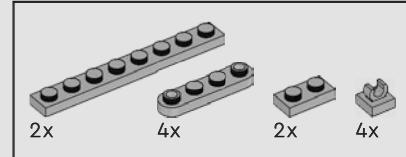
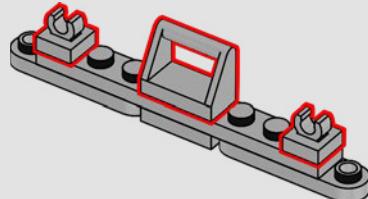
285



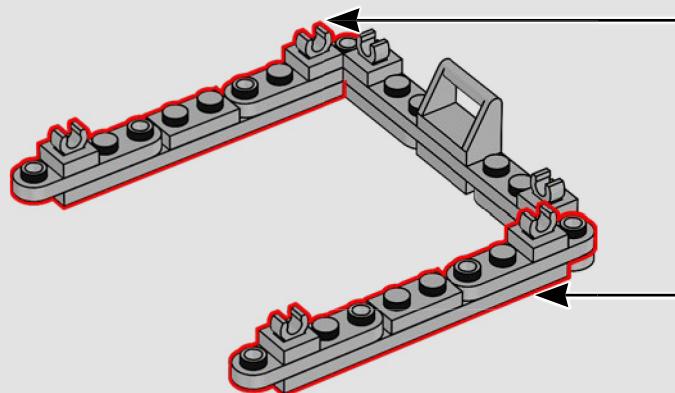
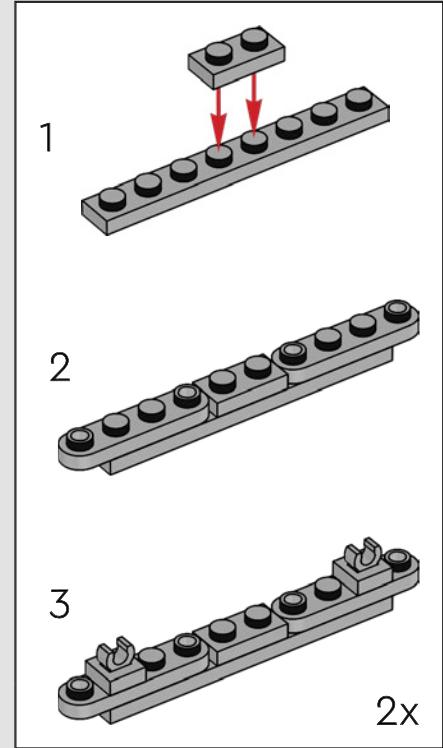
286

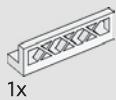


287



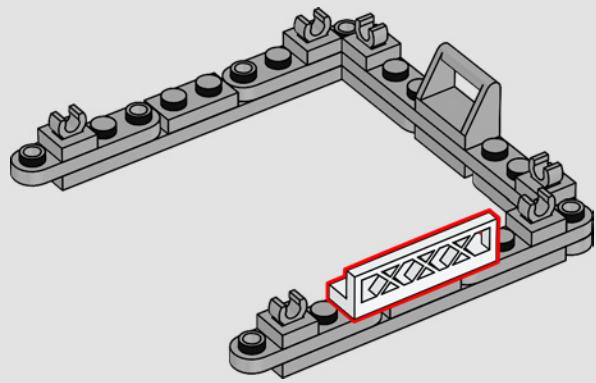
288



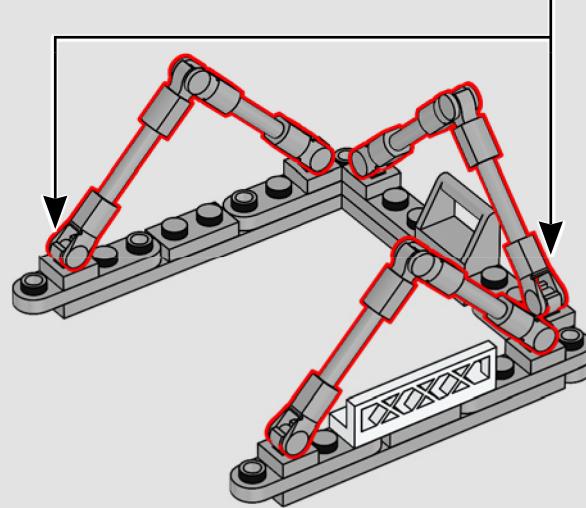
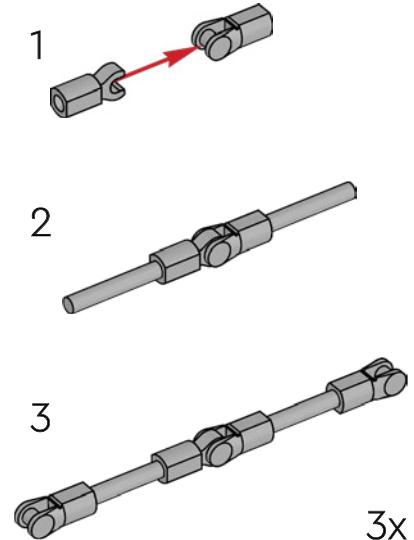


1x

289

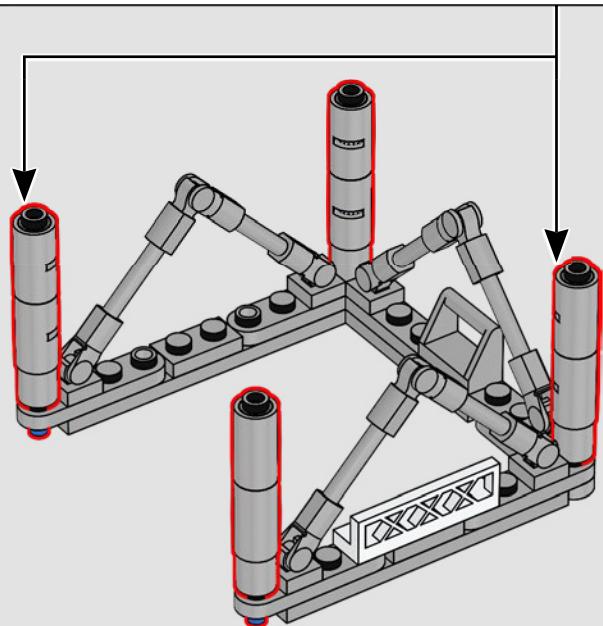
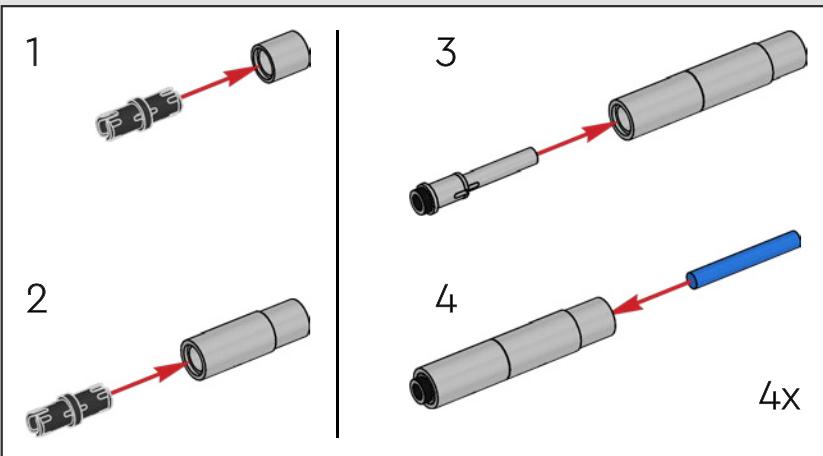


290

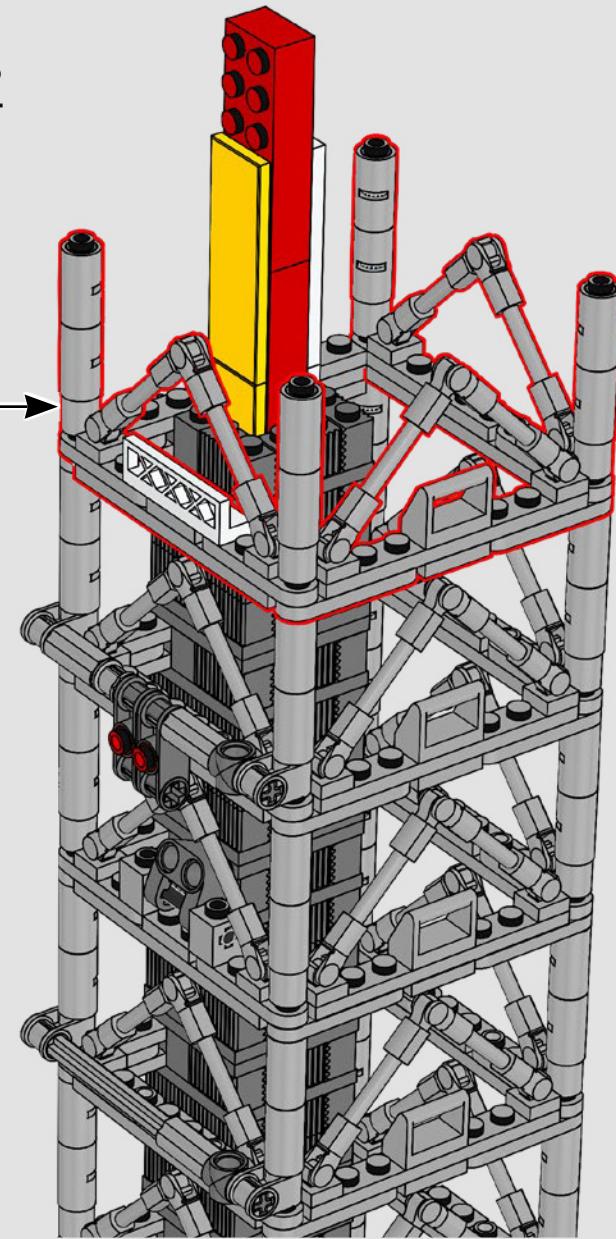


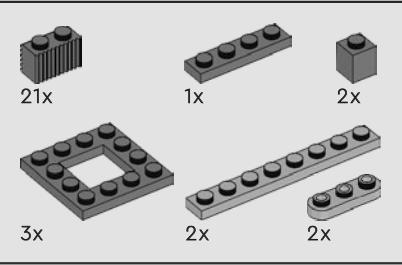


291



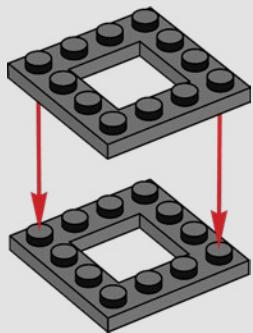
292



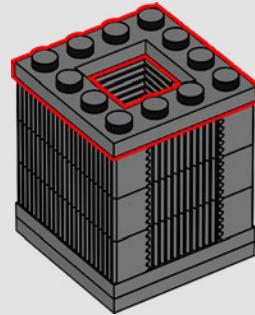


293

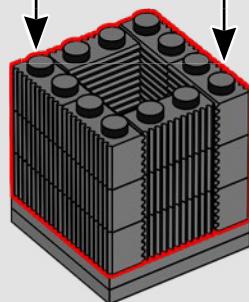
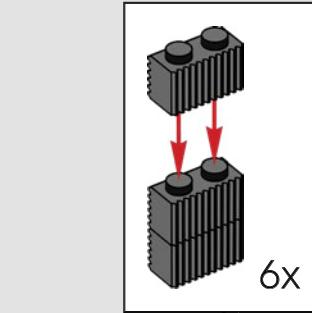
1



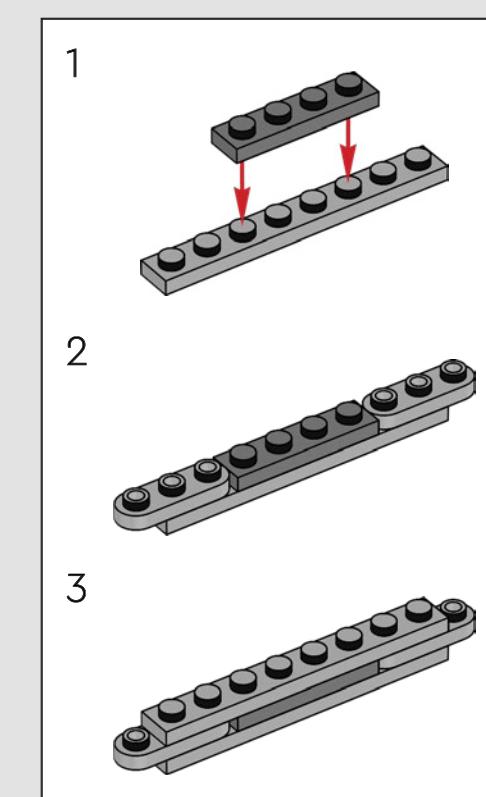
3



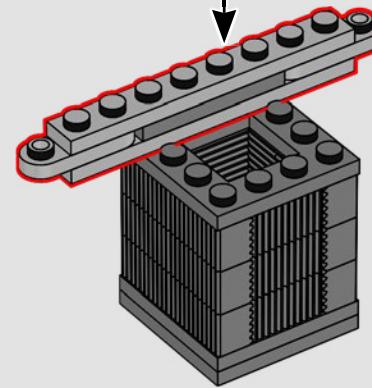
2



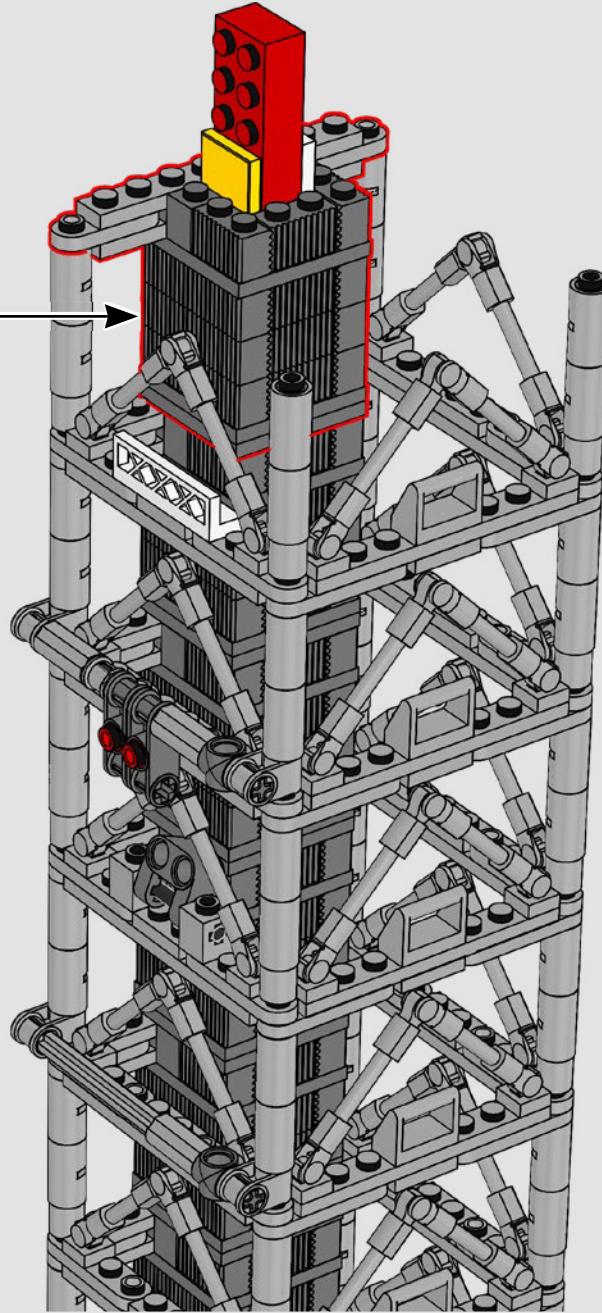
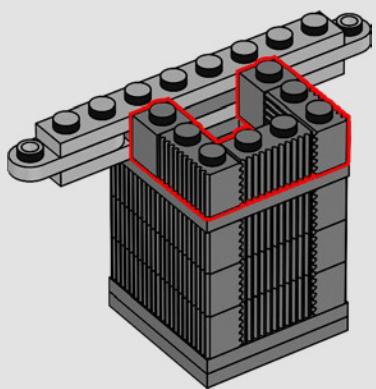
3

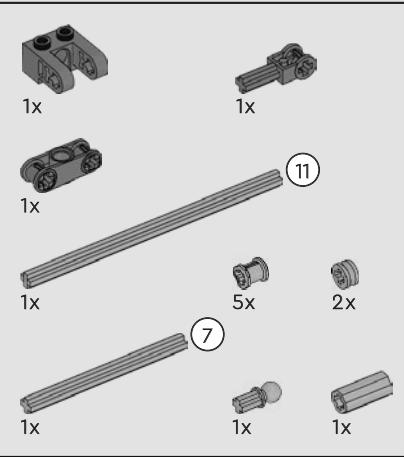


4

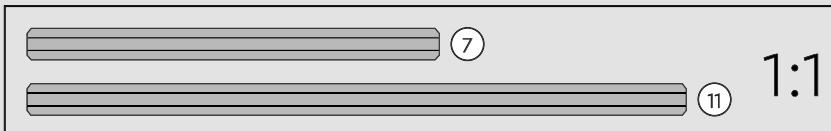
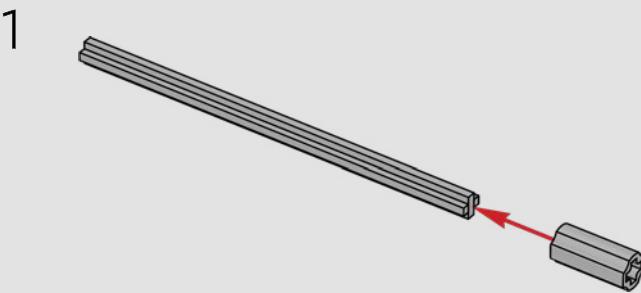


5

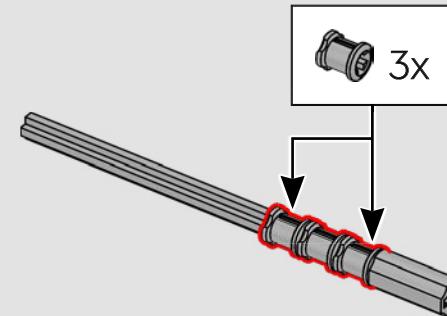




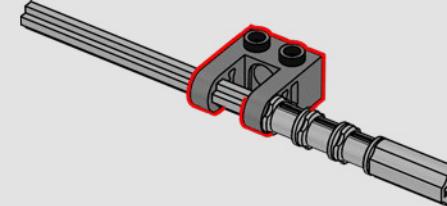
294



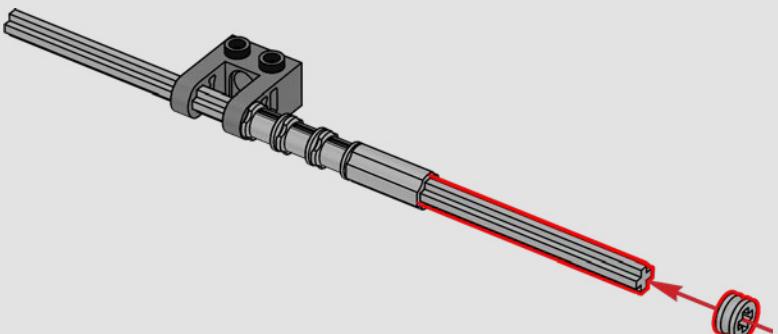
2



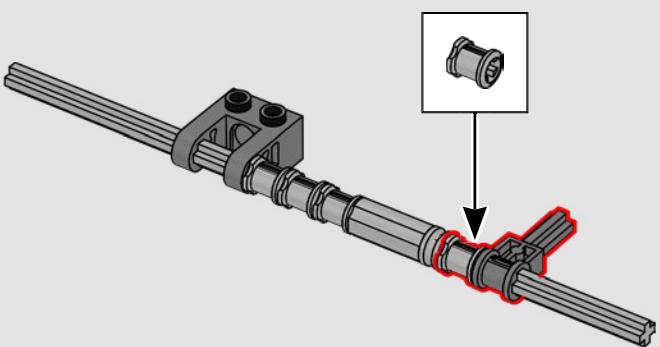
3



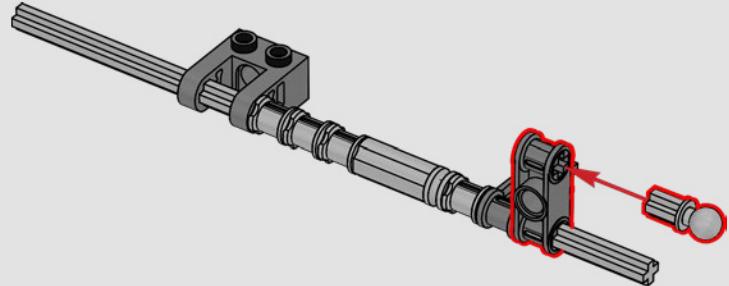
4



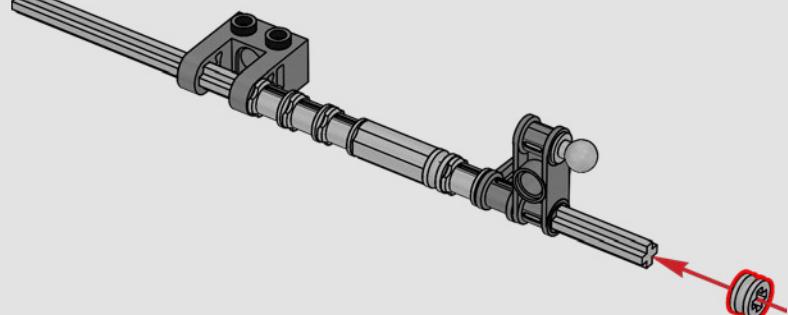
5

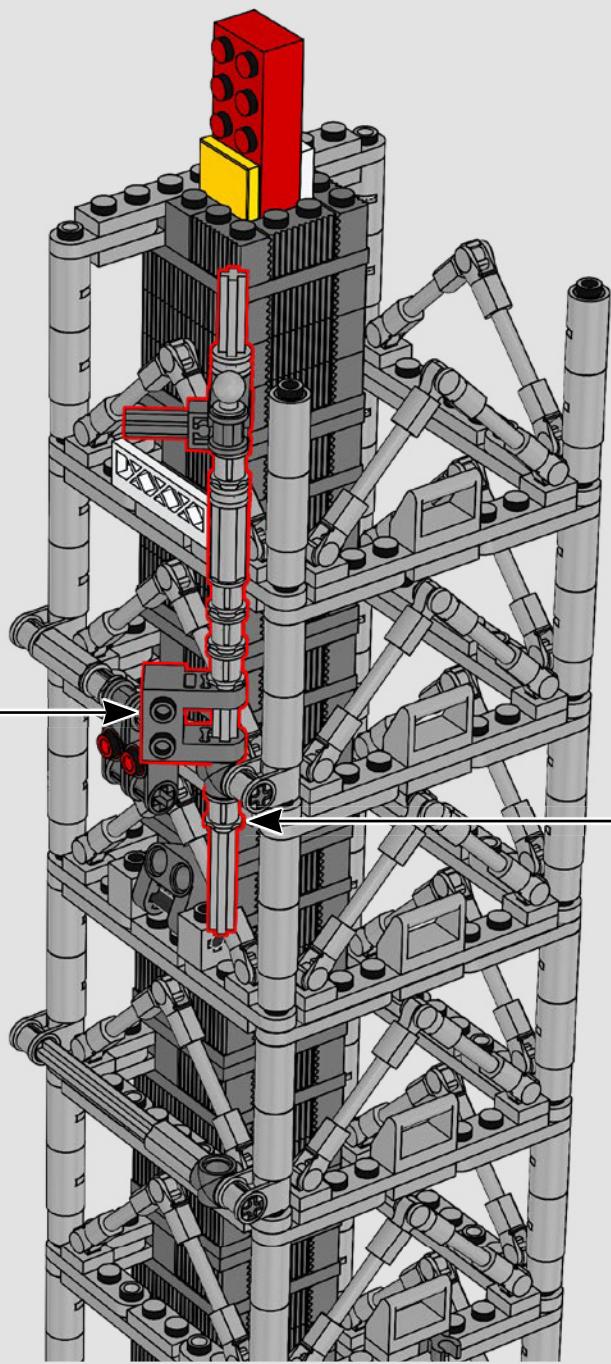


6

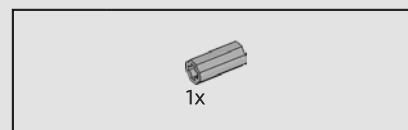


7

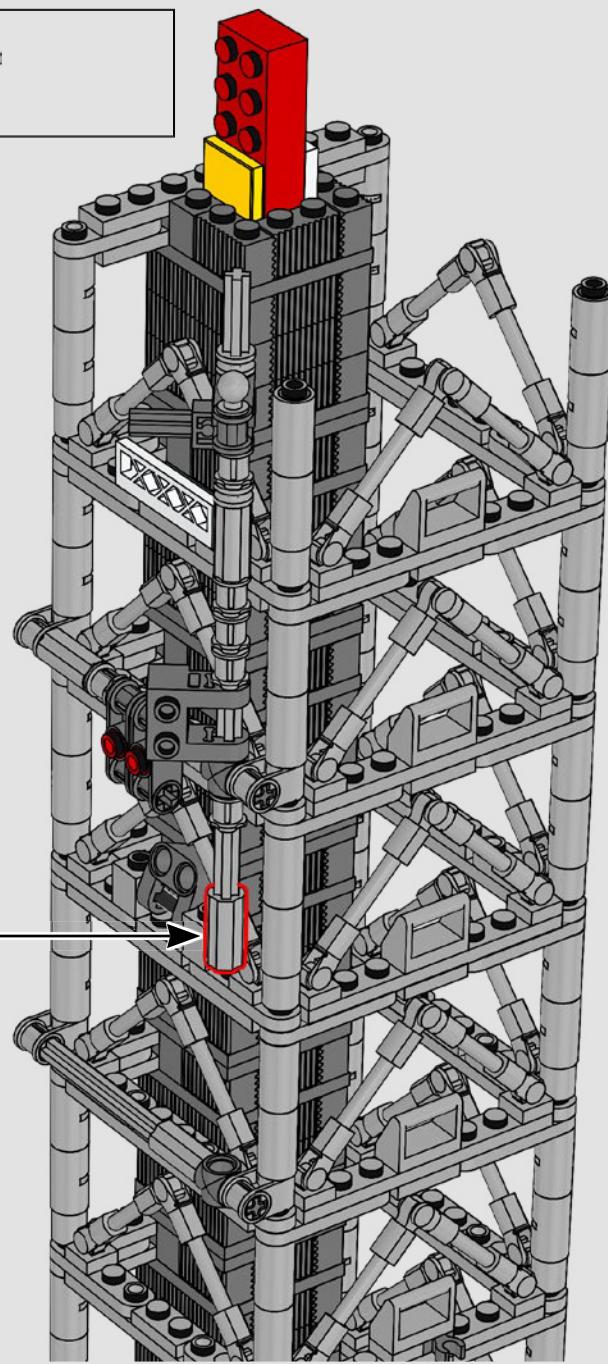


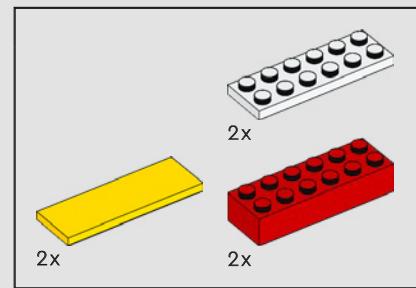


208

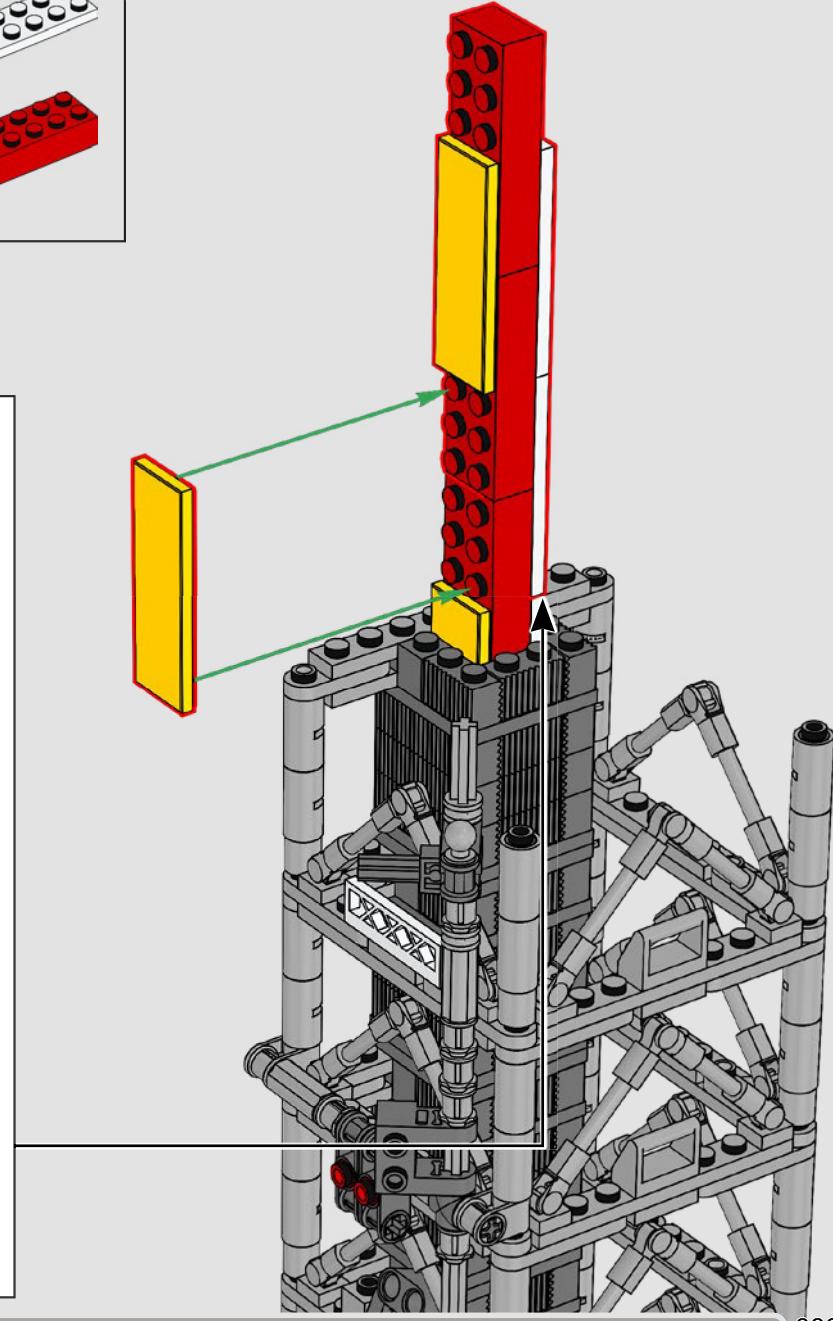
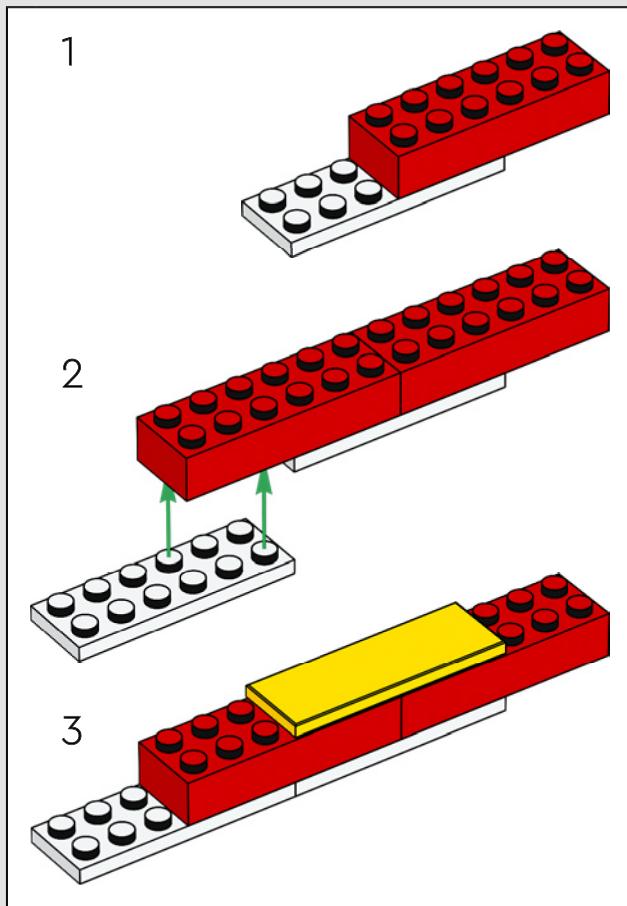


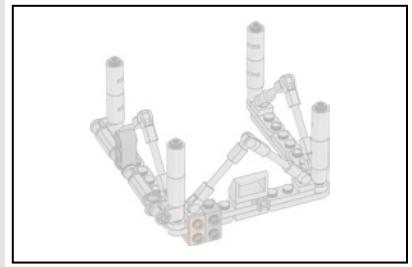
295



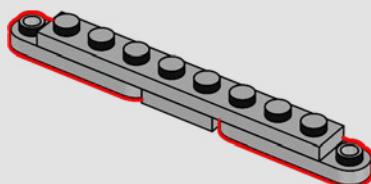


296

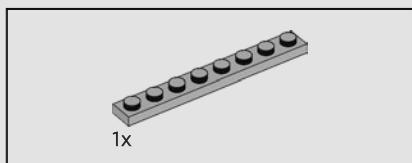




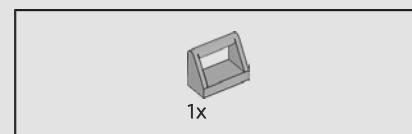
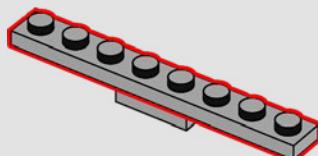
299



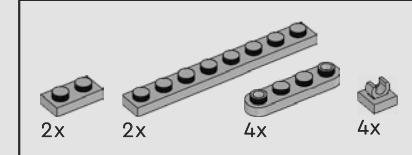
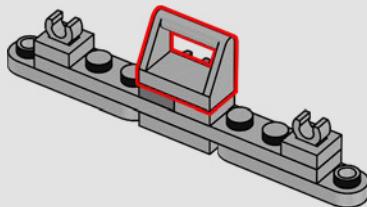
297



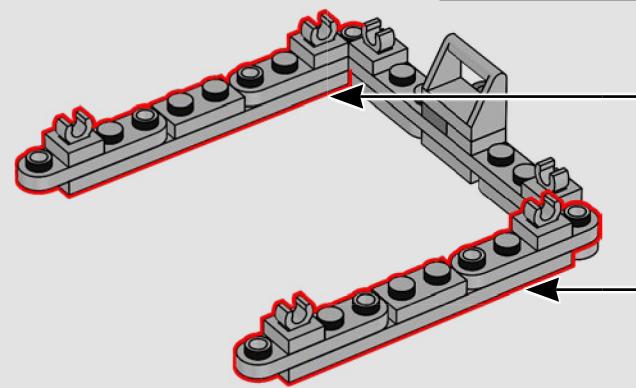
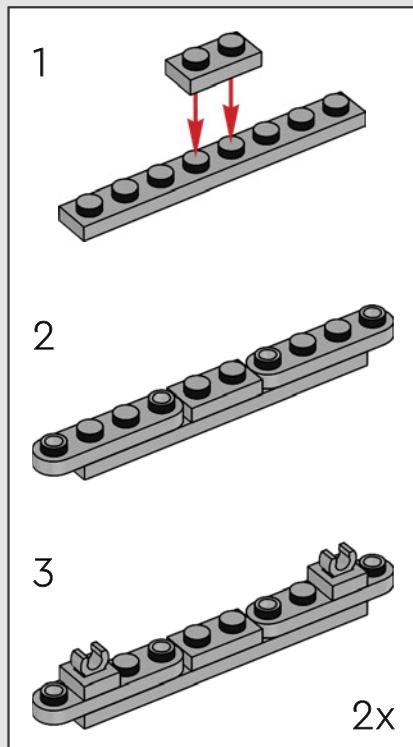
298



301



302





6x

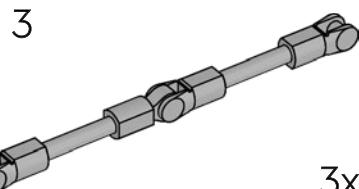
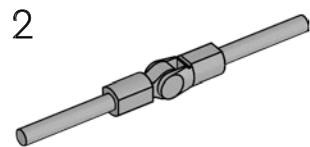
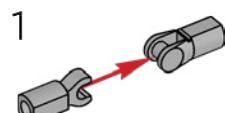


9x

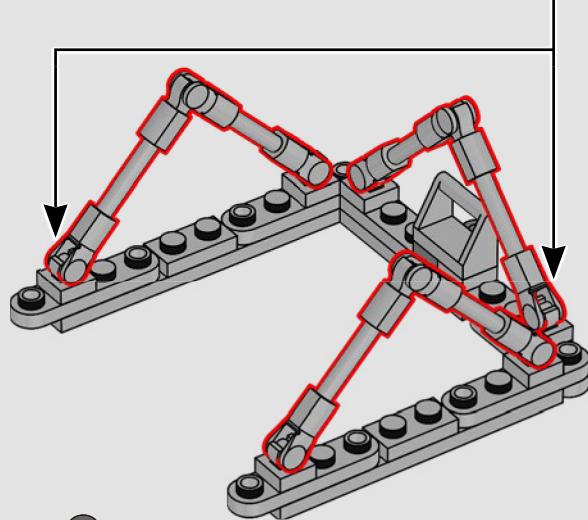


3x

303



3x



304

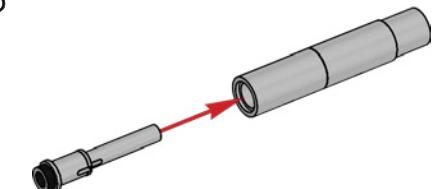
1



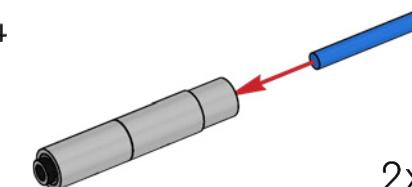
2



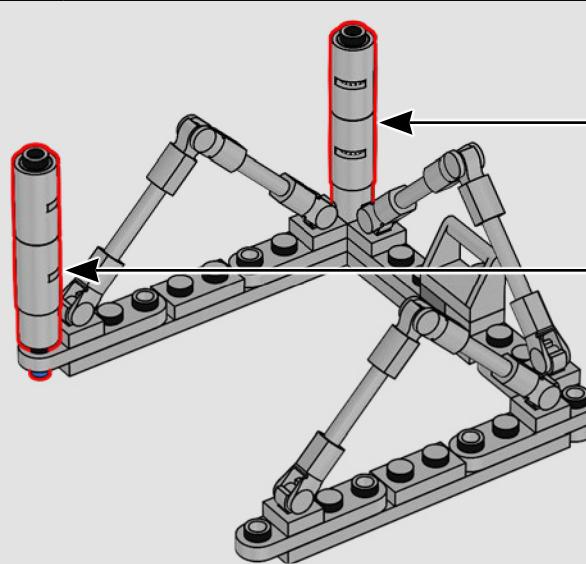
3



4

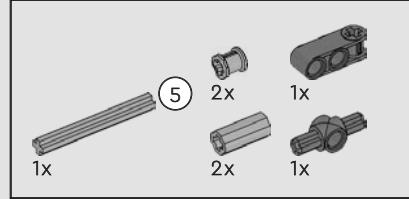
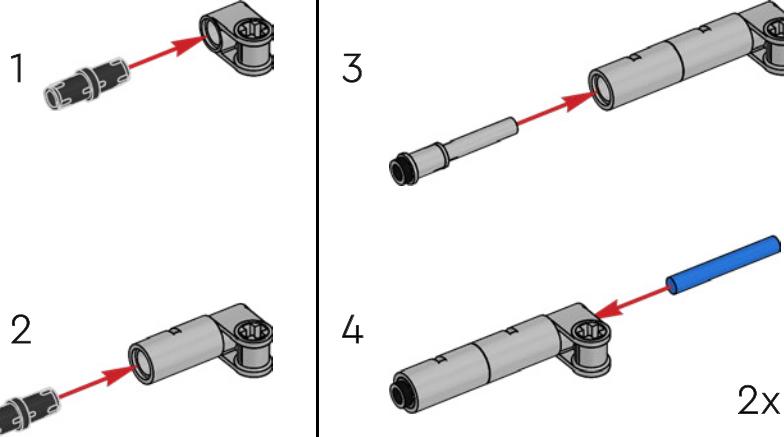


2x

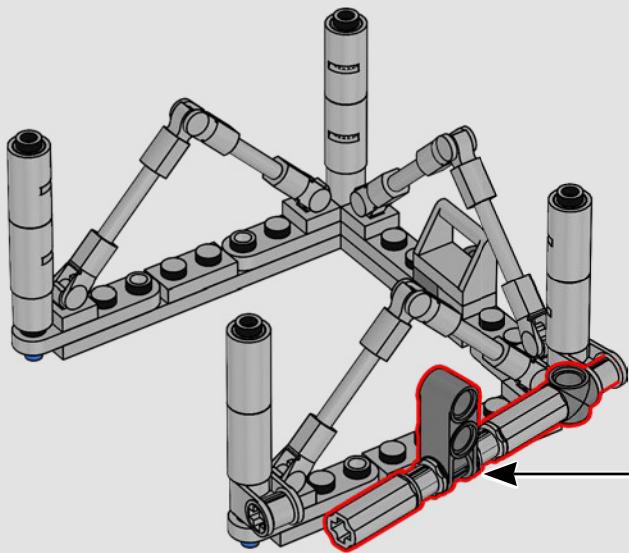
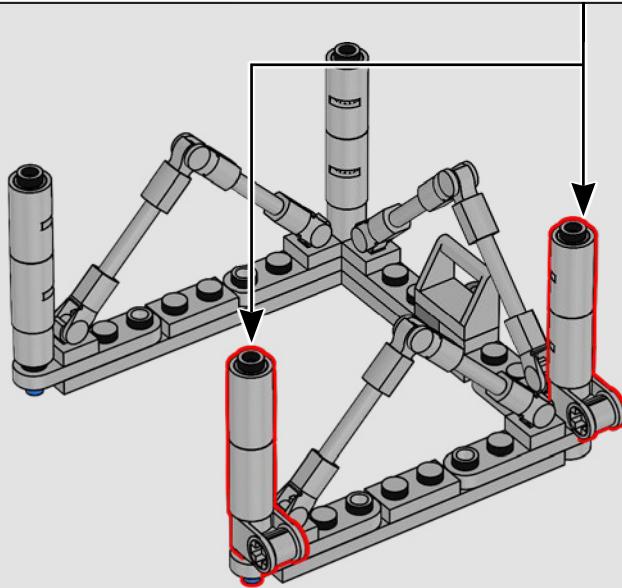
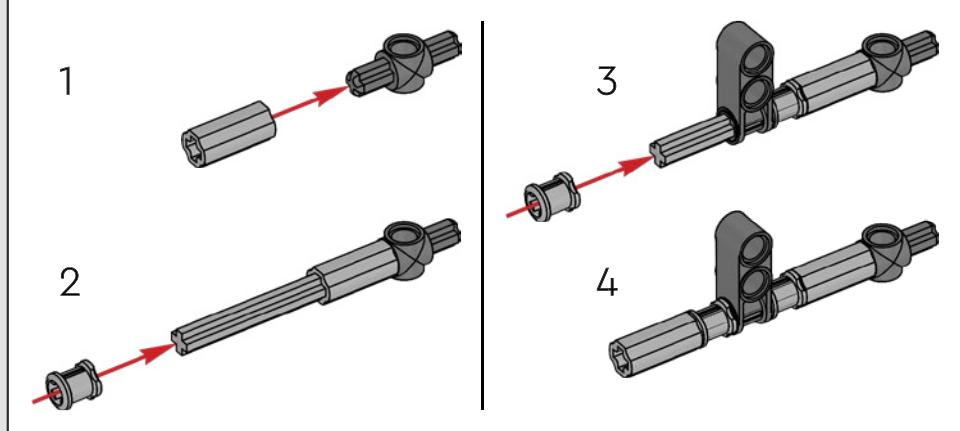




305



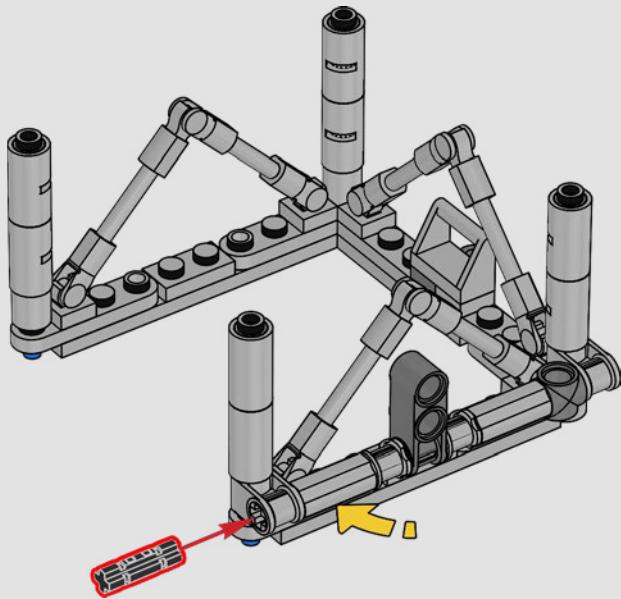
306





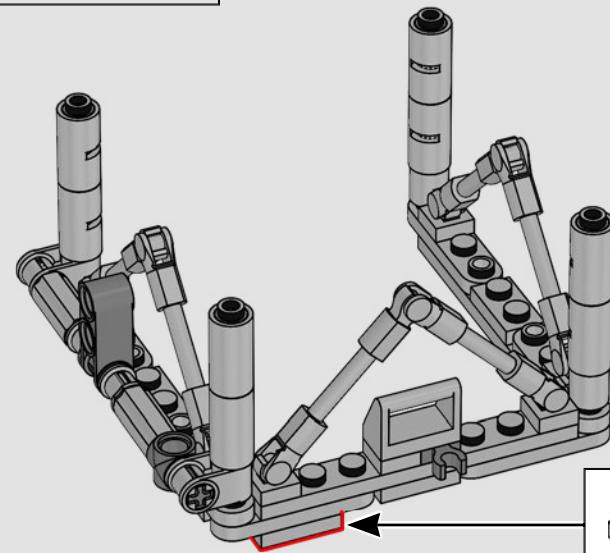
1x

307



1x

308

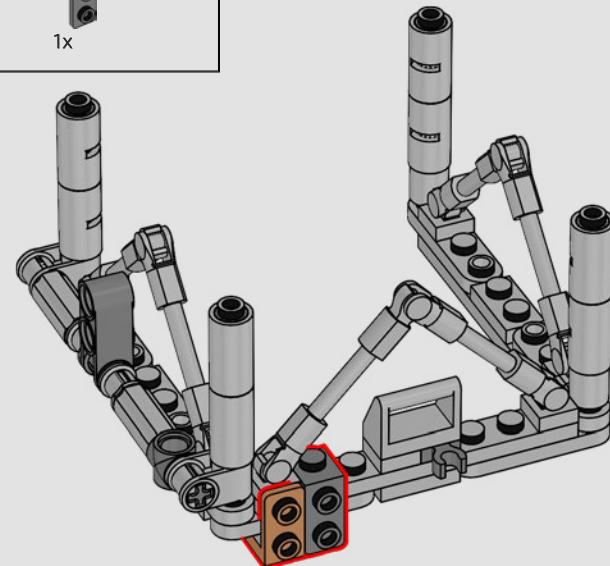


1x

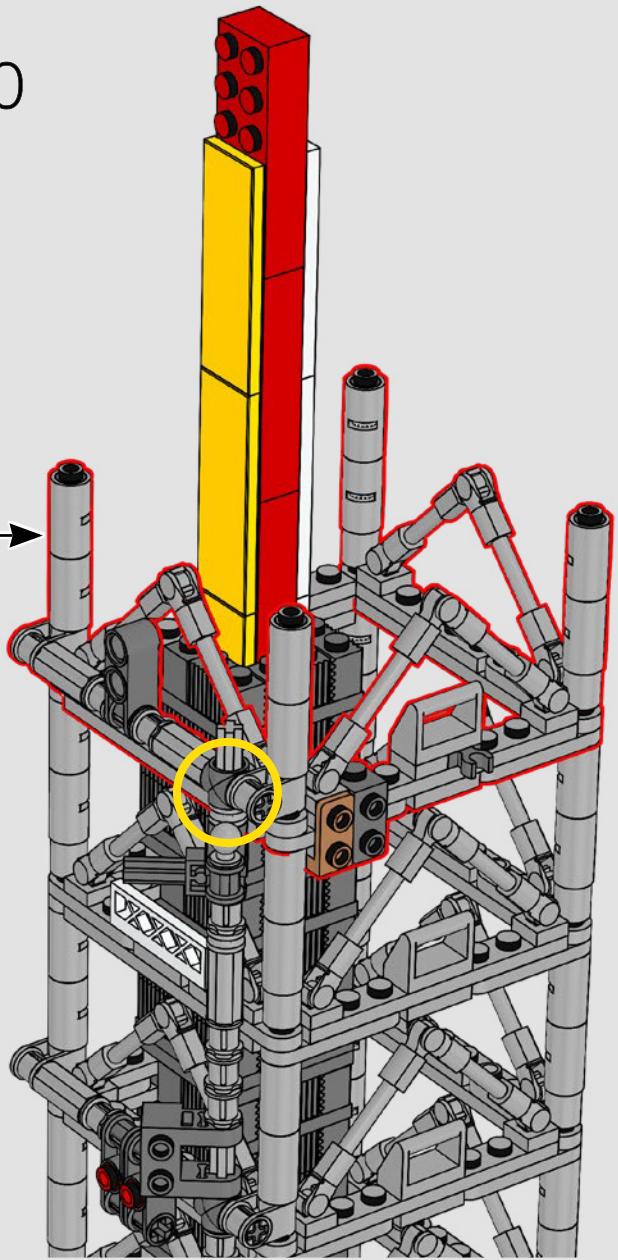


1x

309

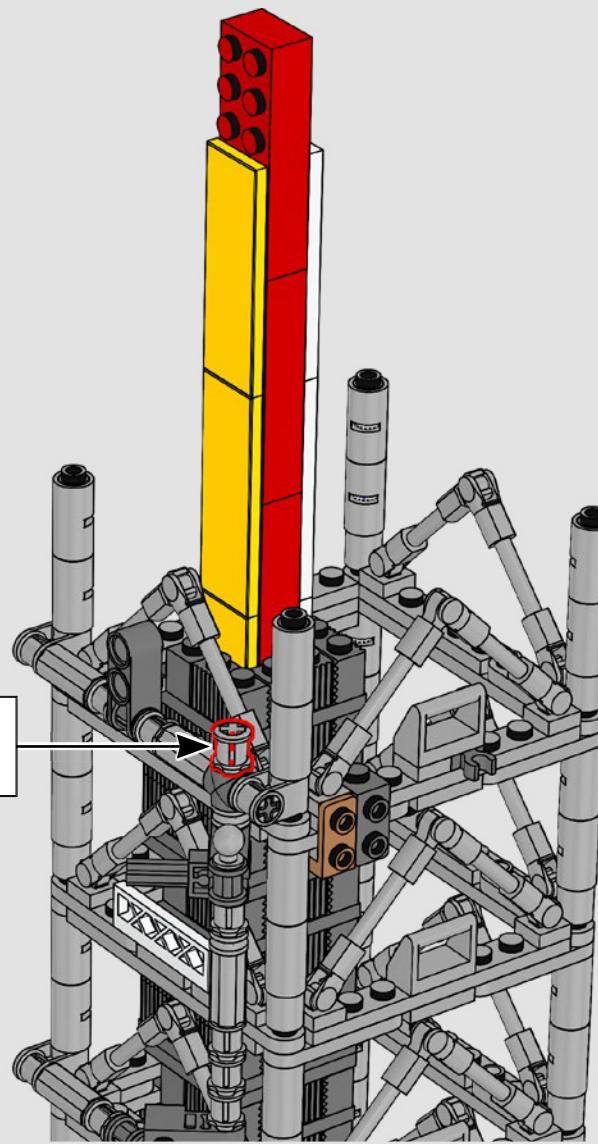


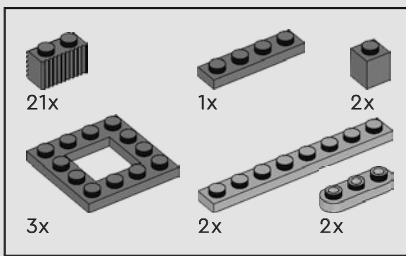
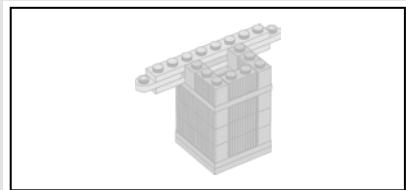
310



1x

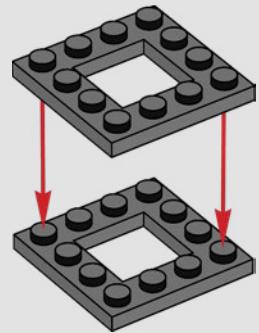
311



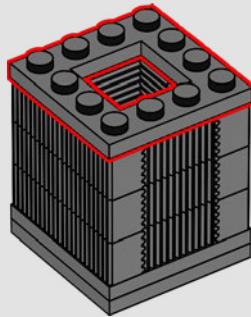


312

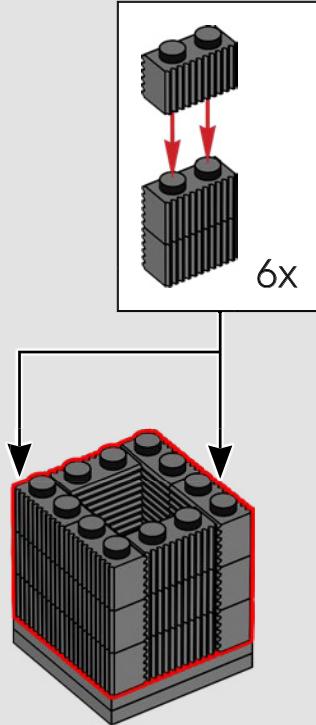
1



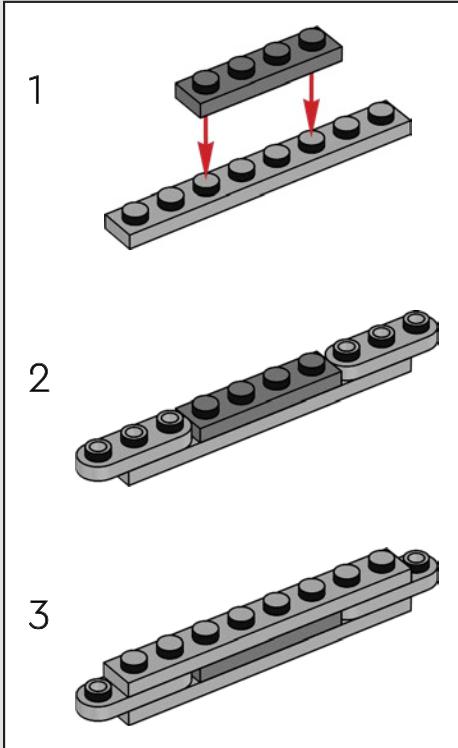
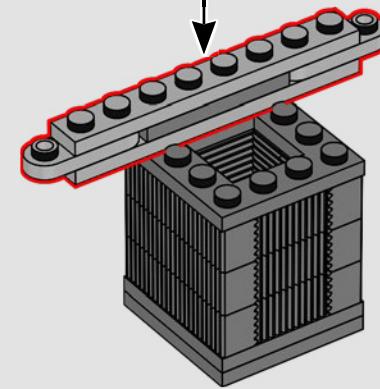
3



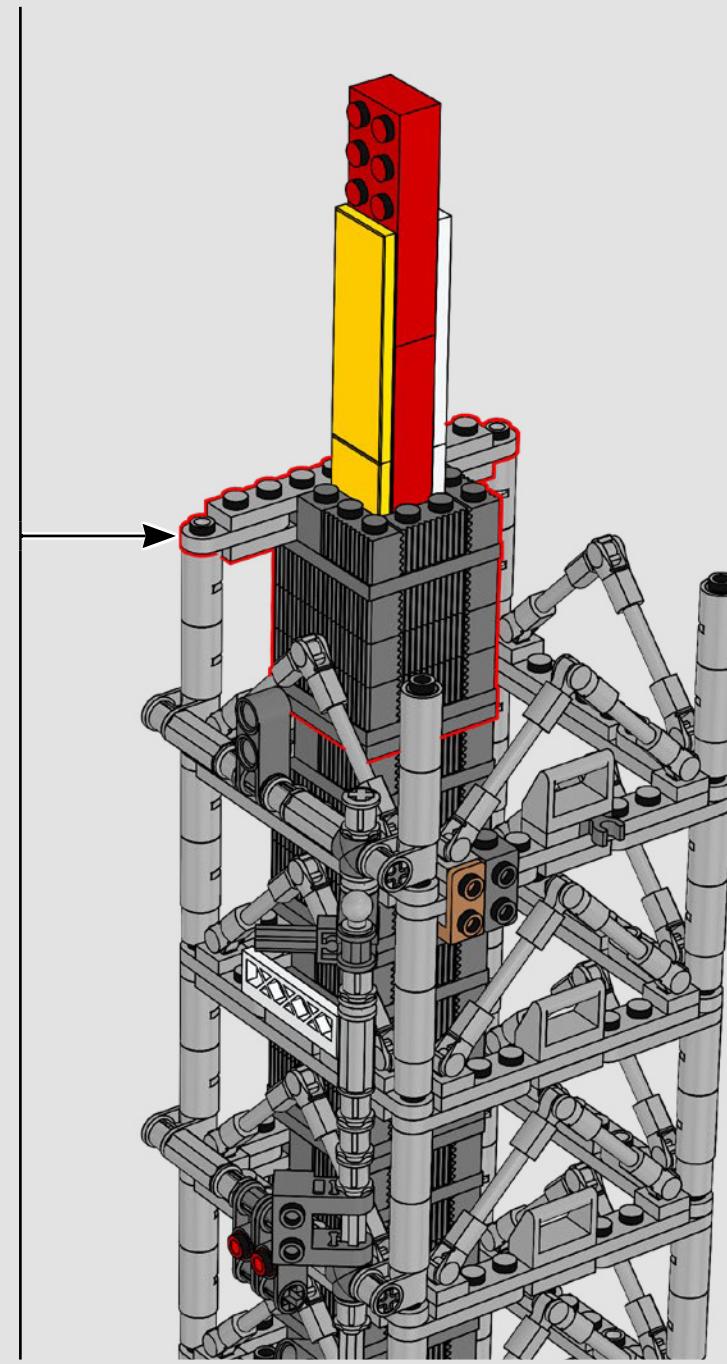
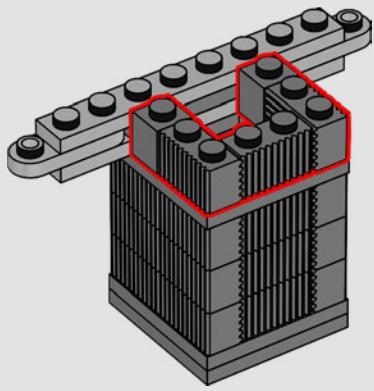
2

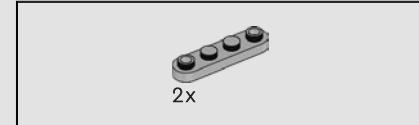
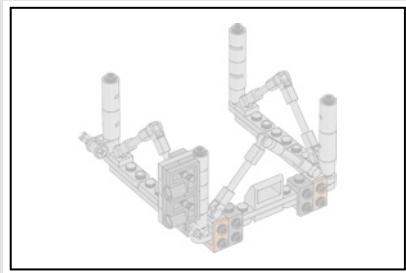


4



5

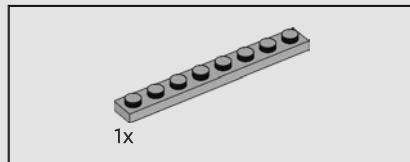




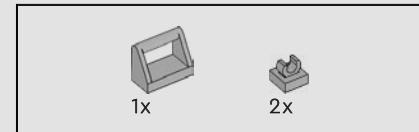
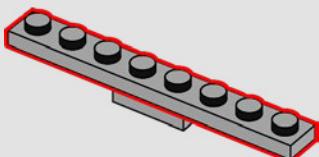
315



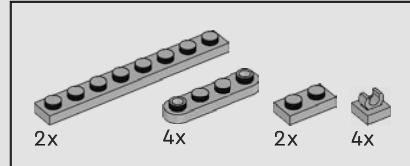
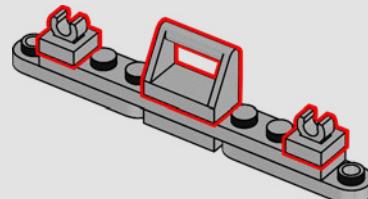
313



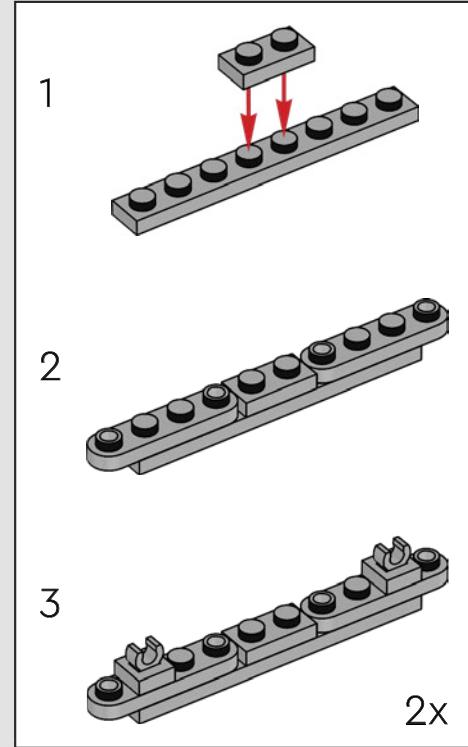
314



316

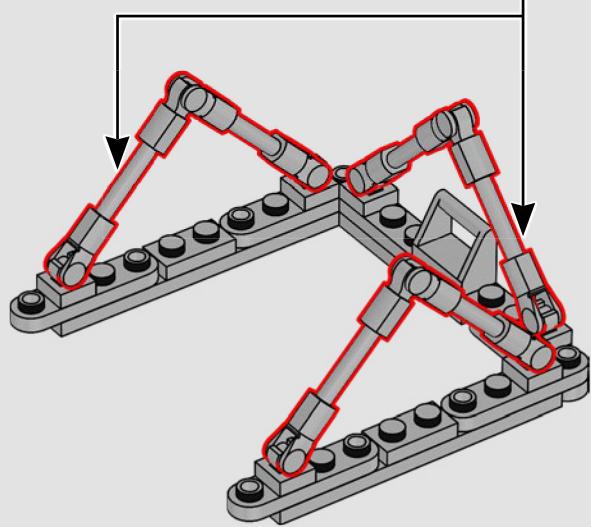
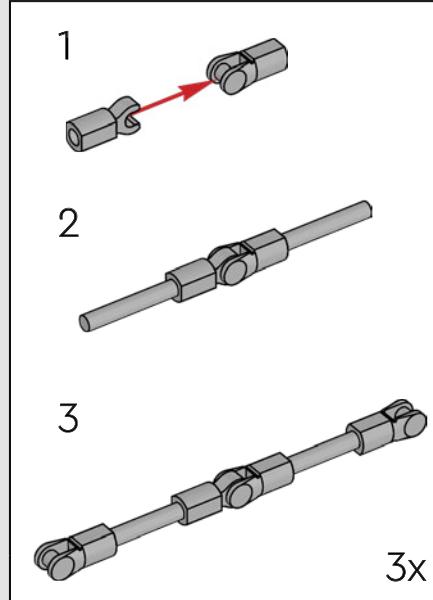


317

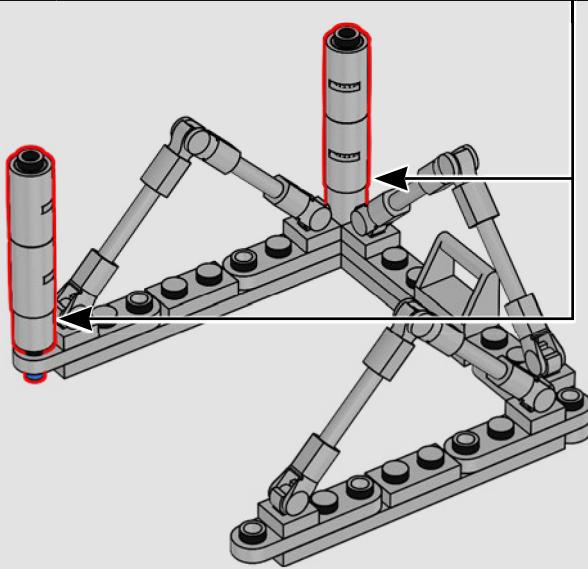
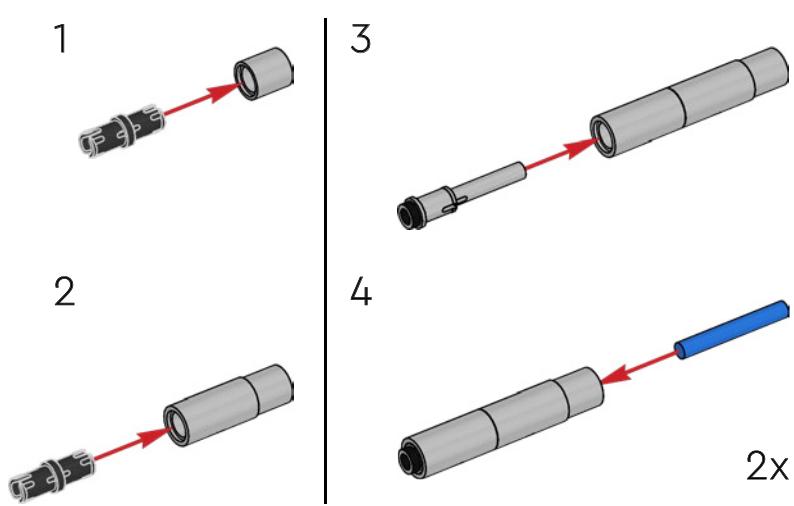


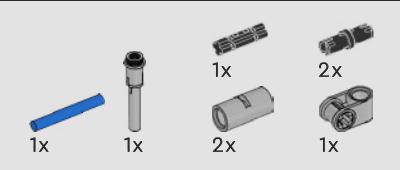


318

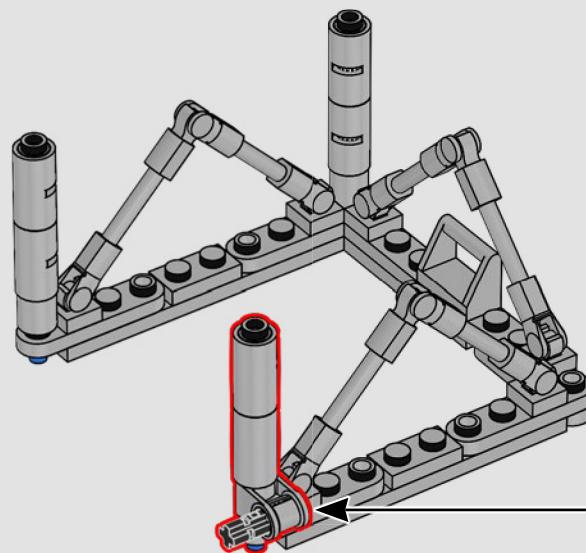
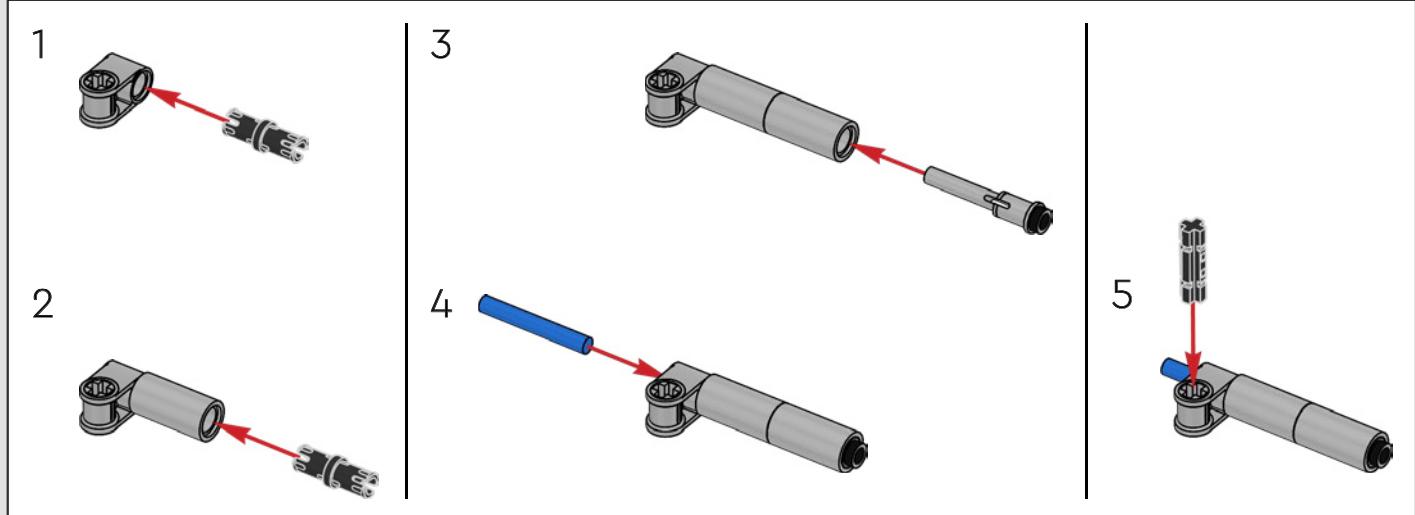


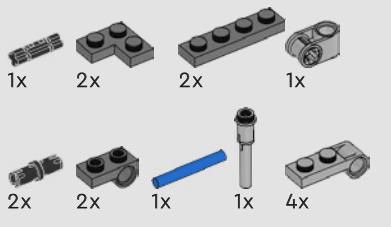
319



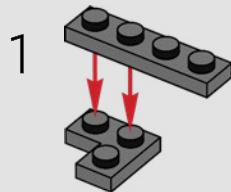


320

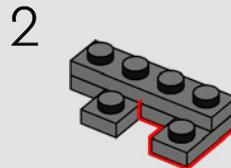
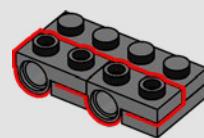




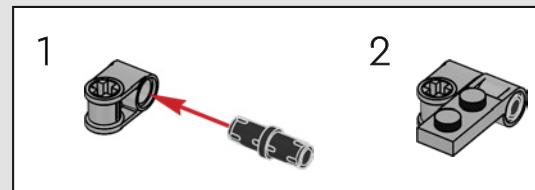
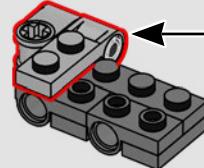
321



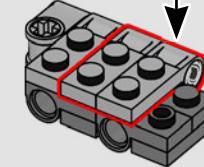
3



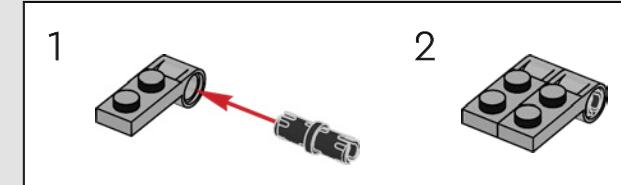
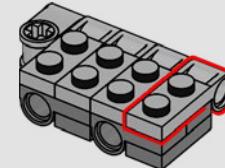
4



5

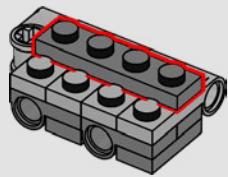


6

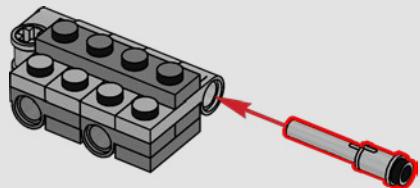


2

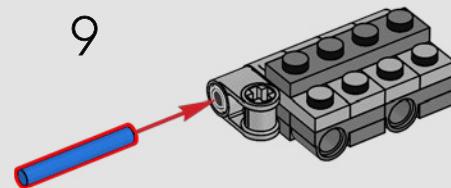
7



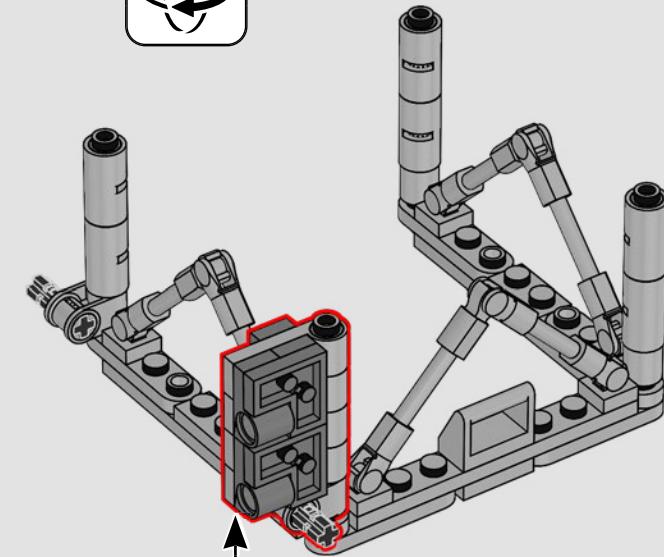
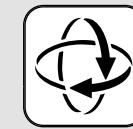
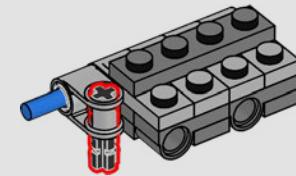
8



9



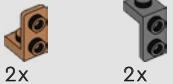
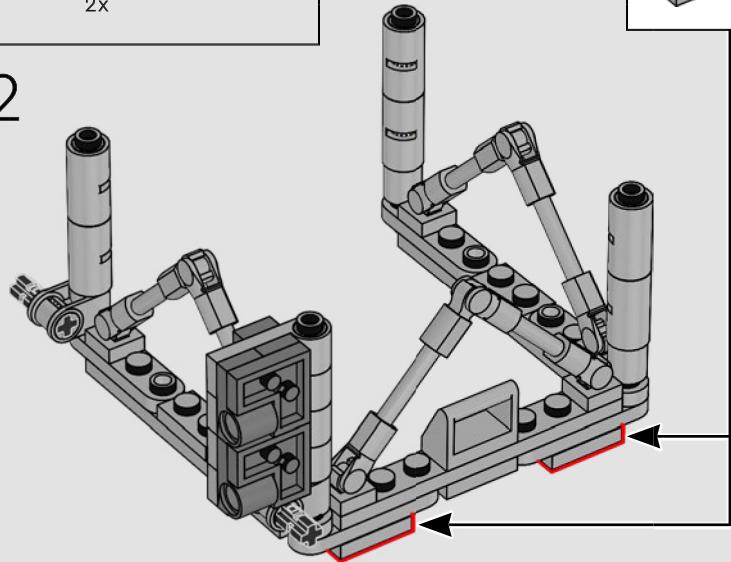
10





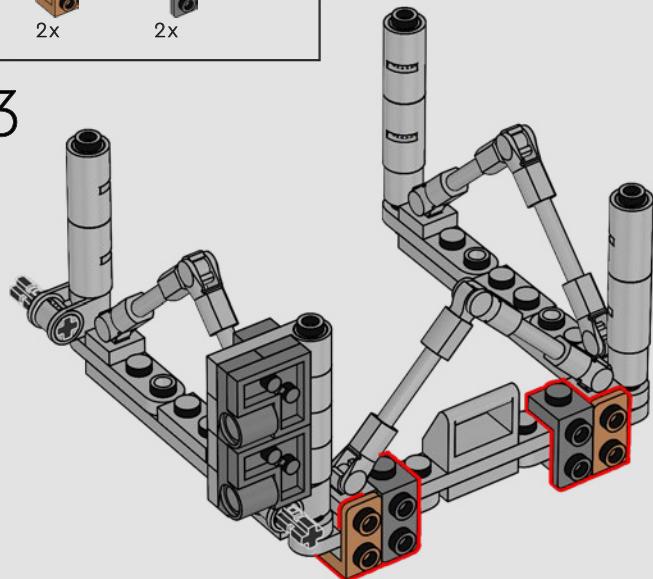
2x

322



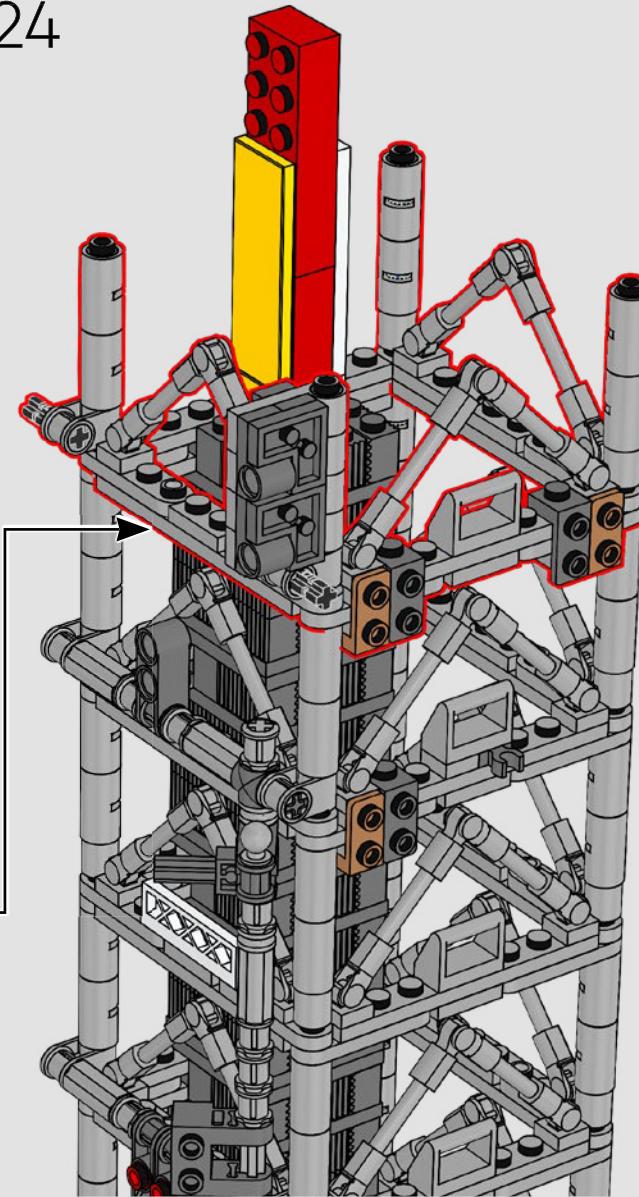
2x      2x

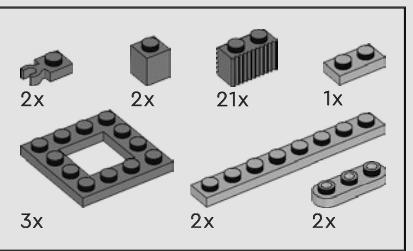
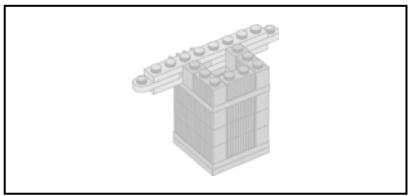
323



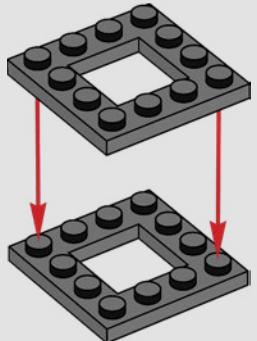
2x

324

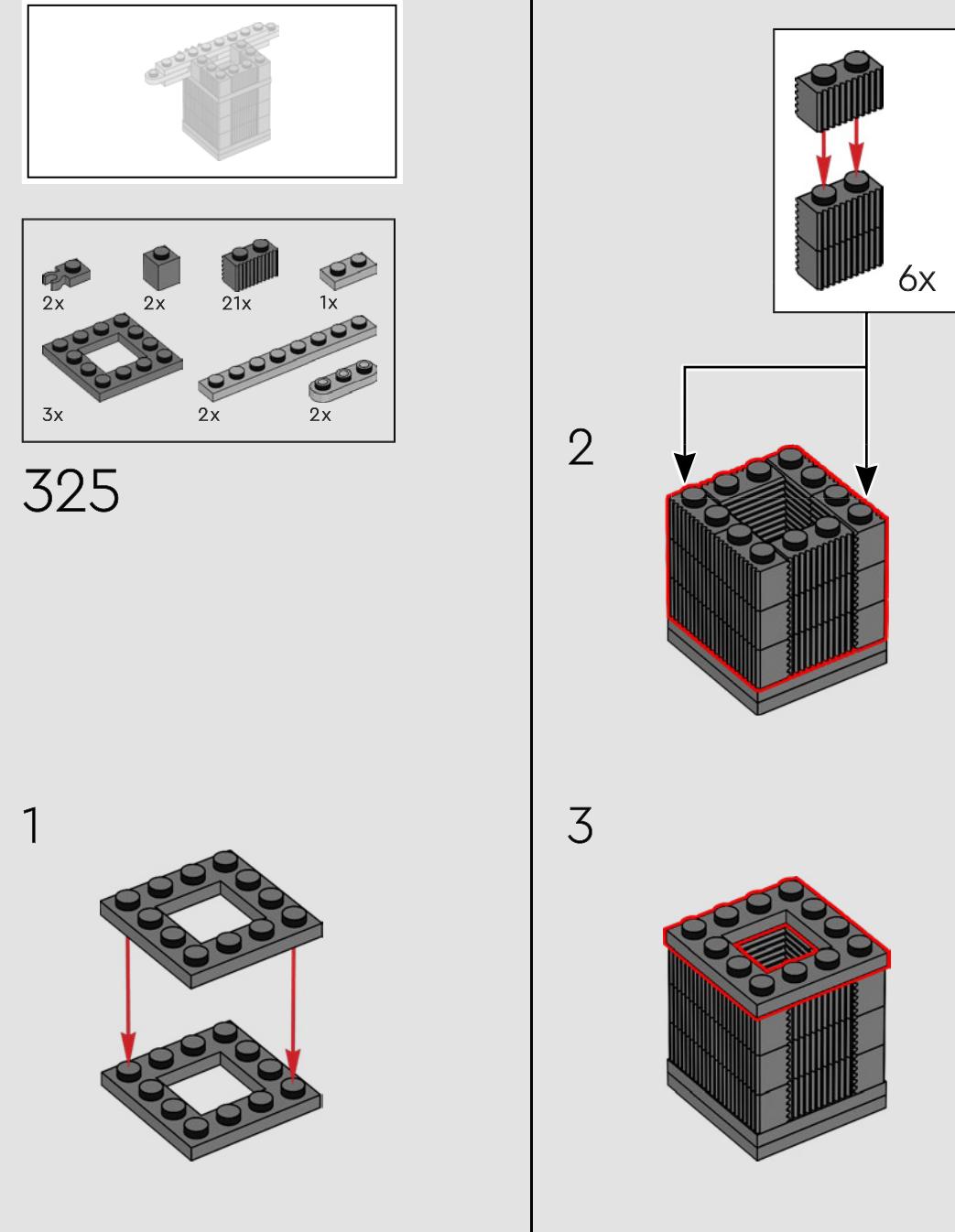




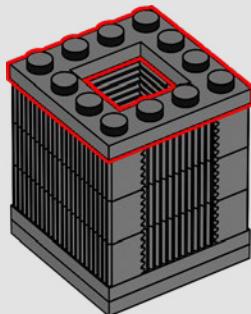
325



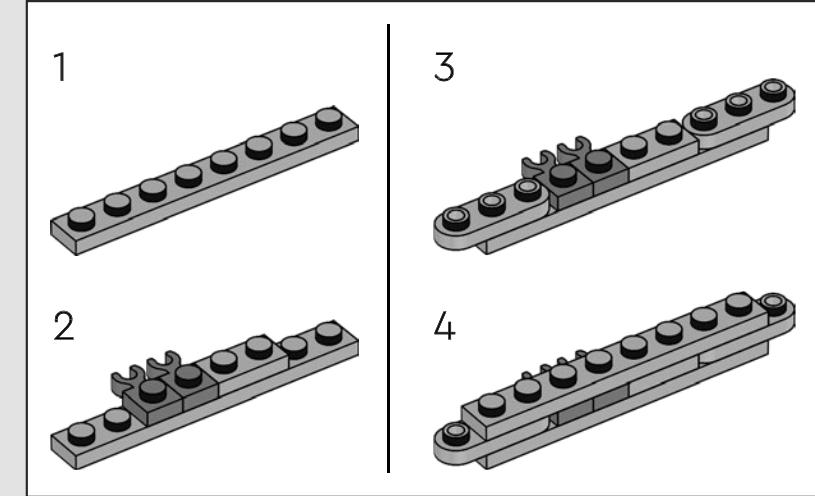
1



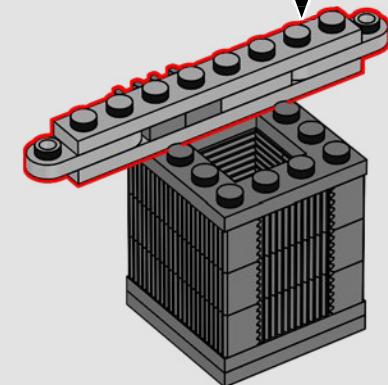
3



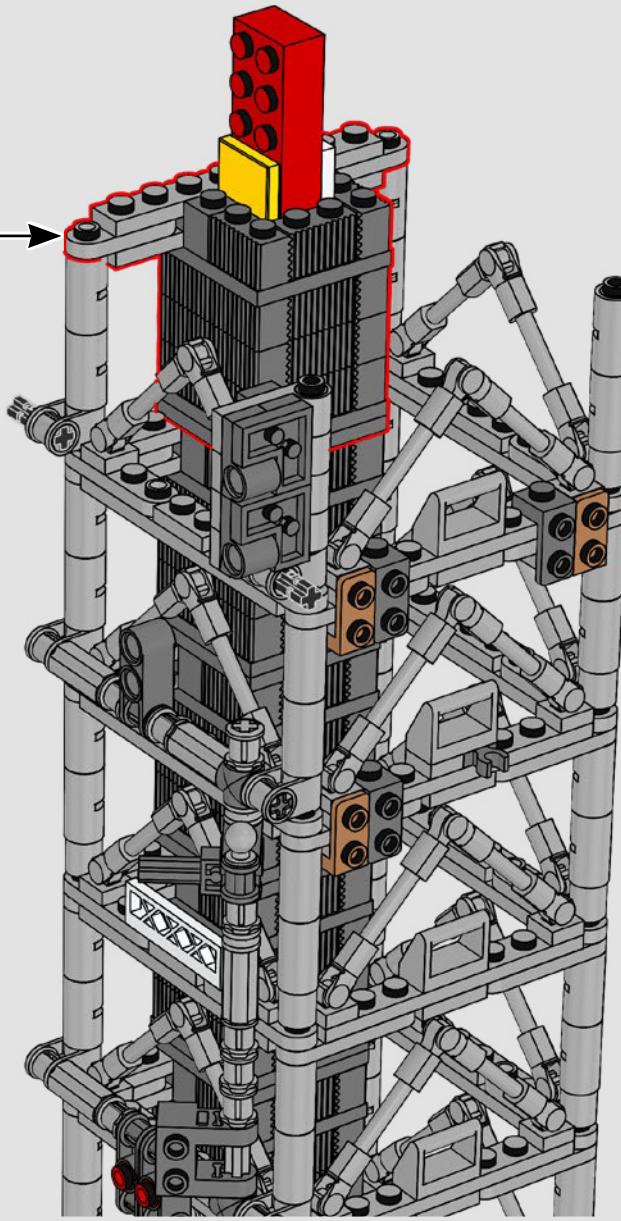
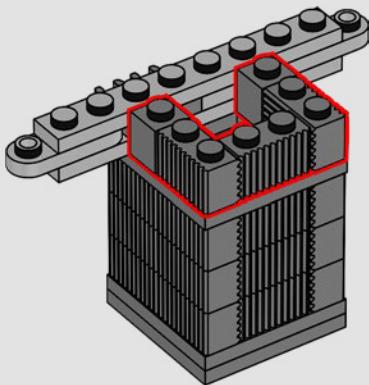
2

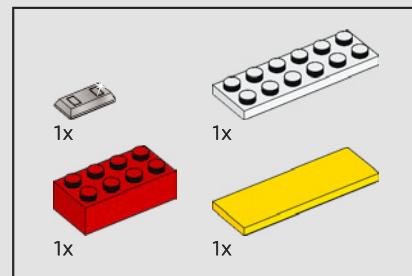


4

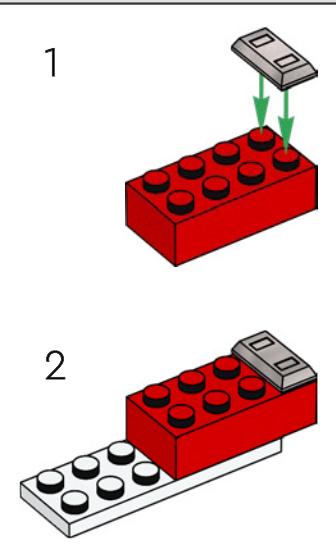
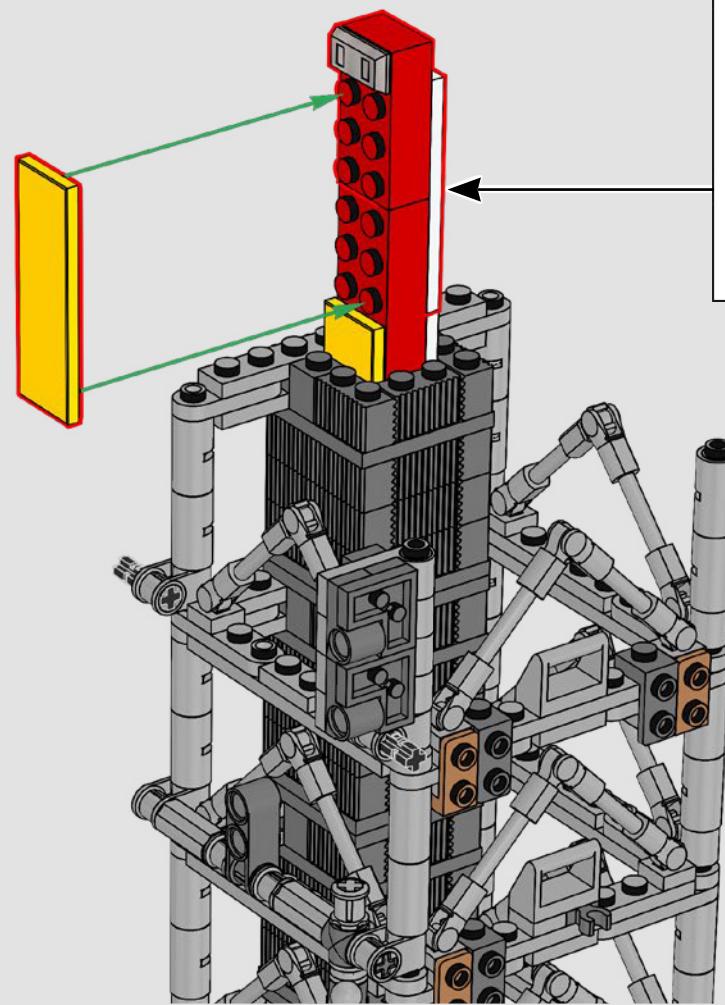


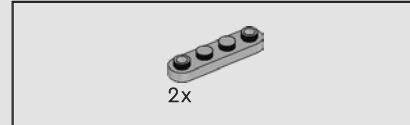
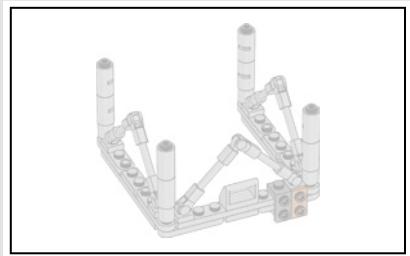
5



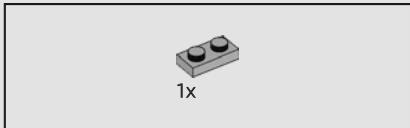


326

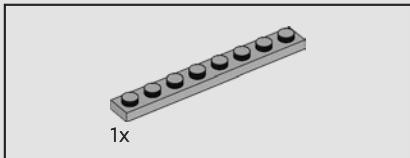




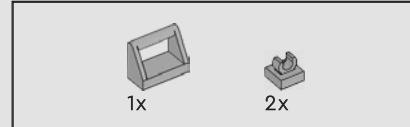
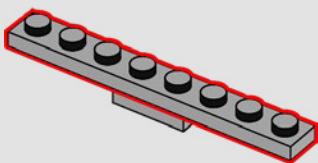
329



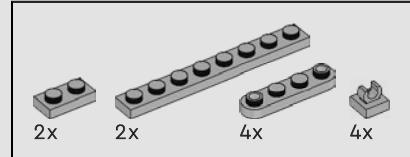
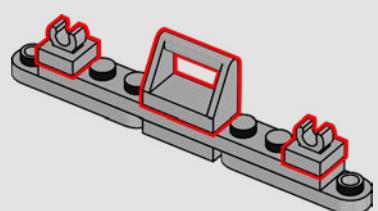
327



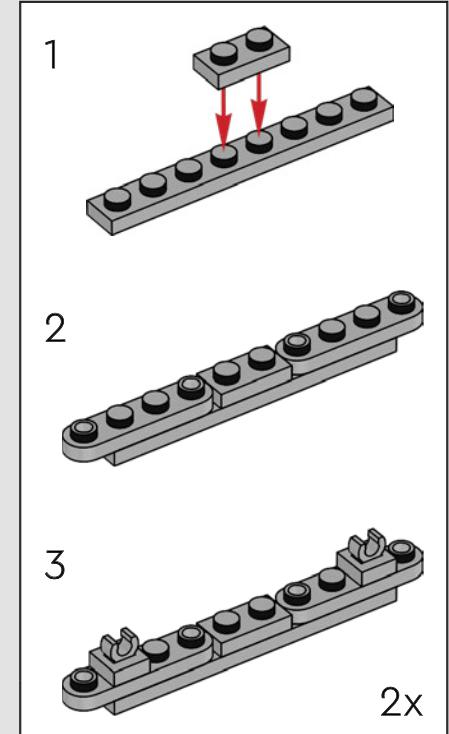
328



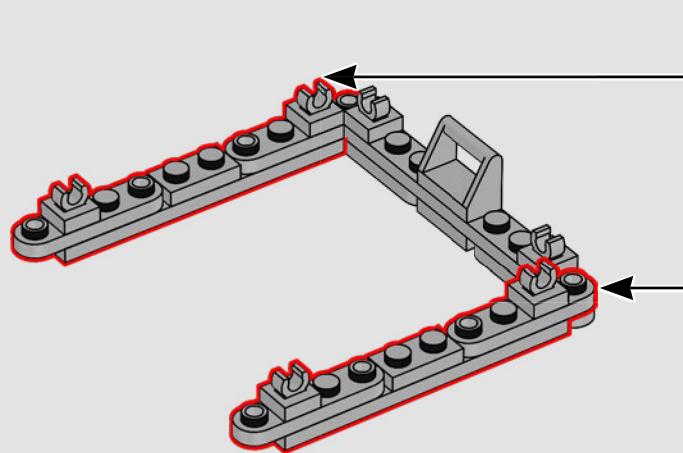
330



331

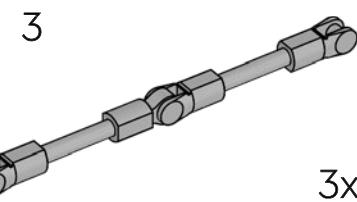
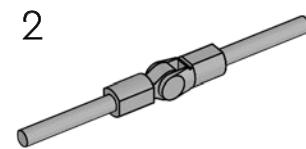
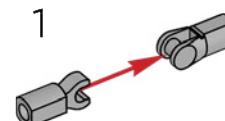


2x

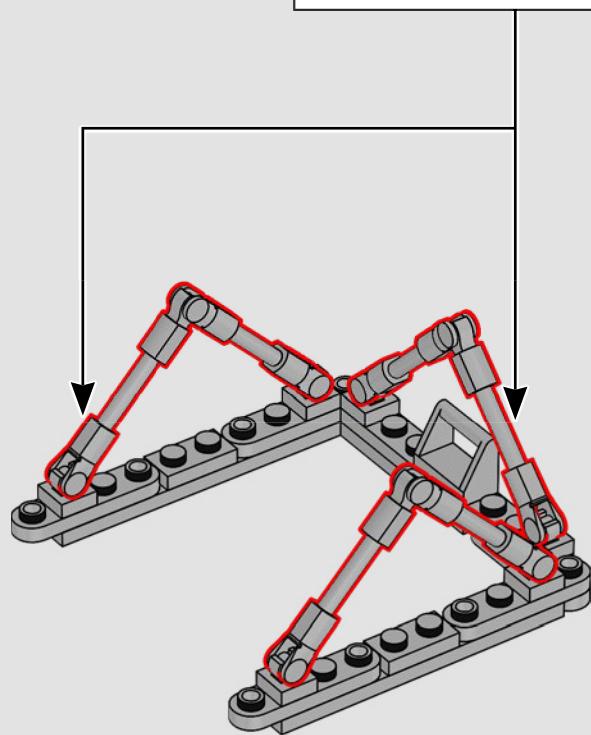




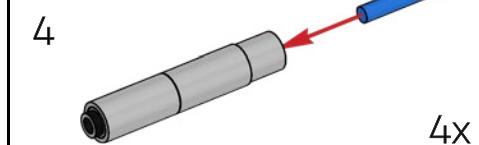
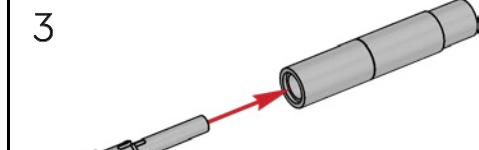
332



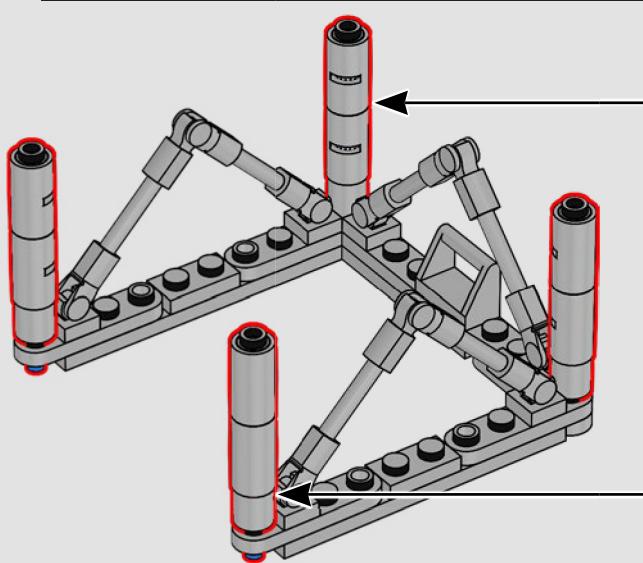
3x



333

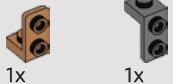
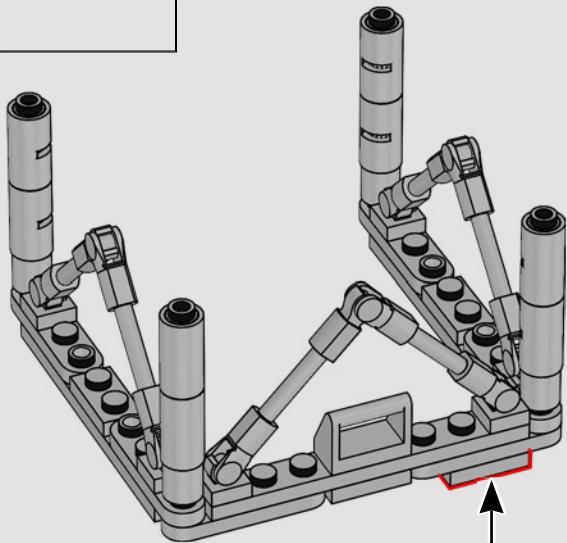
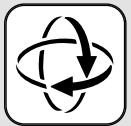


4x

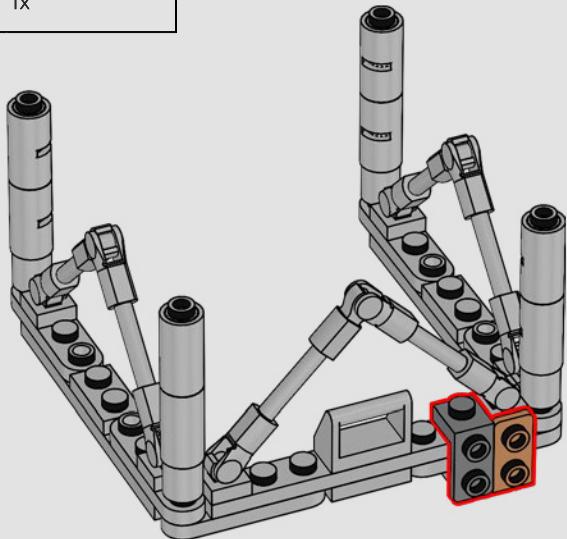




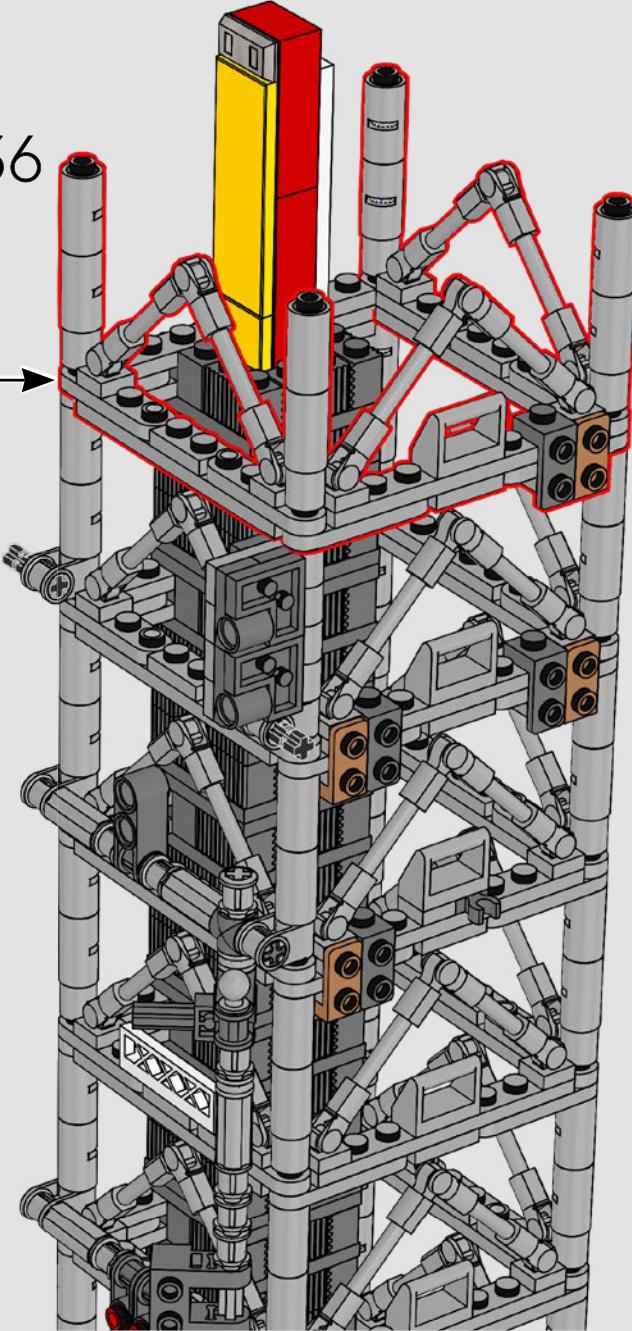
334

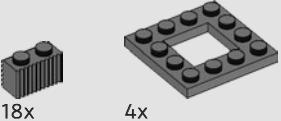


335



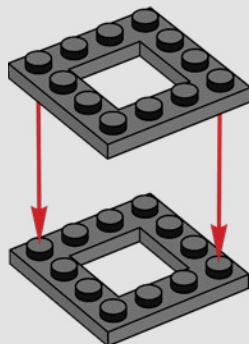
336



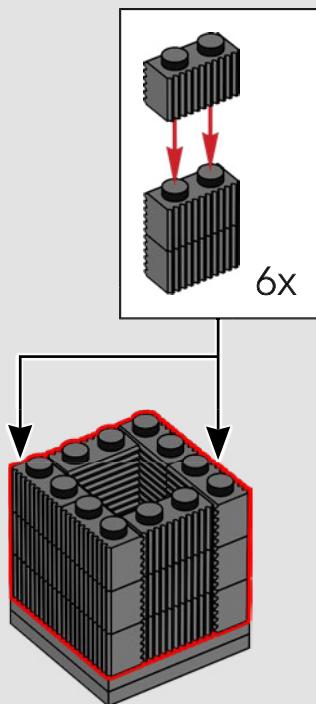


337

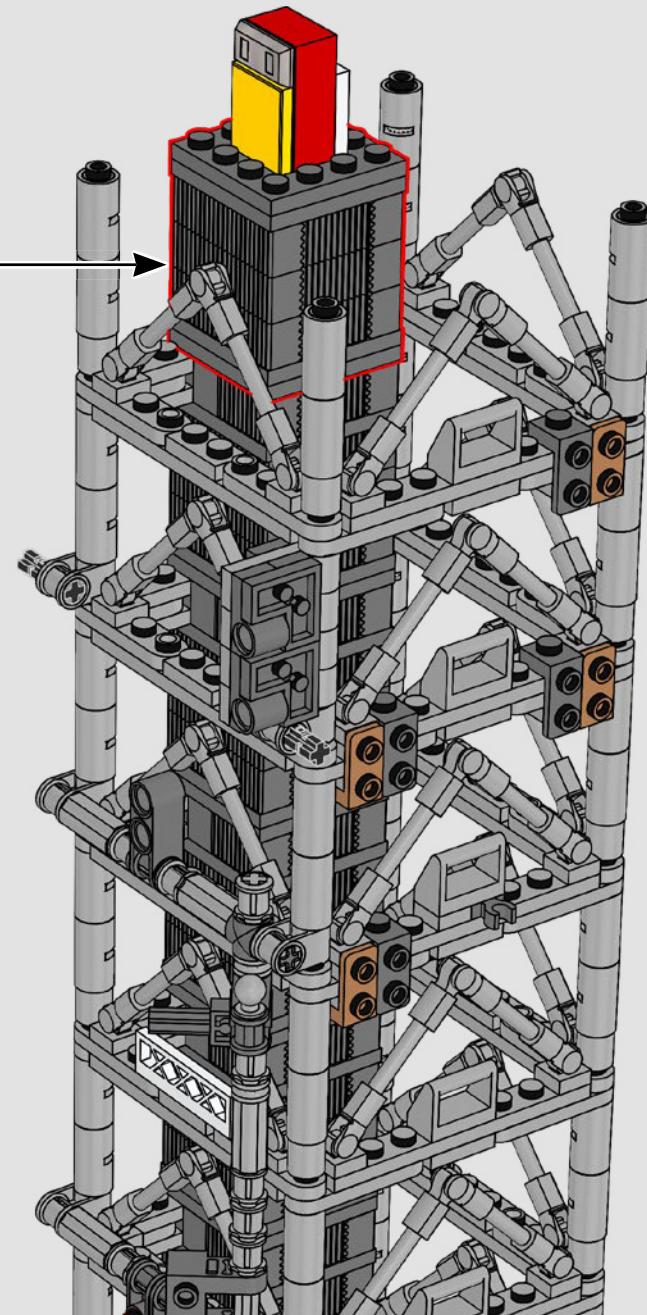
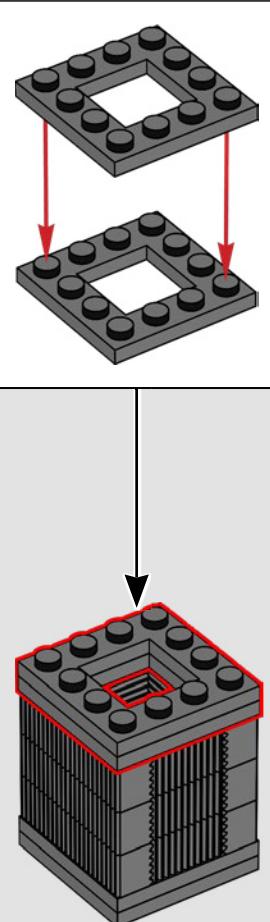
1

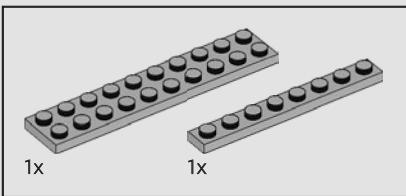
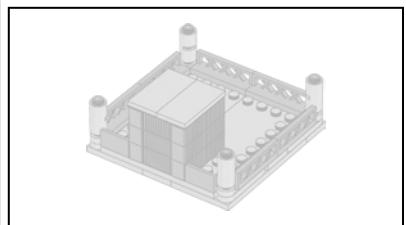


2

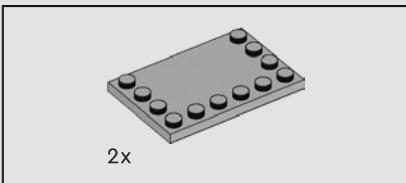
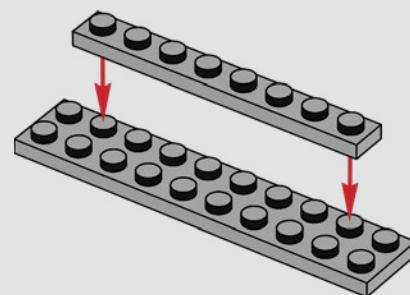


3

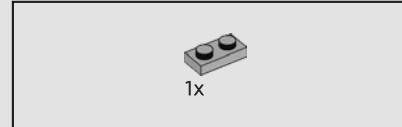
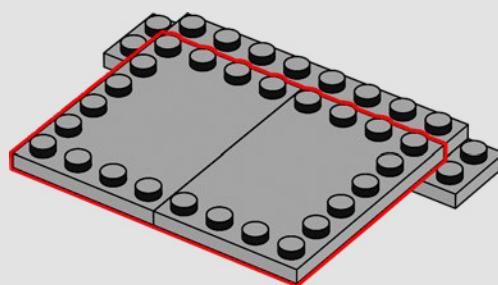




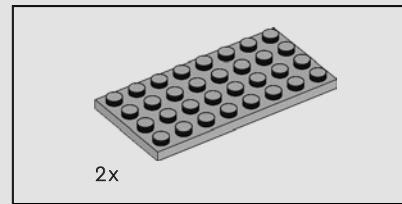
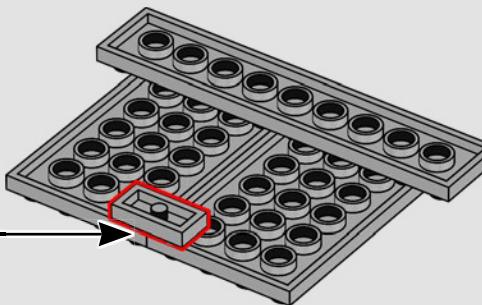
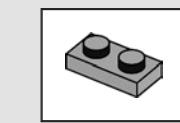
338



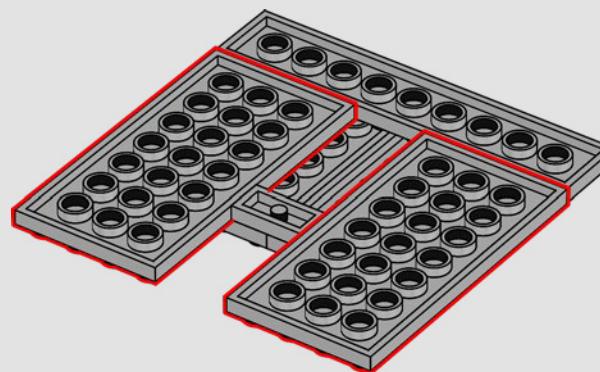
339



340

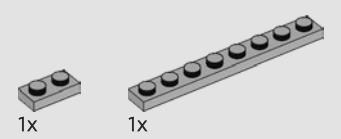
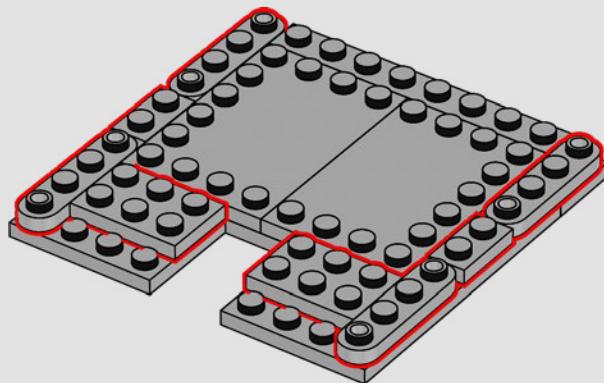
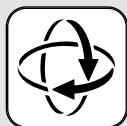


341

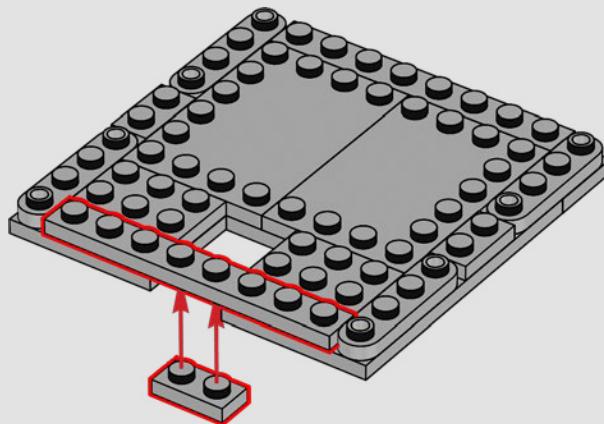




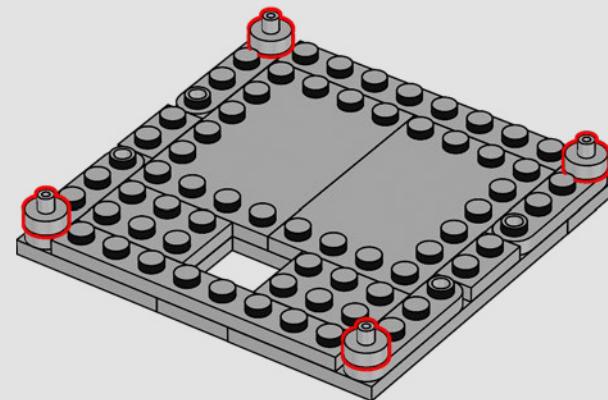
342



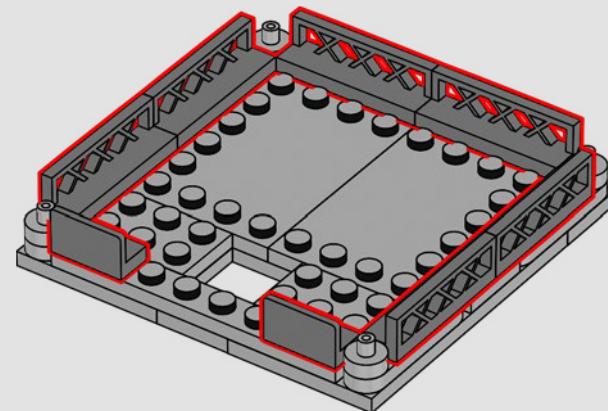
343



344



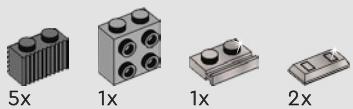
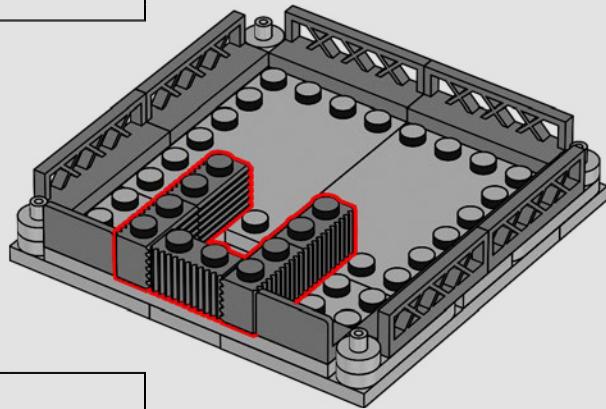
345





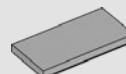
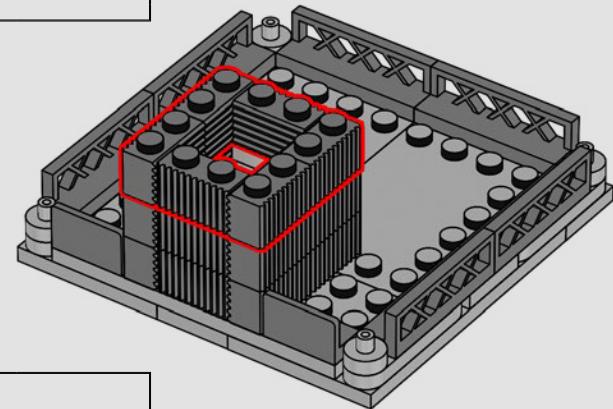
5x

346



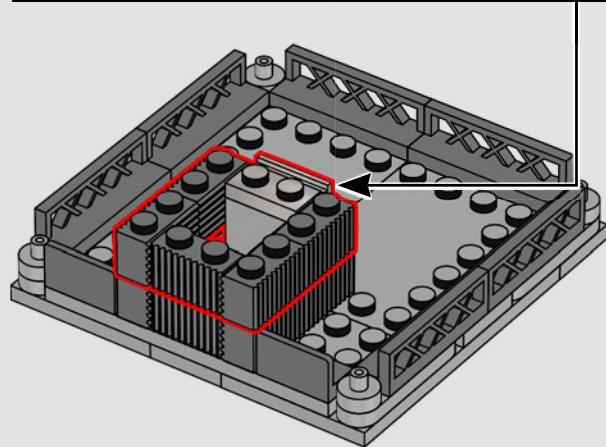
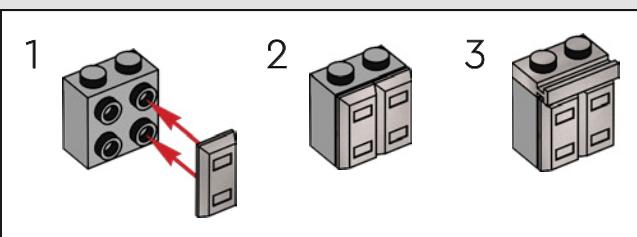
6x

348

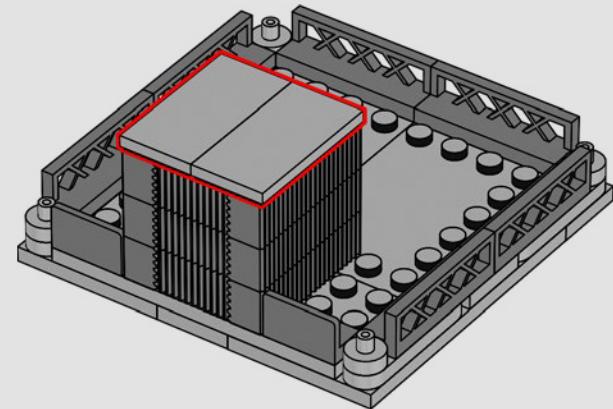


2x

347

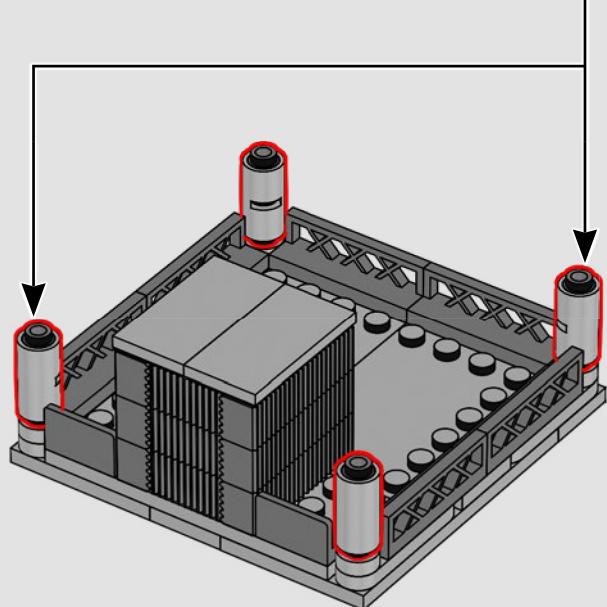
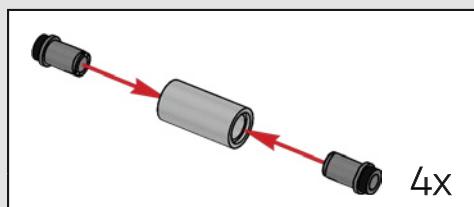


349

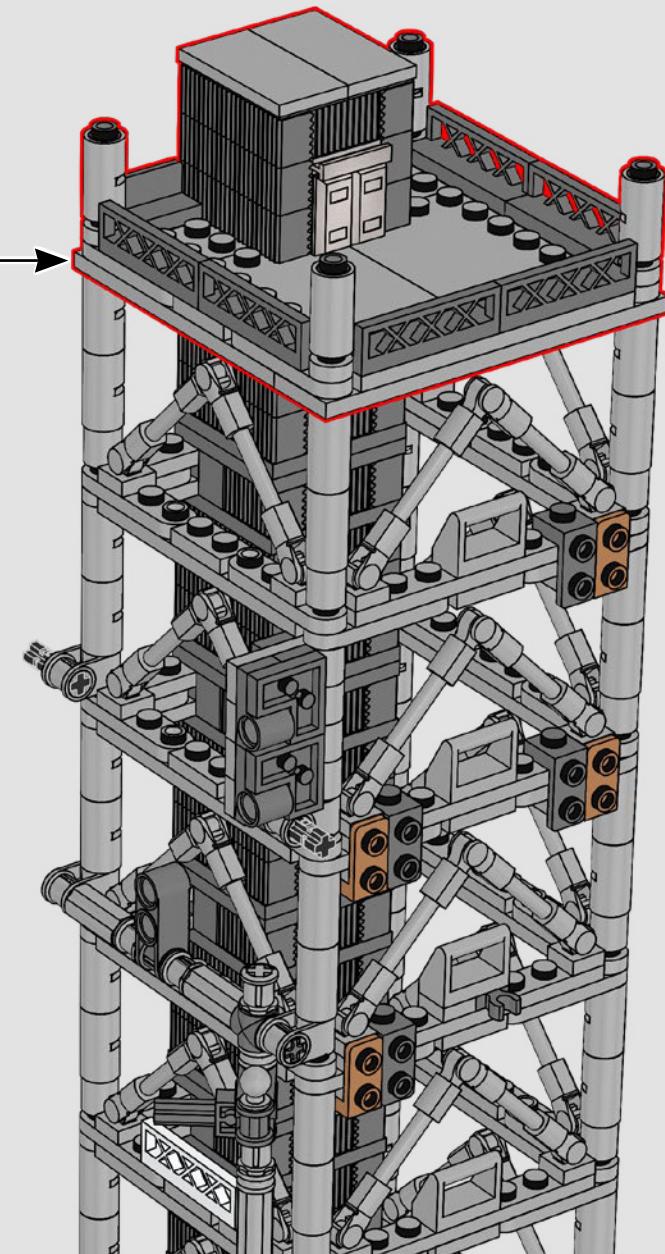


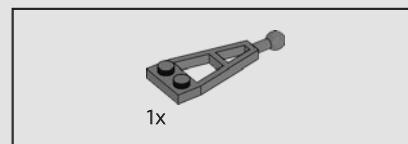


350

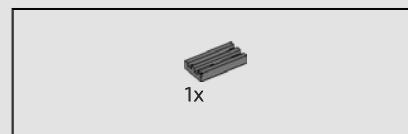
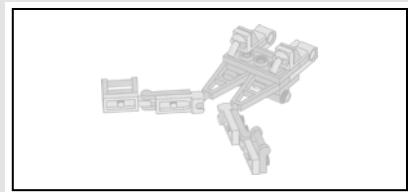
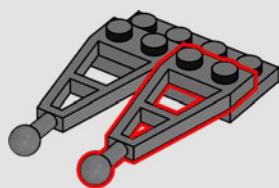


351

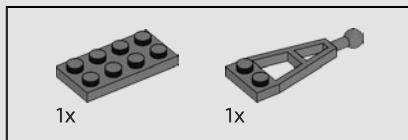




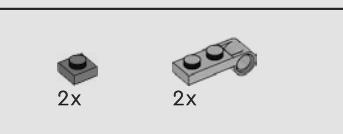
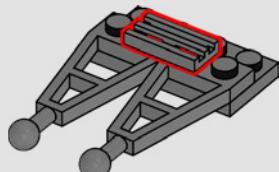
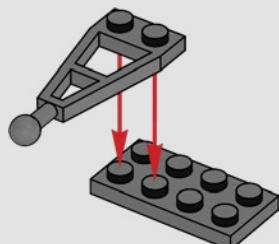
353



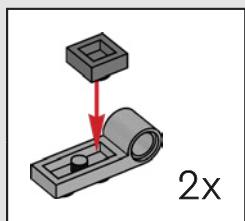
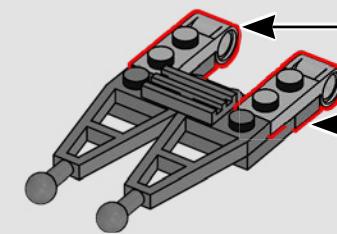
354



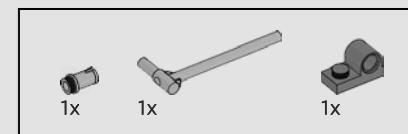
352



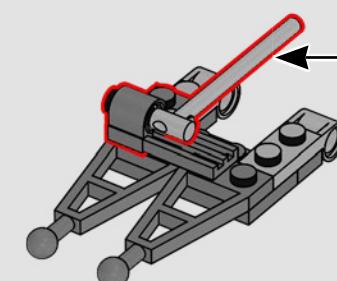
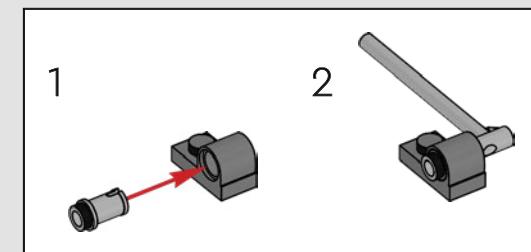
355



2x

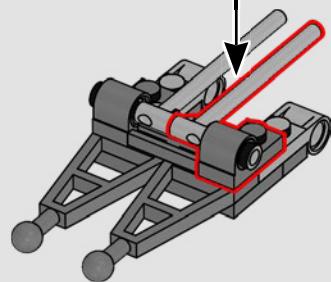
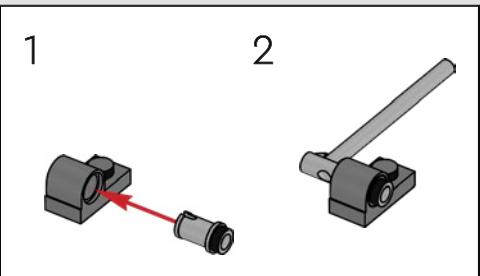


356



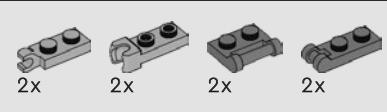
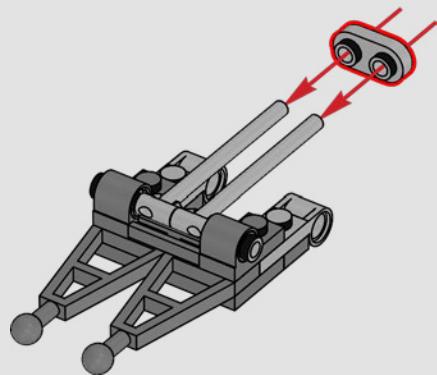


357

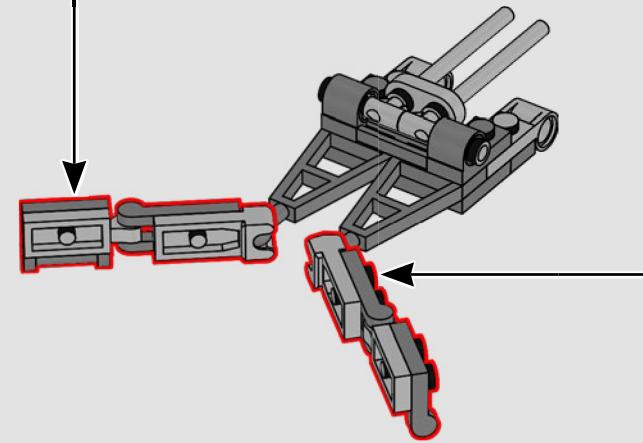
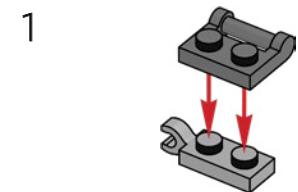
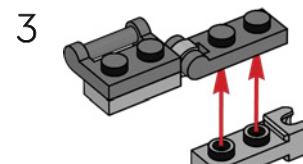
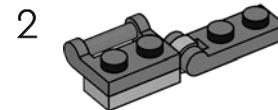
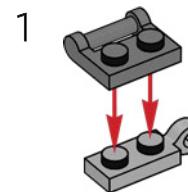


1x

358

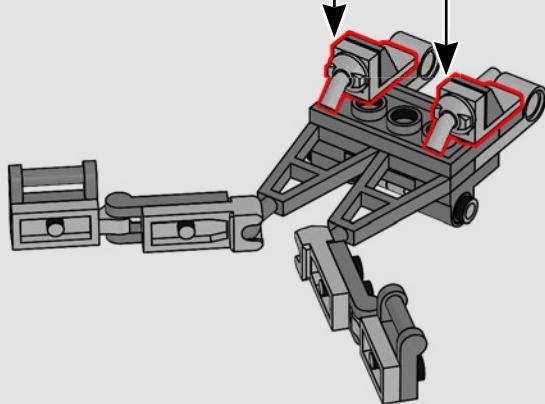
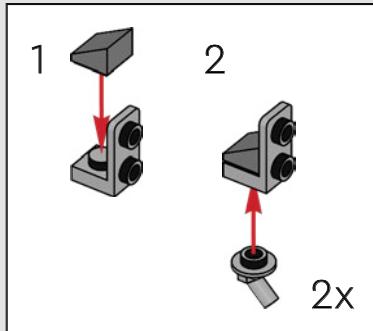


359

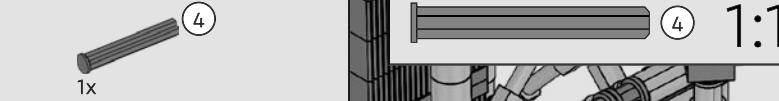
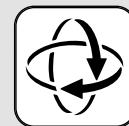




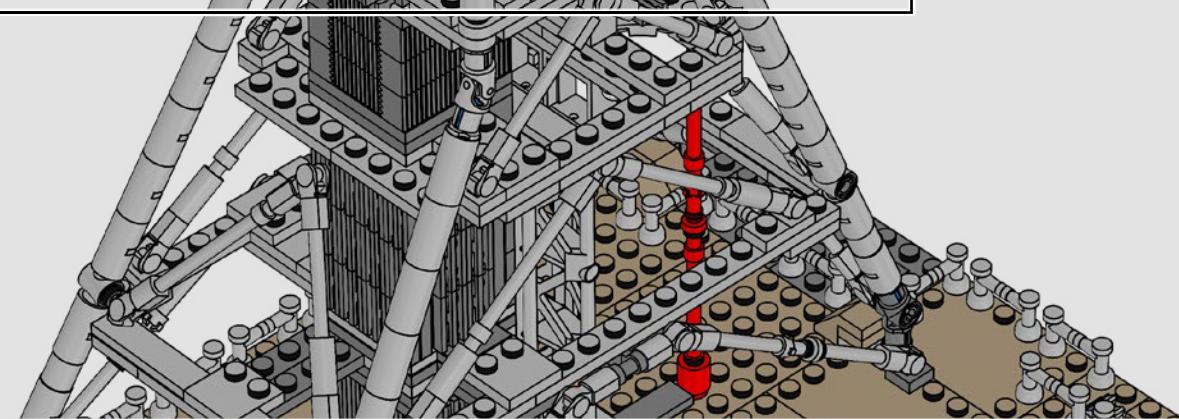
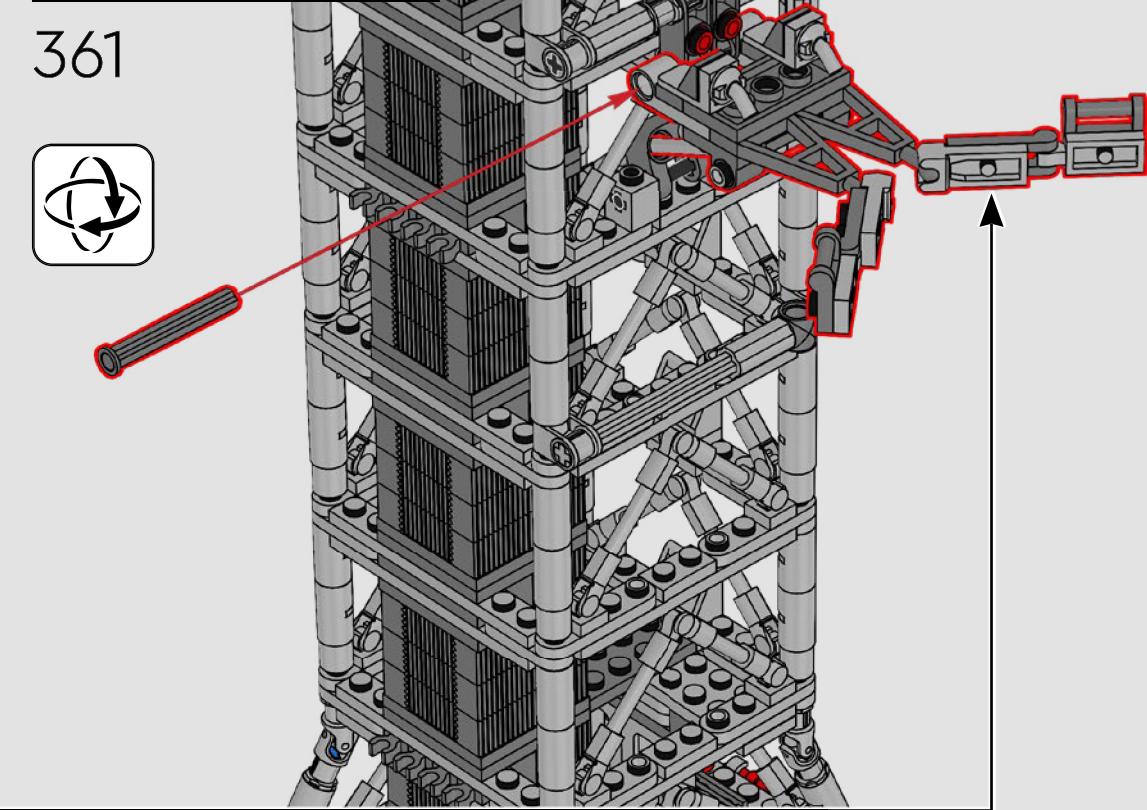
360

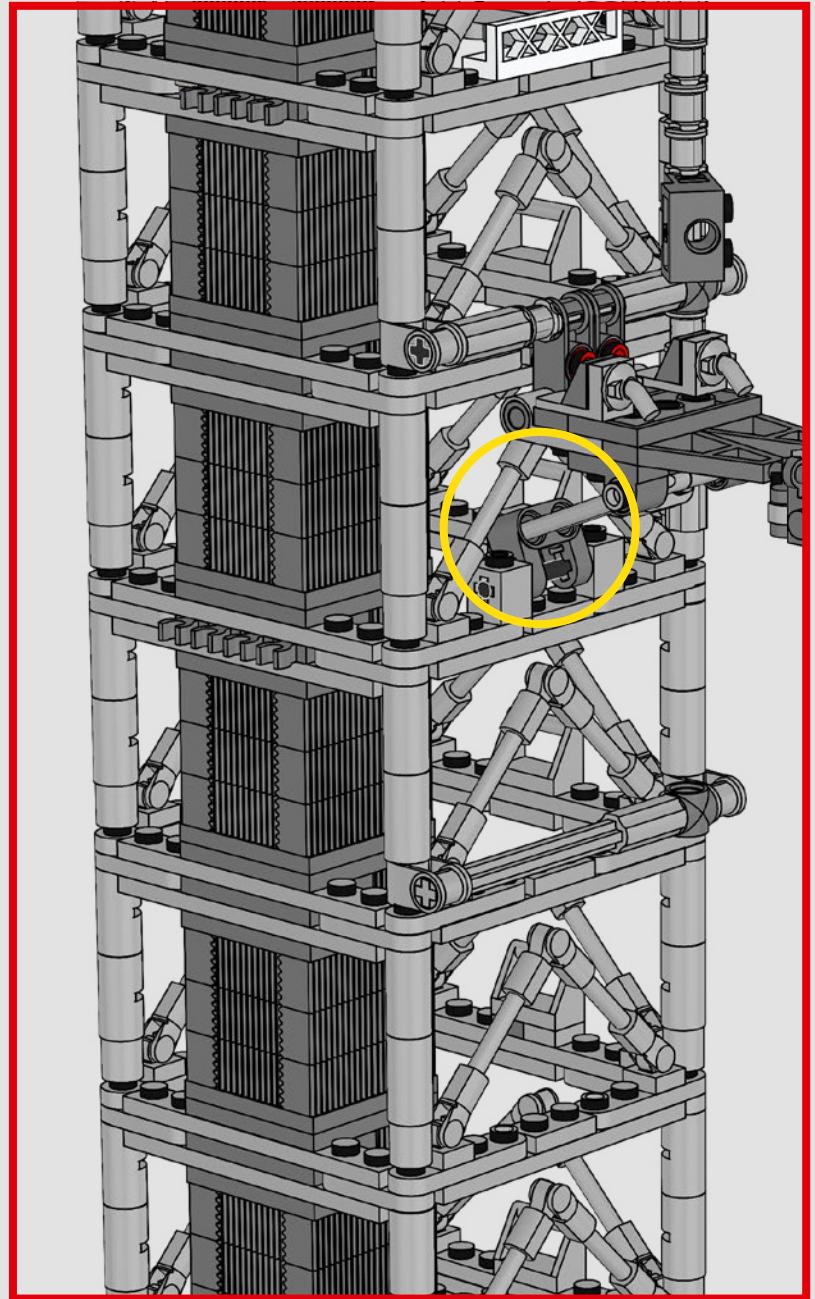


361



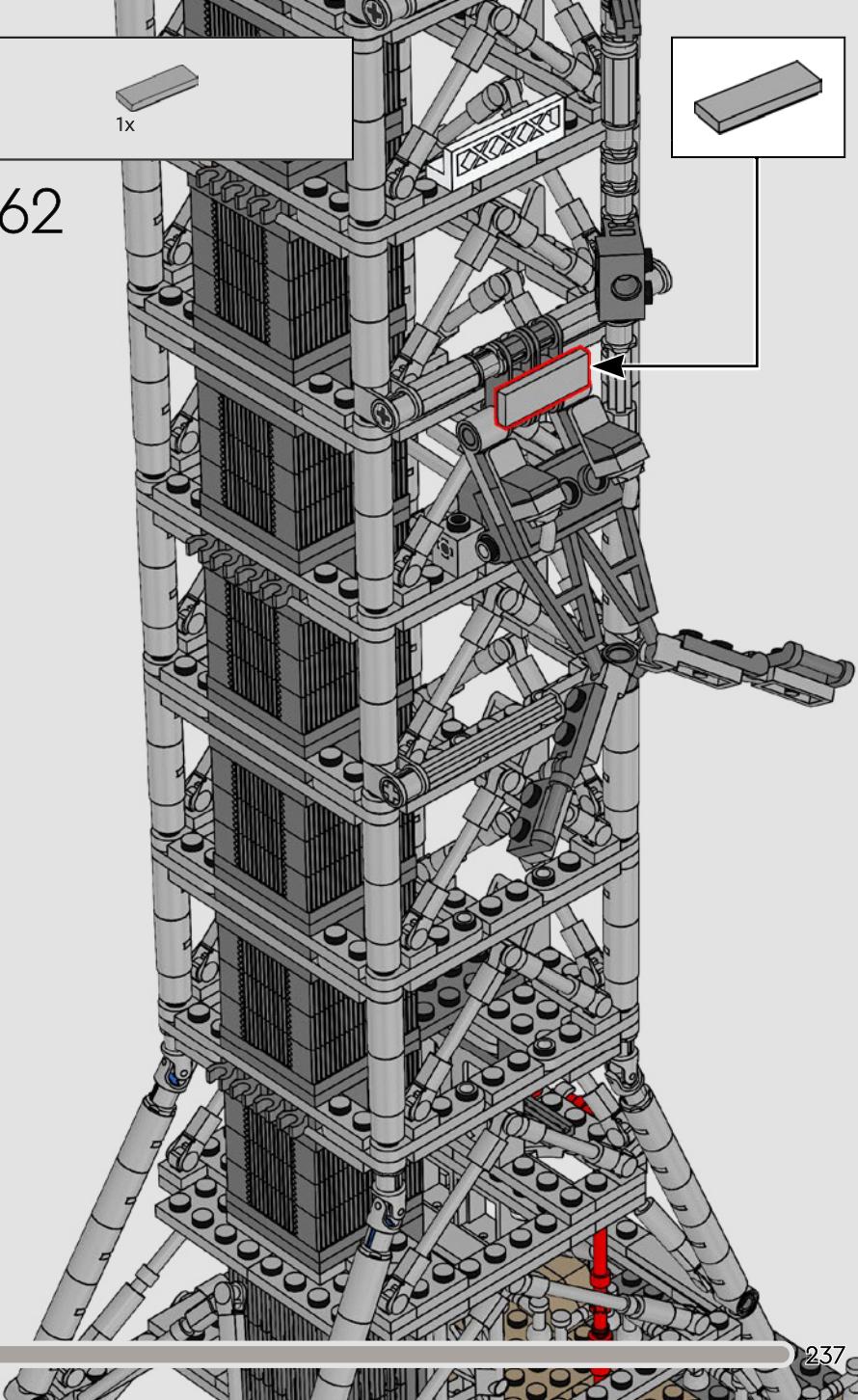
1:1

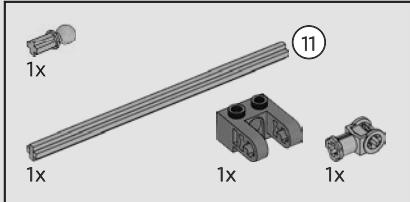




362

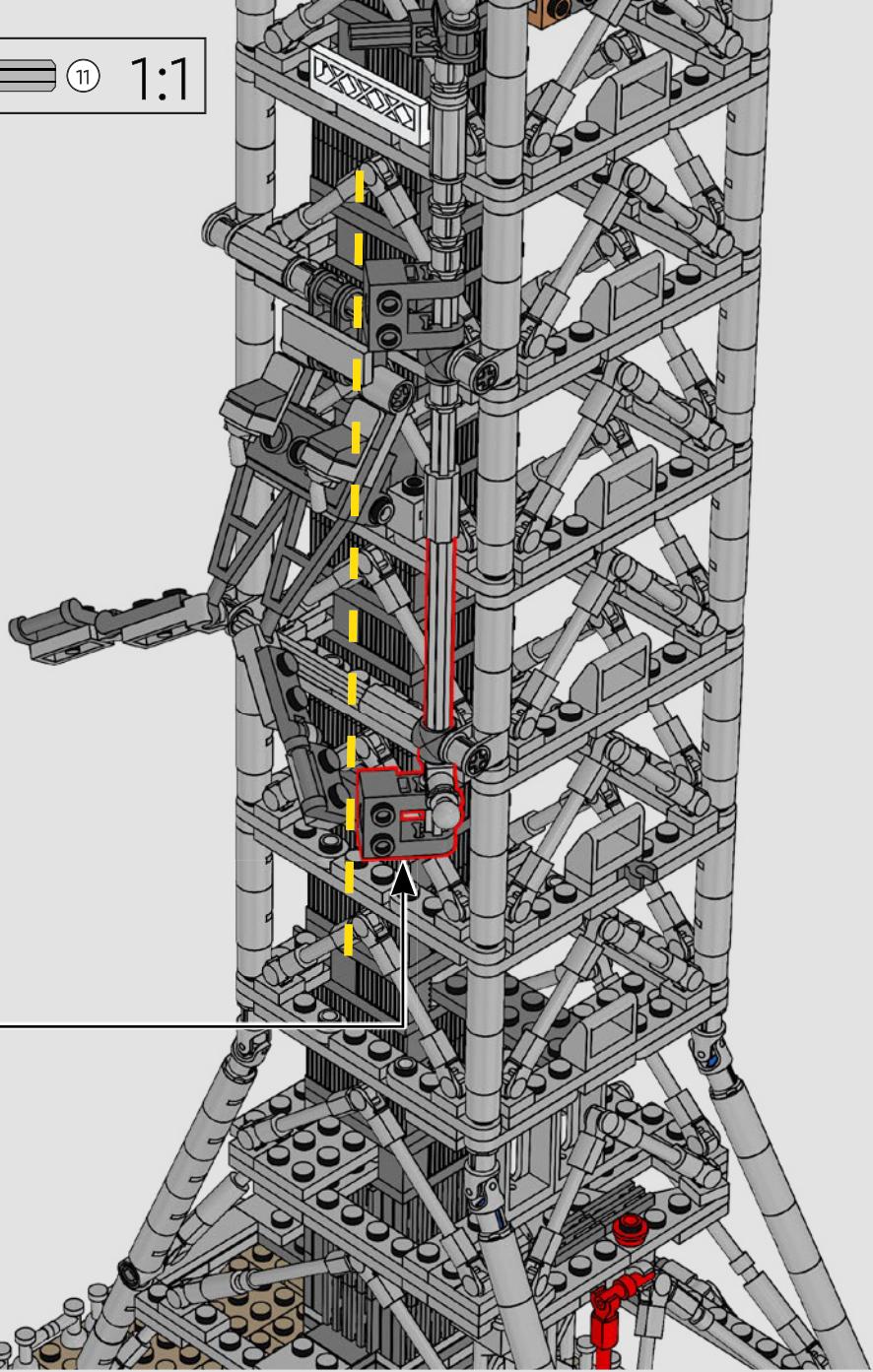
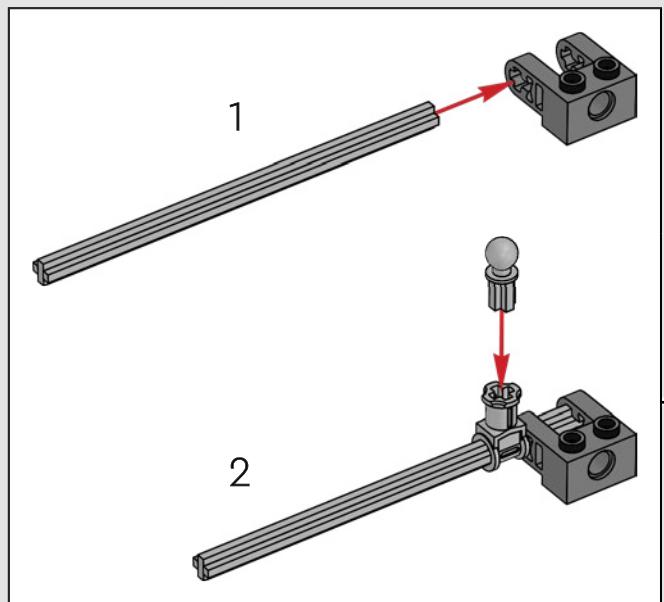
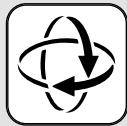
1x

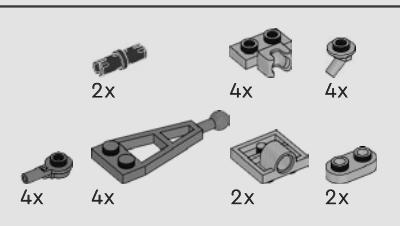
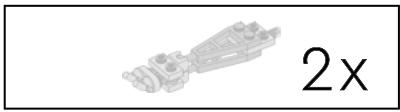




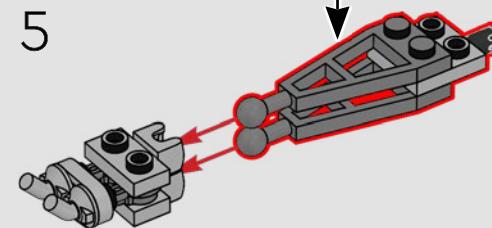
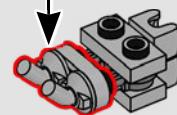
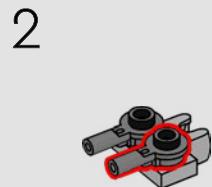
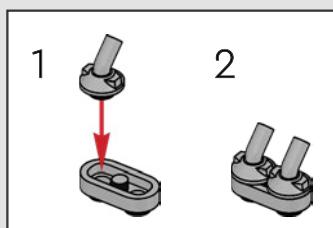
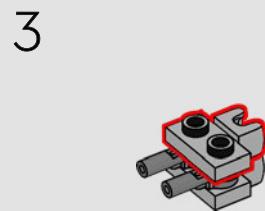
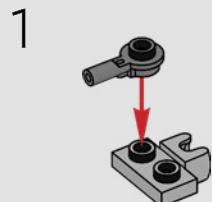
11 1:1

363

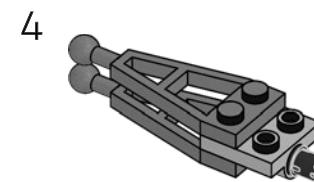
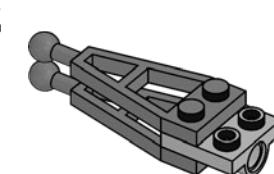
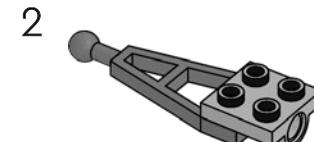
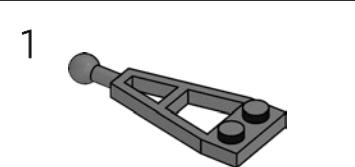


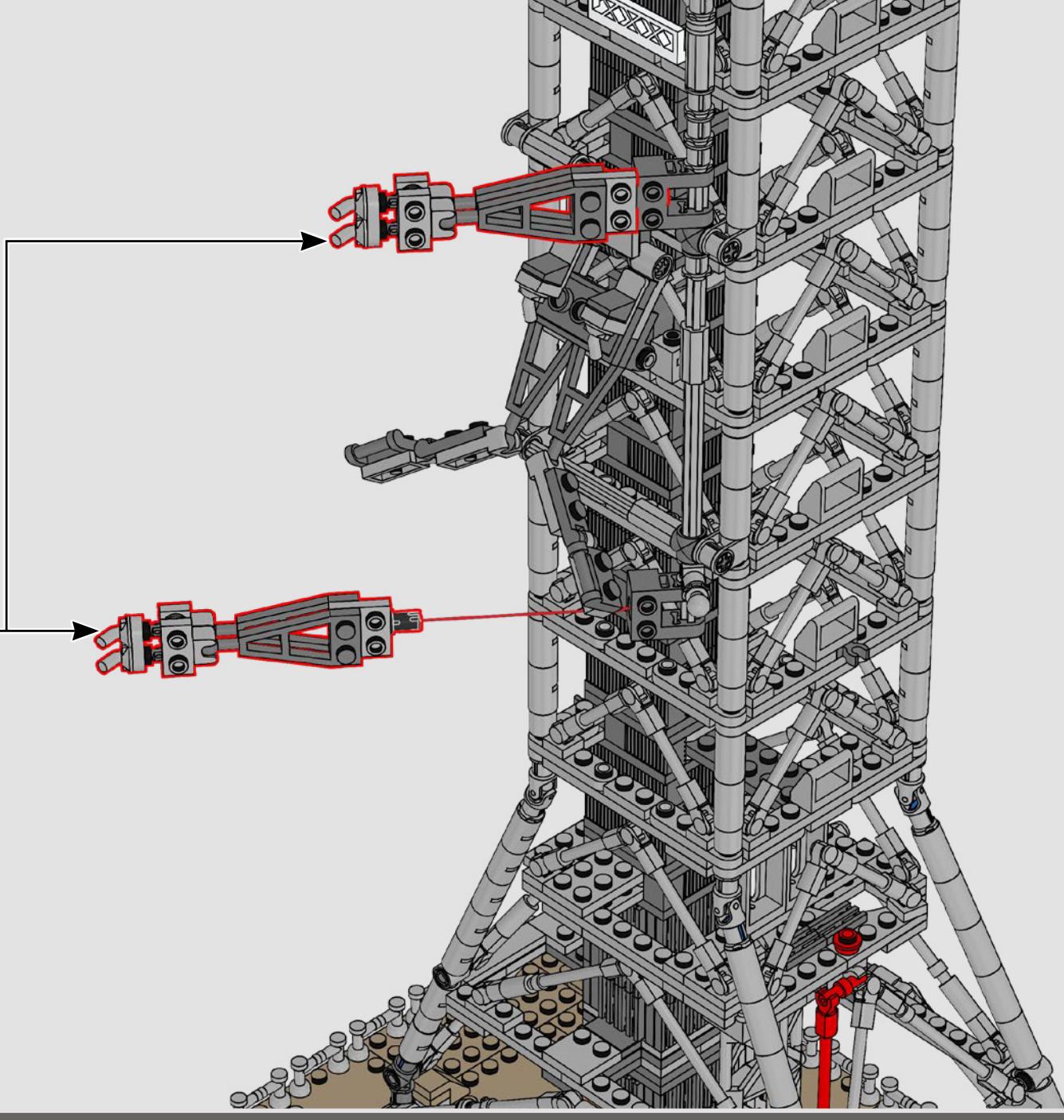


364



2x

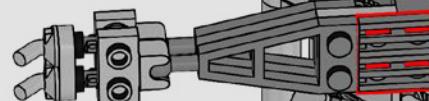




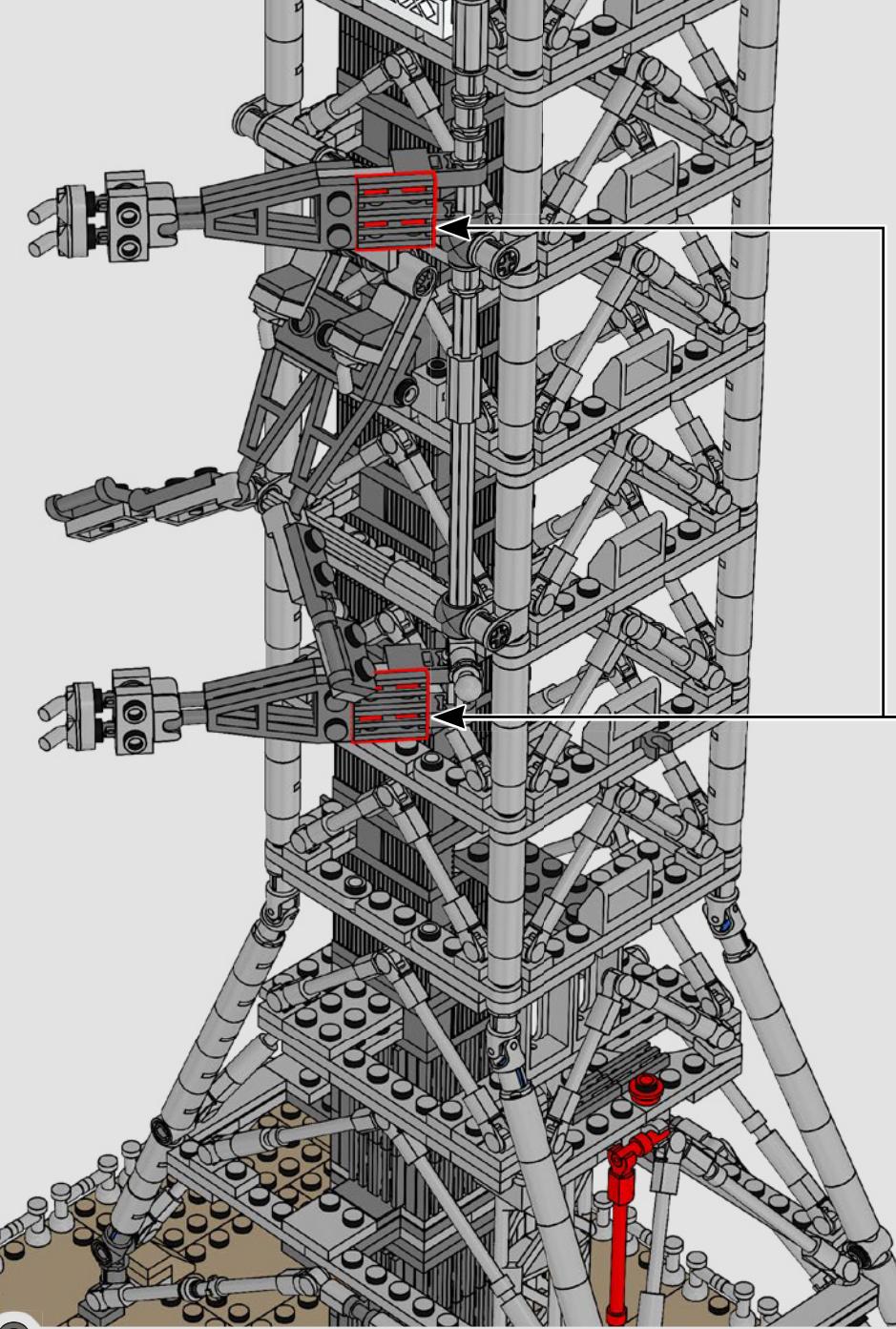
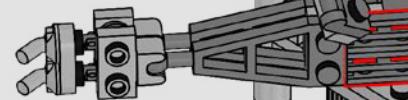


4x

365

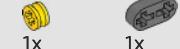
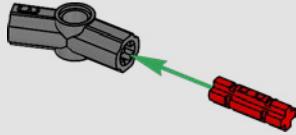


4x

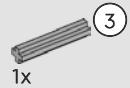
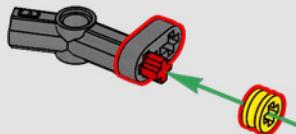




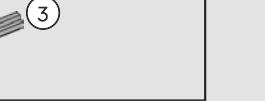
366



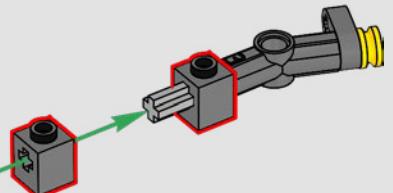
367



368



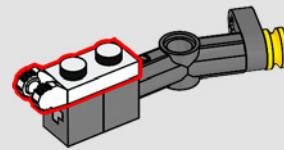
369



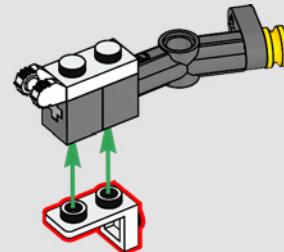
1:1



370

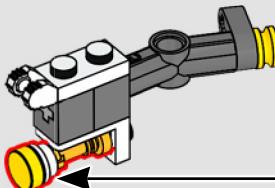
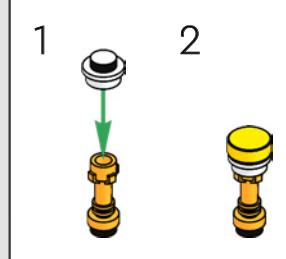


371

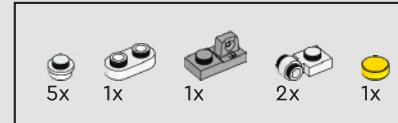
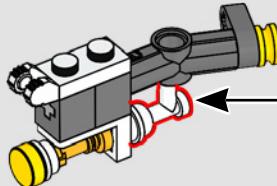
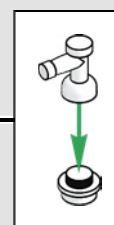




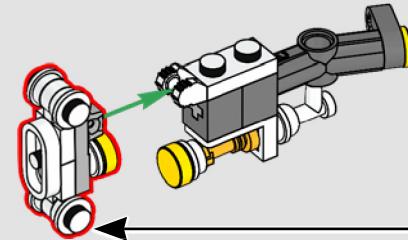
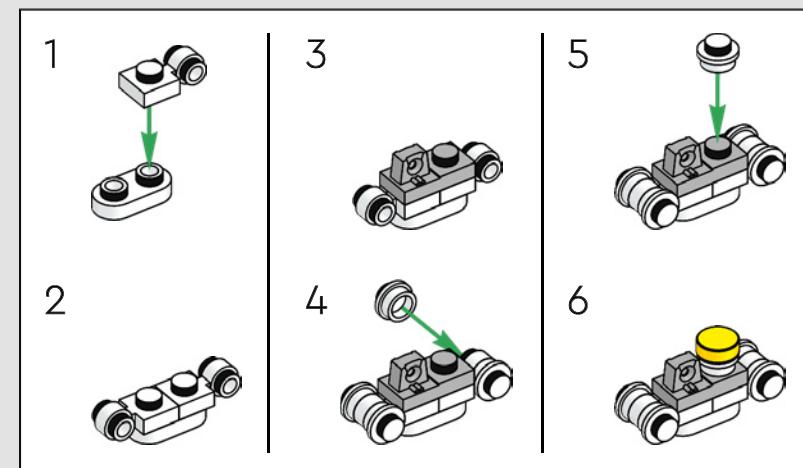
372

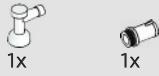


373

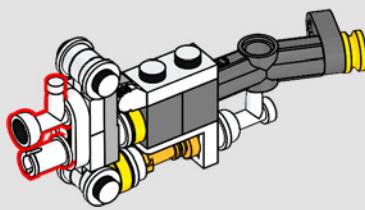


374

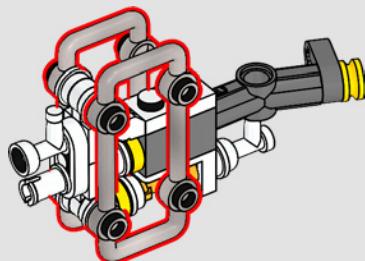




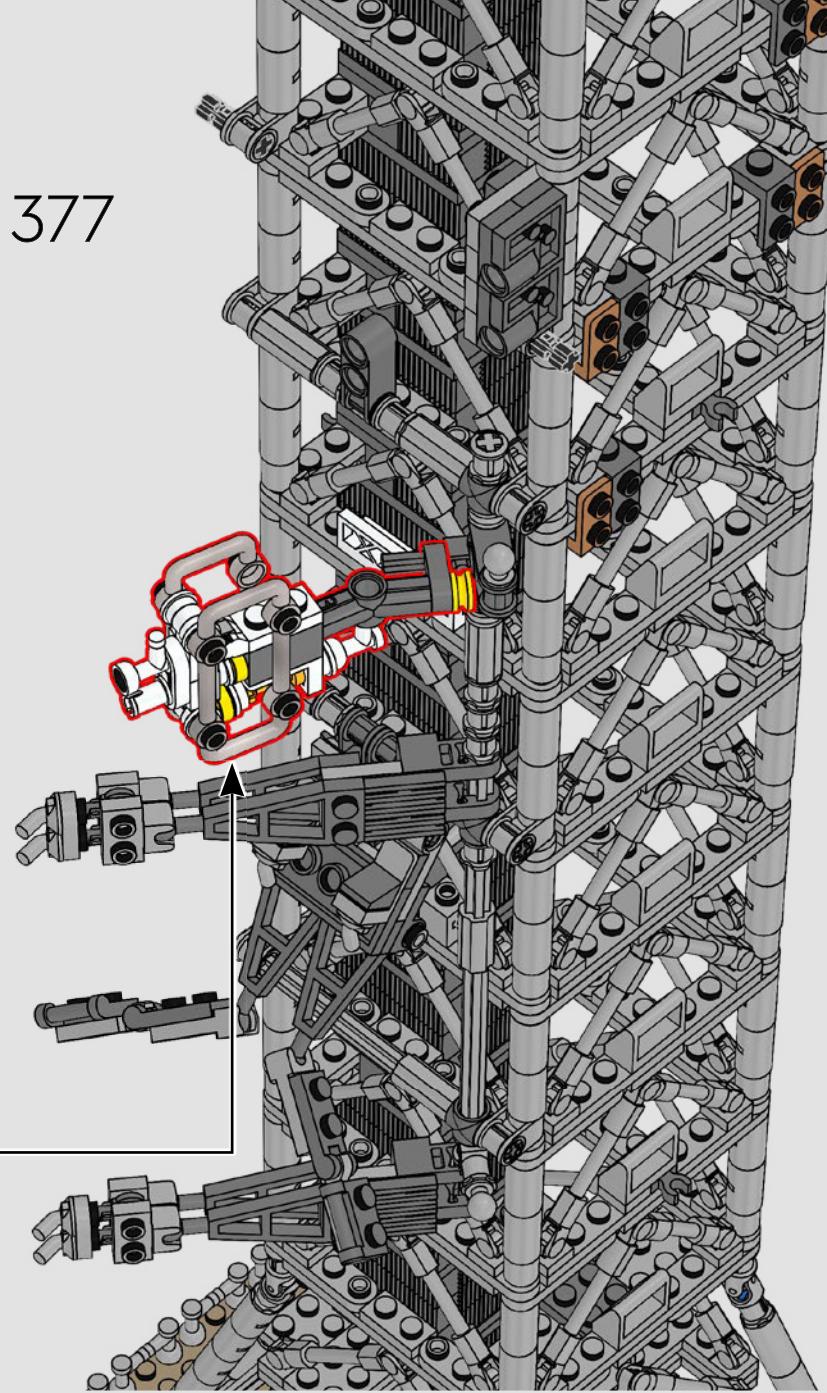
375



376



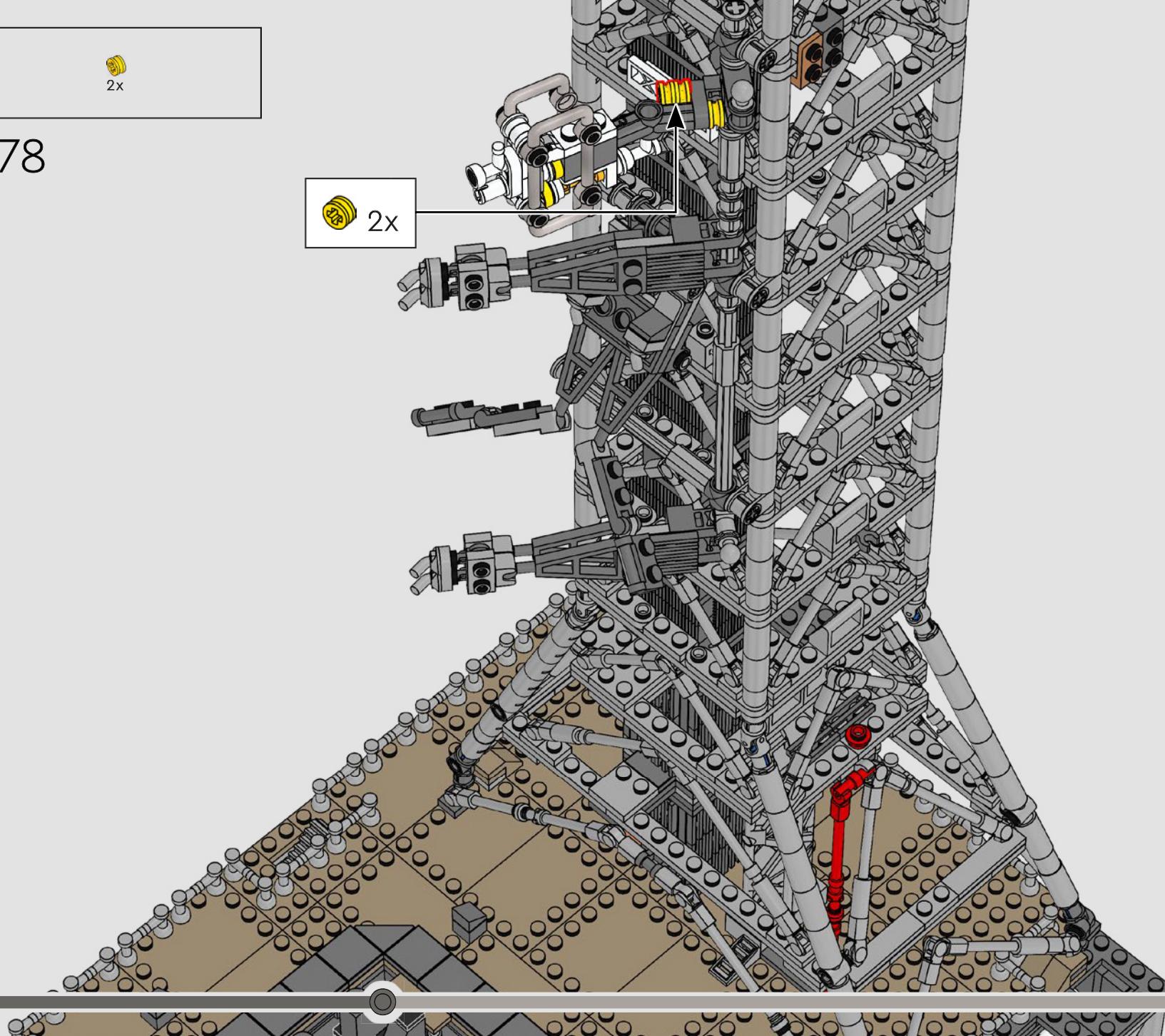
377

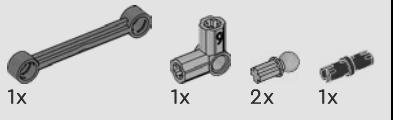




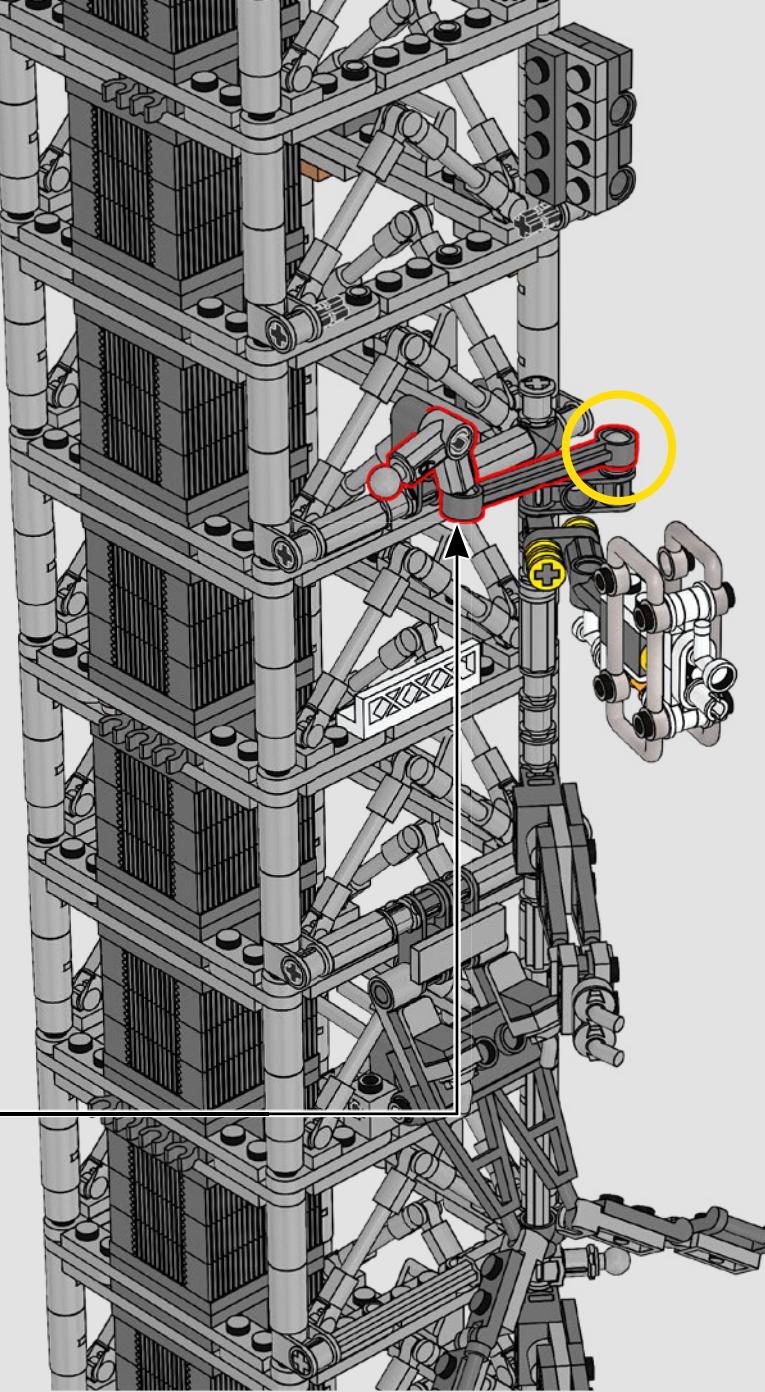
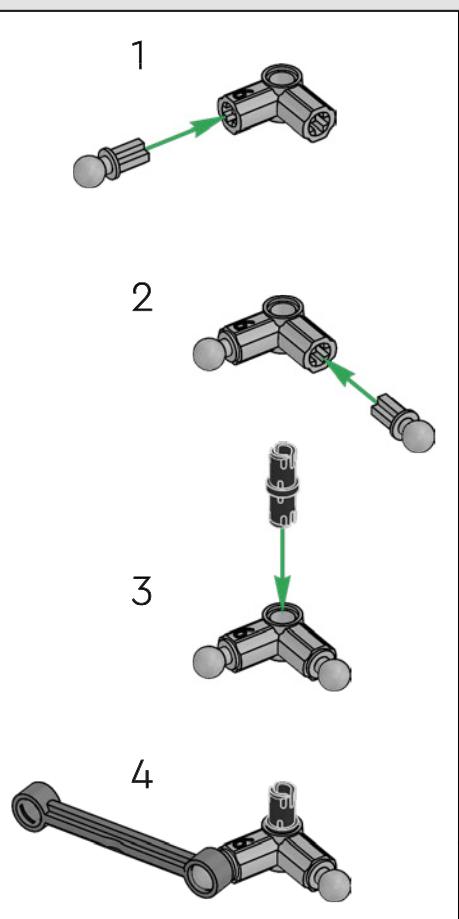
2x

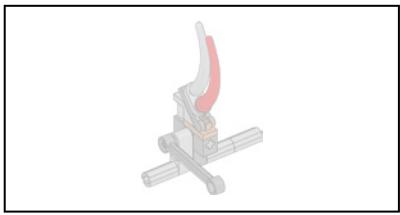
378



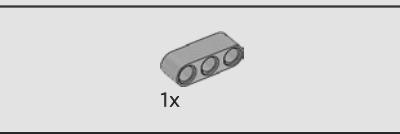
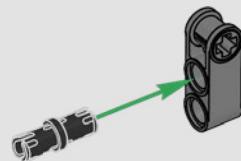


379





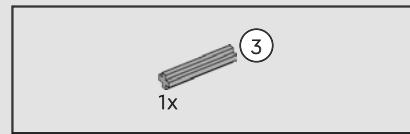
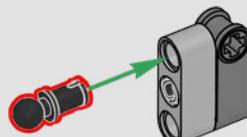
380



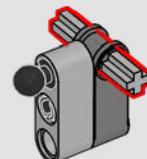
381



382



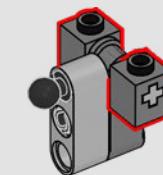
383



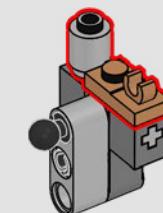
(3) 1:1



384



385



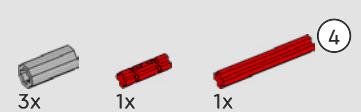
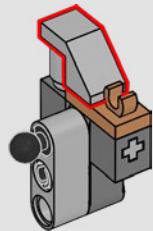


1x

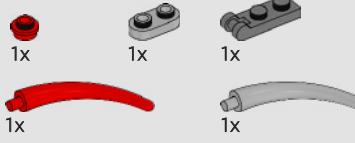
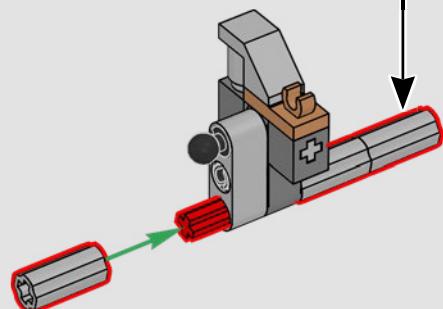
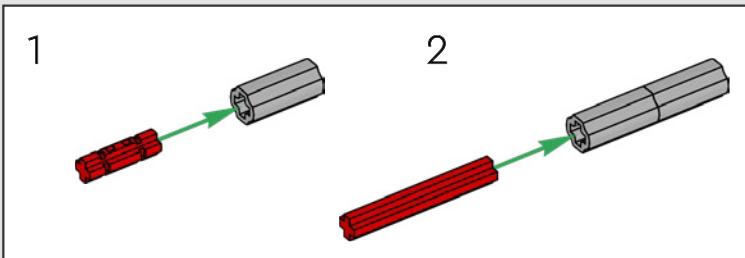


1:1

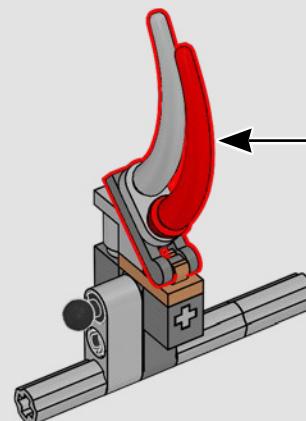
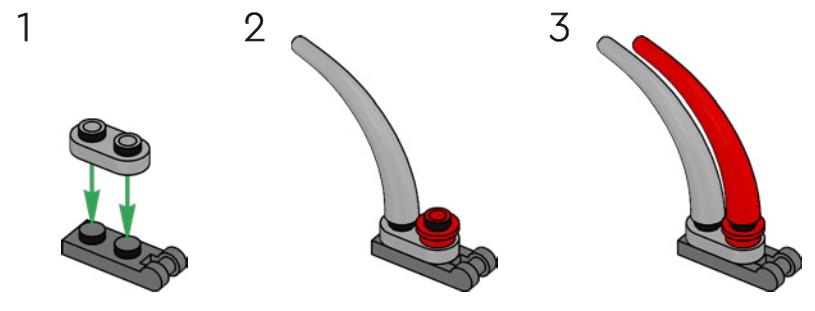
386



387

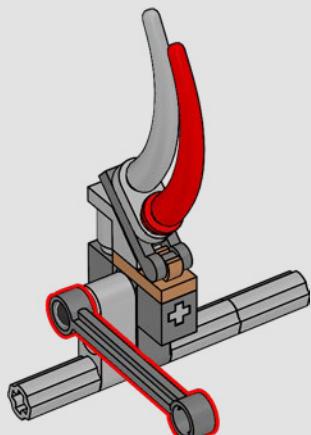


388

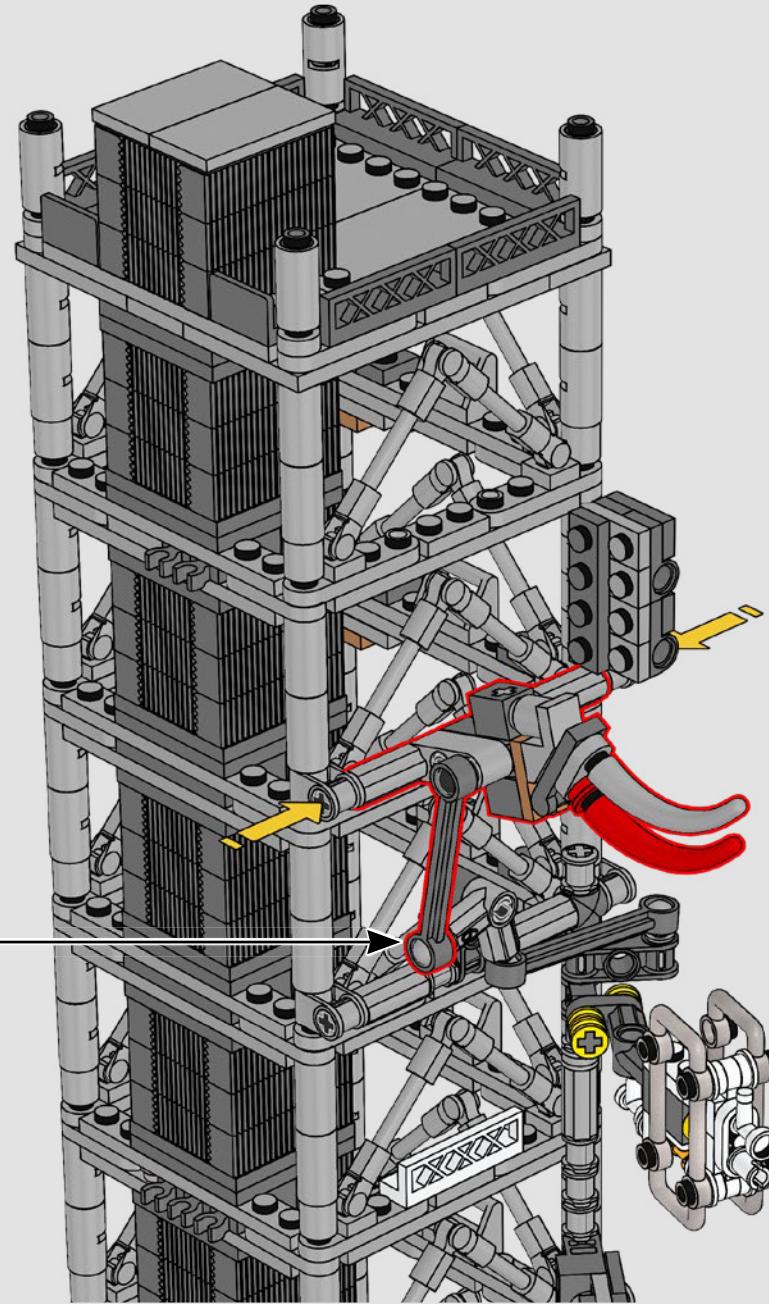


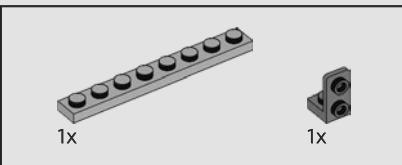
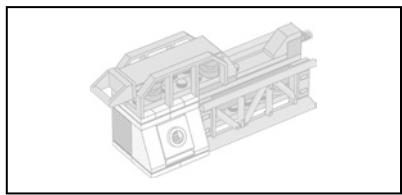


389

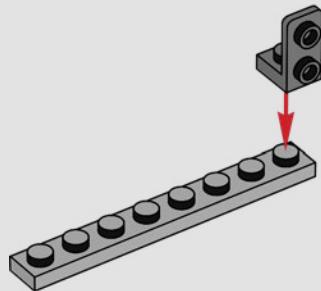


390

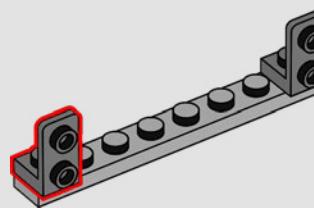




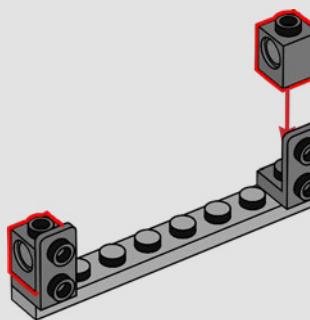
391



392



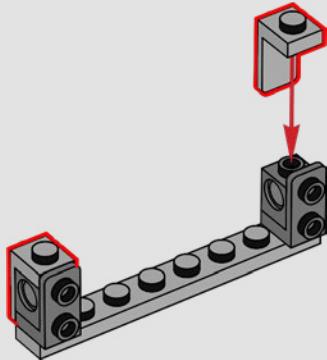
393





2x

394



2x



4x

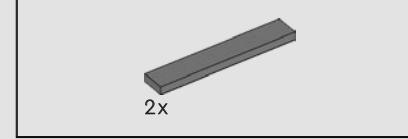
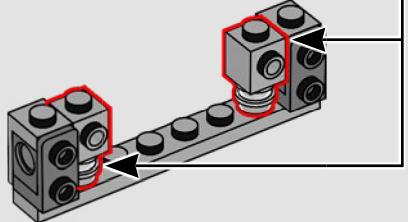


2



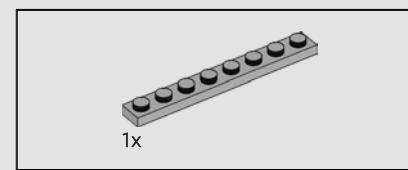
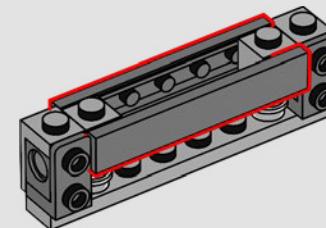
2x

395



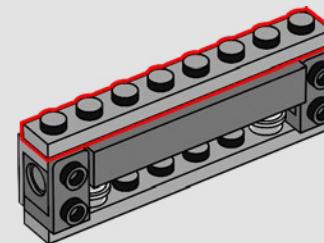
2x

396



1x

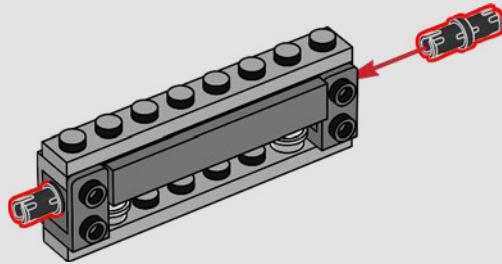
397





2x

398



1x



1x



1x

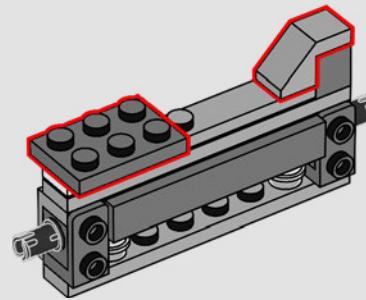


1x



1x

400

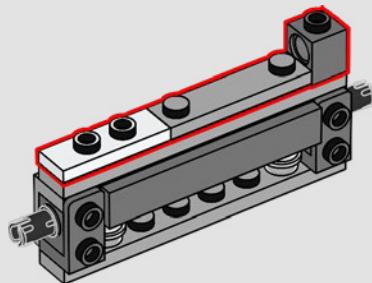


1x

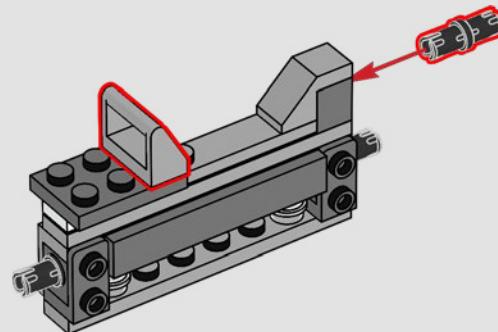


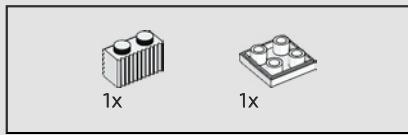
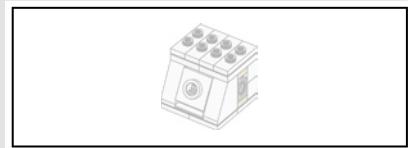
1x

399

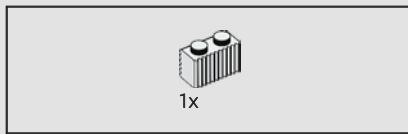
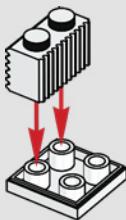


401

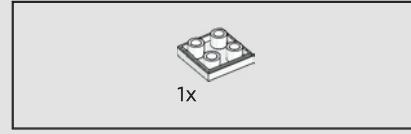




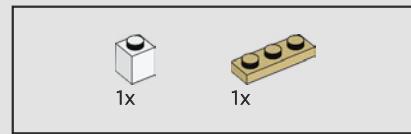
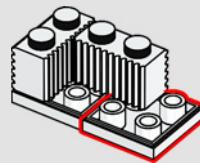
402



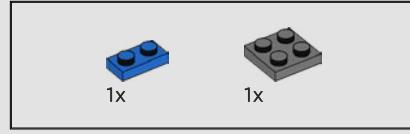
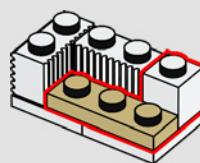
403



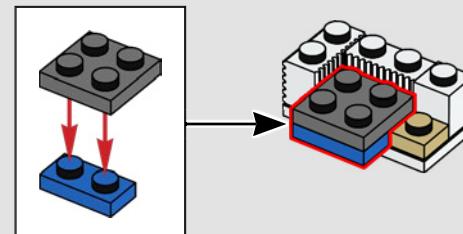
404



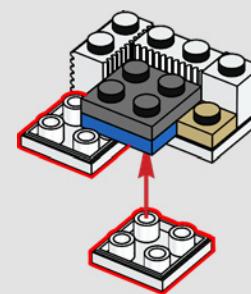
405



406



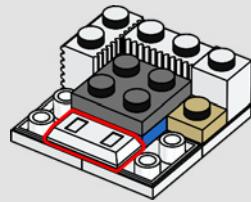
407



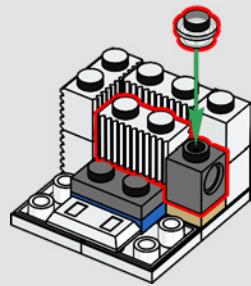


1x

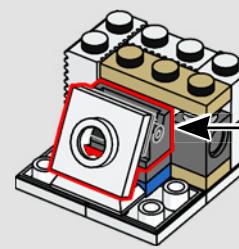
408



410

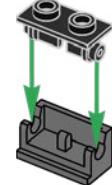


412



1

2

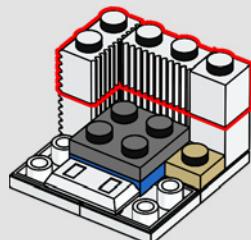


2x



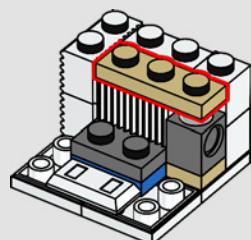
1x

409



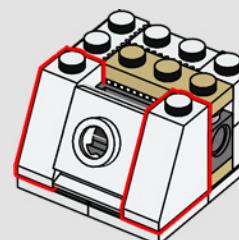
1x

411



2x

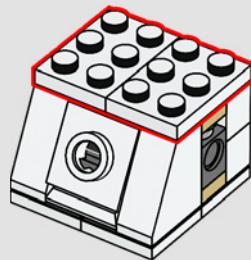
413





2x

414



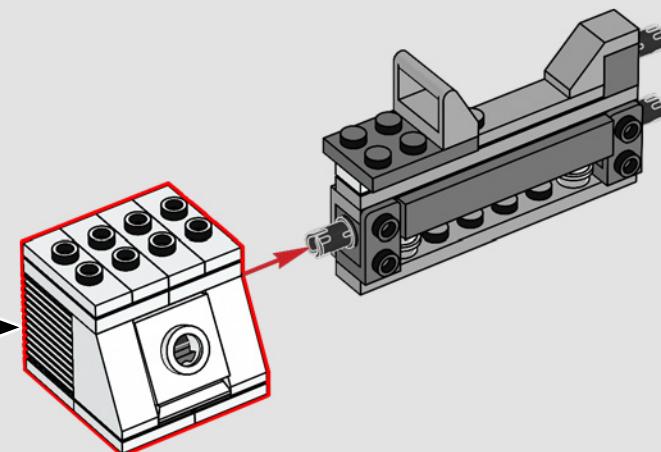
4x

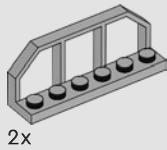
415



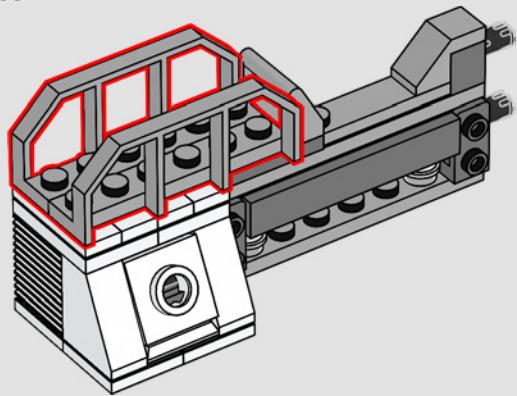
A new 2x2 turntable element was used to make the hatch on the crew bridge.

416

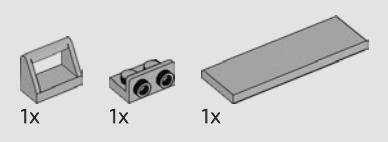
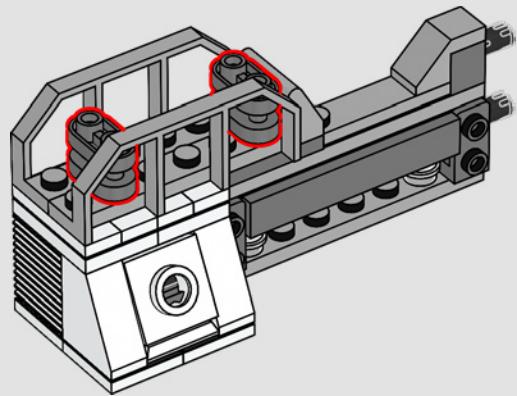




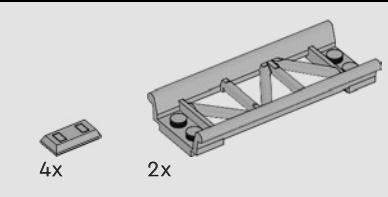
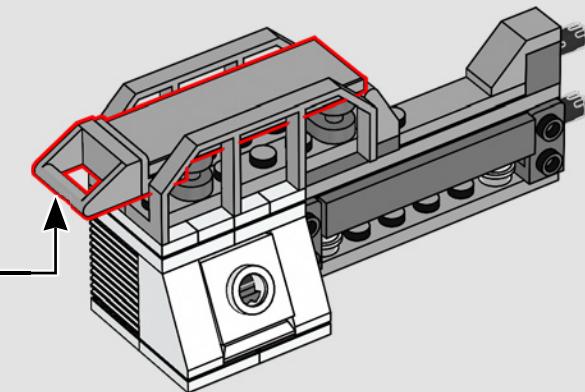
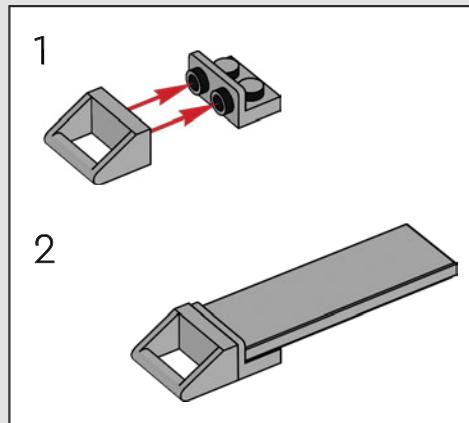
417



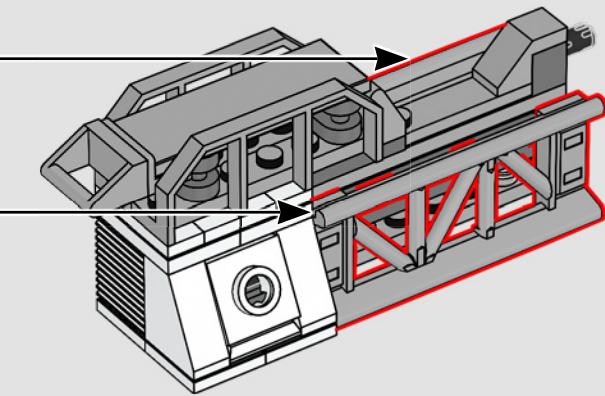
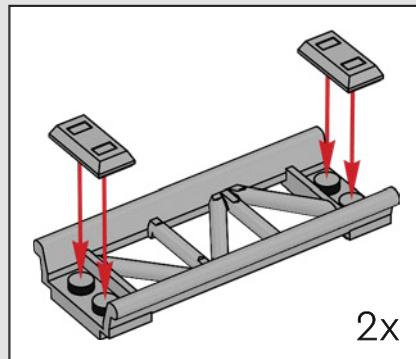
418



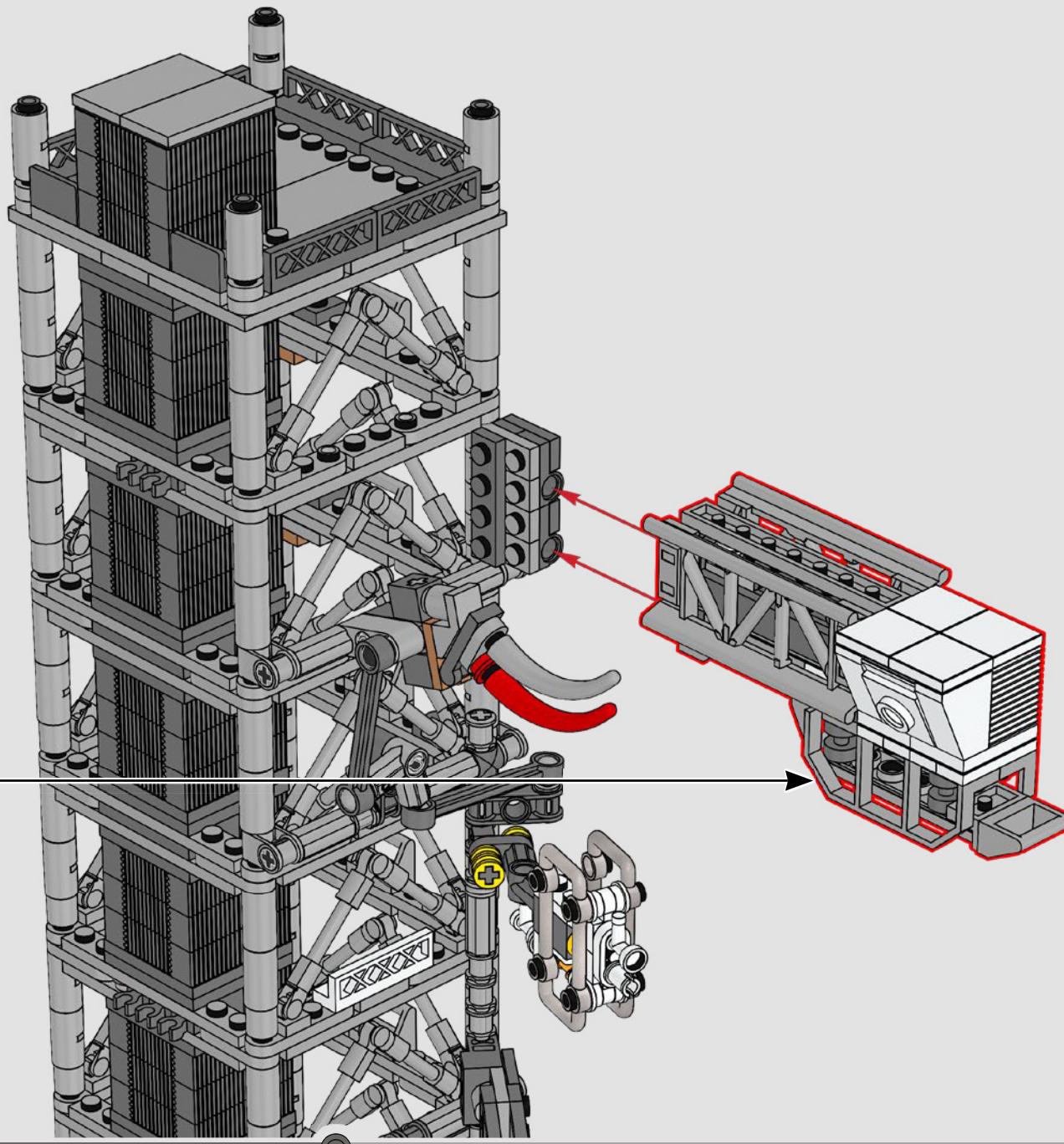
419

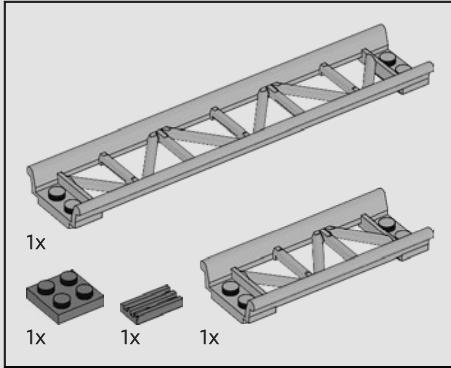


420



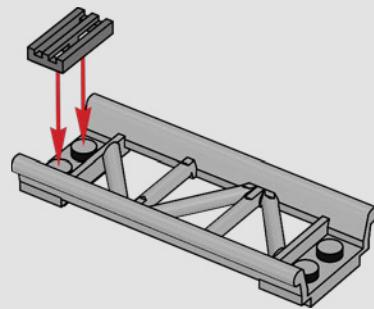
421



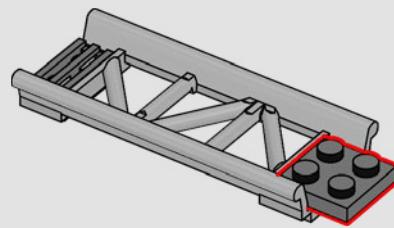


422

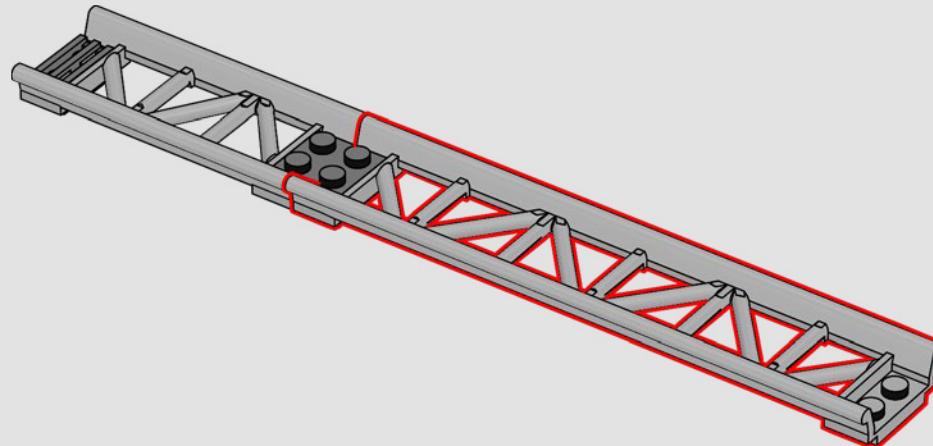
1

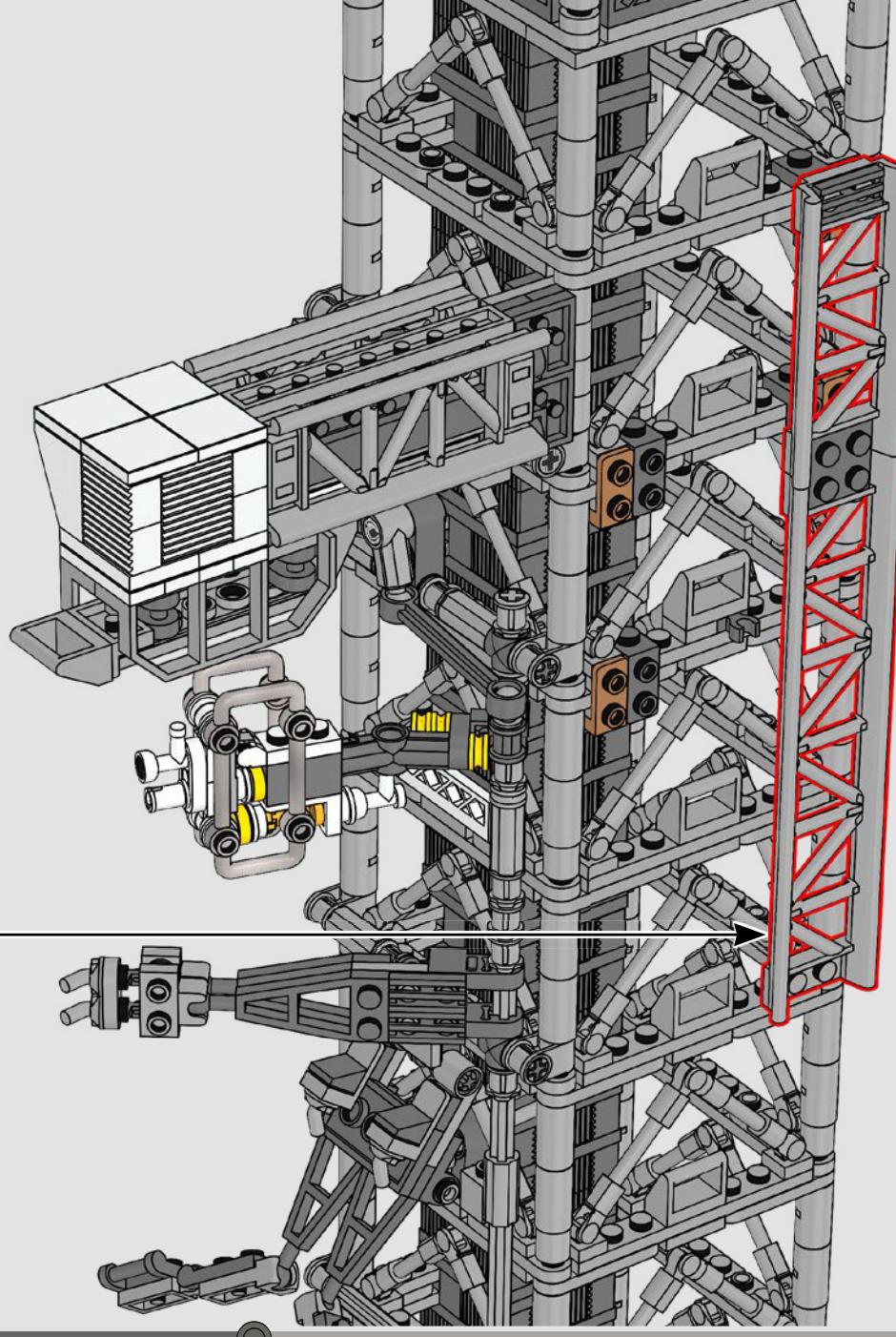
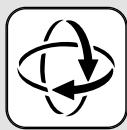


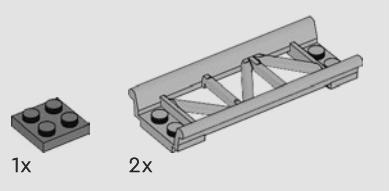
2



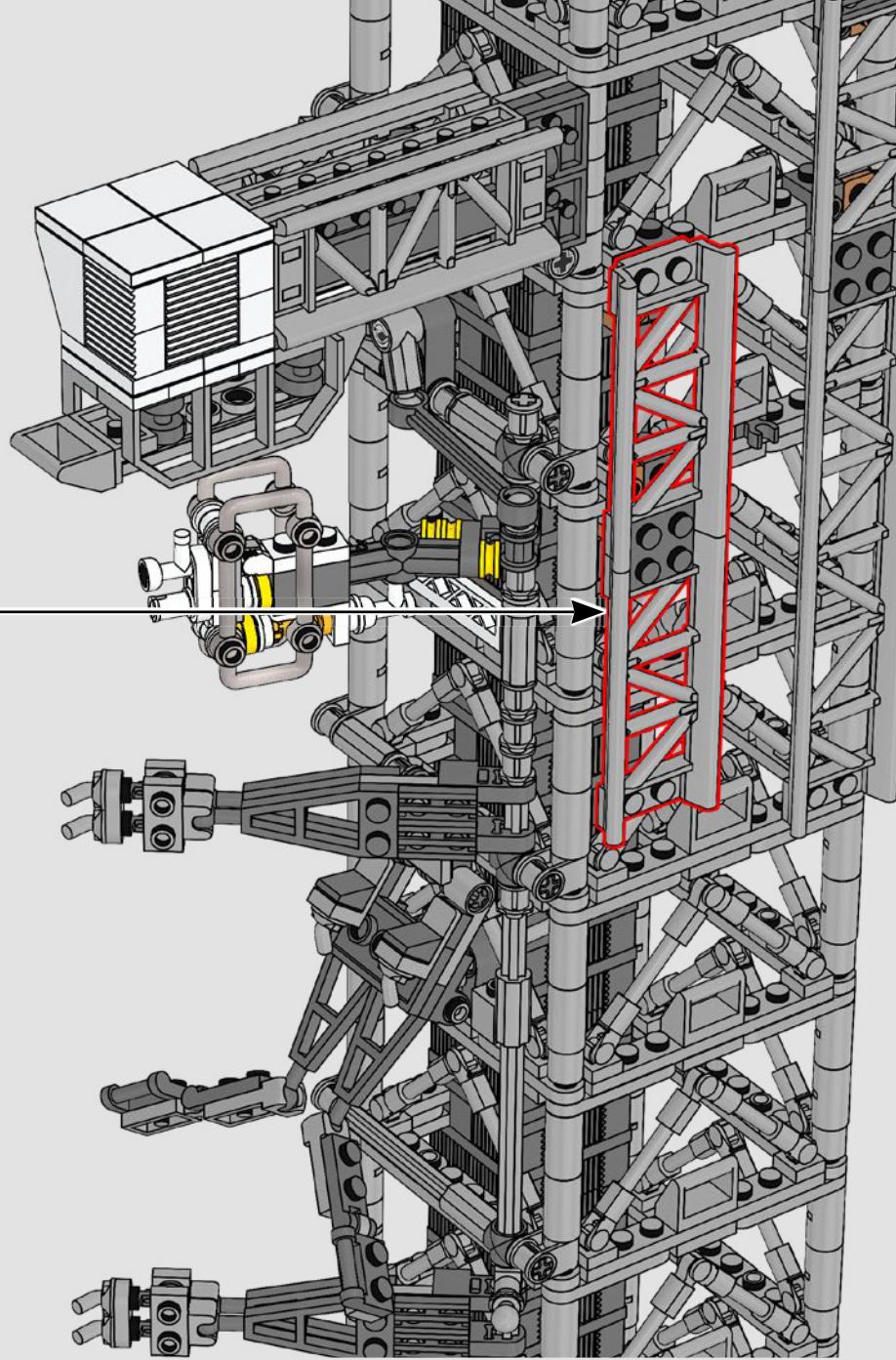
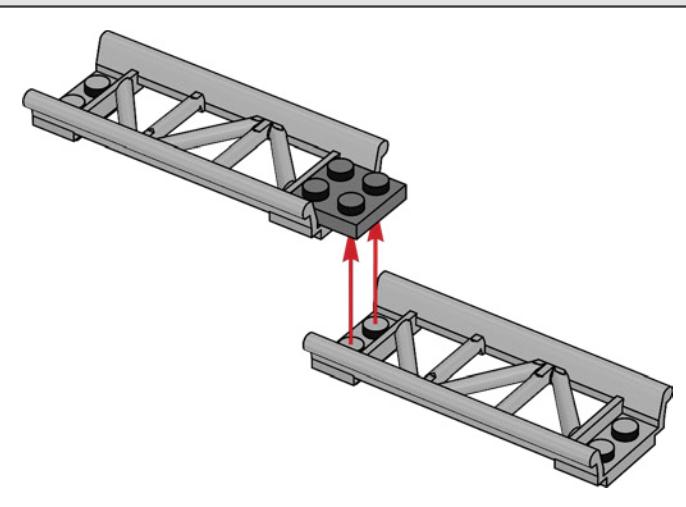
3

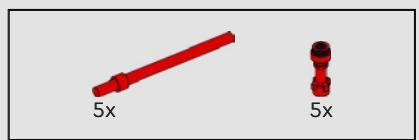




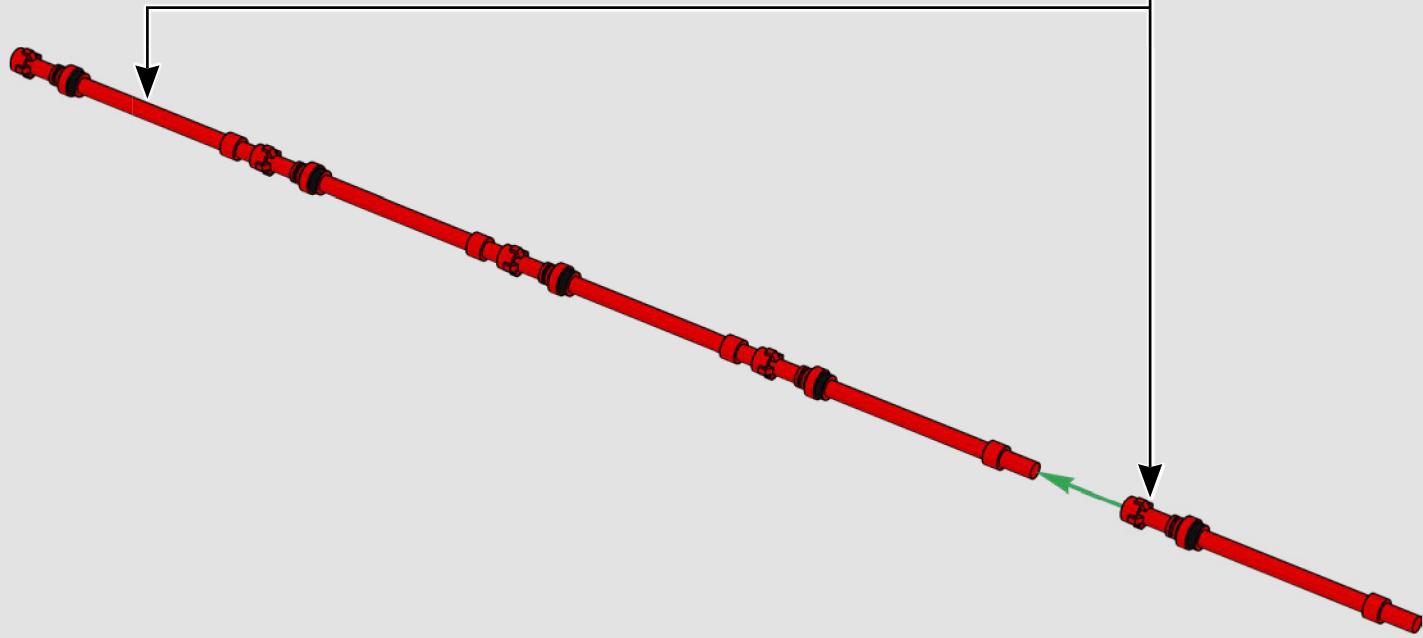


423

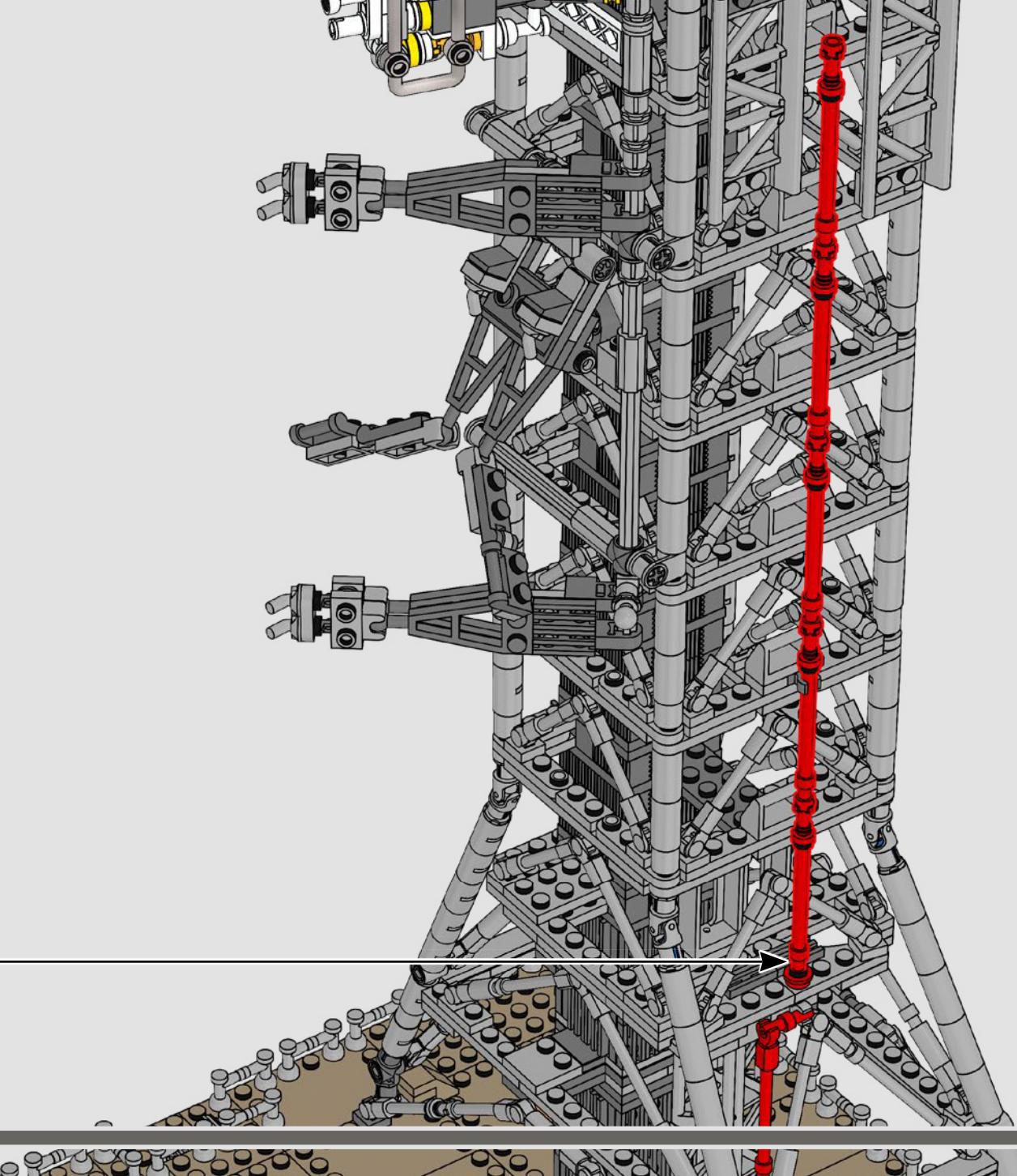


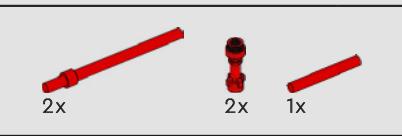


424

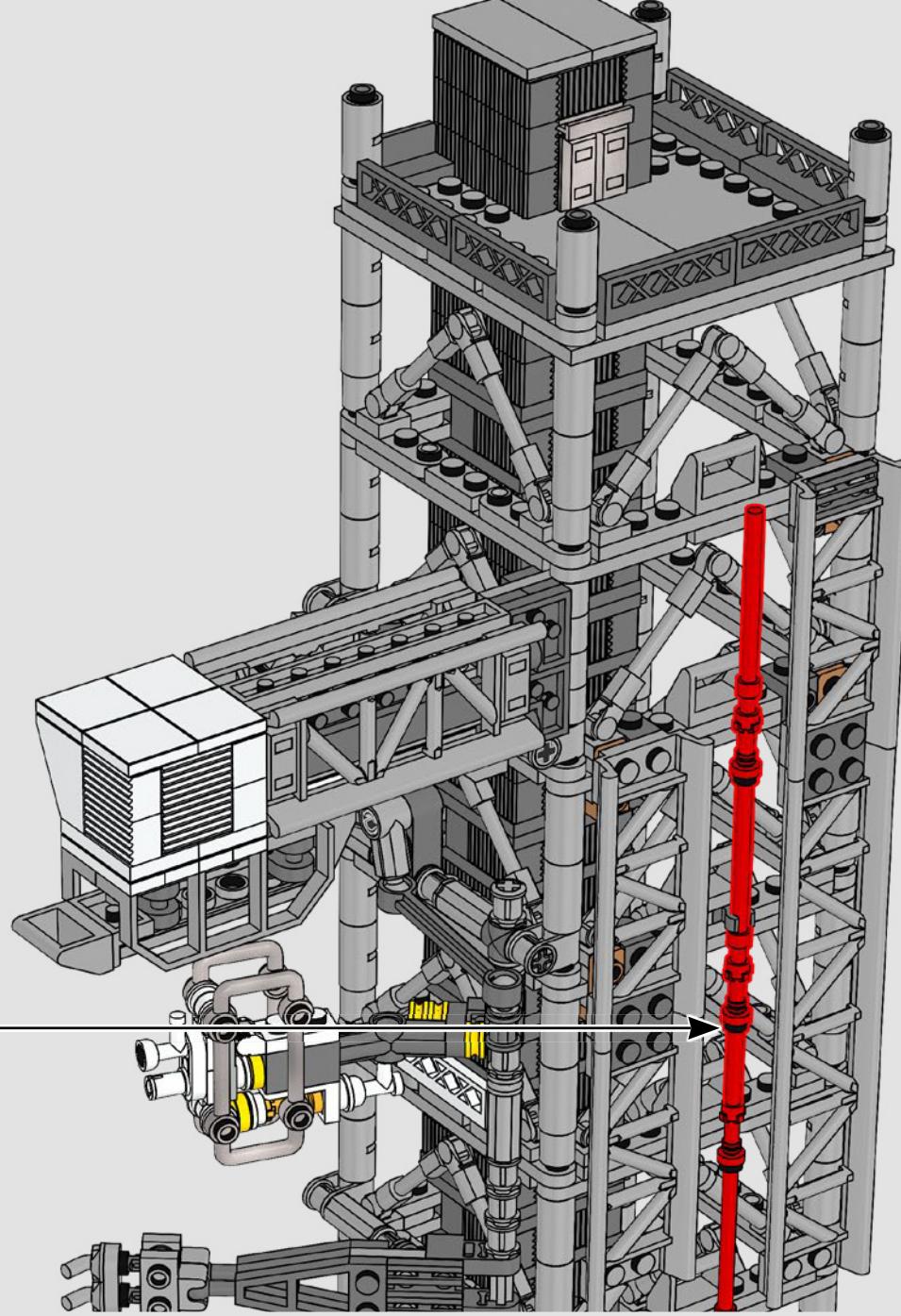
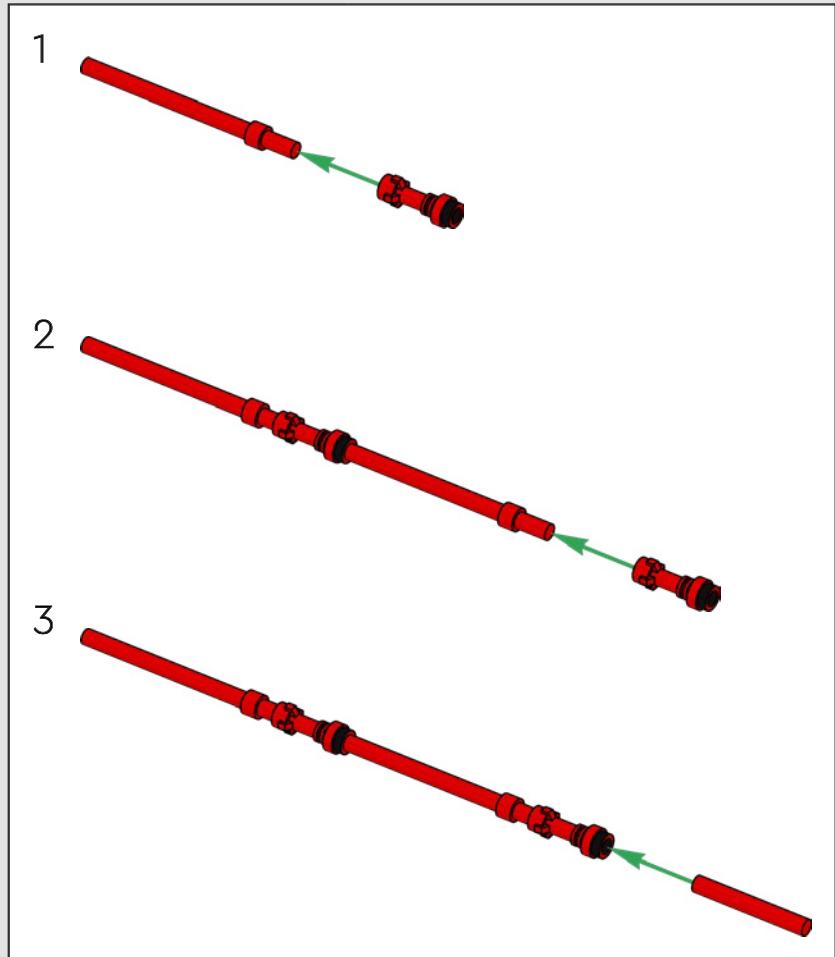


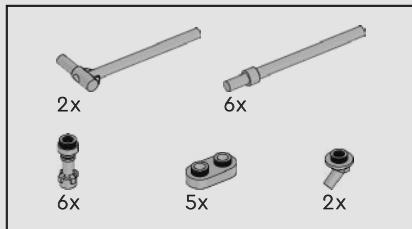
425



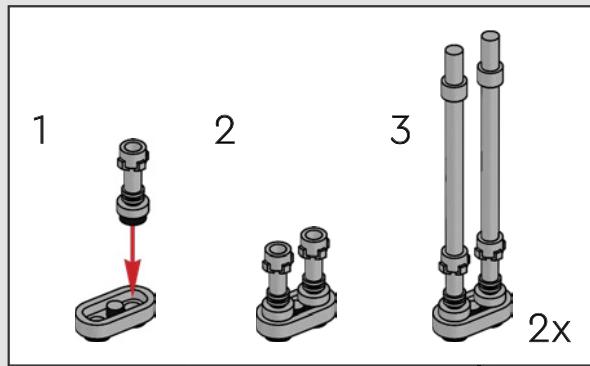
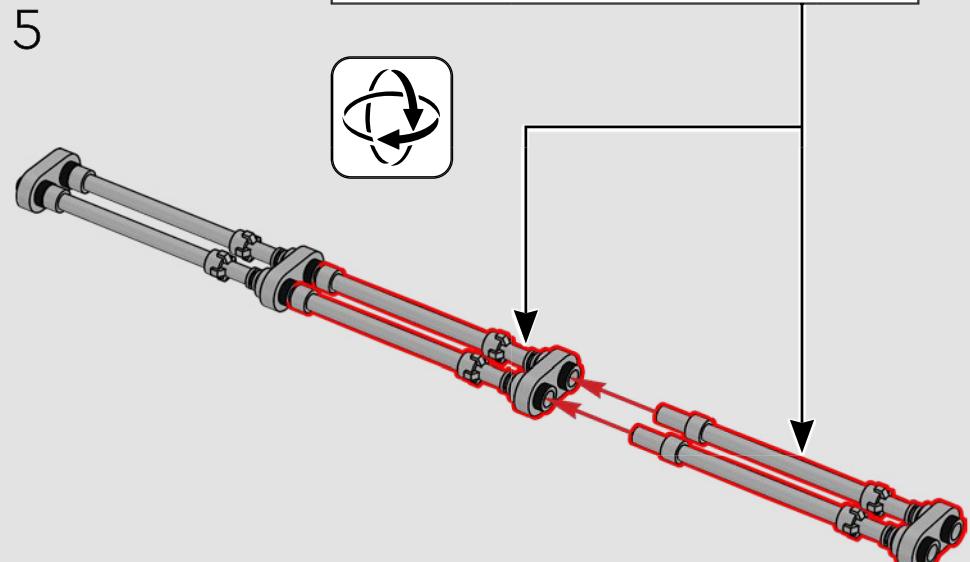
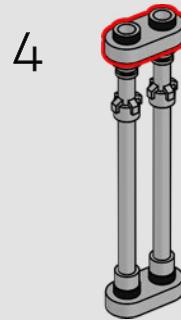
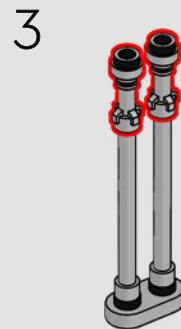
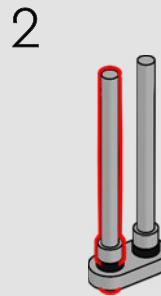
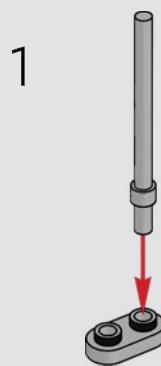


426

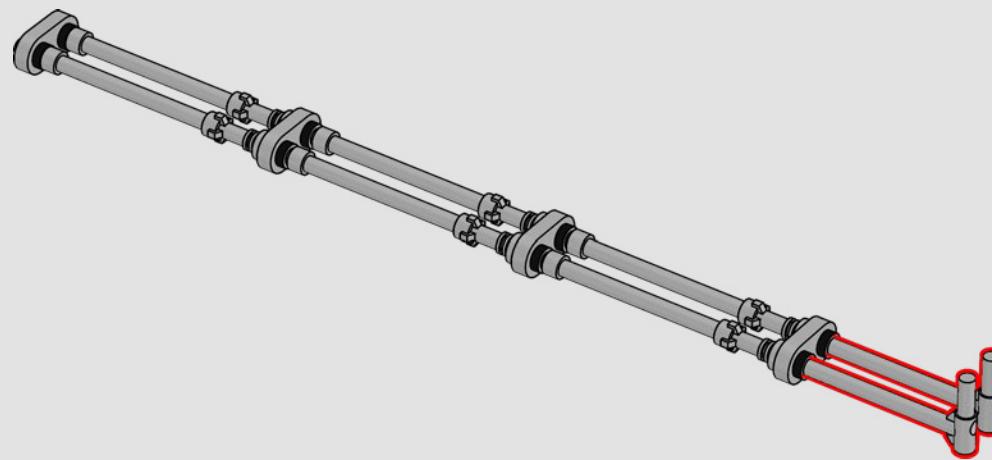




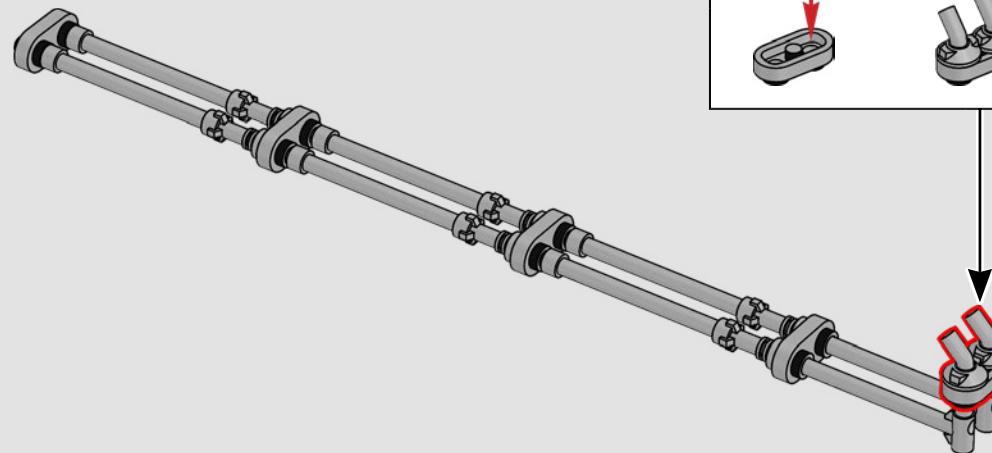
427

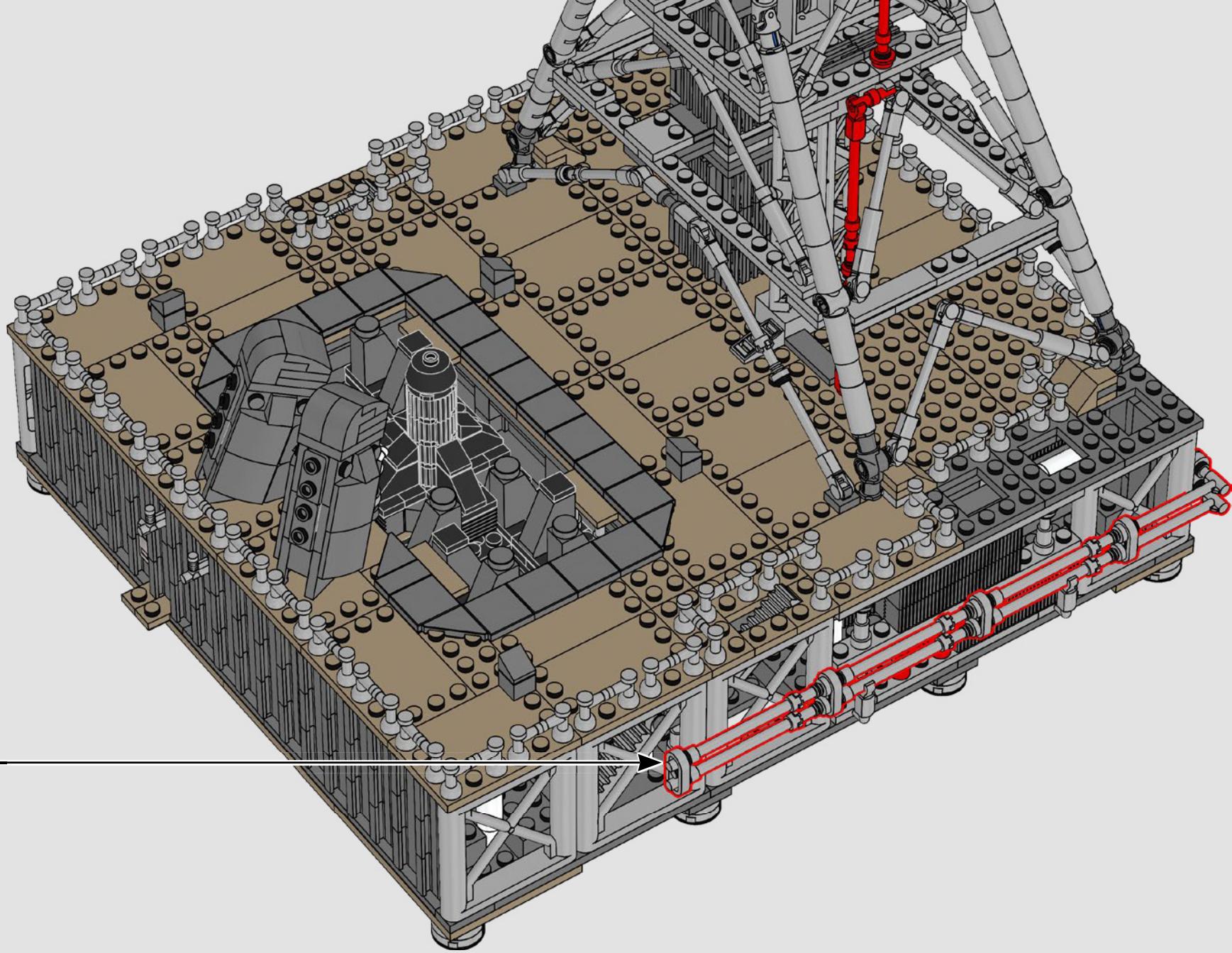


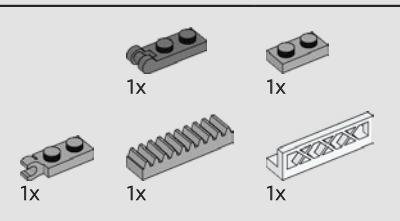
6



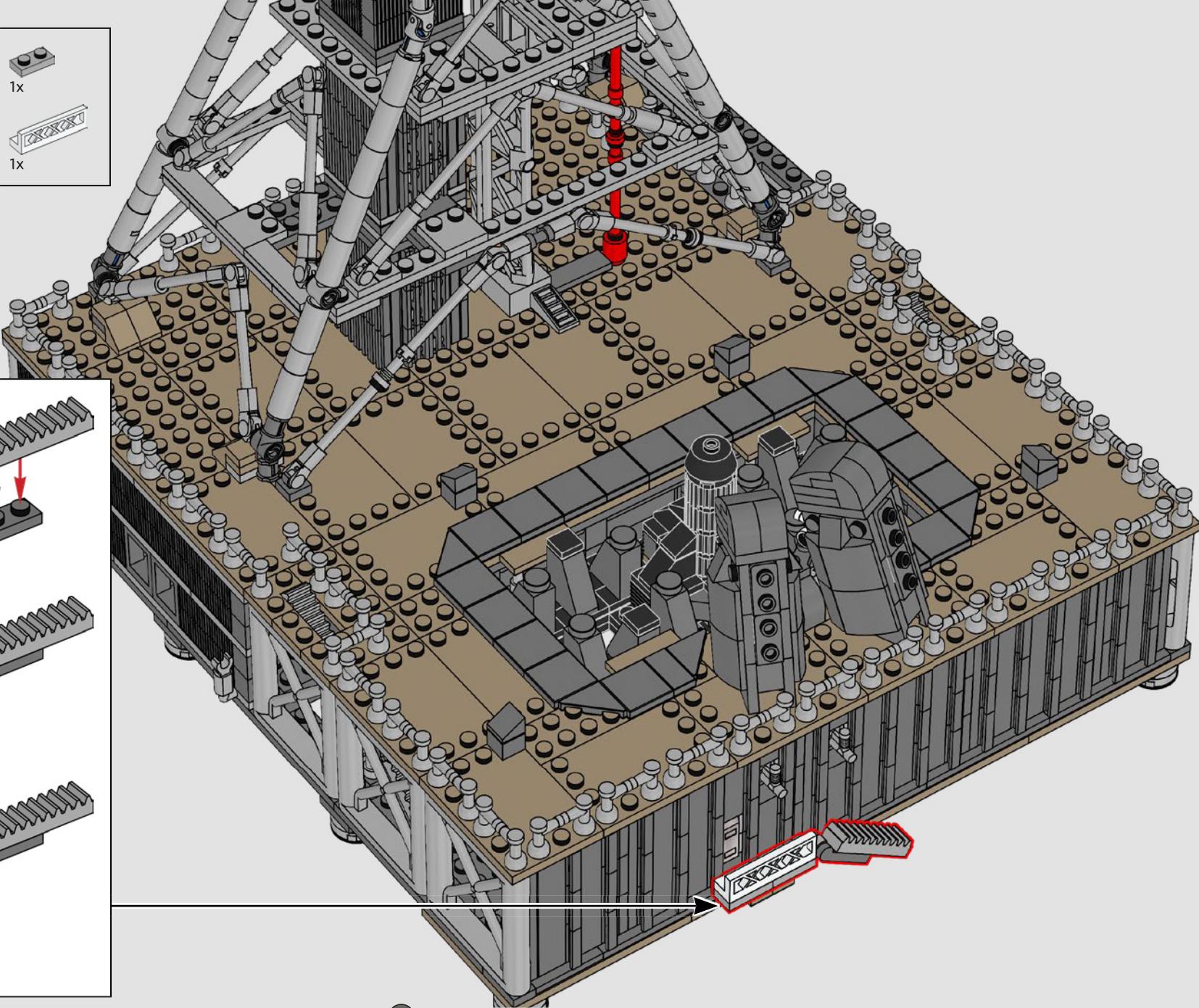
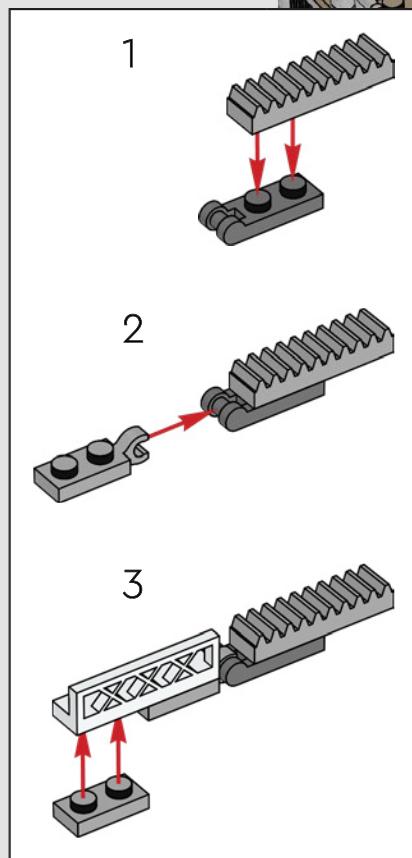
7

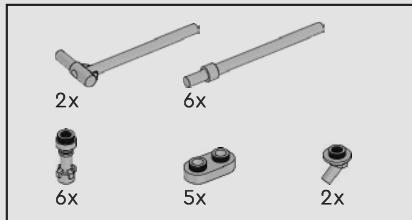




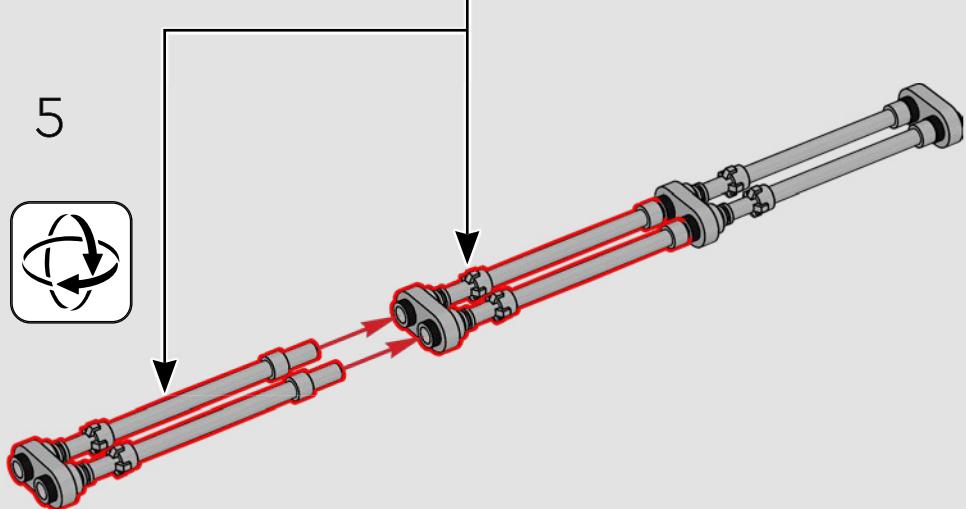
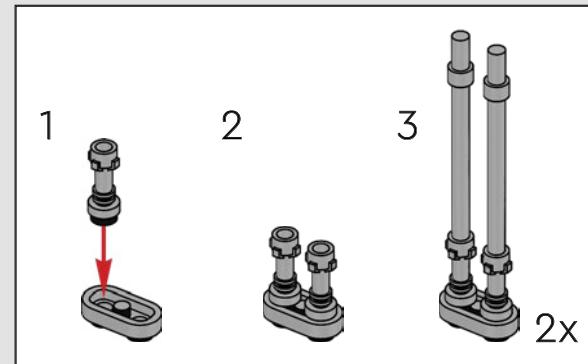
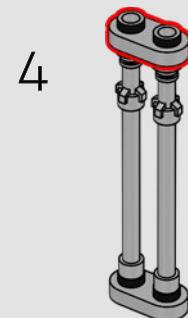
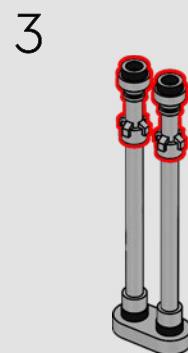
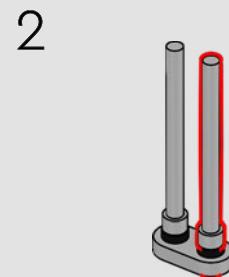
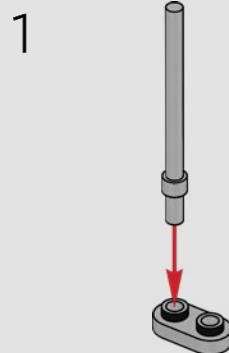


428

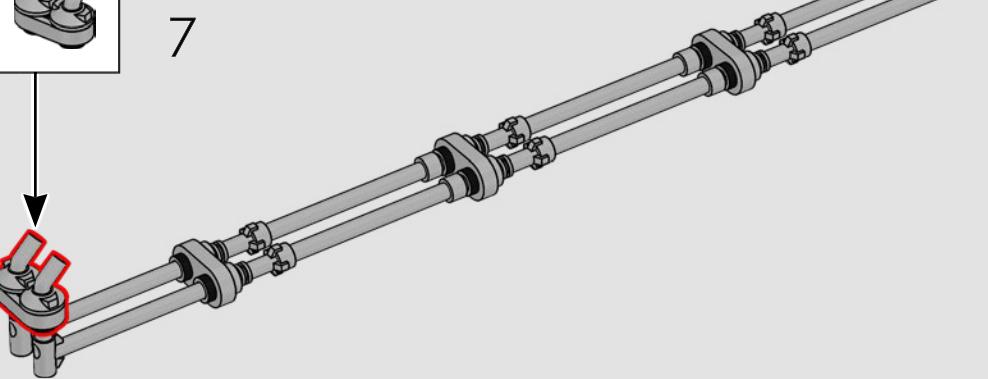
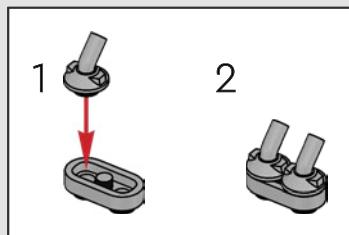
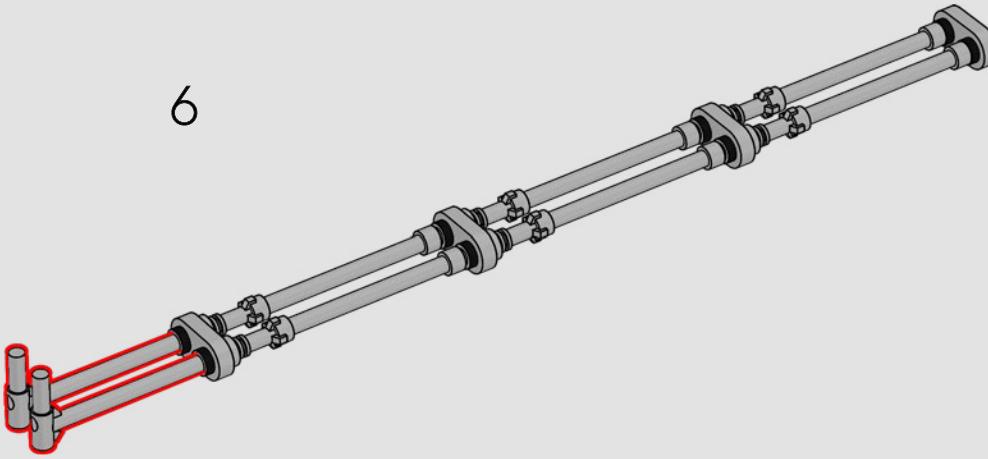


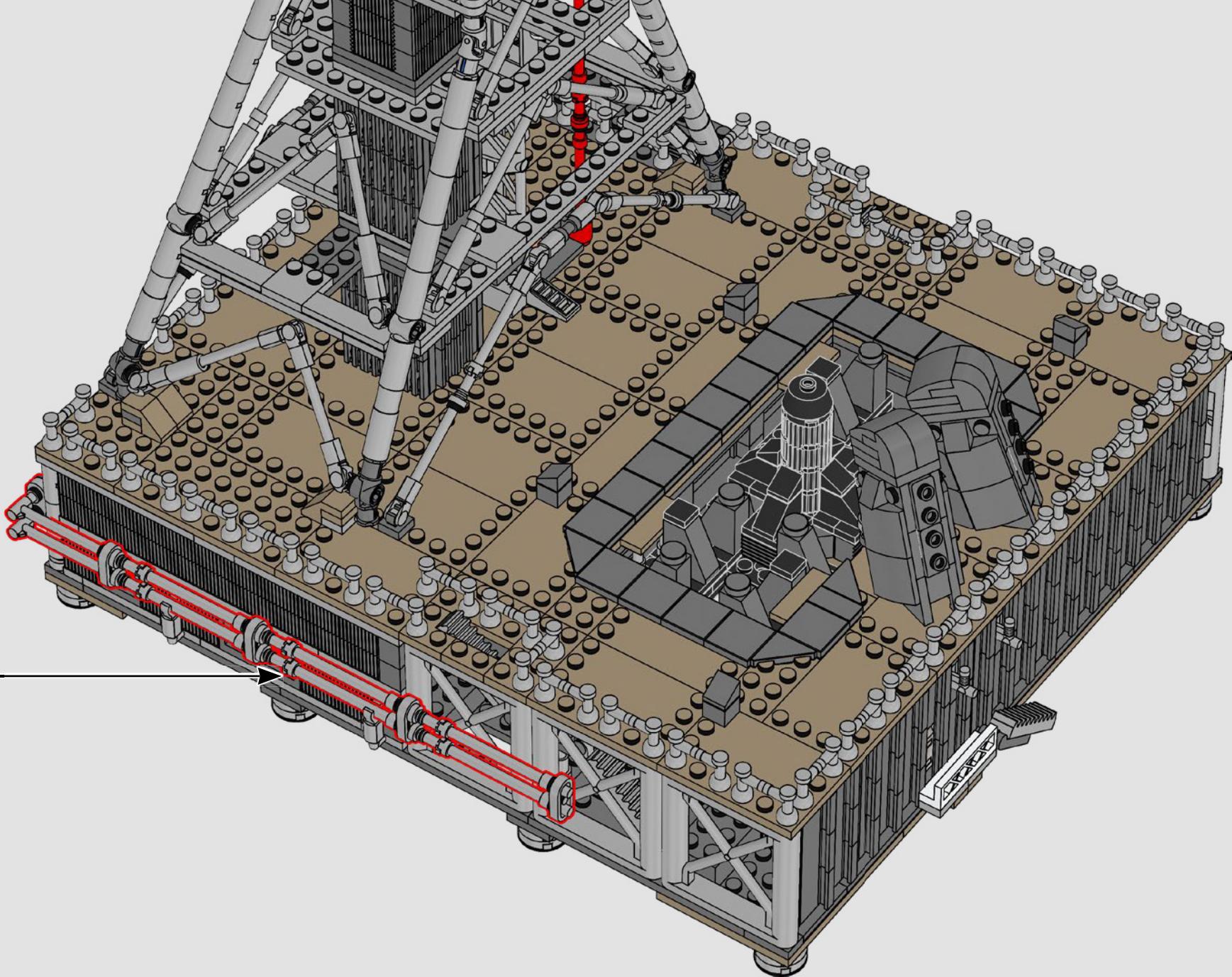


429



6







1x

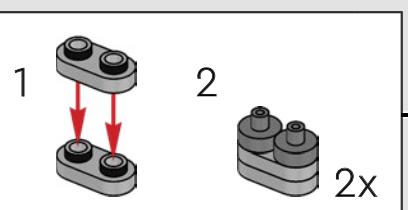
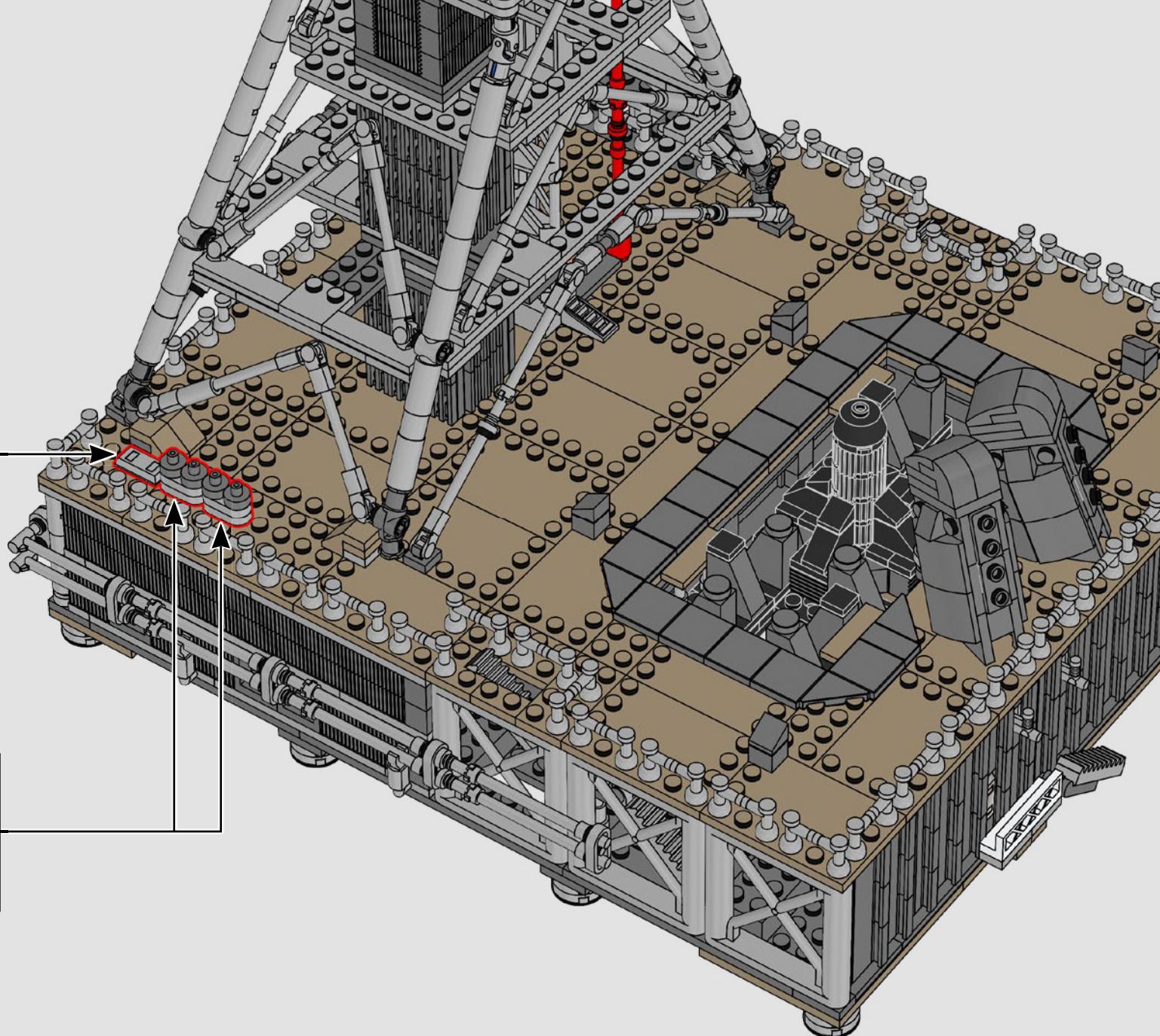
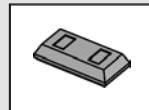


4x



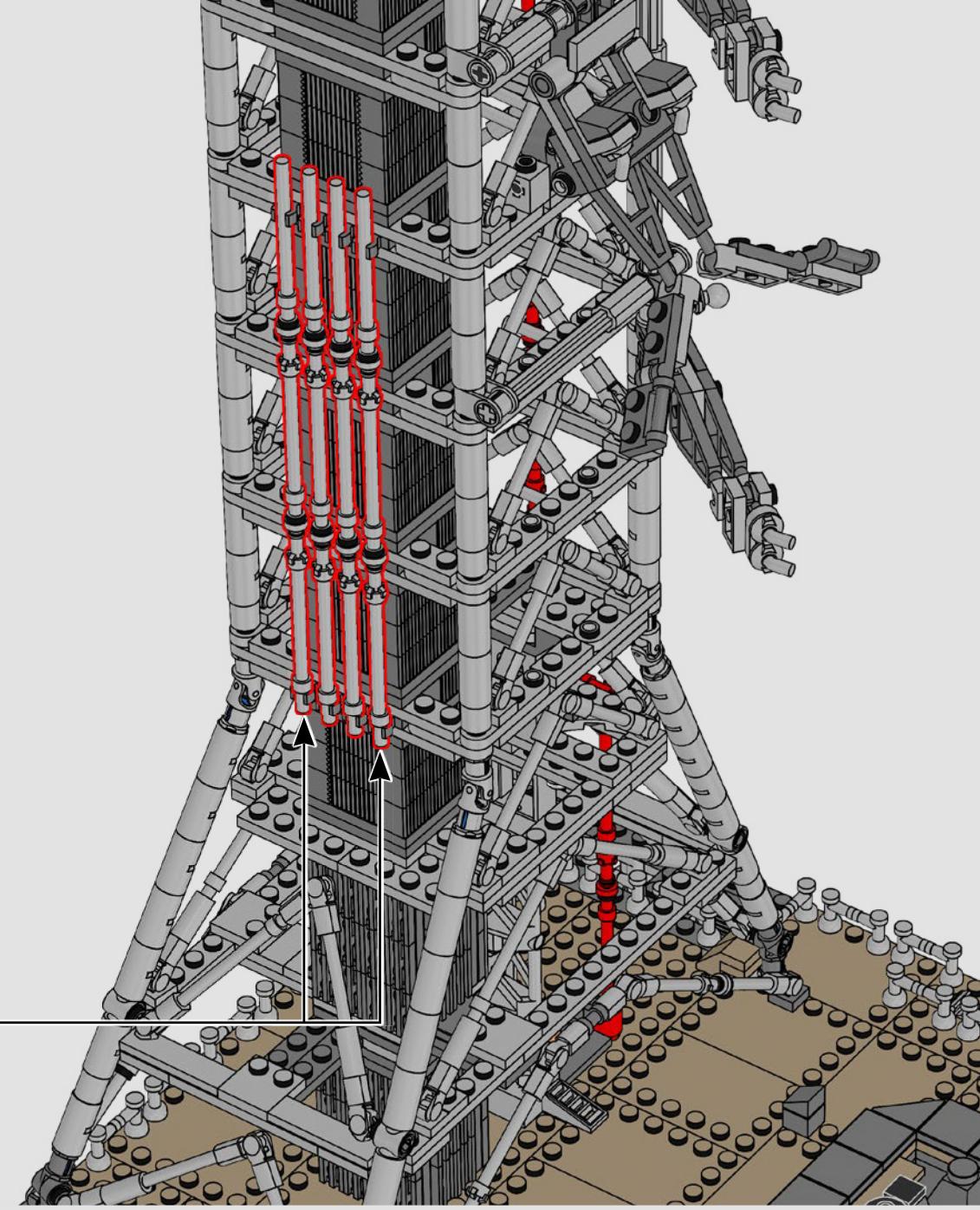
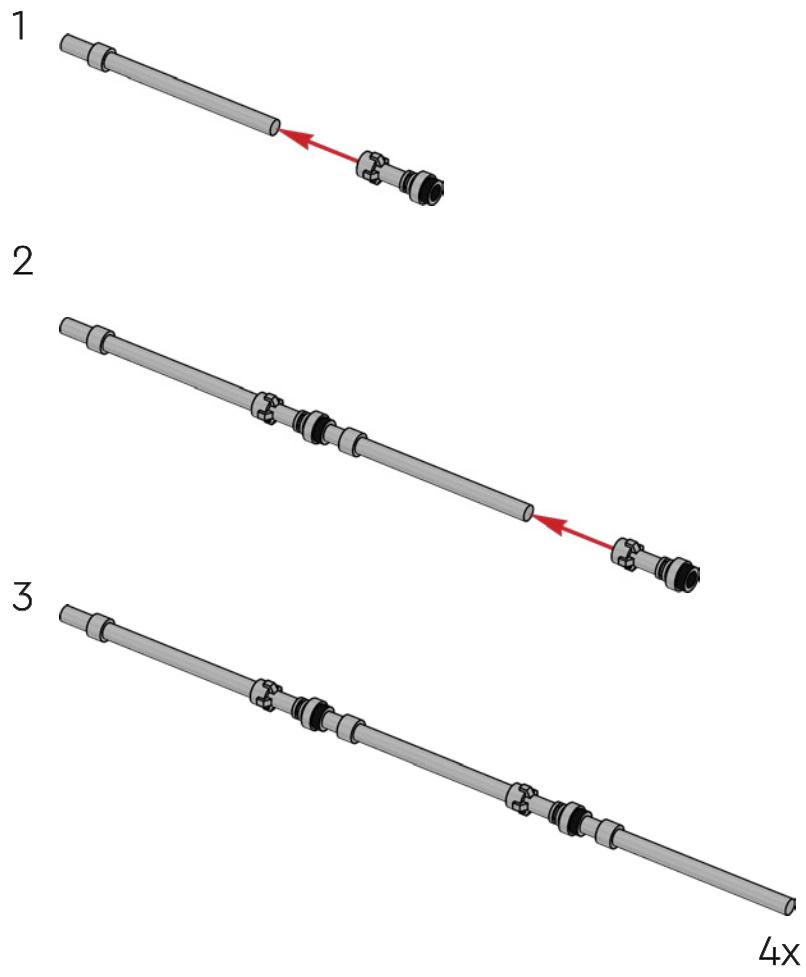
4x

430



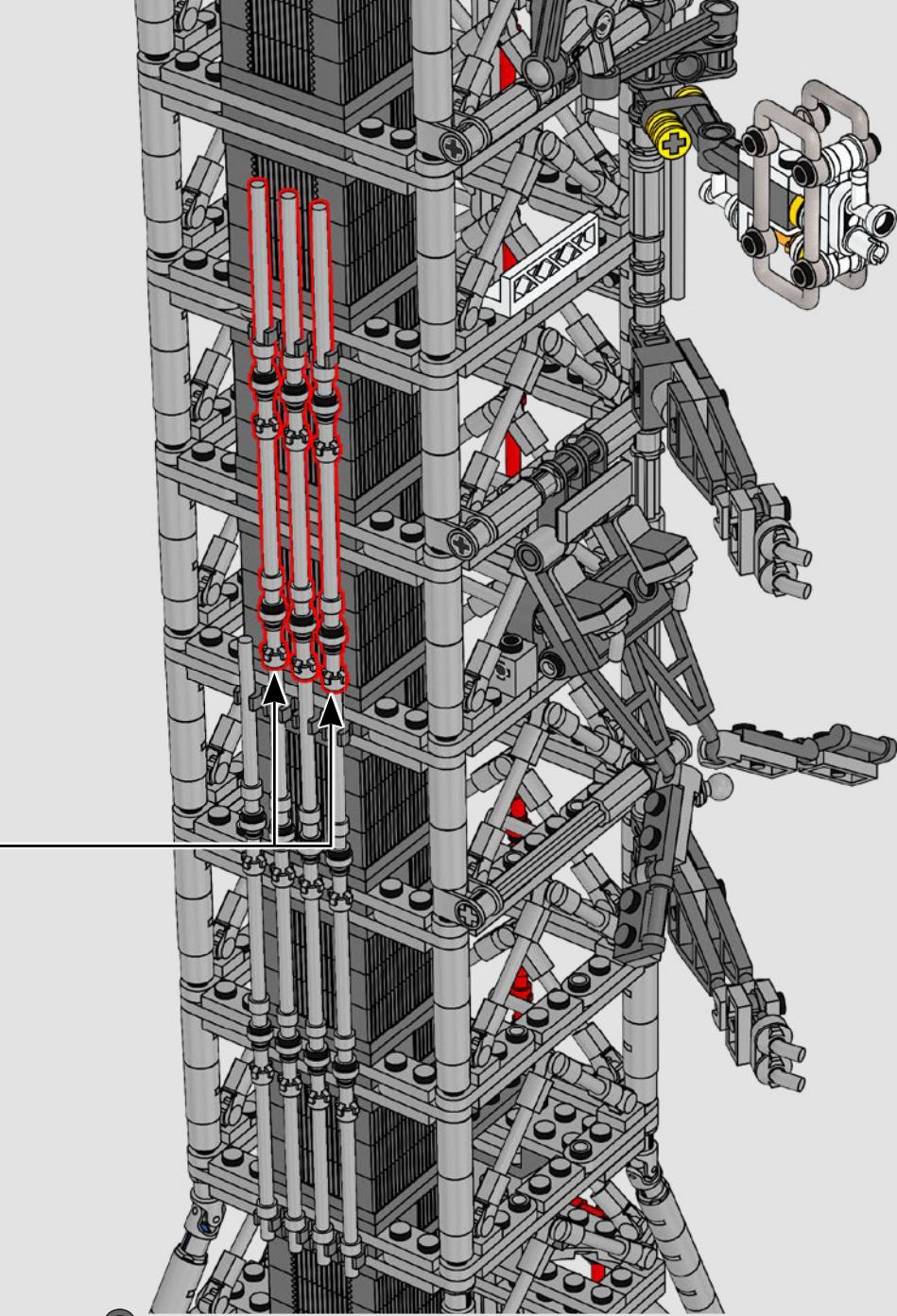
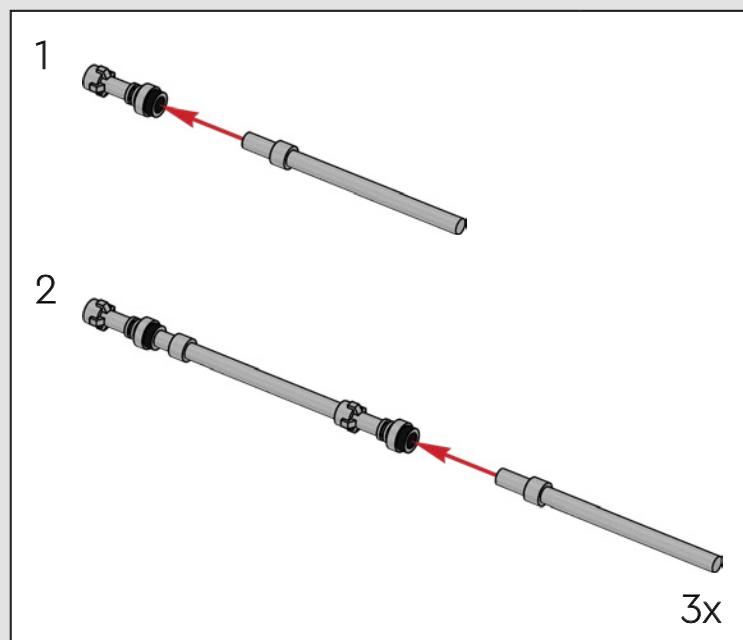


431



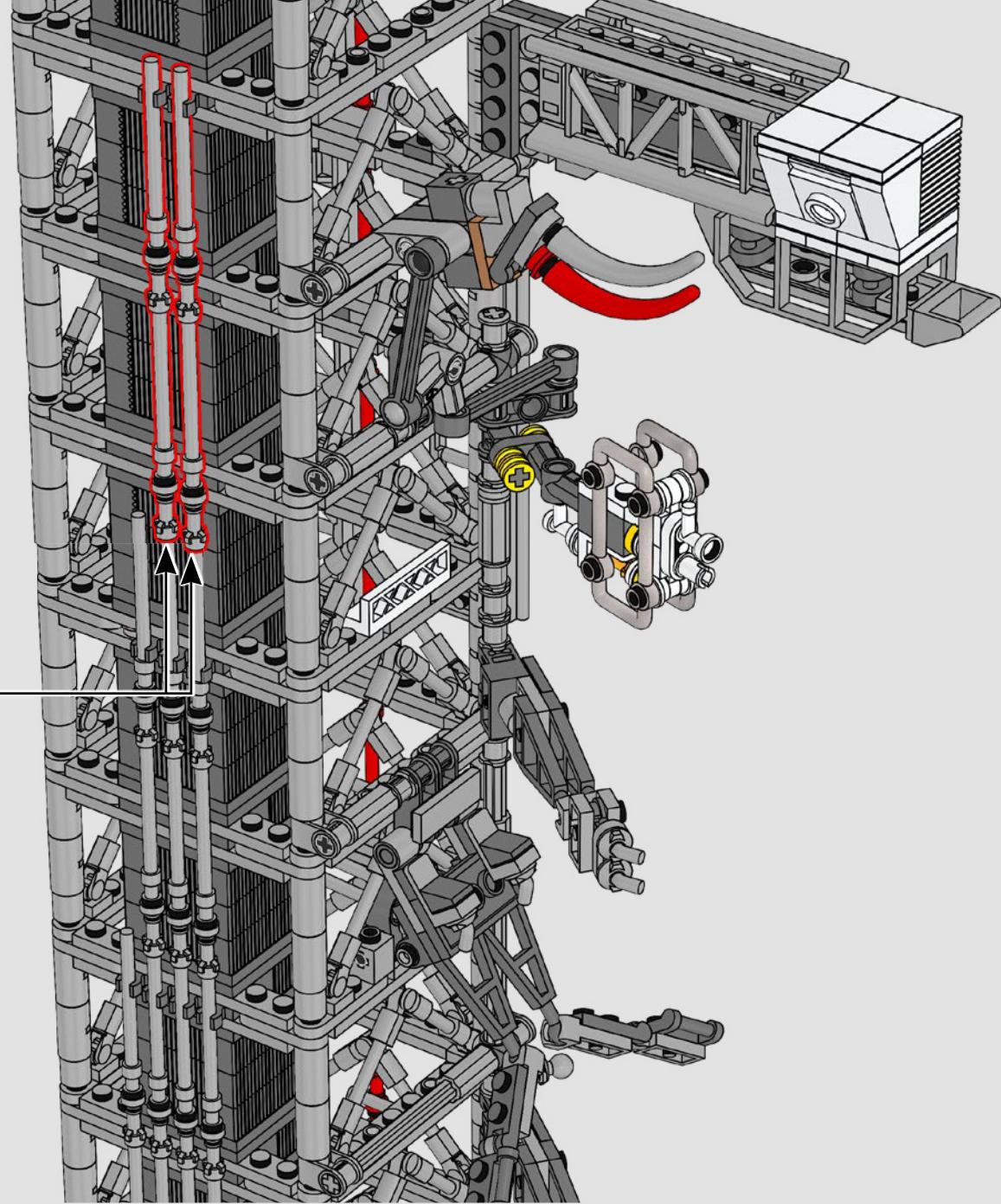
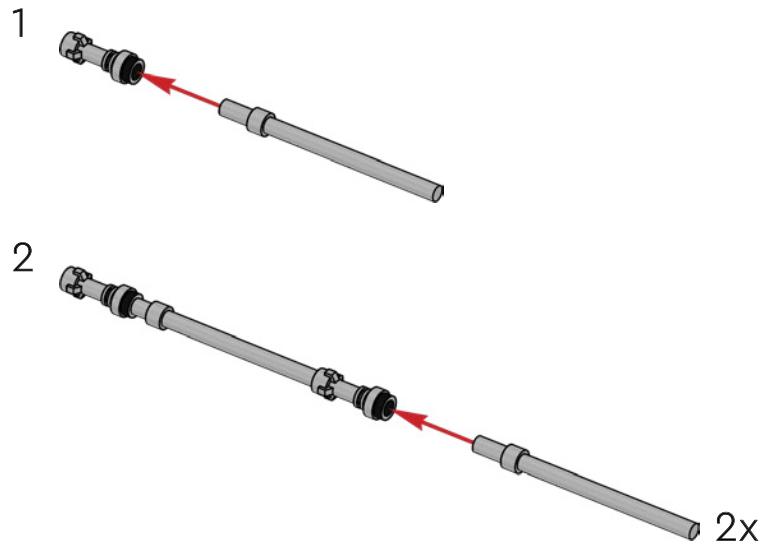


432





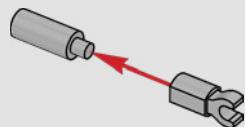
433



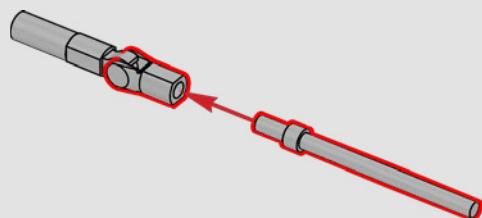


434

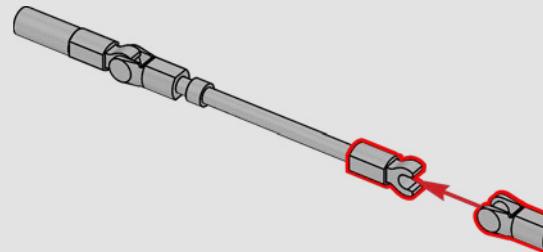
1



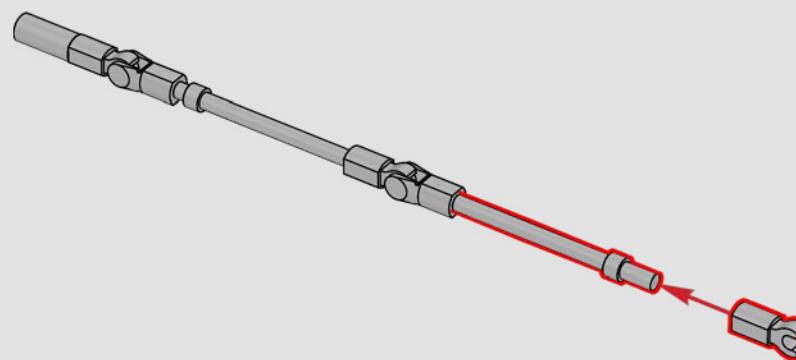
2



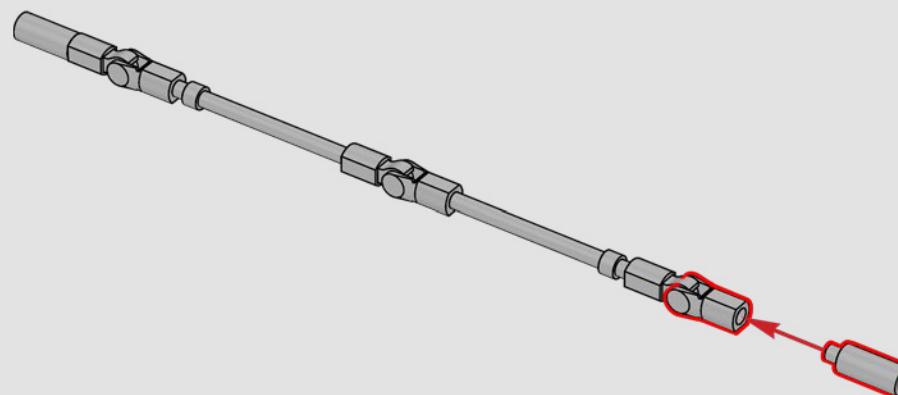
3



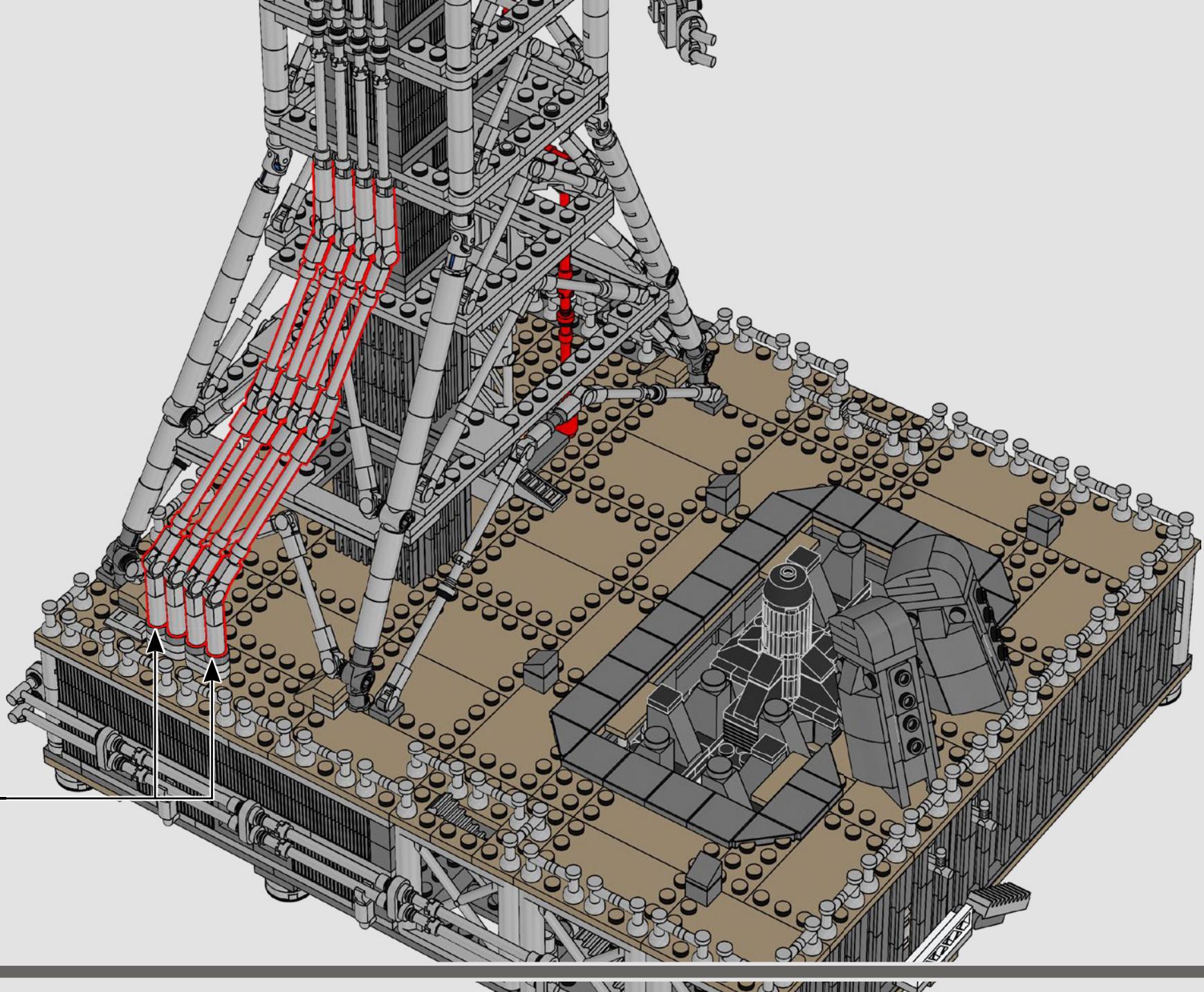
4



5

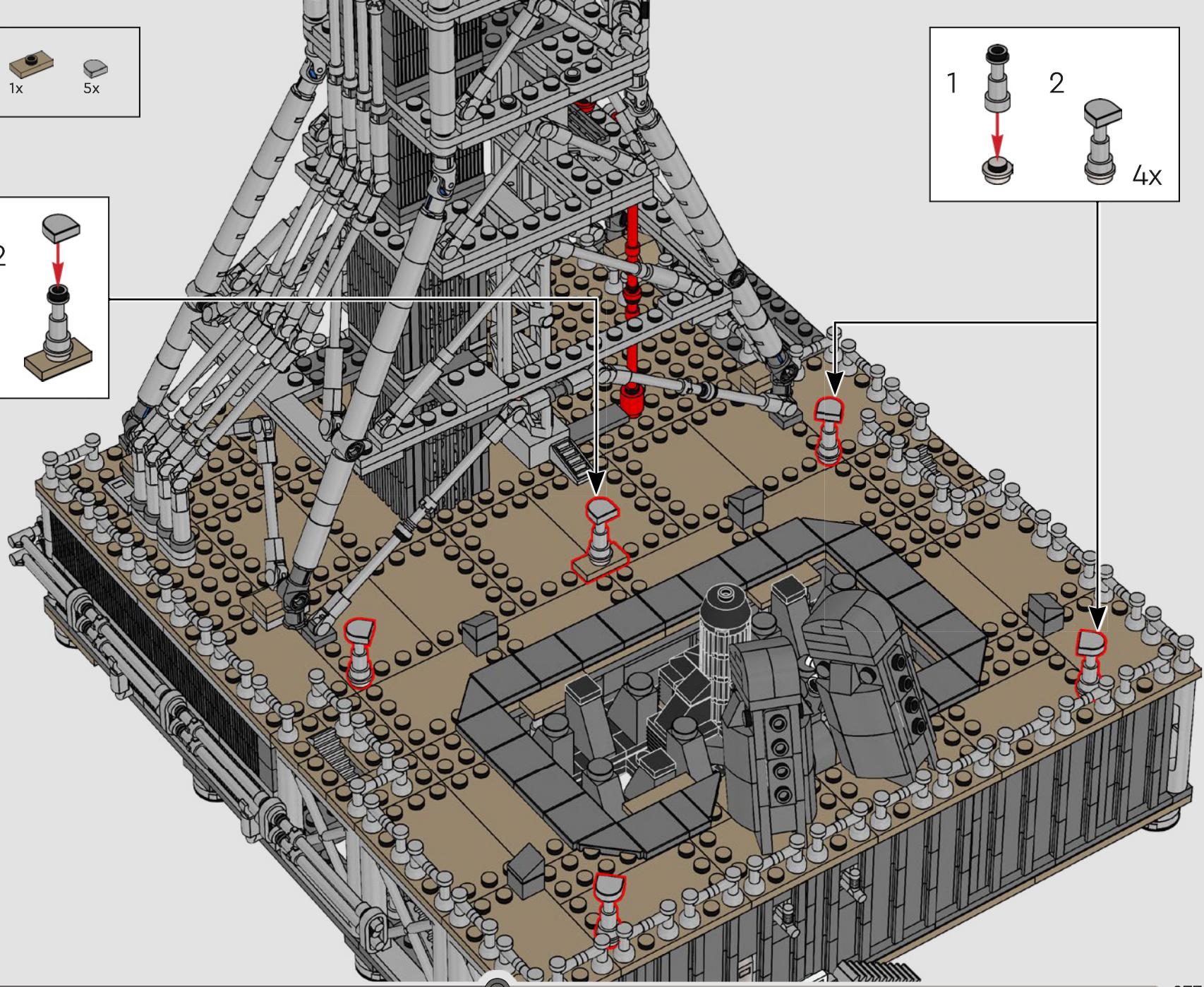


4X



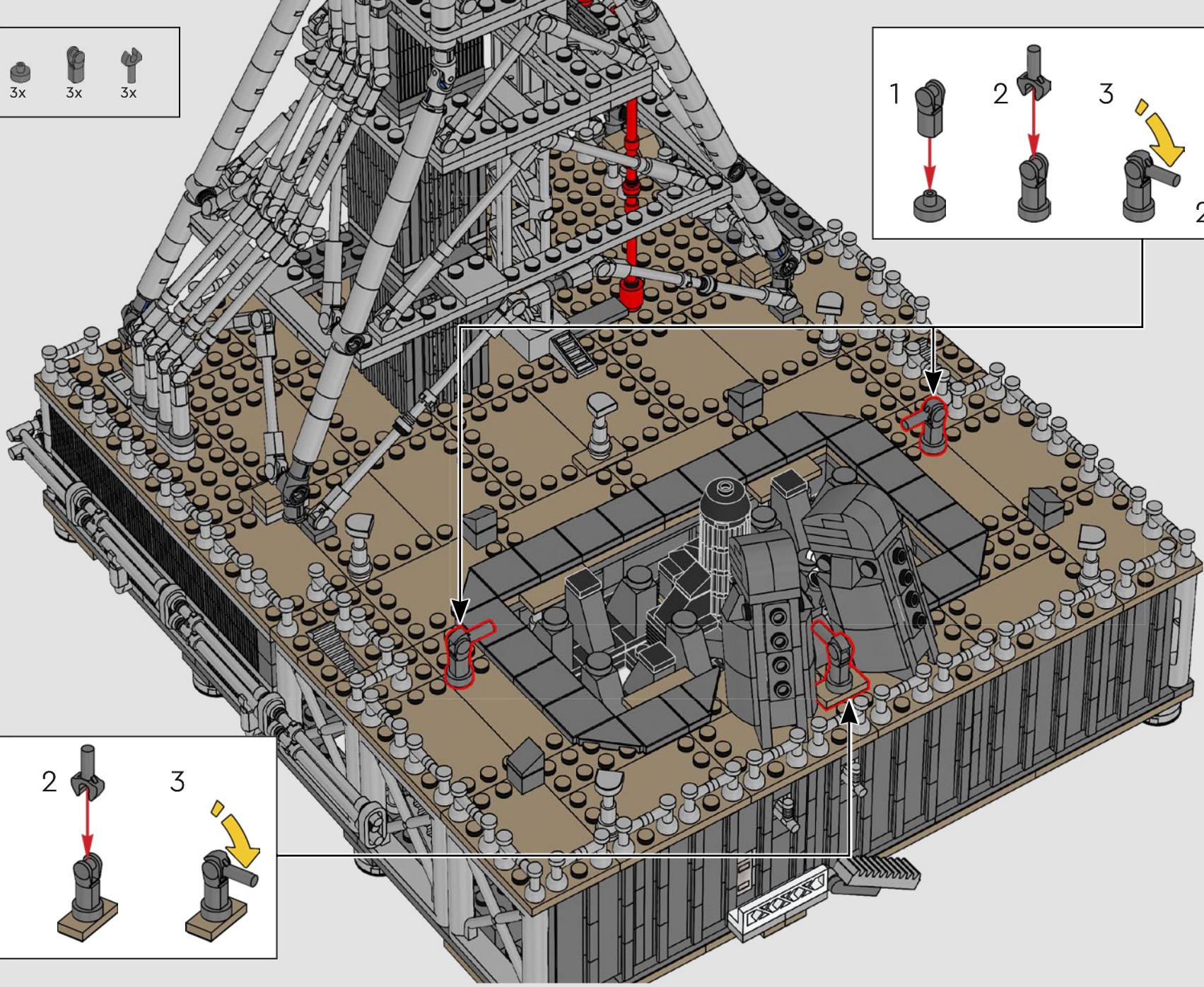


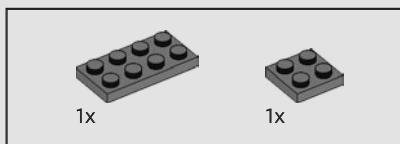
435



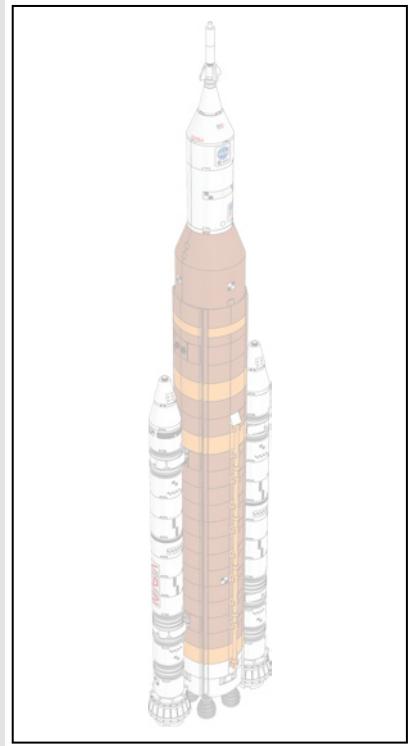
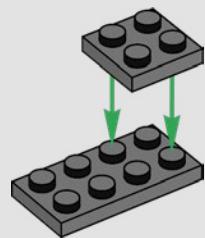


436

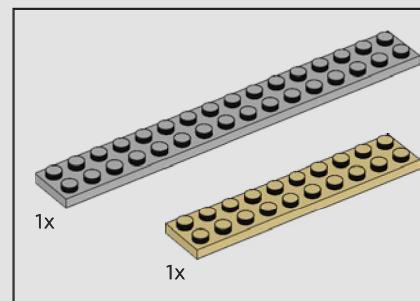
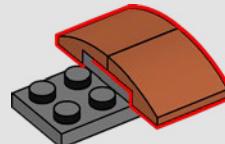




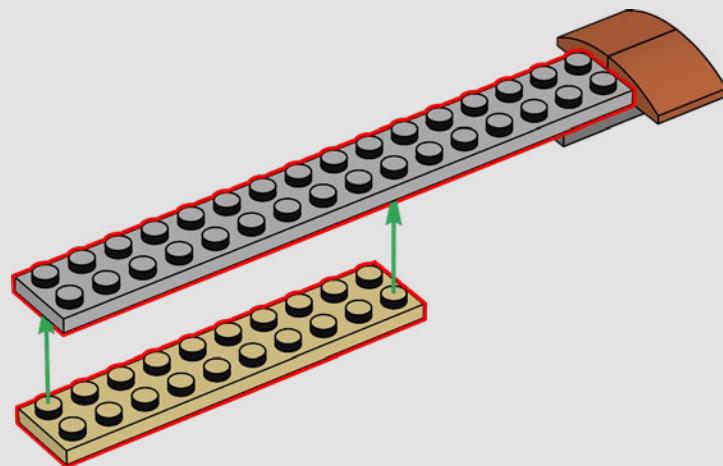
437

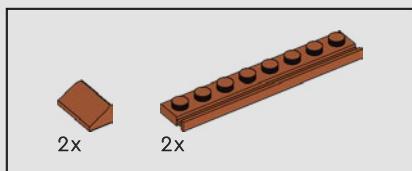


438

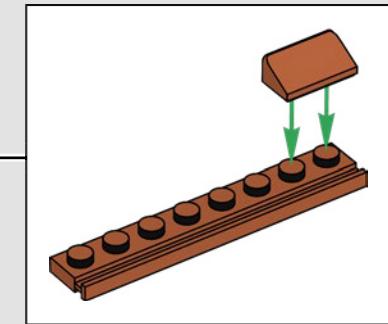
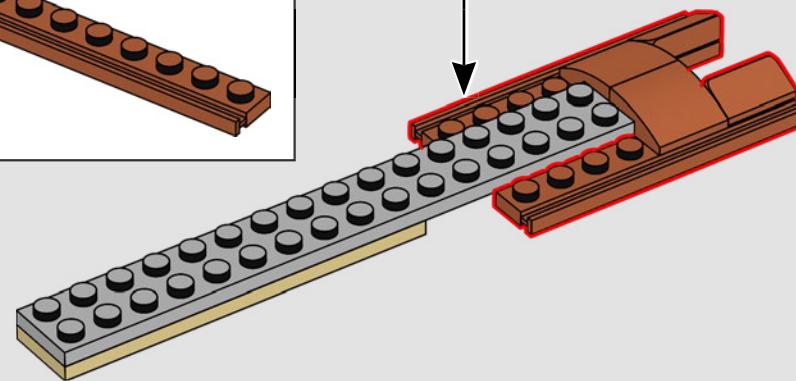
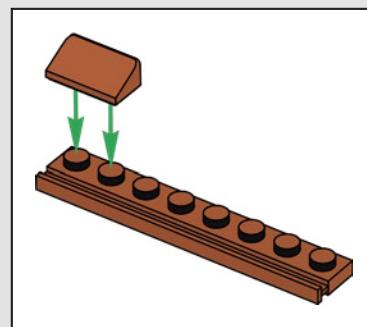


439

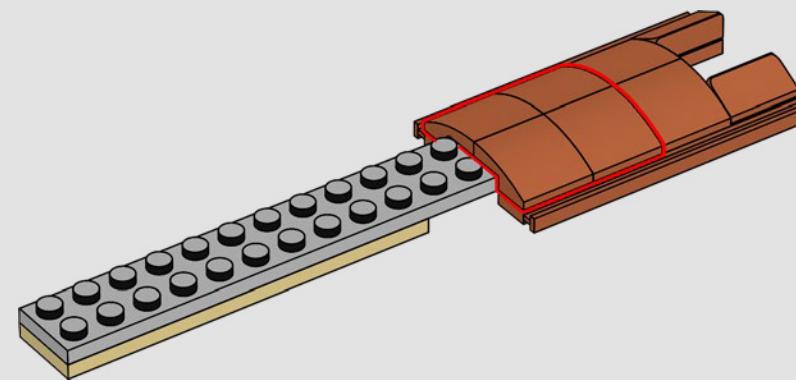


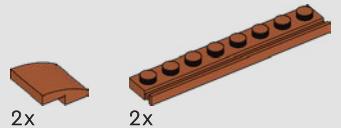


440

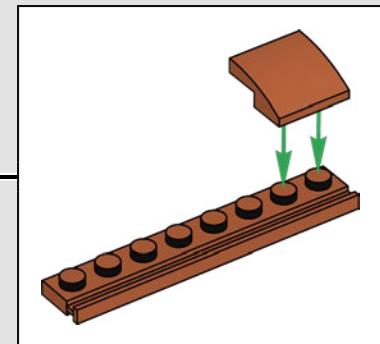
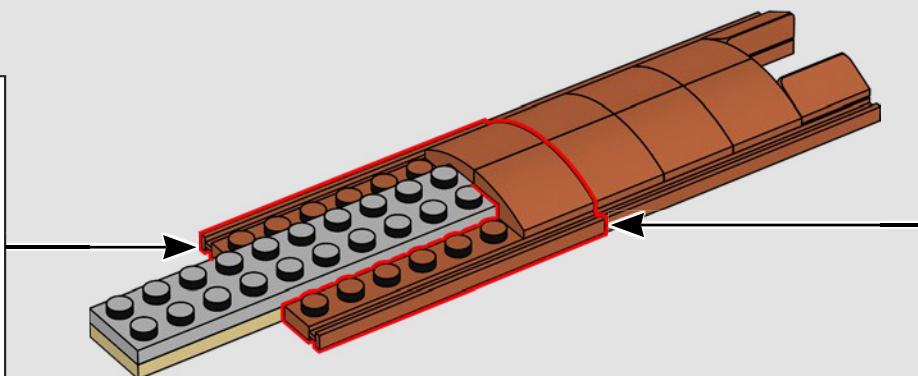
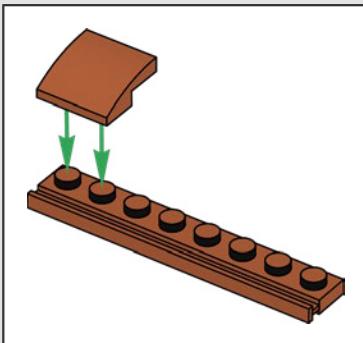


441

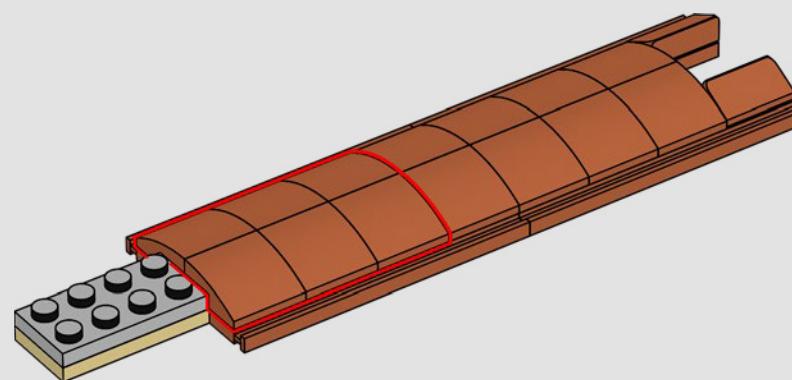


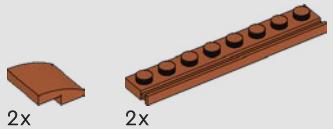


442

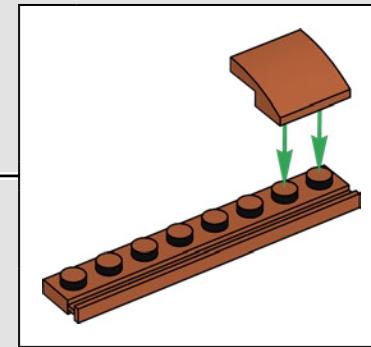
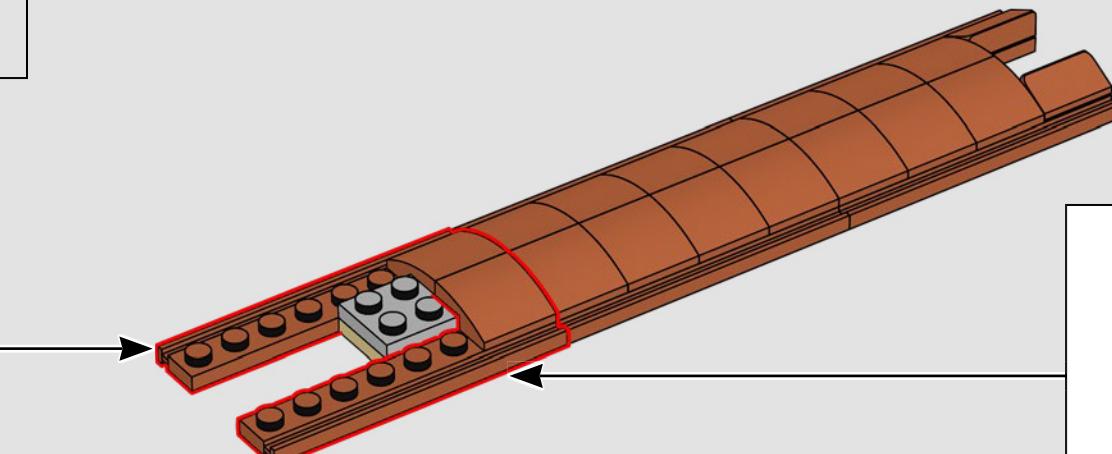
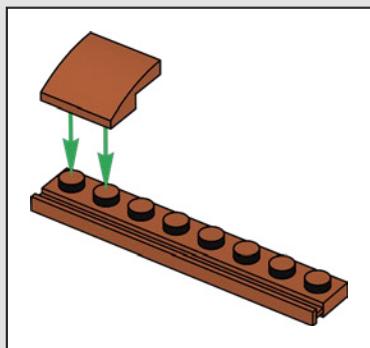


443

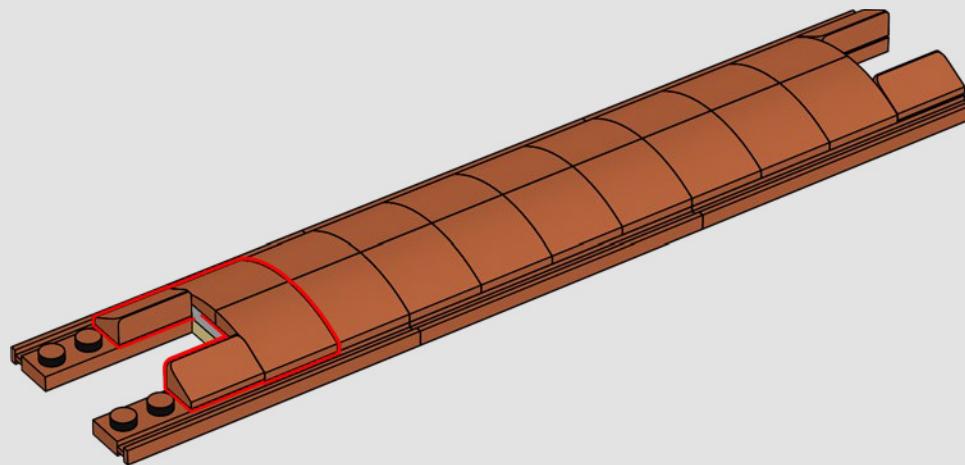


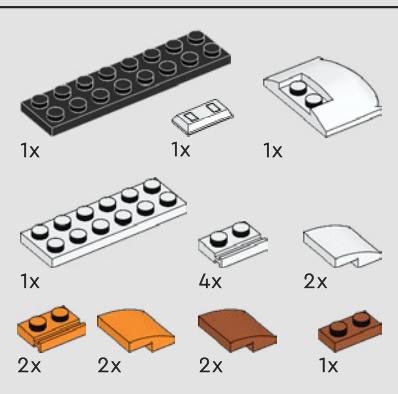
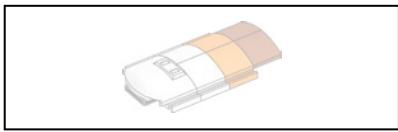


444

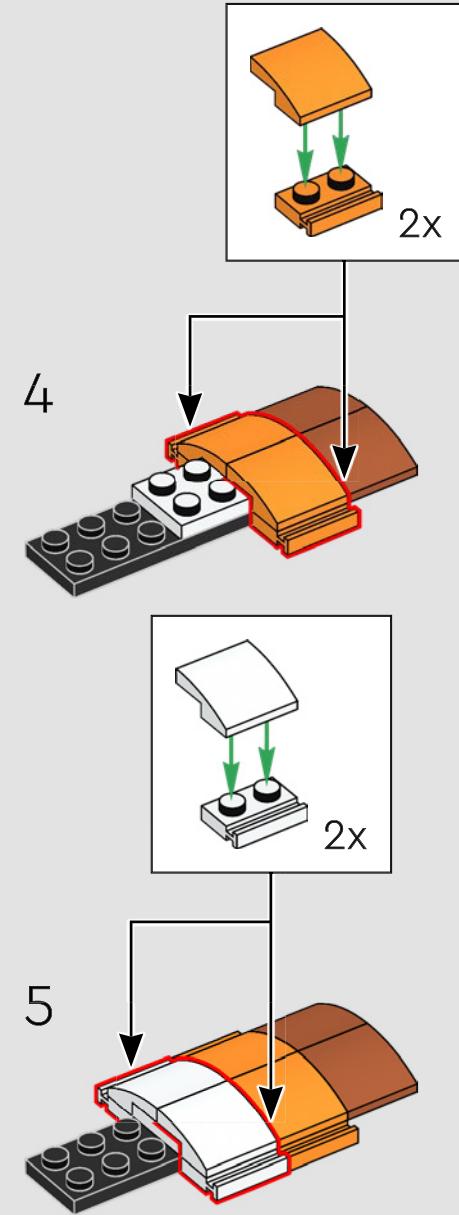
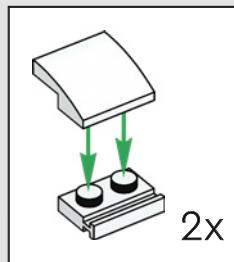
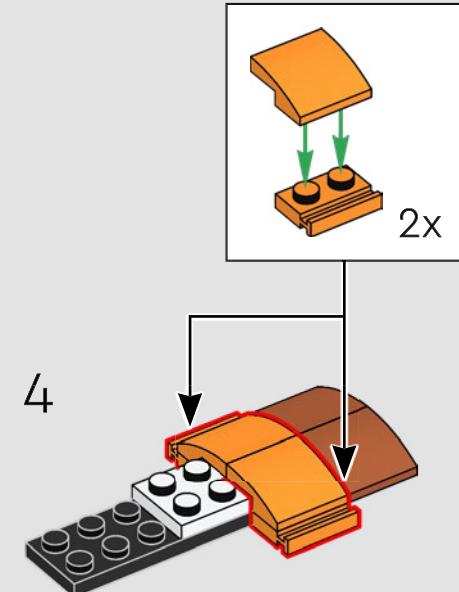
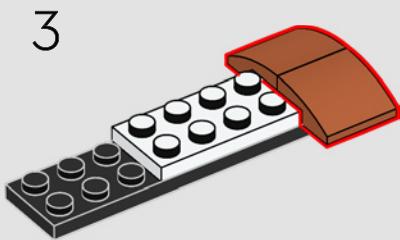
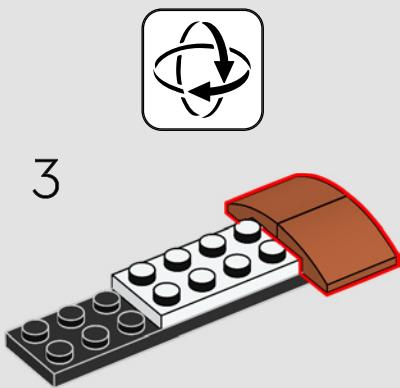
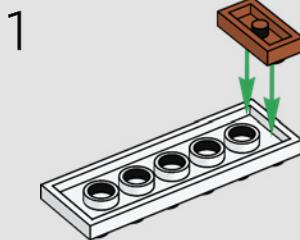


445

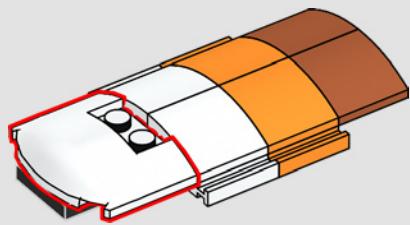




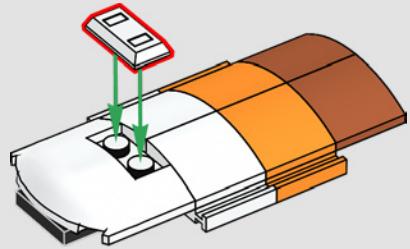
446



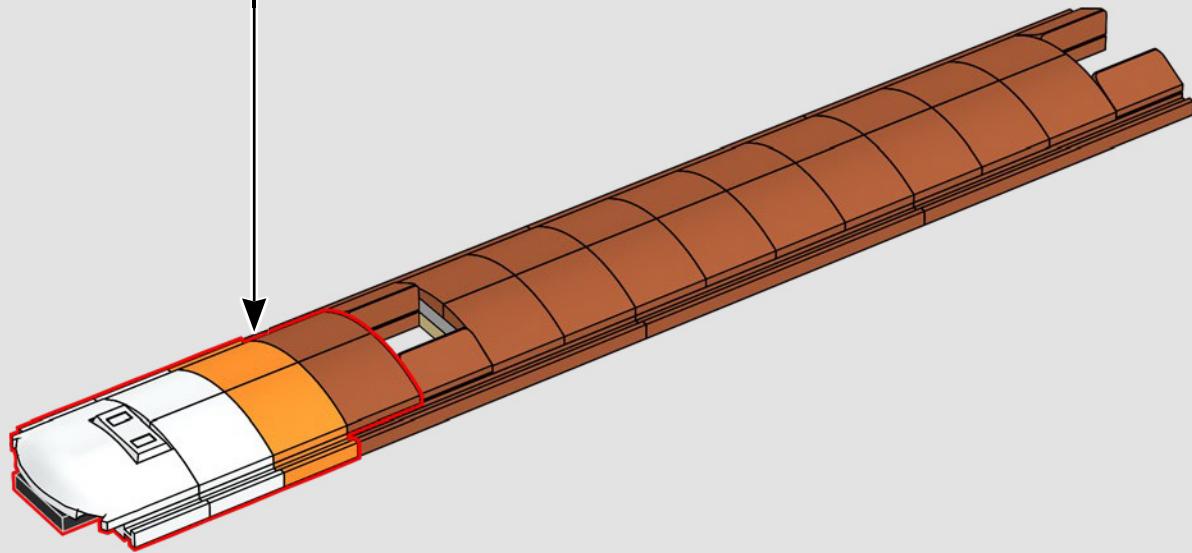
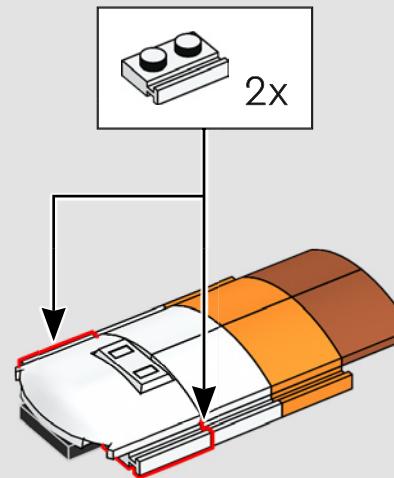
6

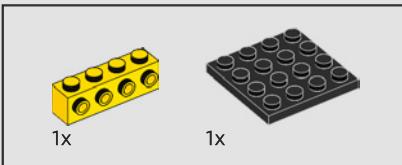
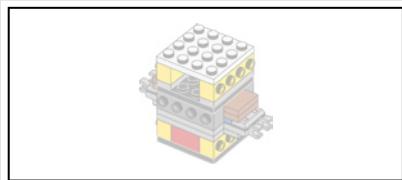


7

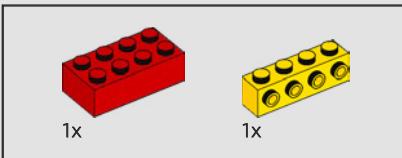
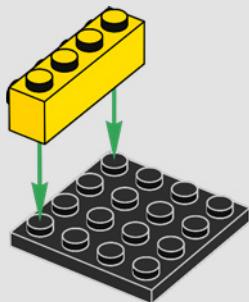


8

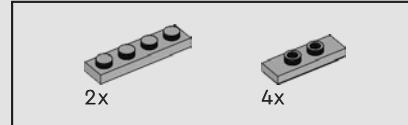
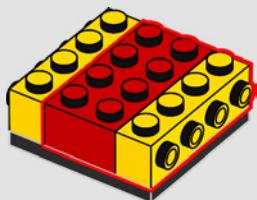




447



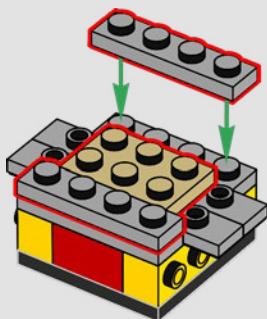
448



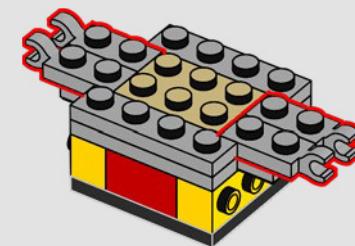
449



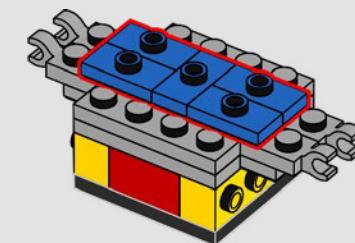
450



451

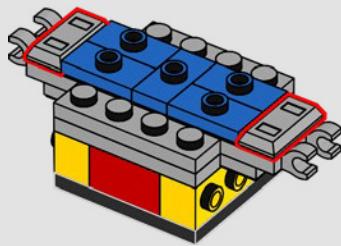


452

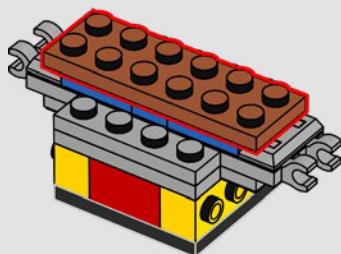




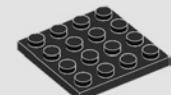
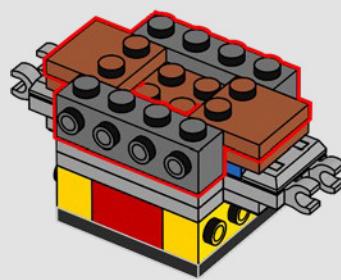
453



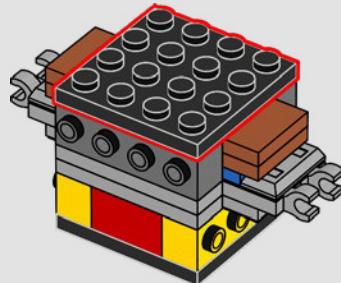
454



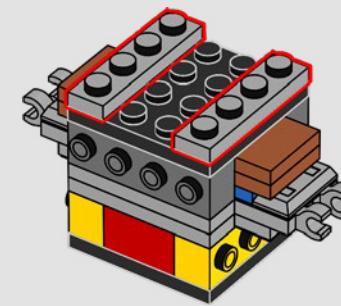
455



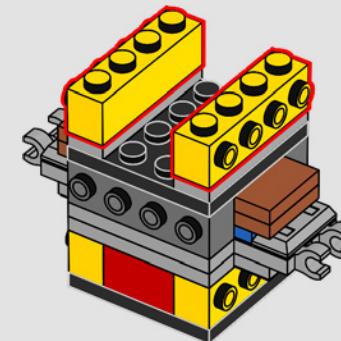
456



457



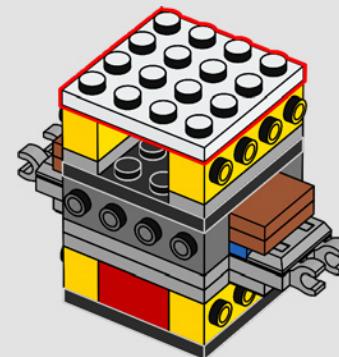
458



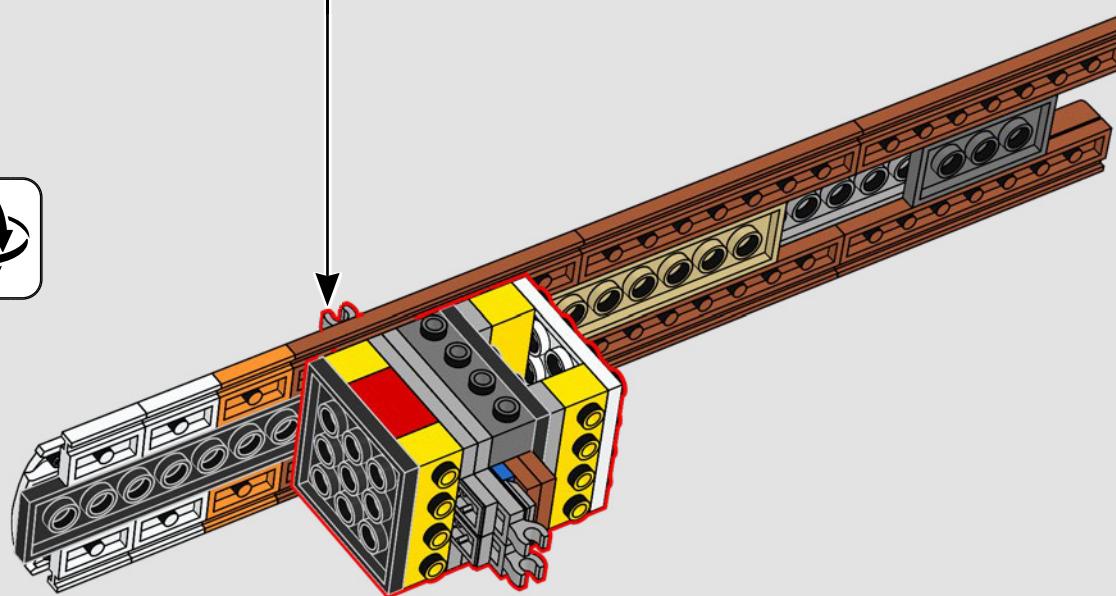


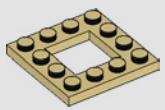
1x

459



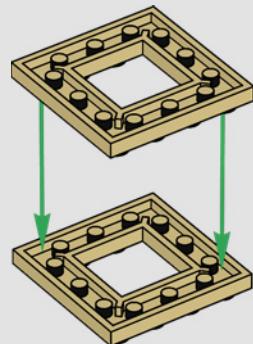
460





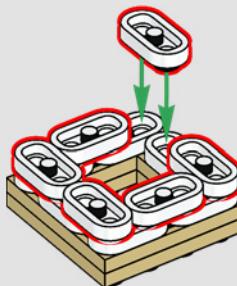
2x

461



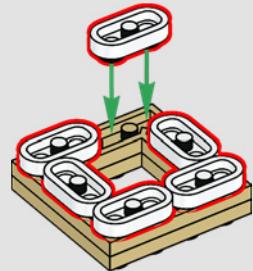
6x

463



6x

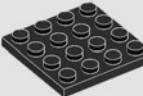
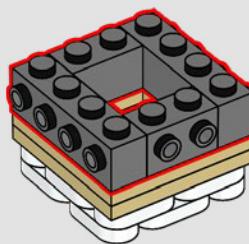
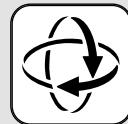
462



2x

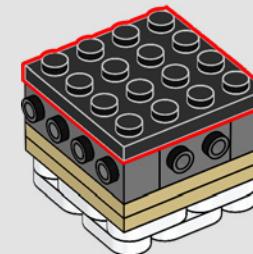
2x

464



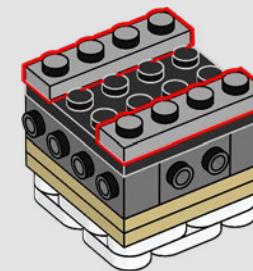
1x

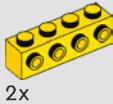
465



2x

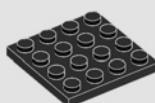
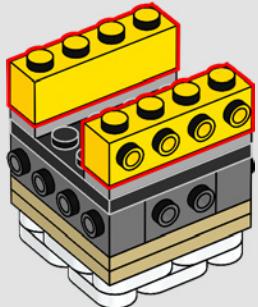
466





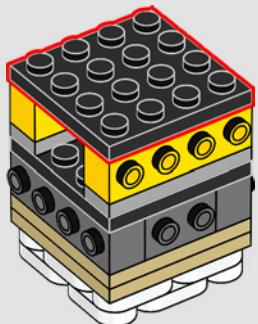
2x

467



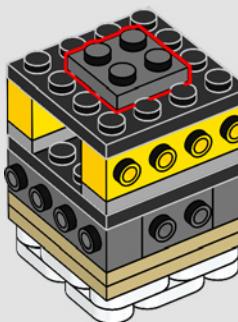
1x

468



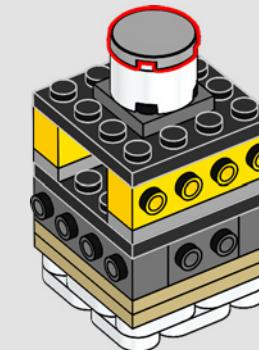
1x

469



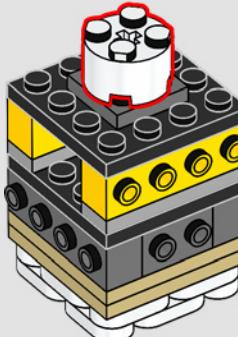
1x

471



1x

470



4x

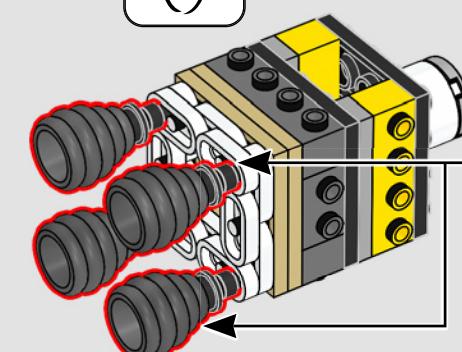
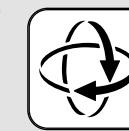


4x

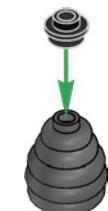


4x

472



1



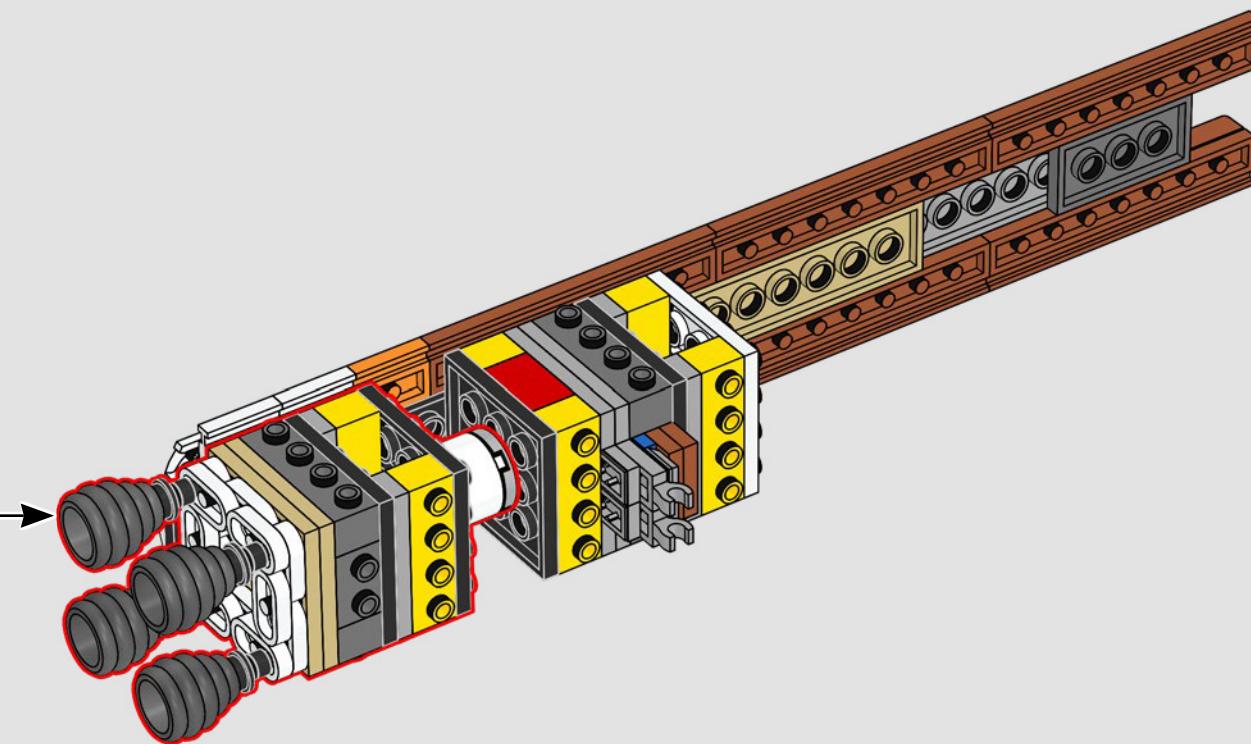
2

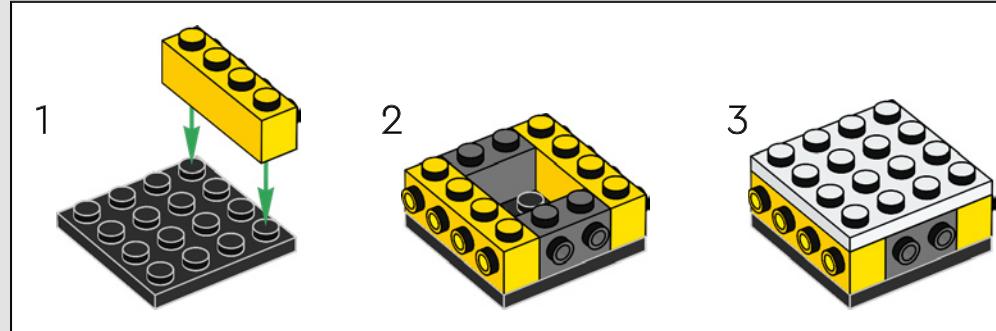
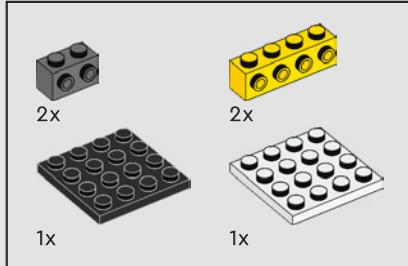


4x

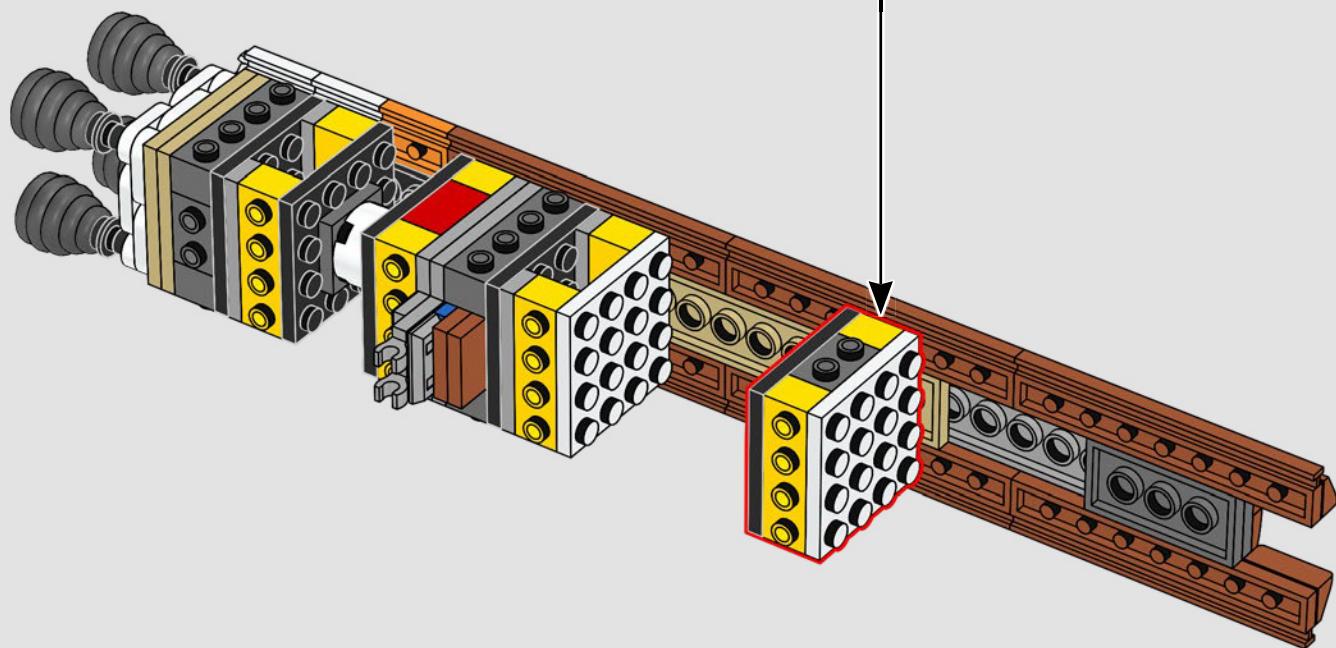
The LEGO® element used for the main engine nozzles was originally meant to depict a beehive but is called 'Mini hat no. 54'.

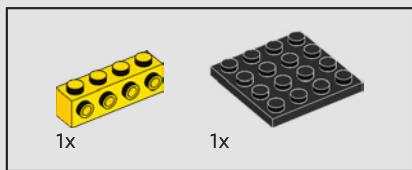
473



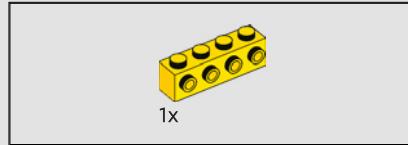
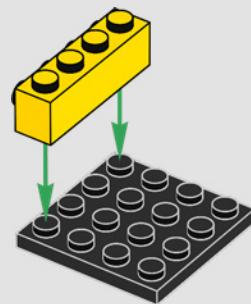


474

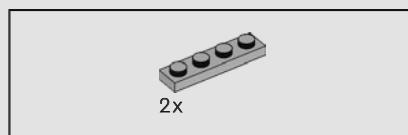
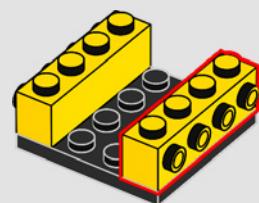




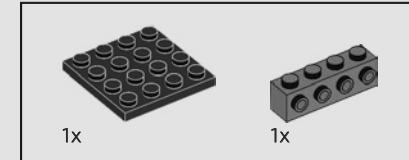
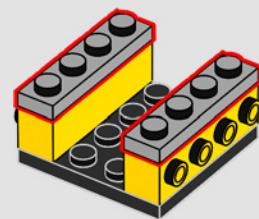
475



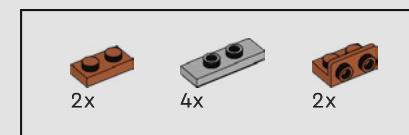
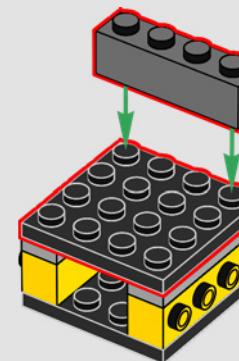
476



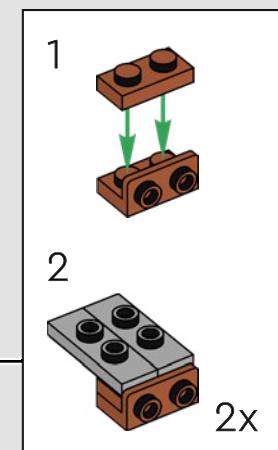
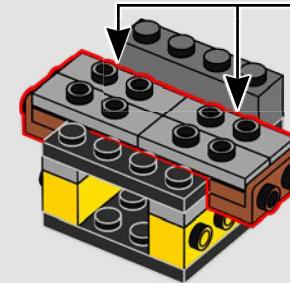
477

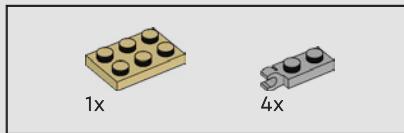


478

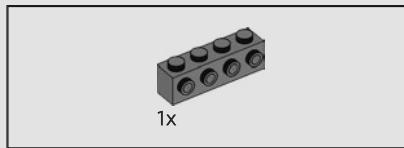
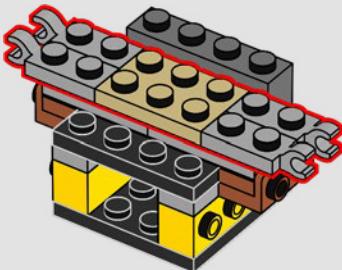


479

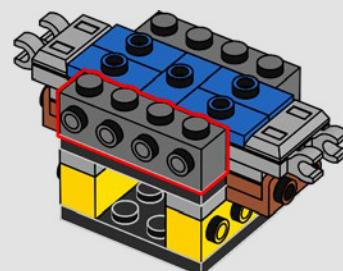




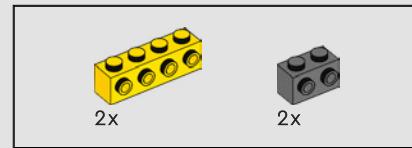
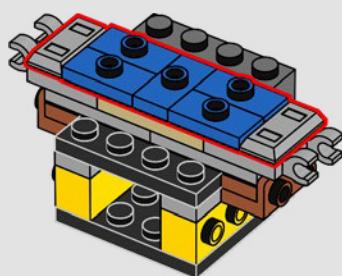
480



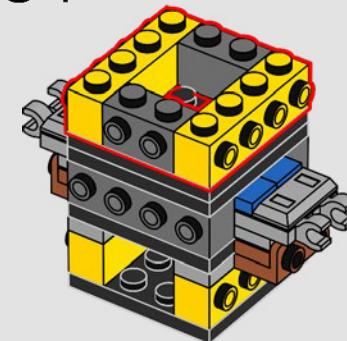
482



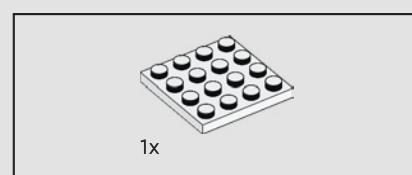
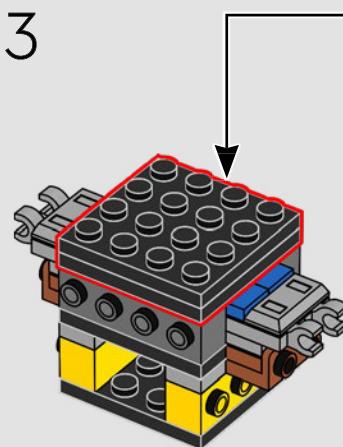
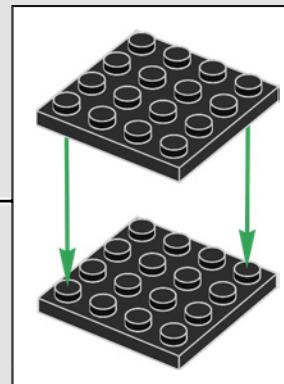
481



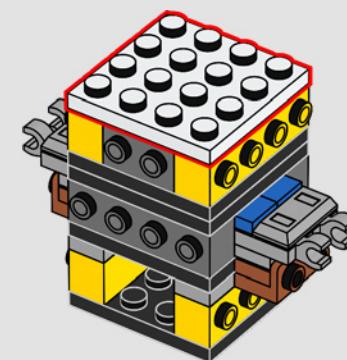
484



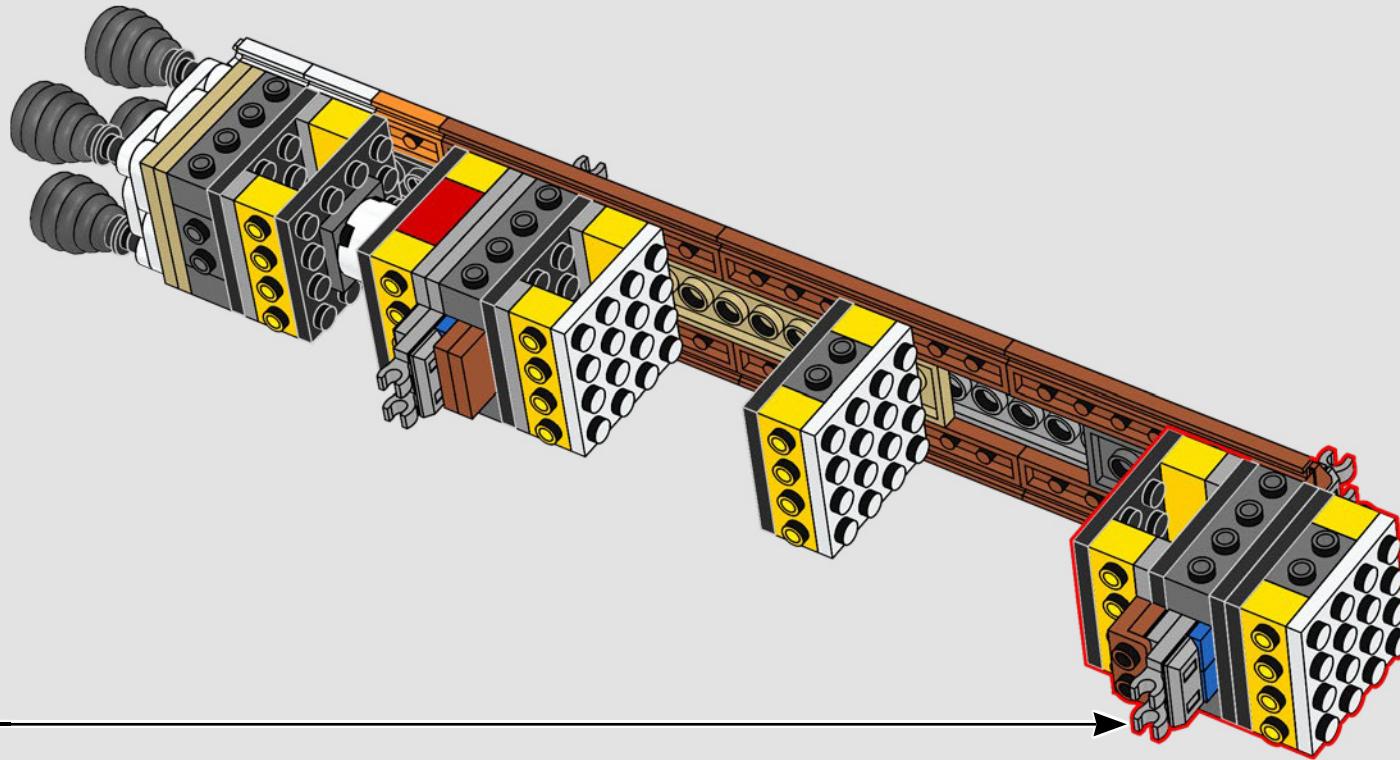
483

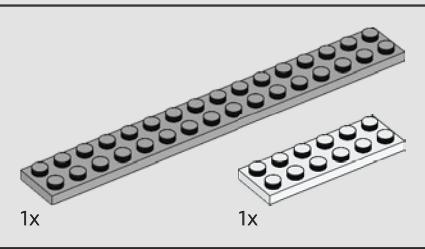
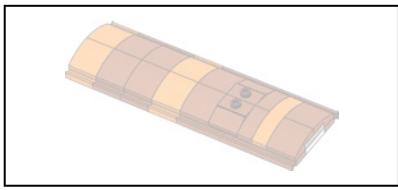


485

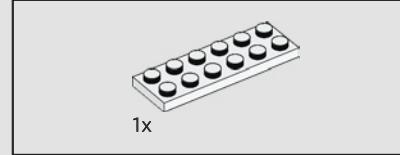
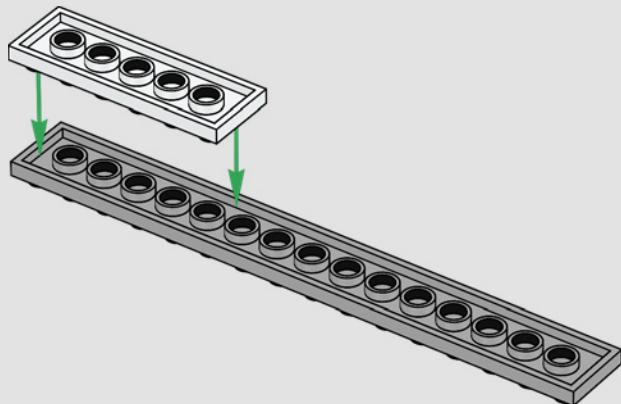


486

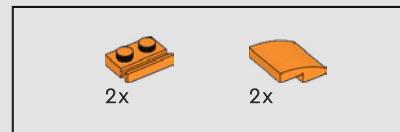
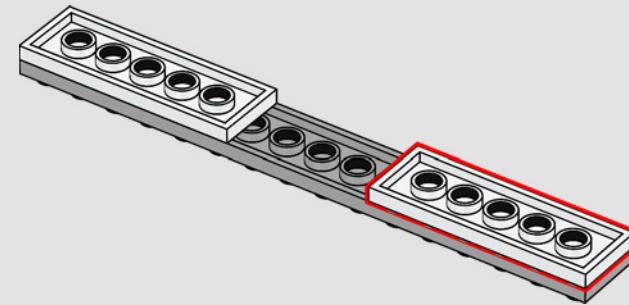




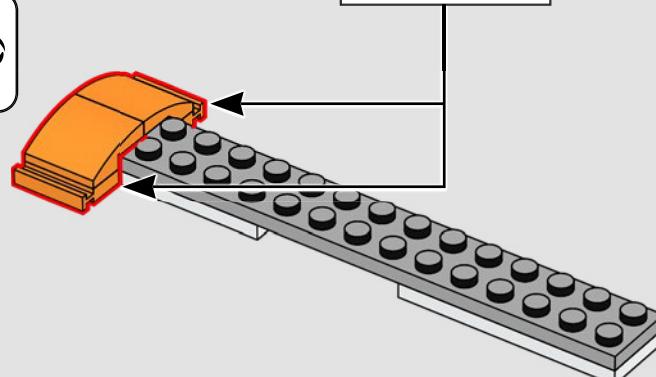
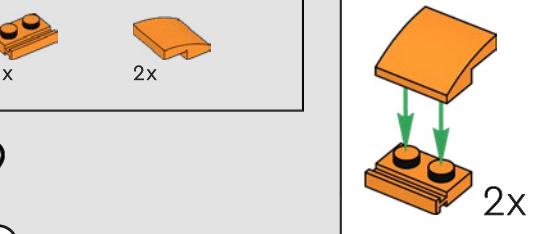
487



488

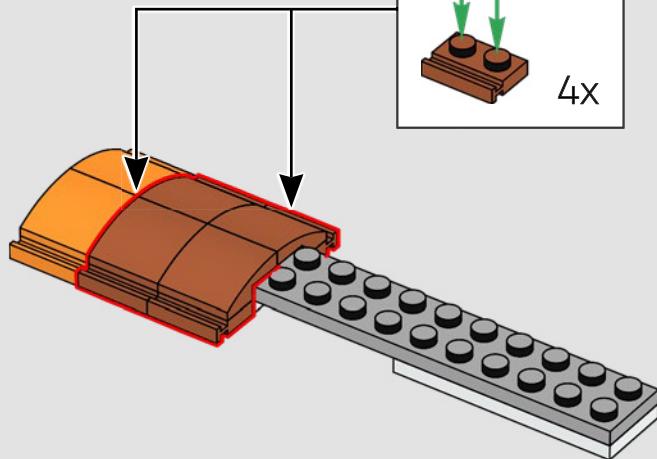


489

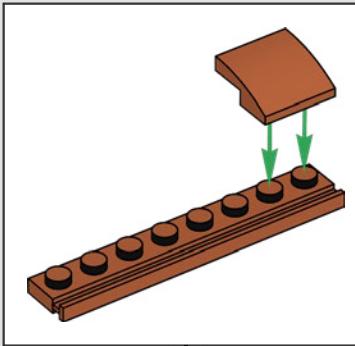




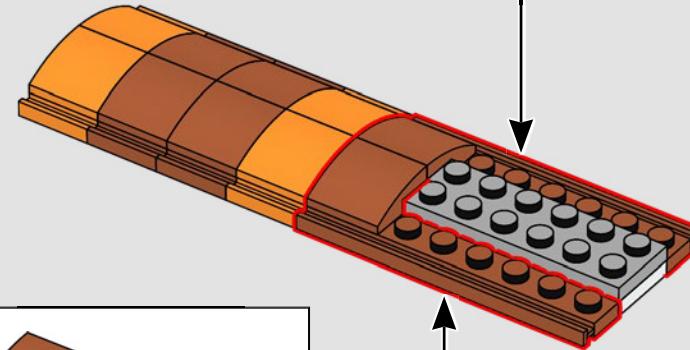
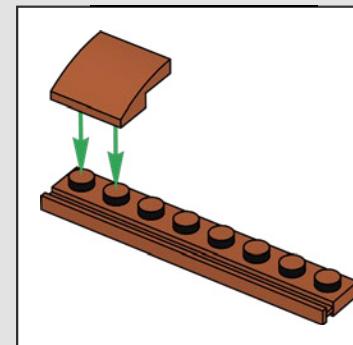
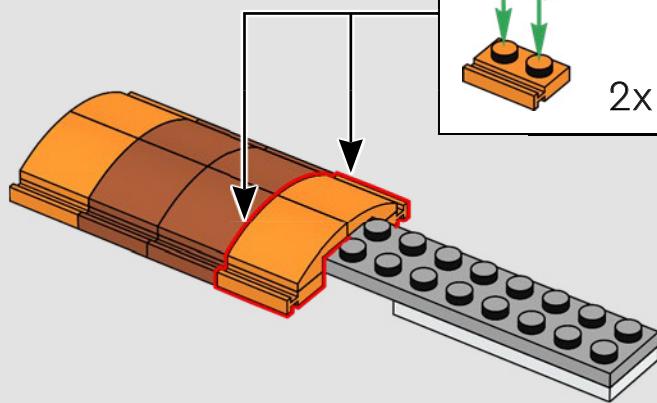
490

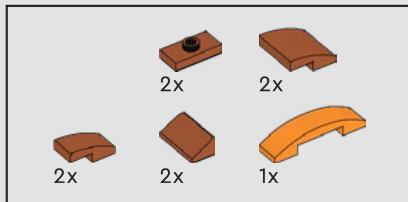


492

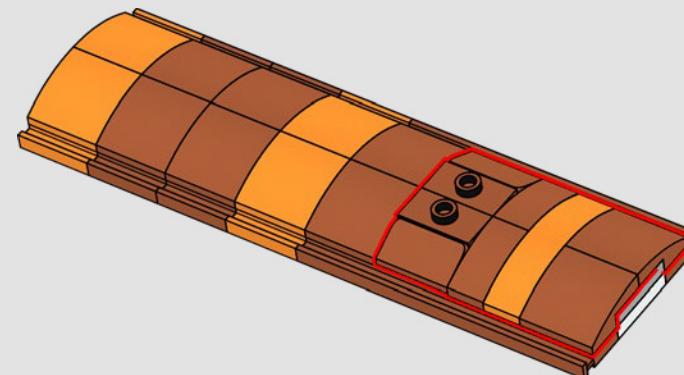


491

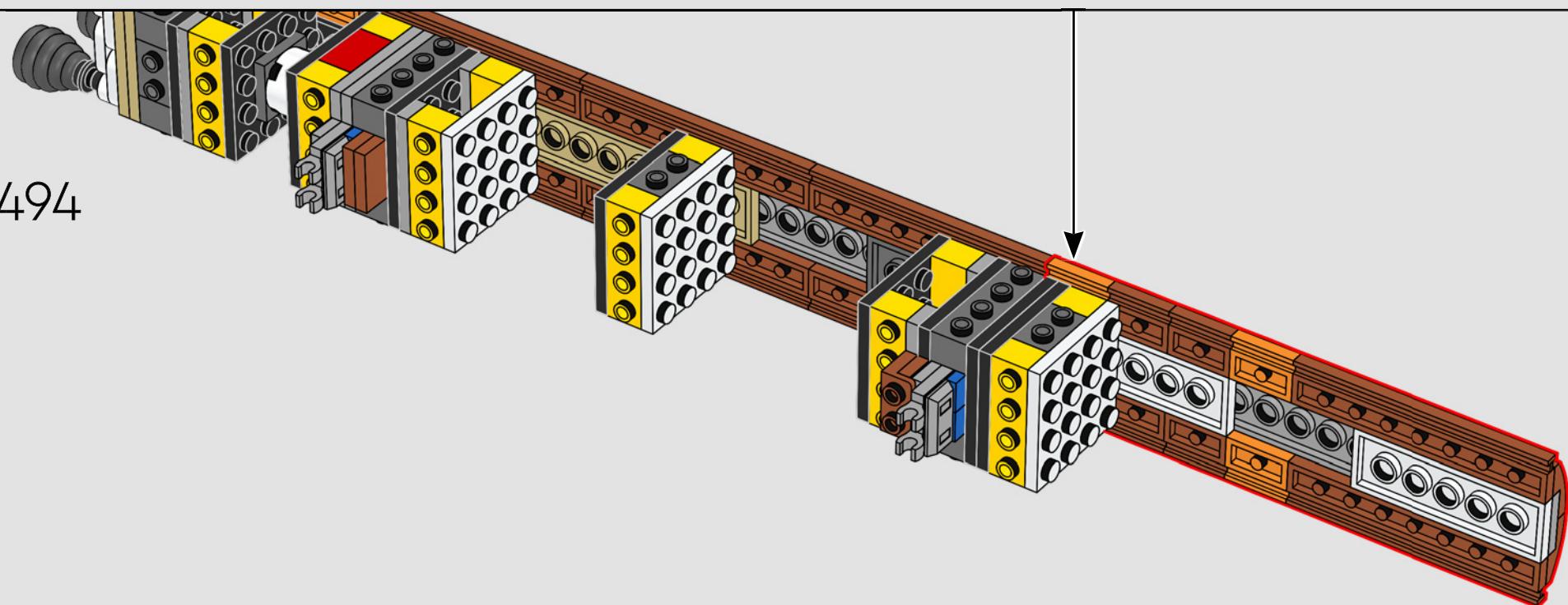


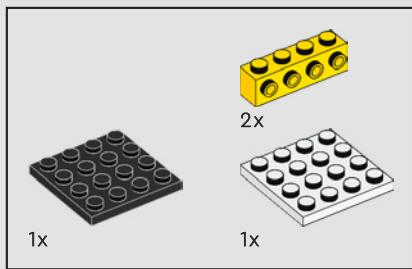


493

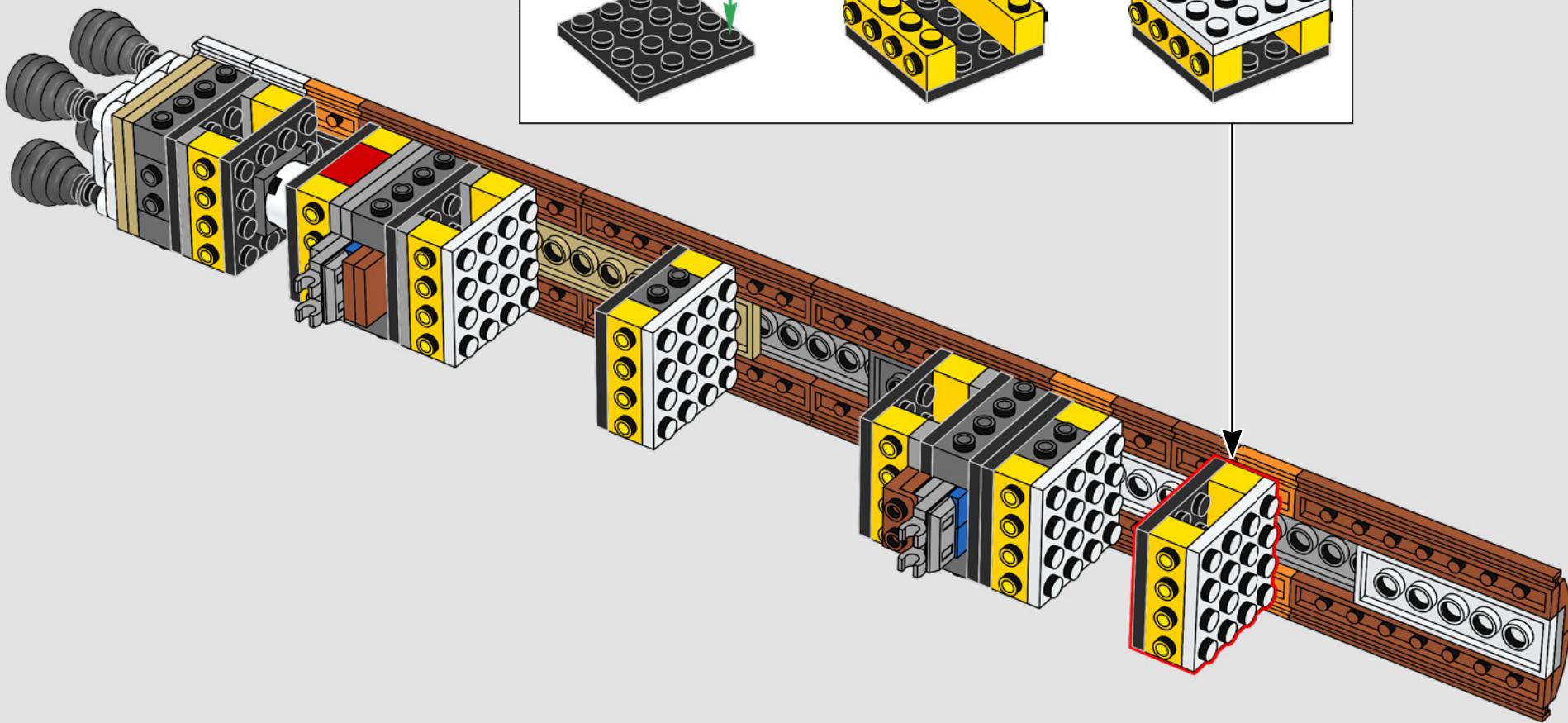
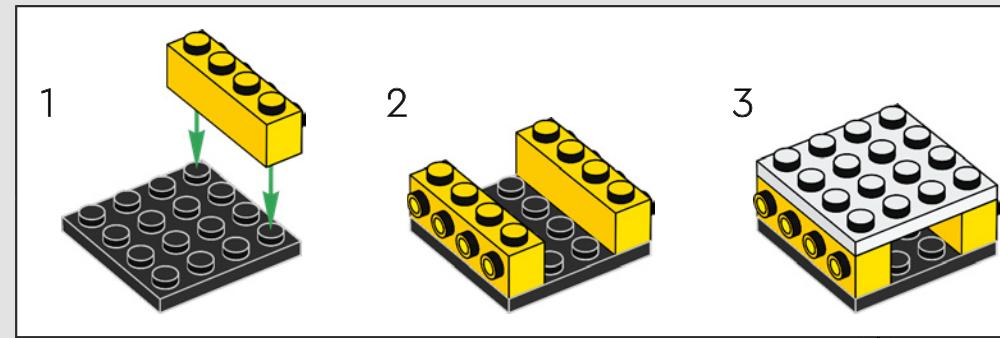


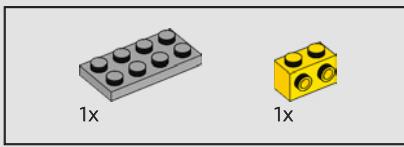
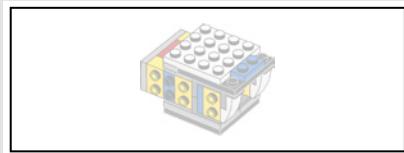
494



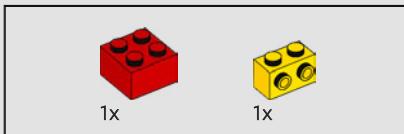
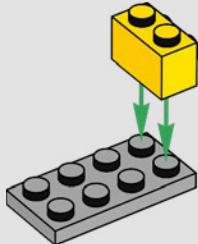


495

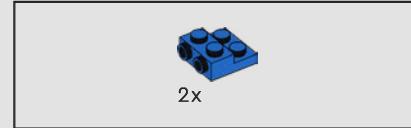
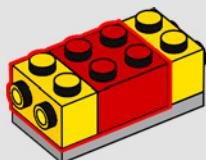




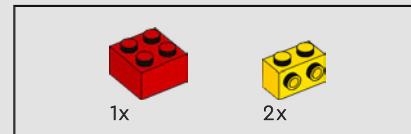
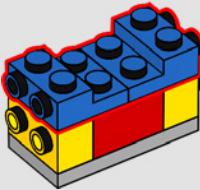
496



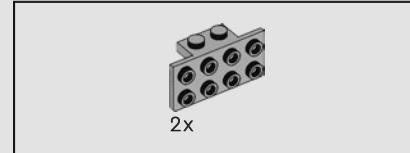
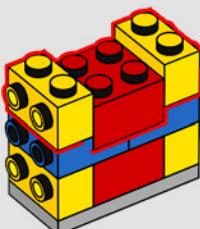
497



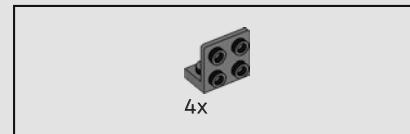
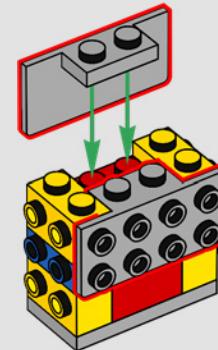
498



499



500

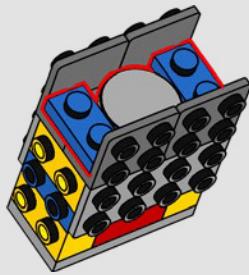


501

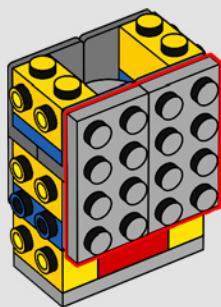




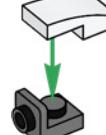
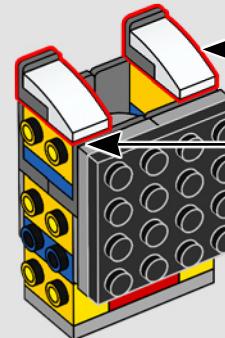
502



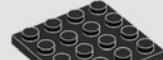
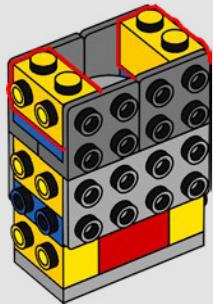
504



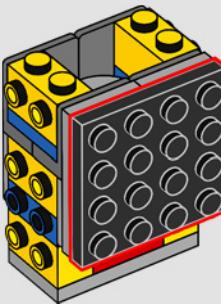
506



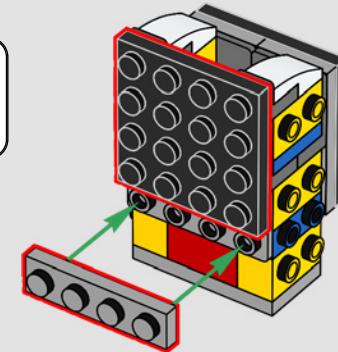
503

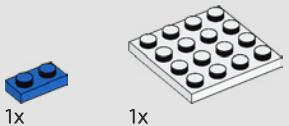


505

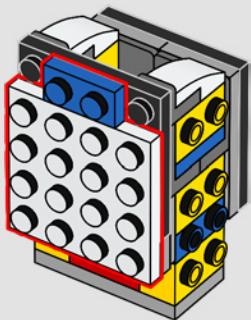


507

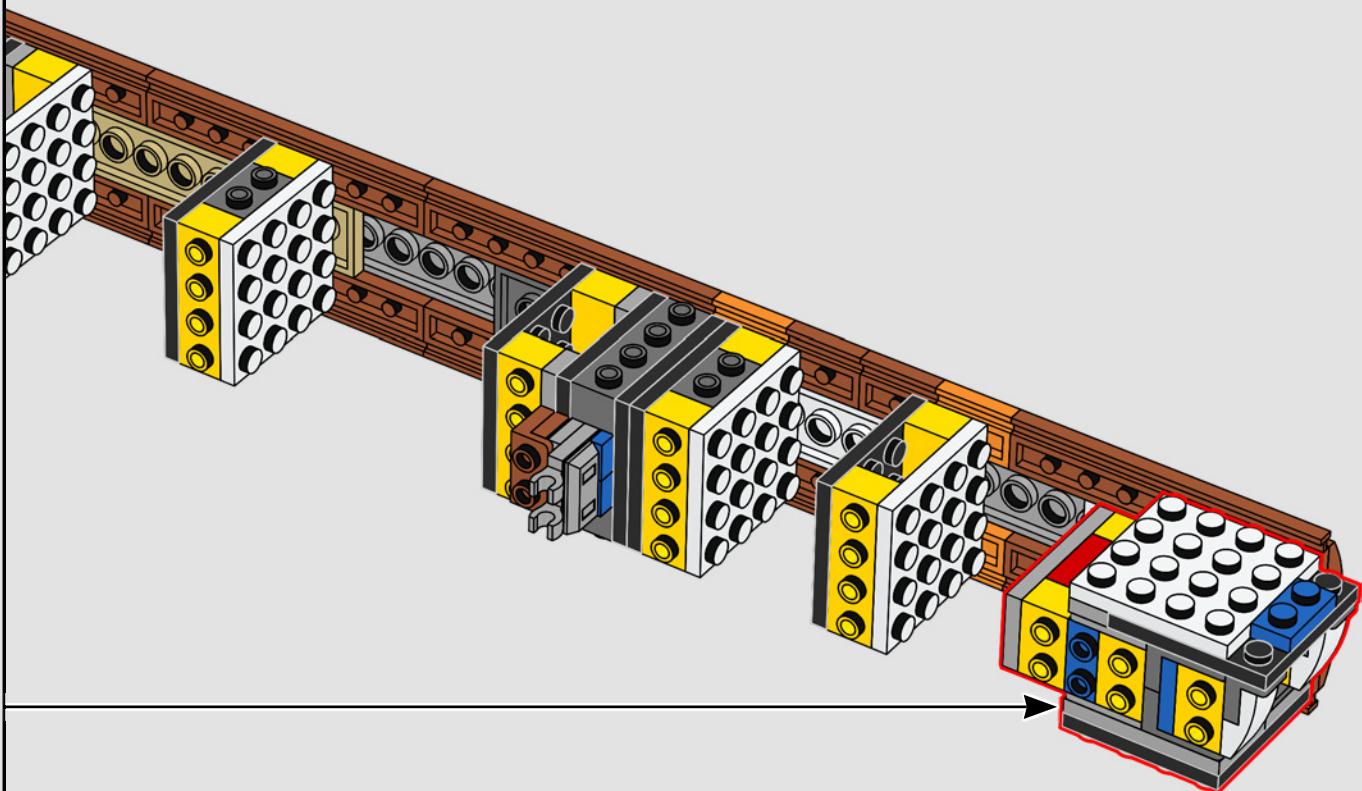




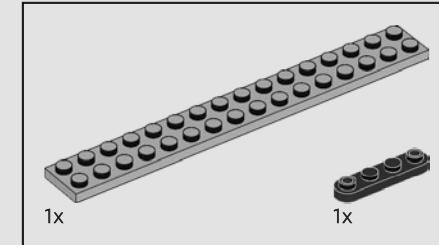
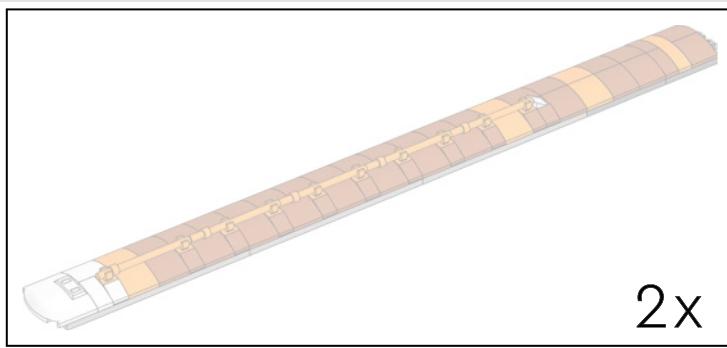
508



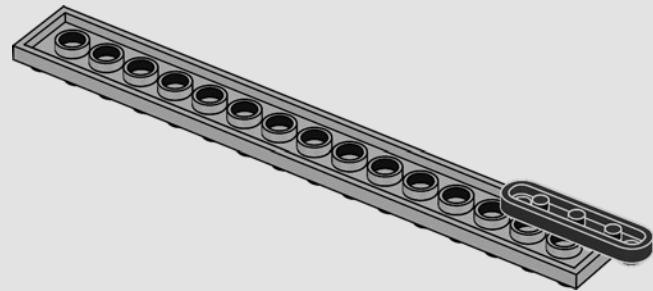
509



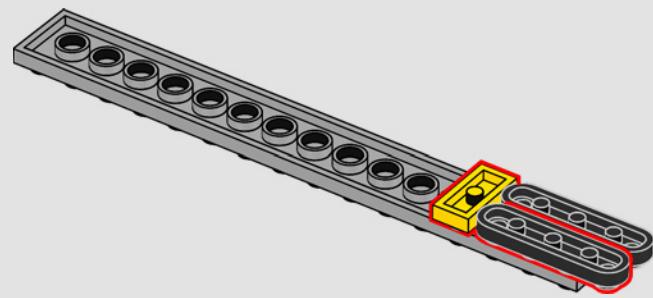
The core stage was developed specifically for the SLS. It consists of propellant tanks, avionics and related equipment. The four RS-25 engines provide attachment points for the boosters.



510

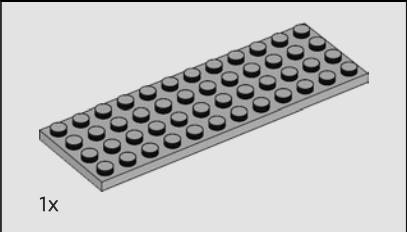
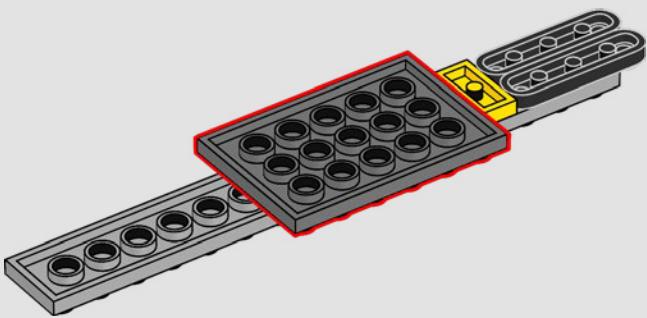


511

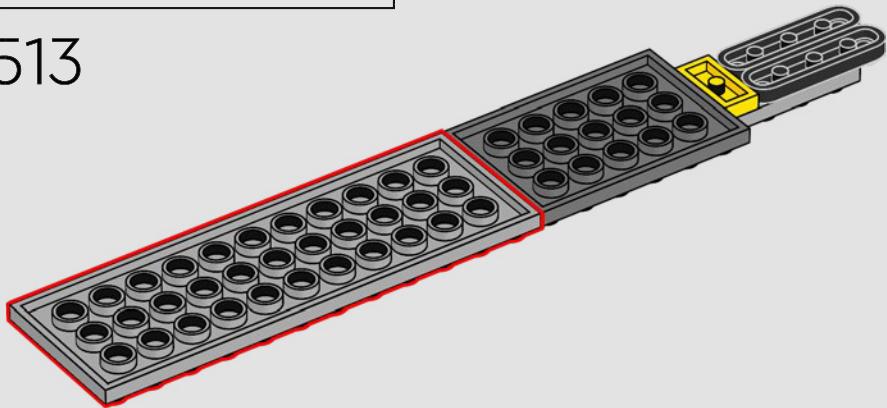




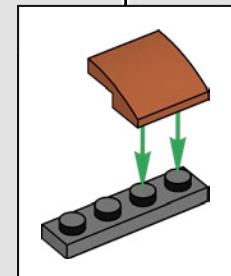
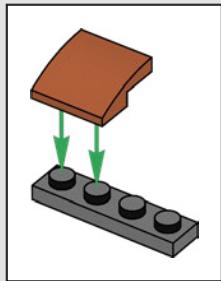
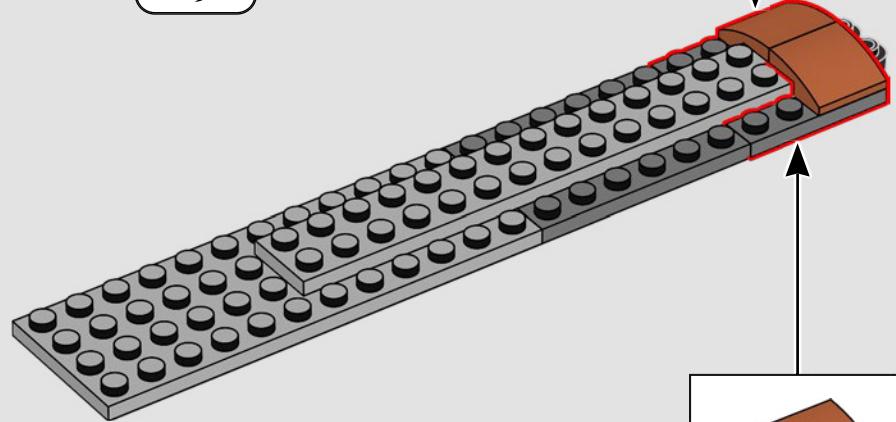
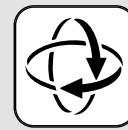
512

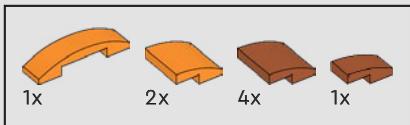


513

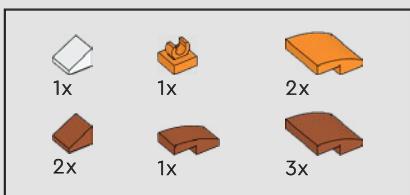
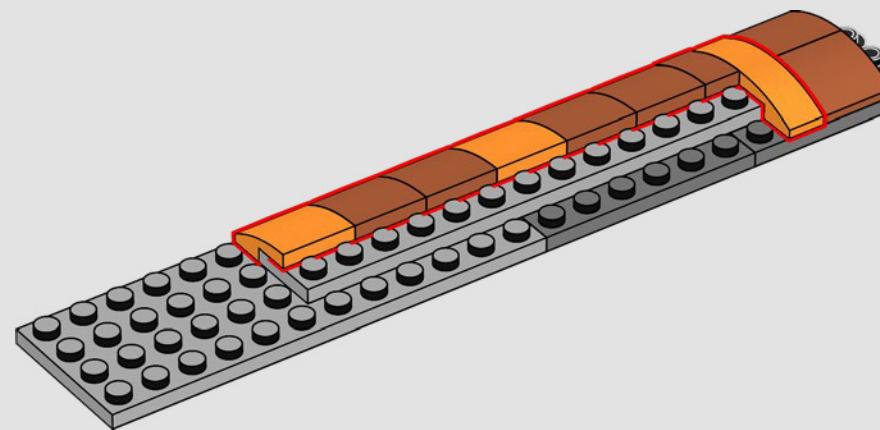


514

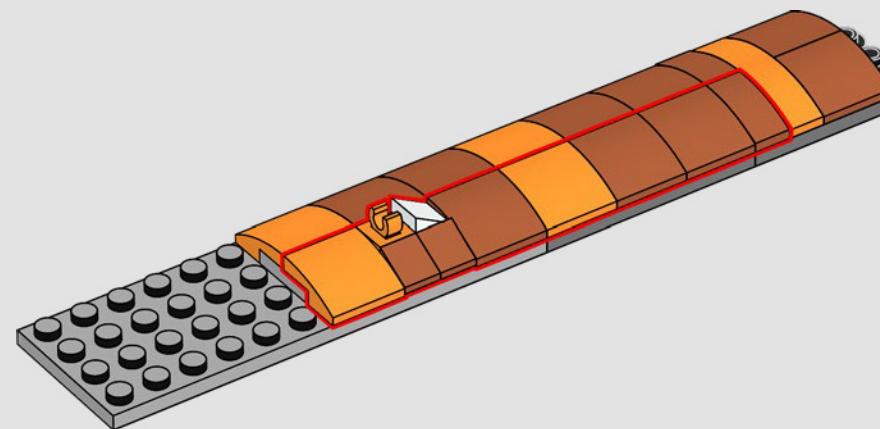


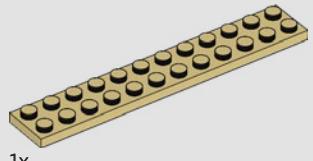


515



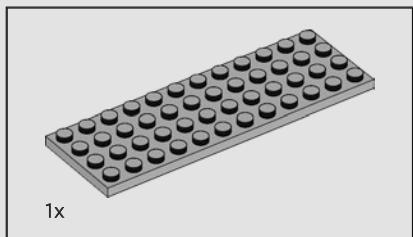
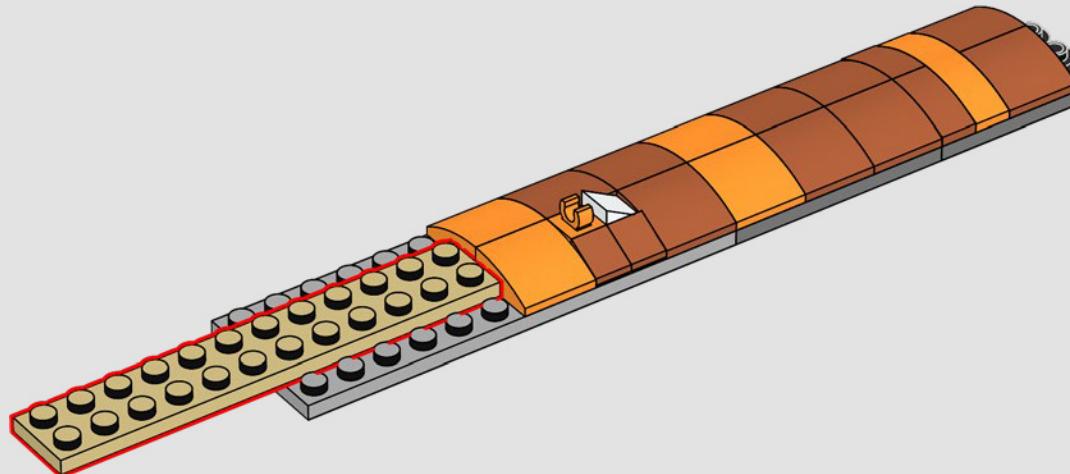
516





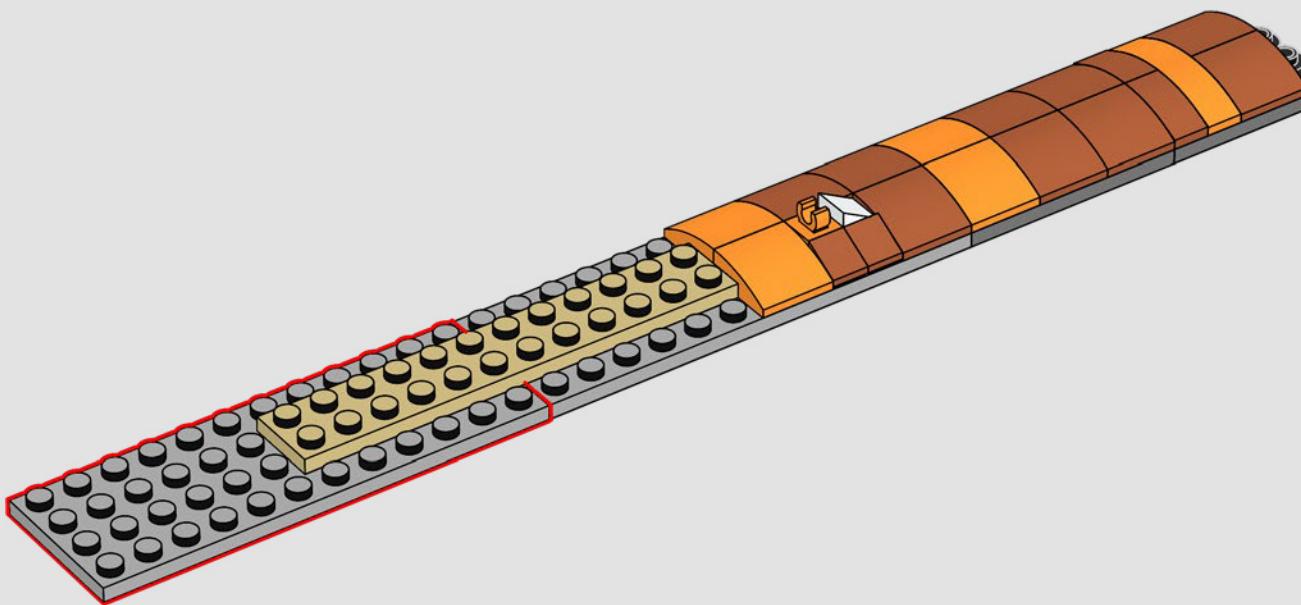
1x

517



1x

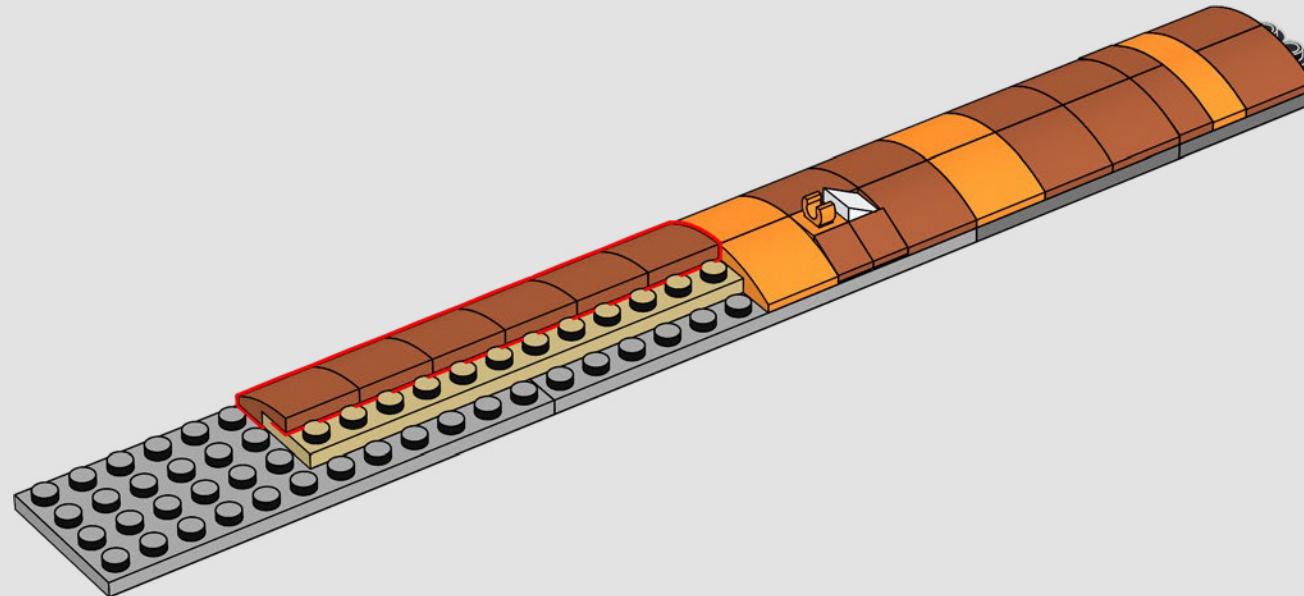
518





6x

519



4x

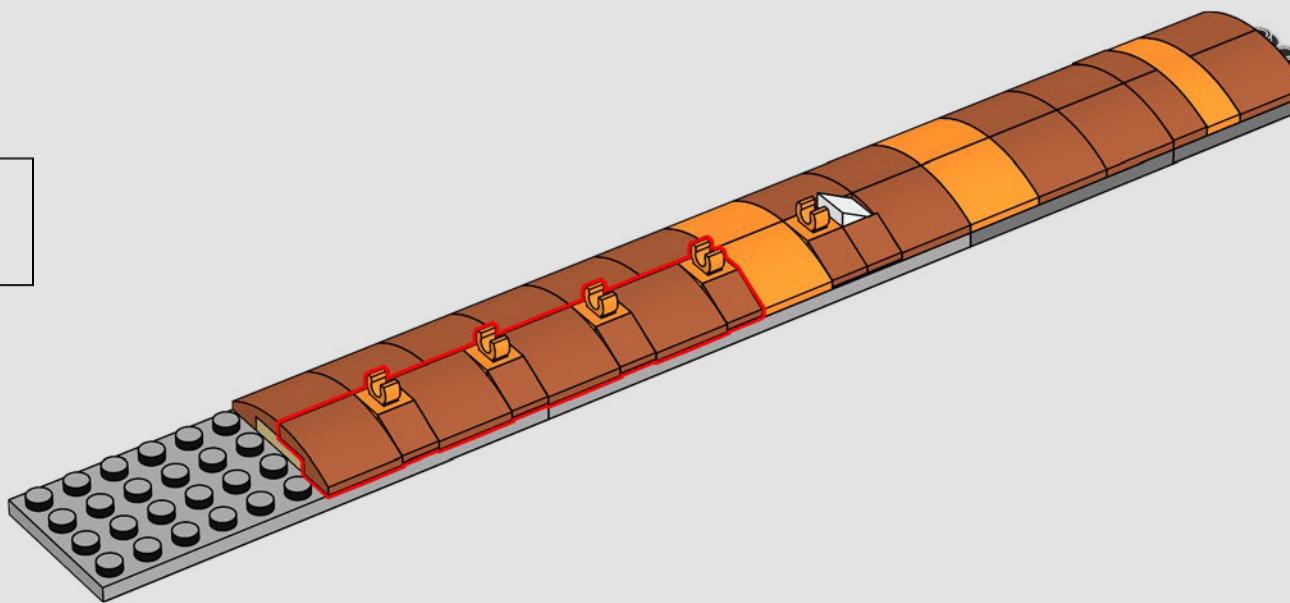


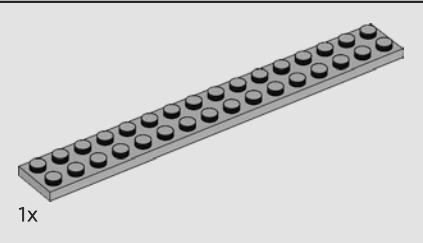
4x



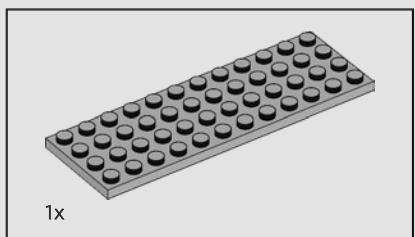
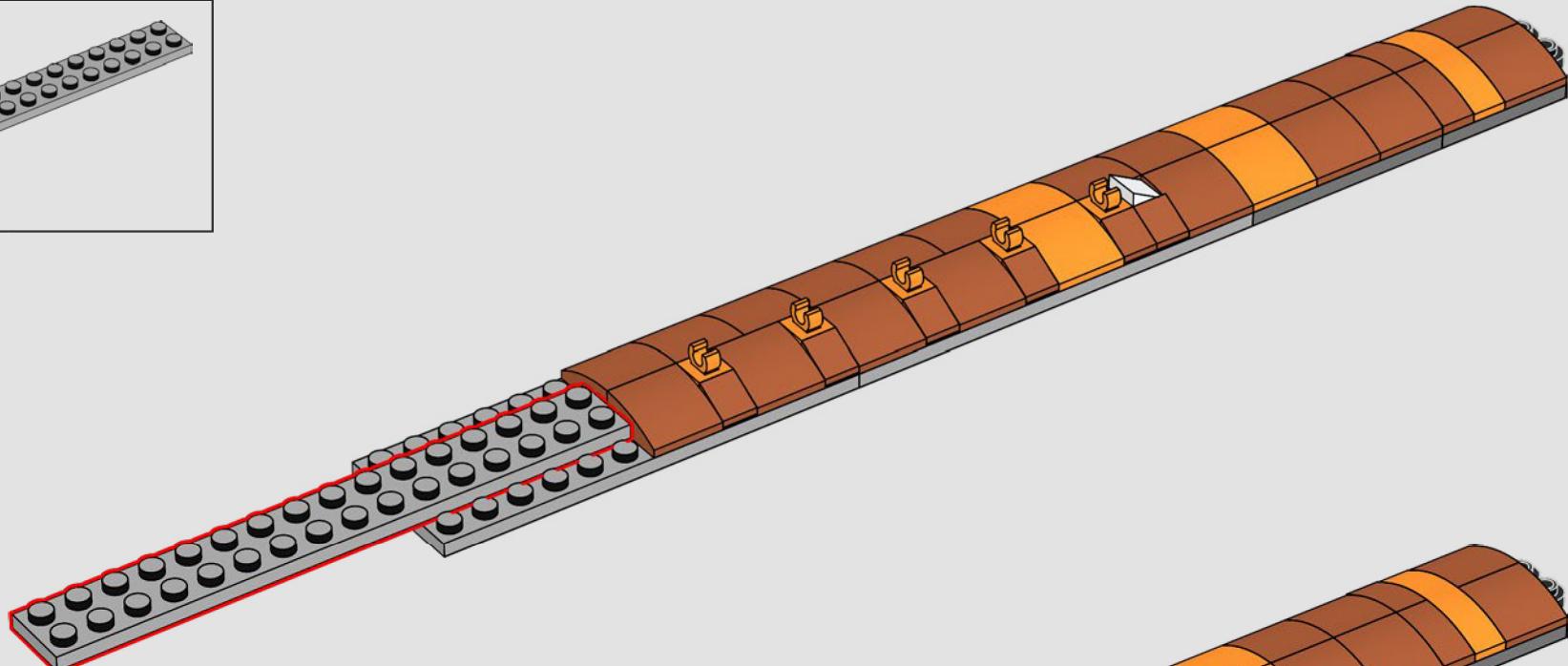
4x

520

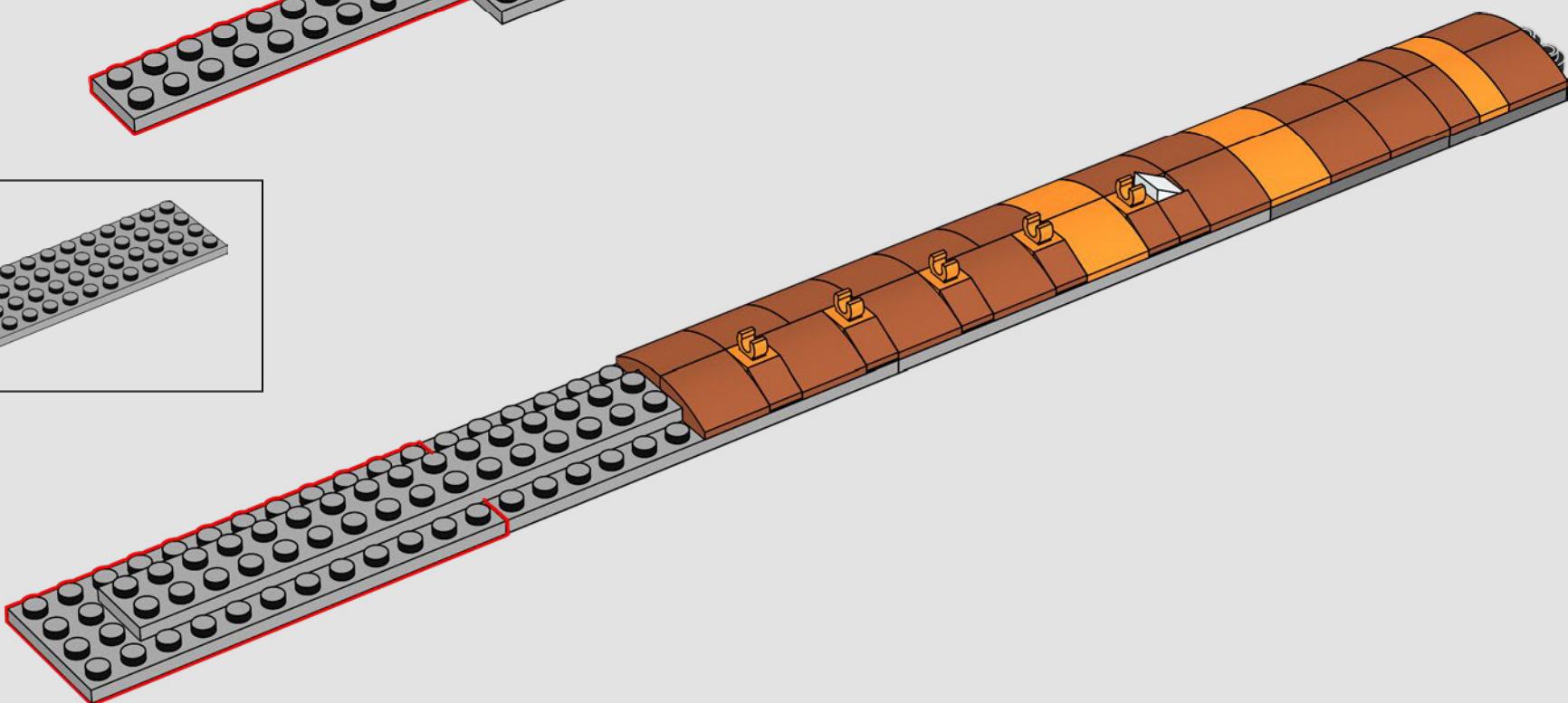




521



522





1x

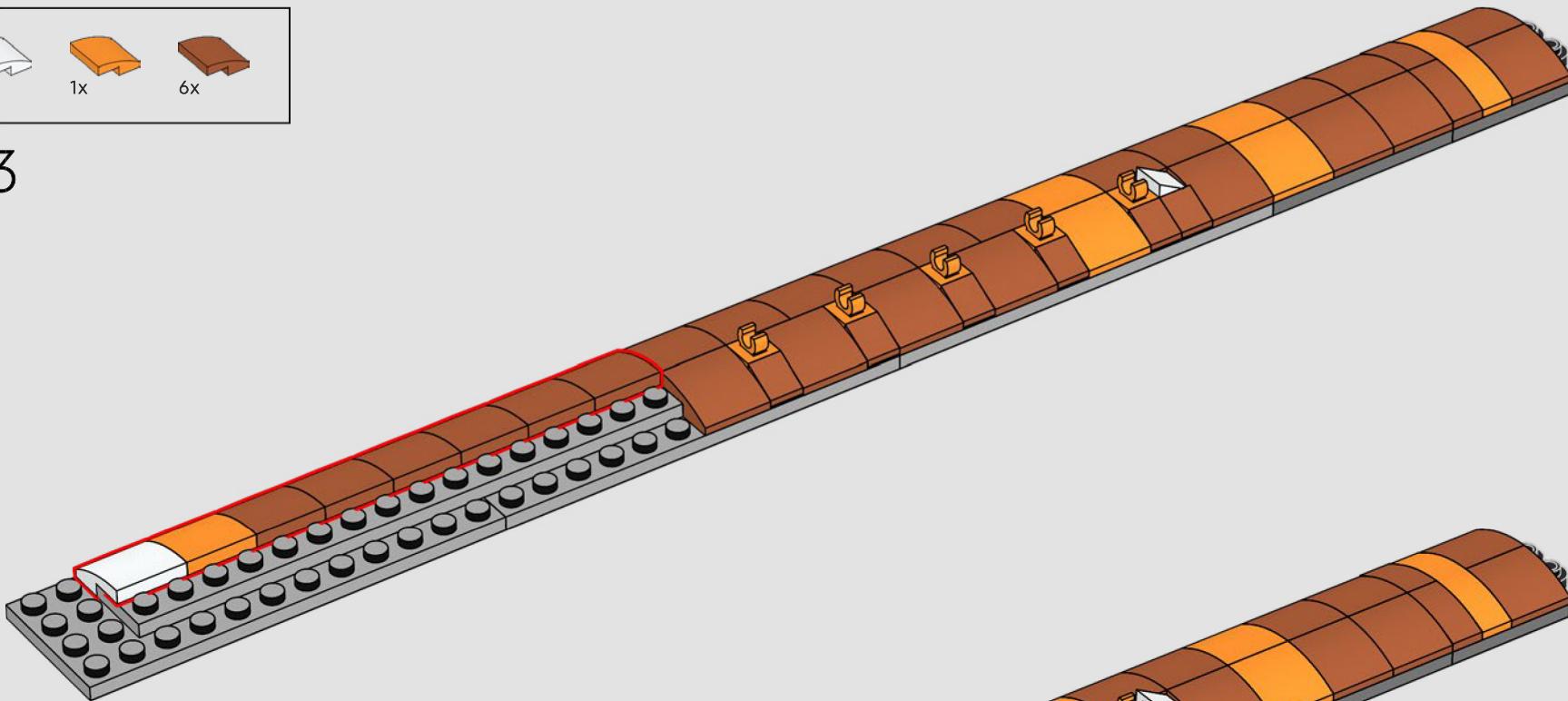


1x



6x

523



1x



4x



5x



1x

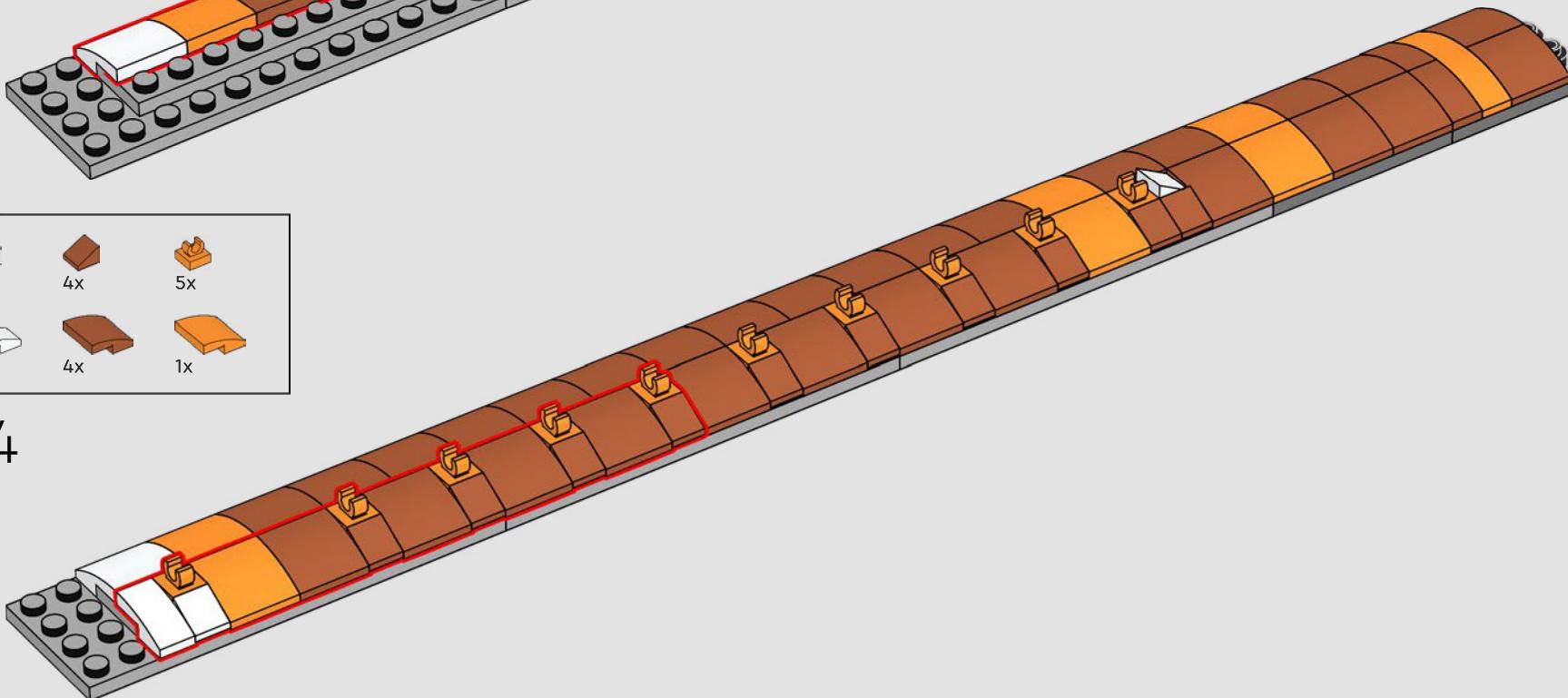


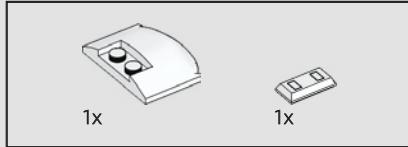
4x



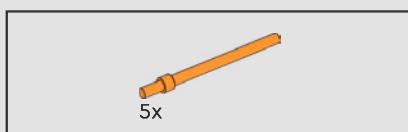
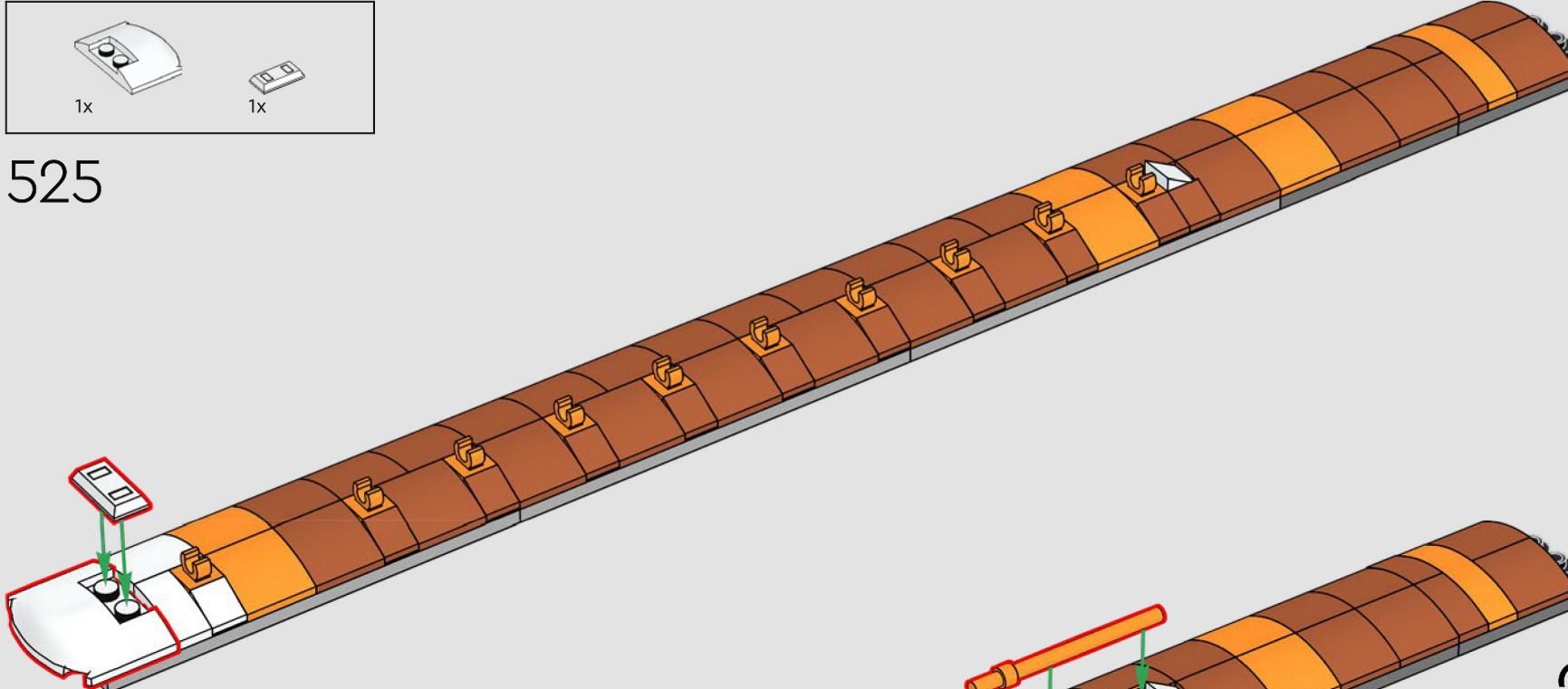
1x

524

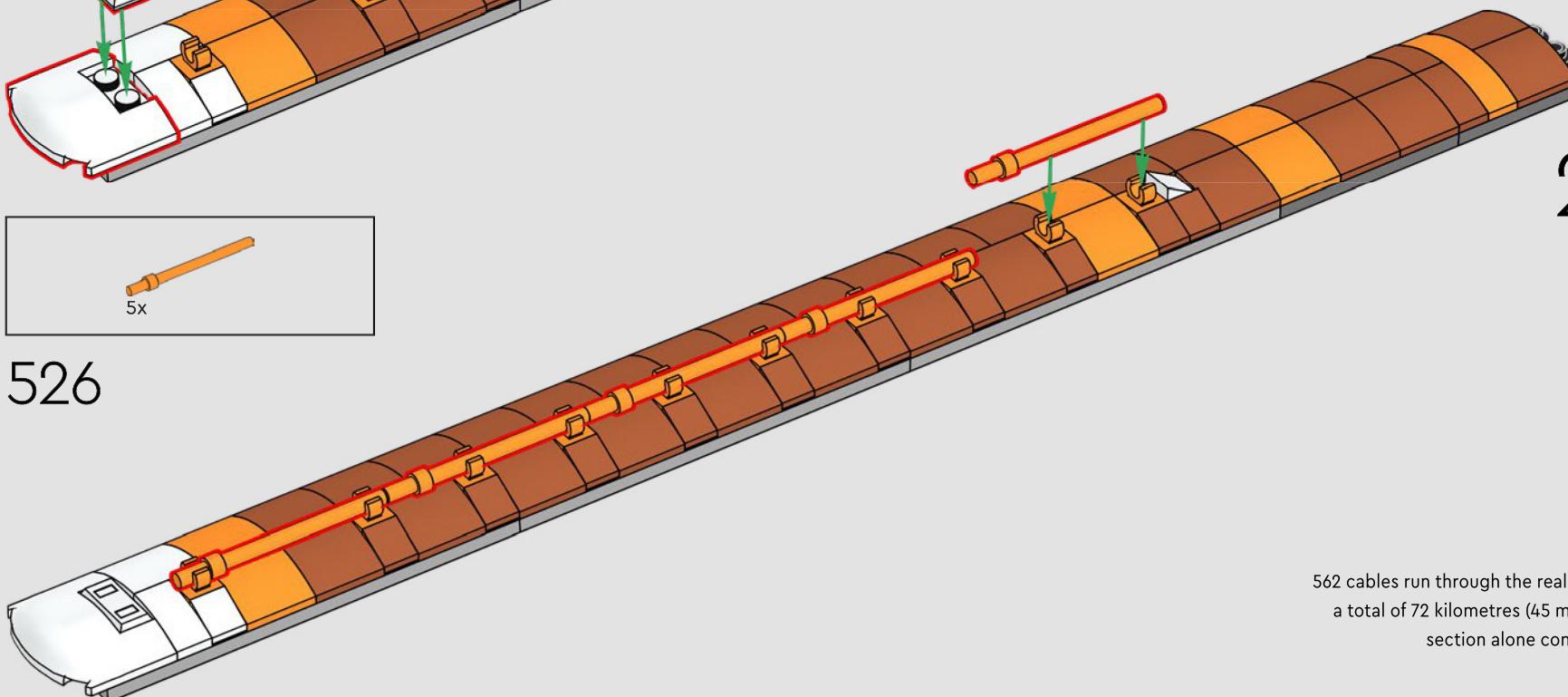




525



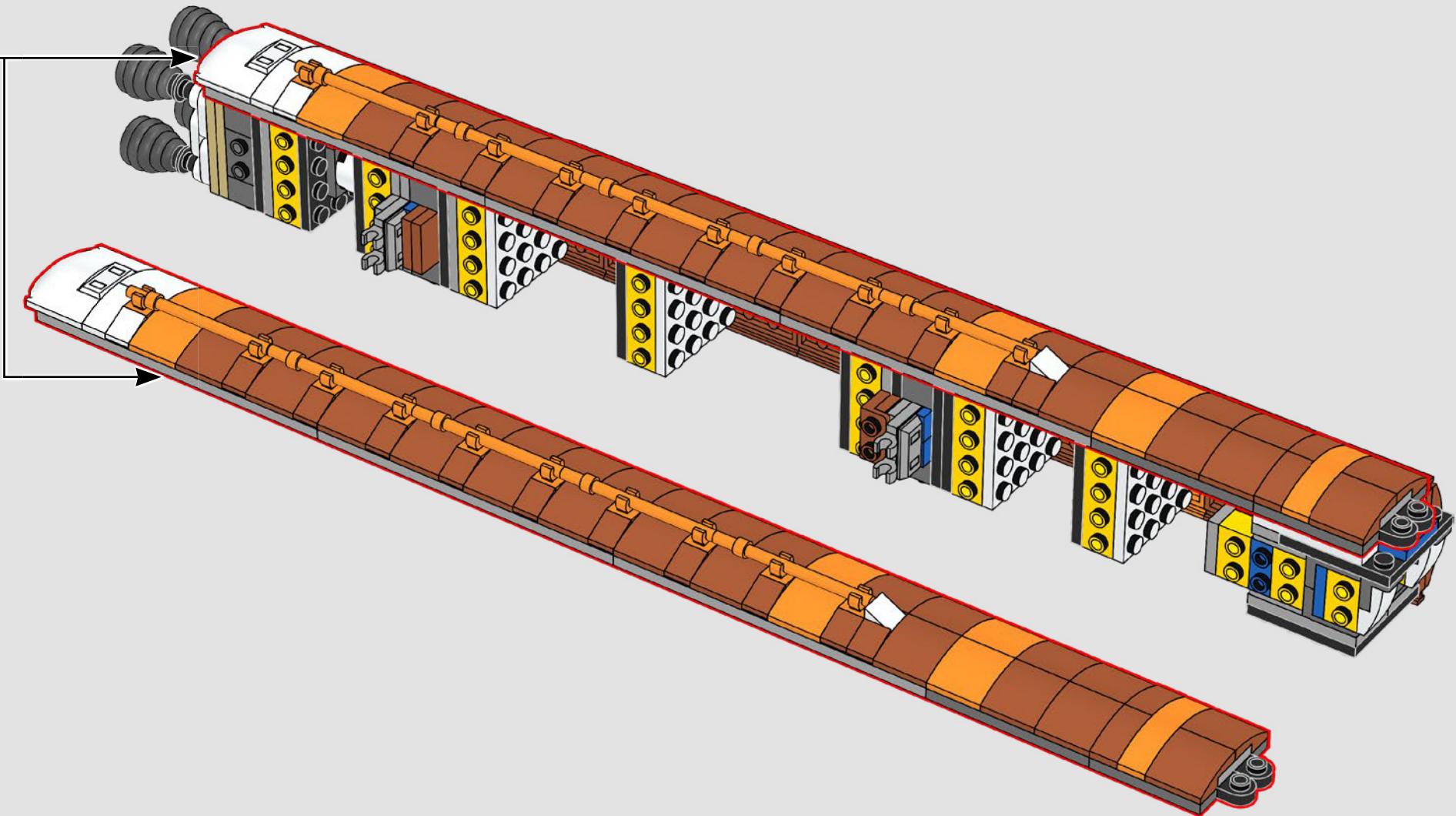
526



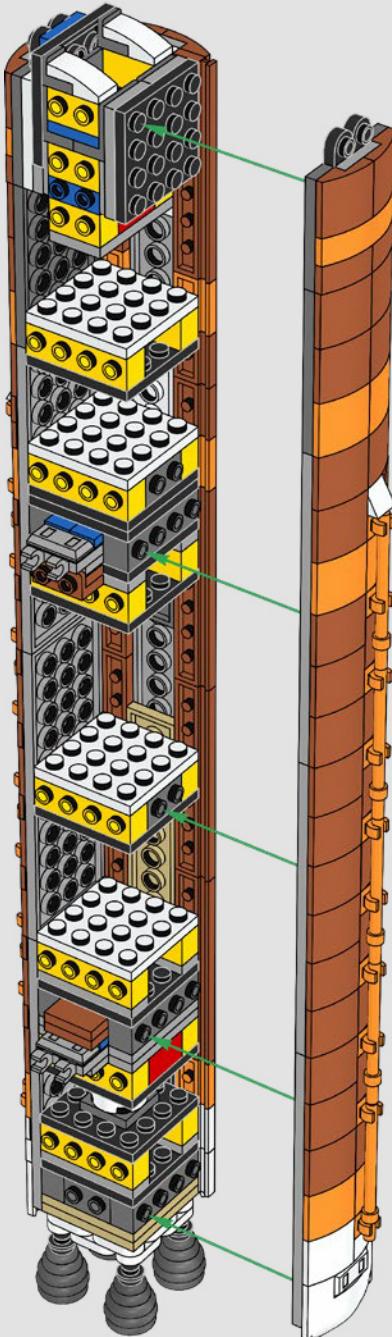
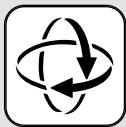
562 cables run through the real-life core stage –  
a total of 72 kilometres (45 miles). The engine  
section alone contains 231 cables.

The orange colour on the first stage is the insulation foam that helps keep the propellant cool. The foam reacts to sunlight by becoming brighter where it is the thinnest – hence the bright orange elements on the otherwise dark orange model.

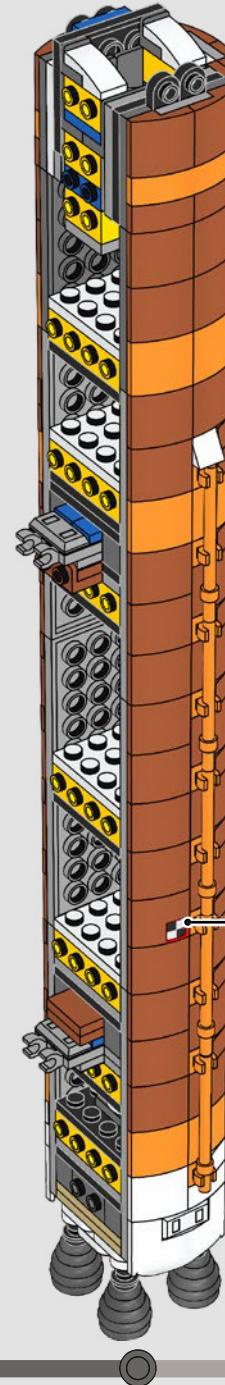
527

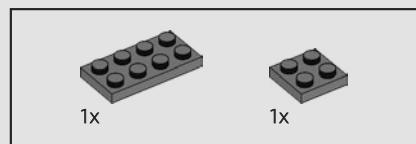
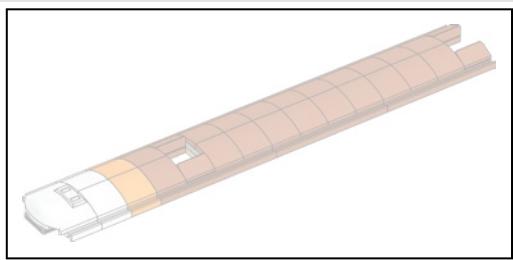


528

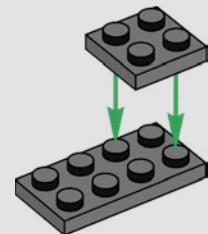


529

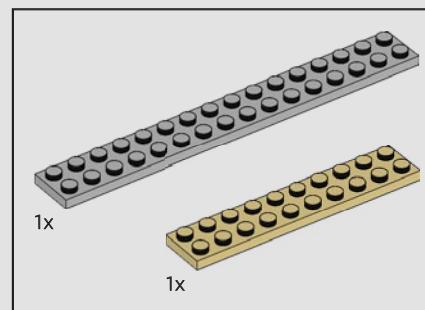
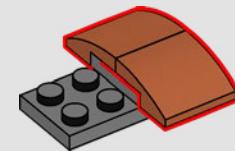




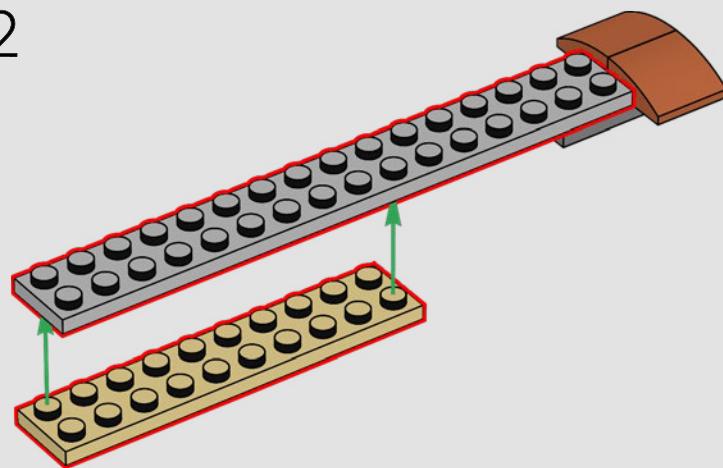
530

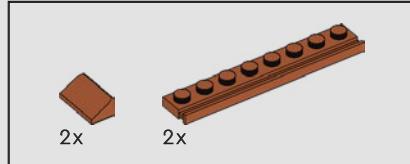


531

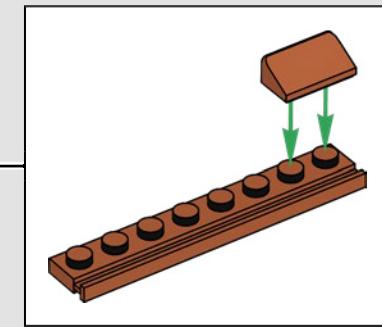
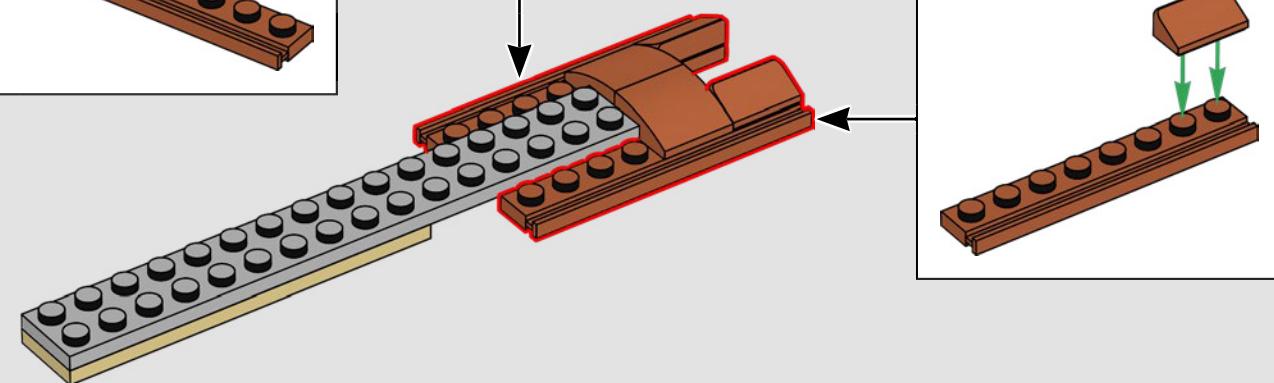
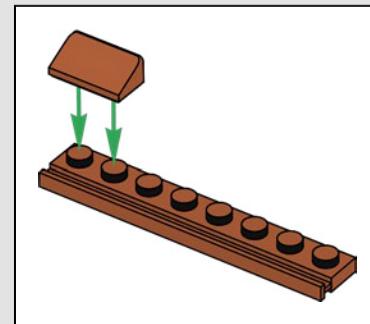


532

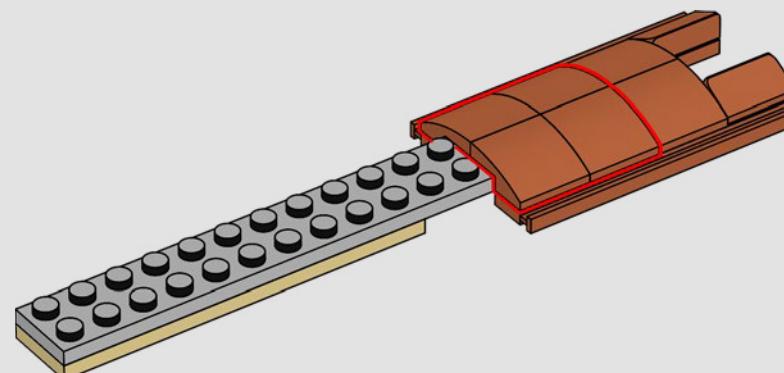


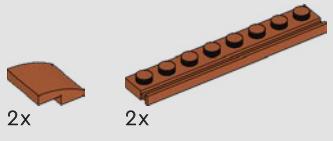


533

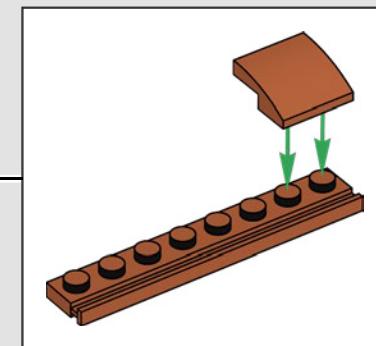
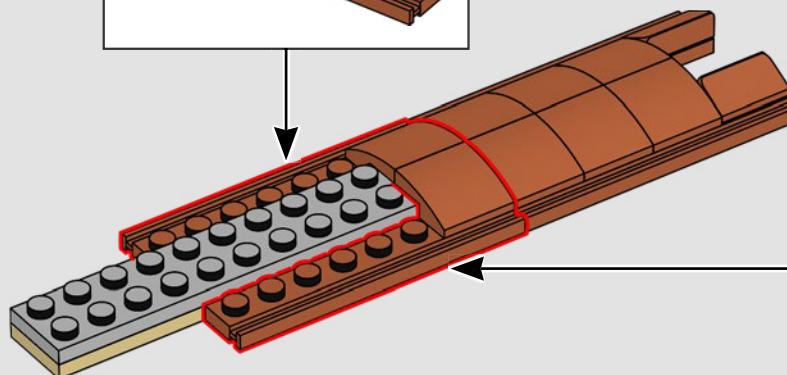
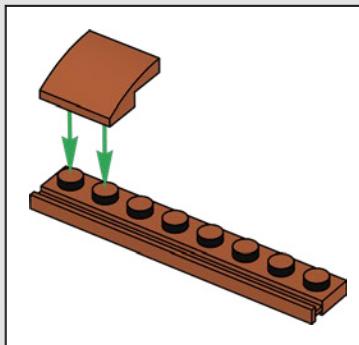


534

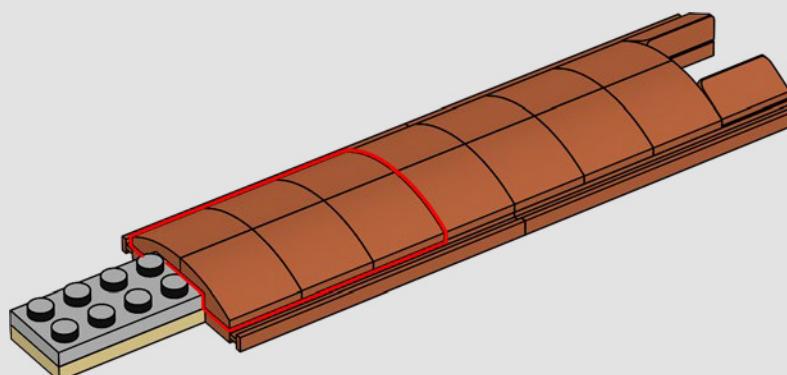


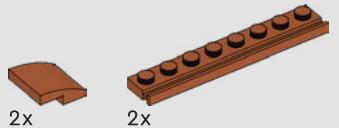


535

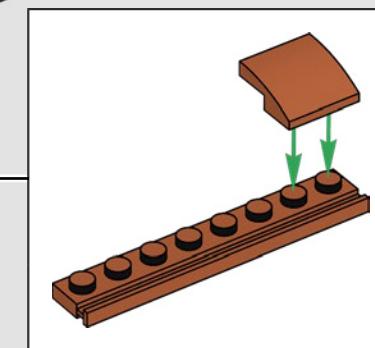
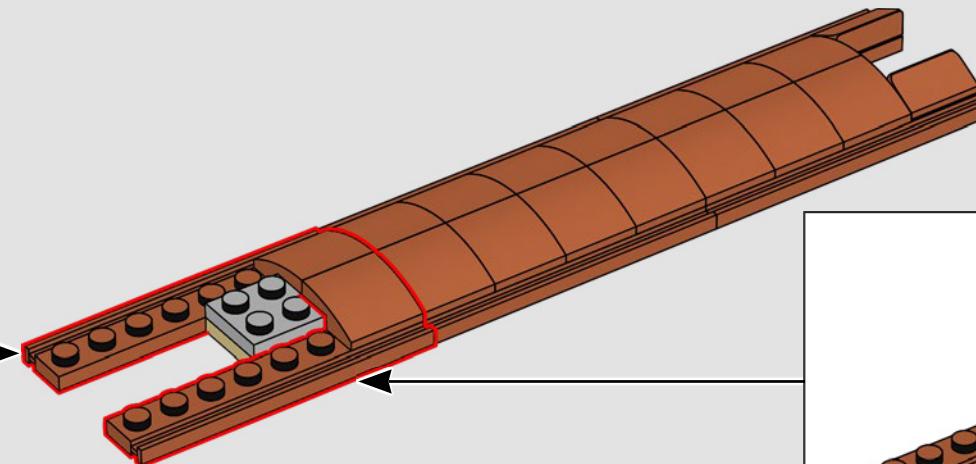
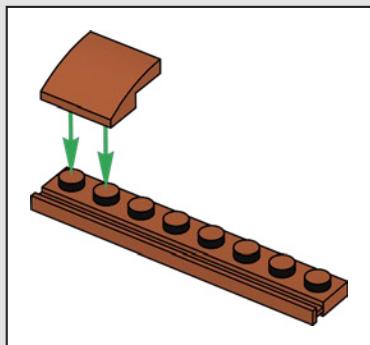


536

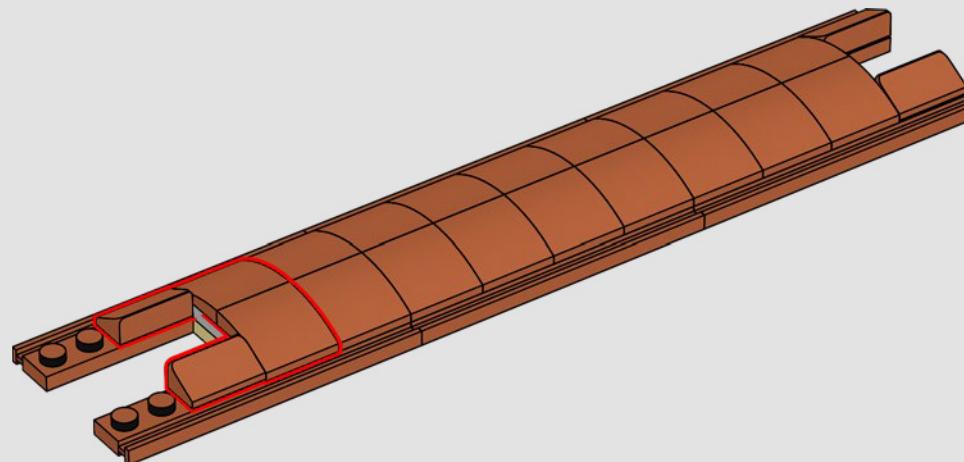


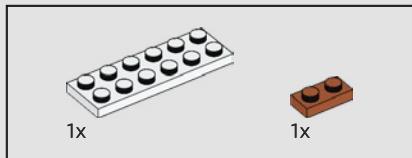


537

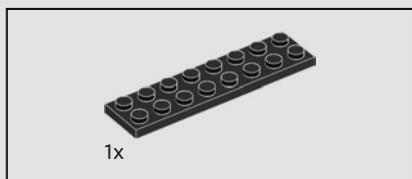
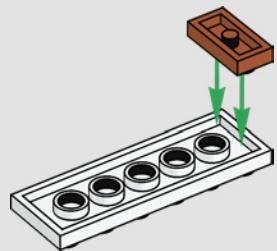


538

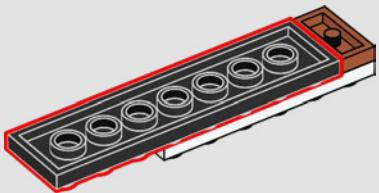




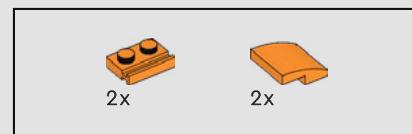
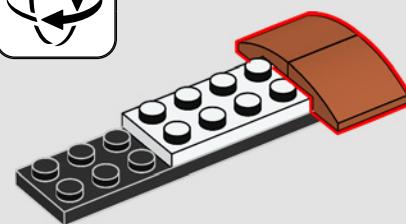
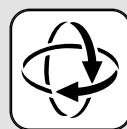
539



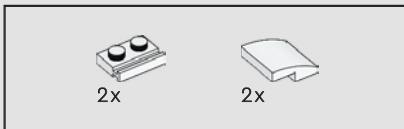
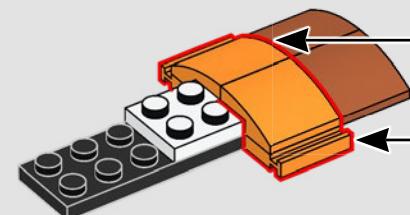
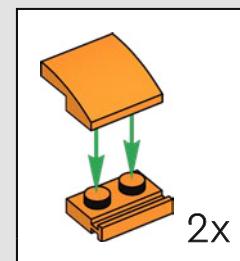
540



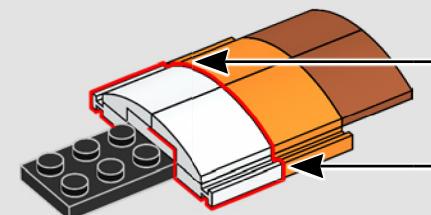
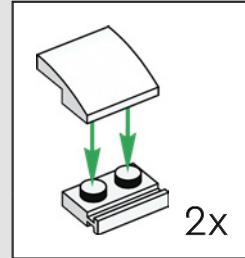
541



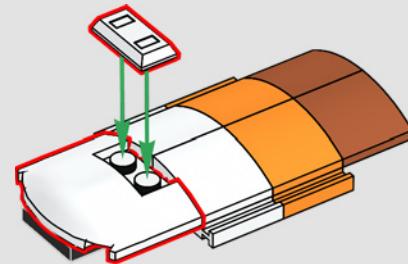
542



543

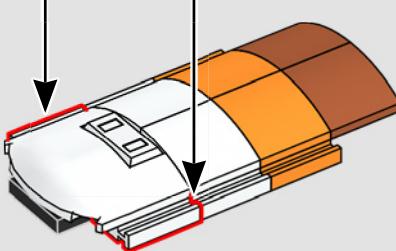
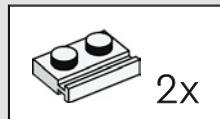


544

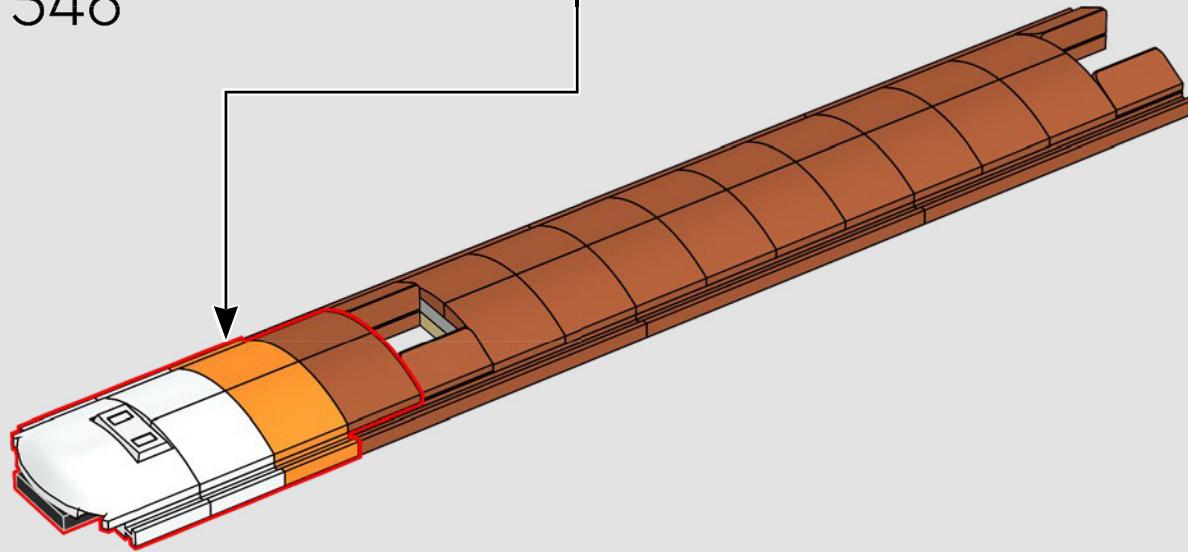




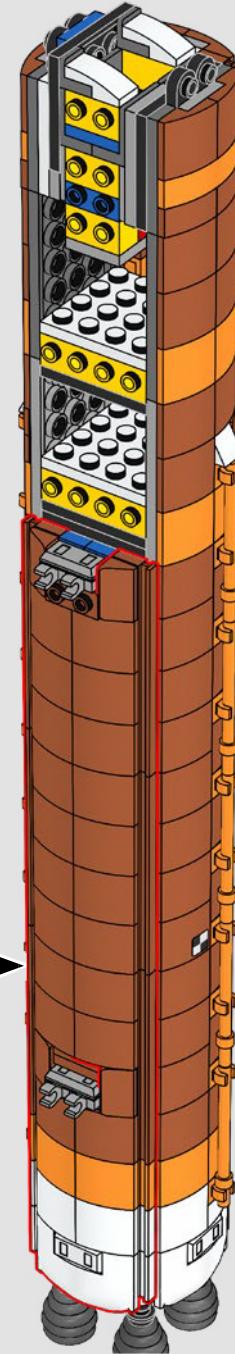
545

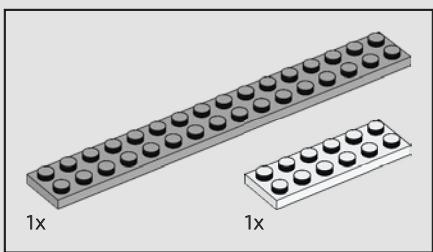
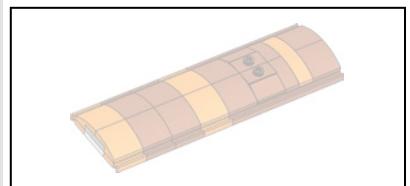


546

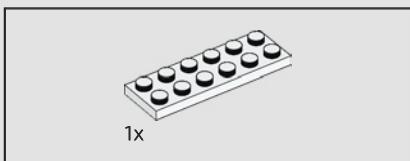
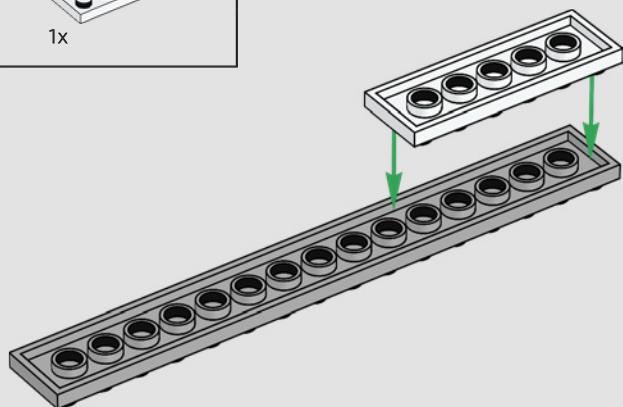


547

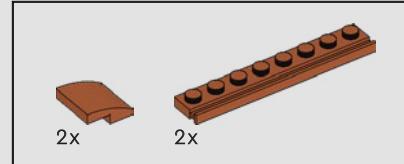
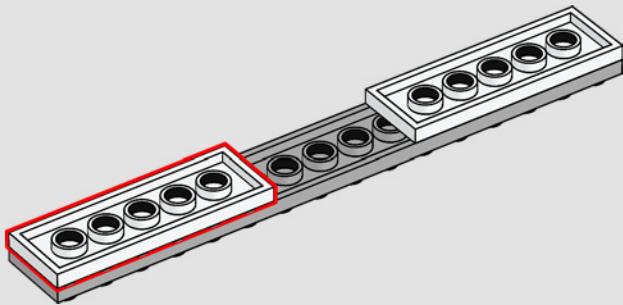




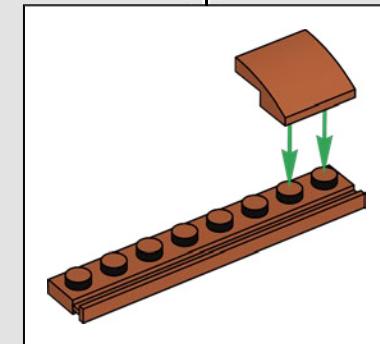
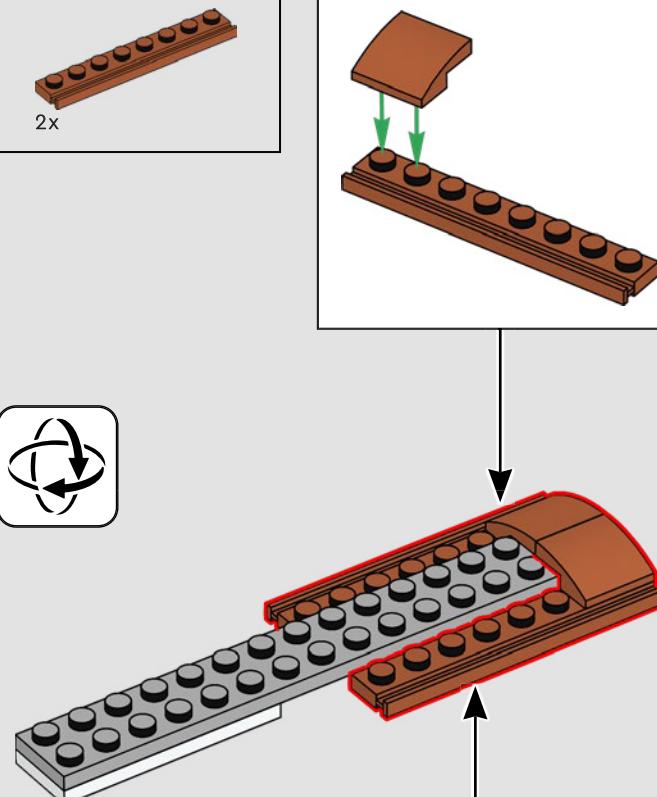
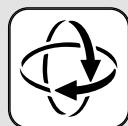
548

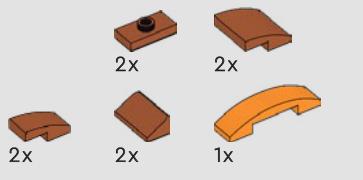


549

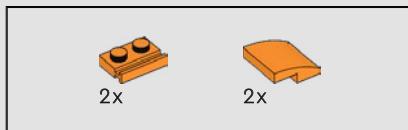
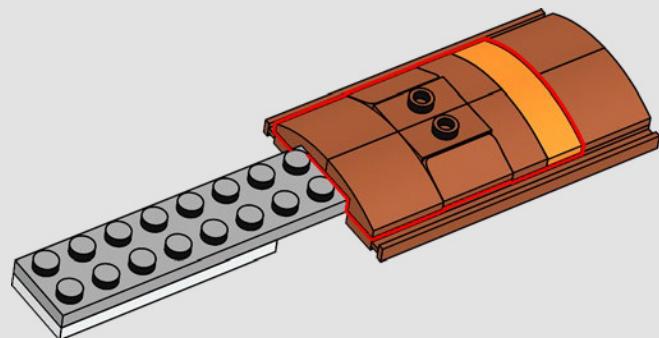


550

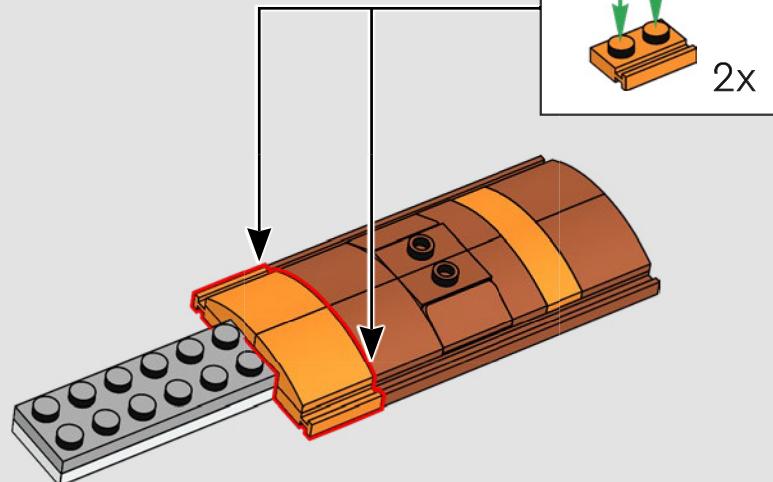




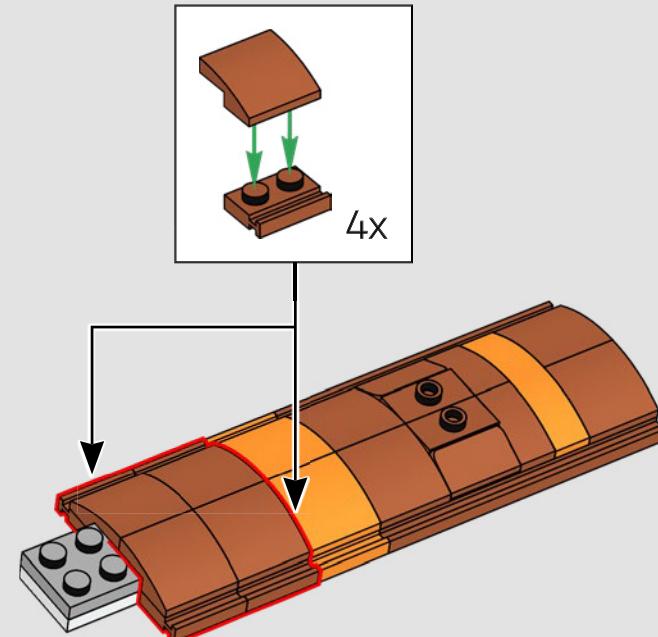
551



552

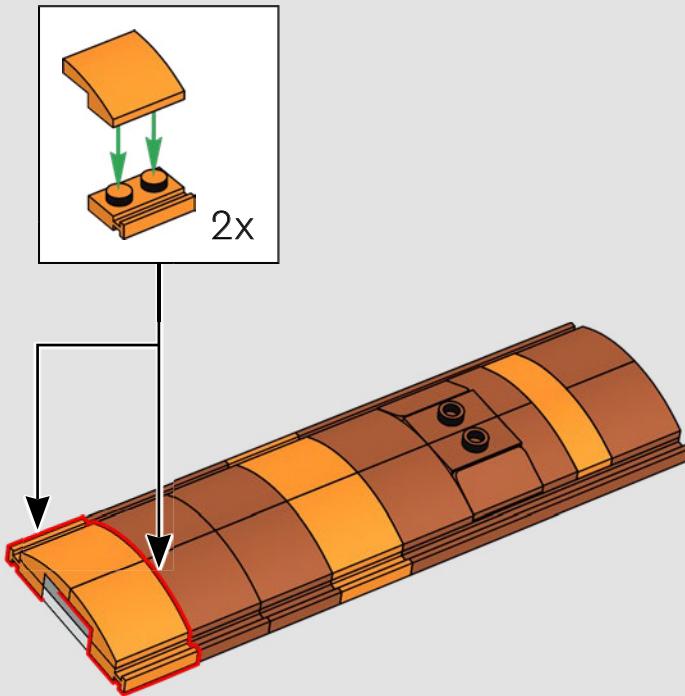


553

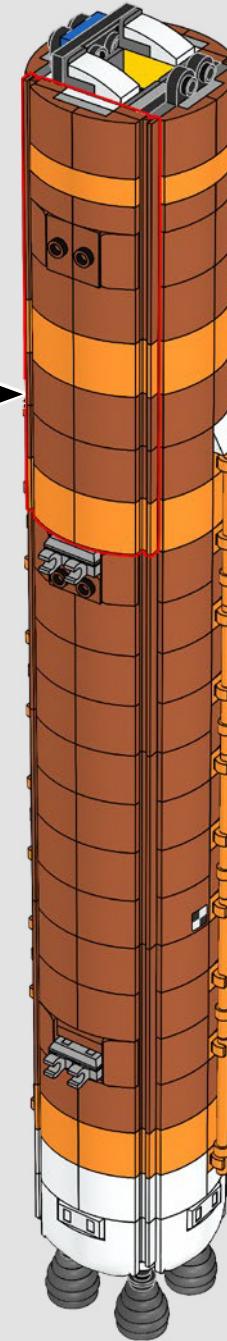


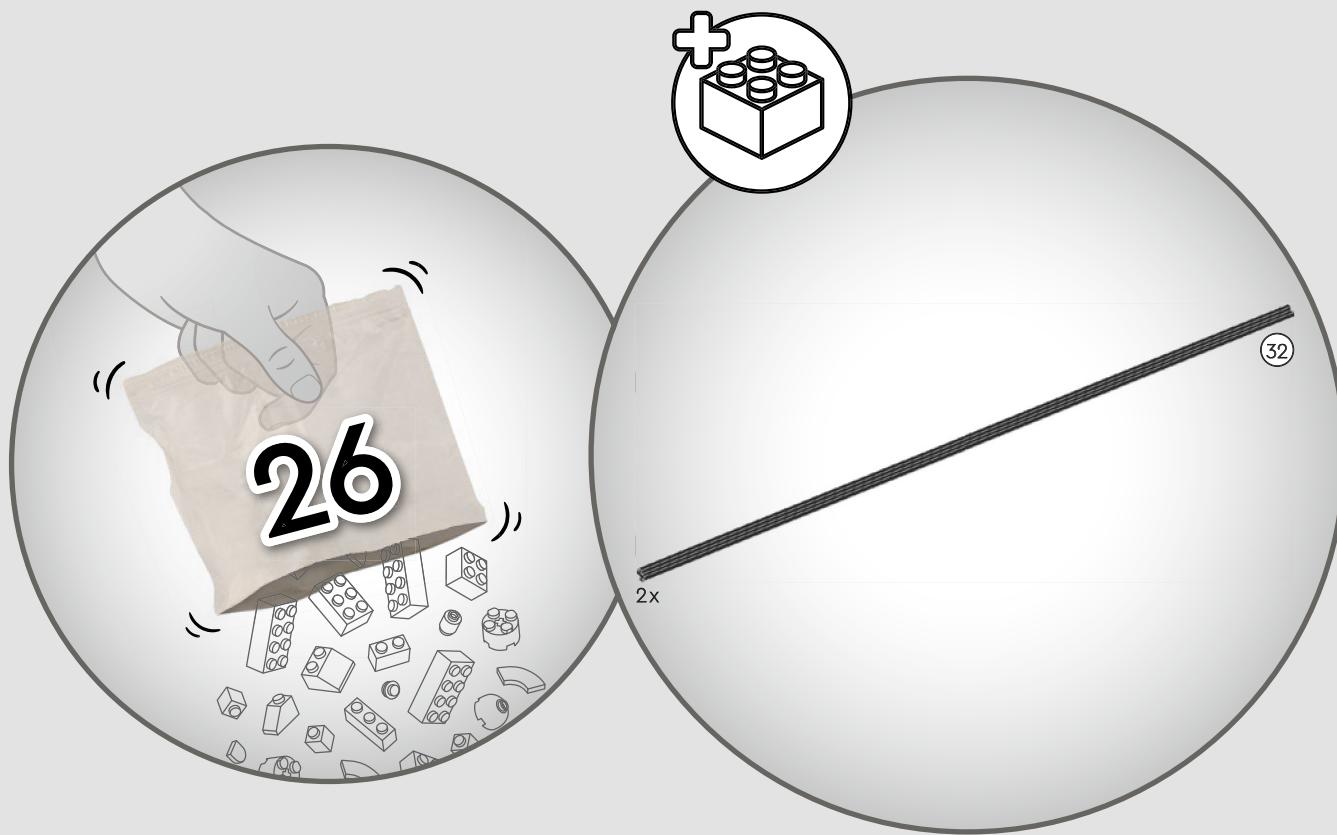


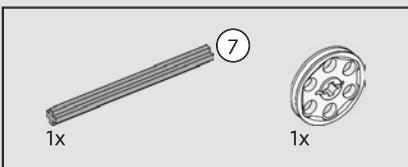
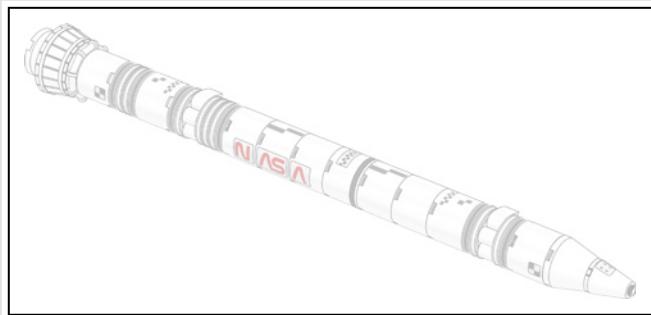
554



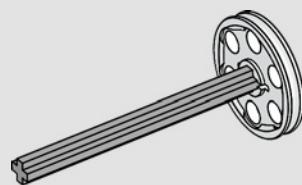
555



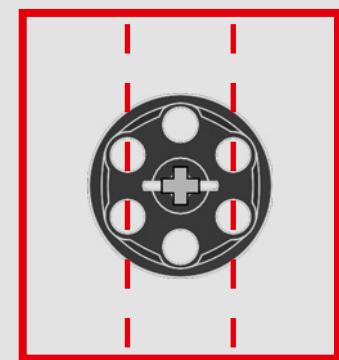
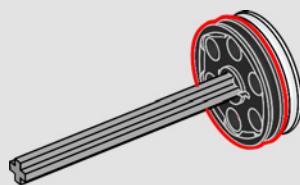




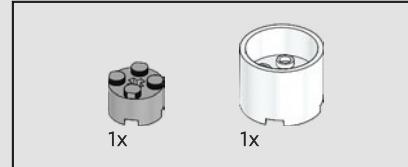
556



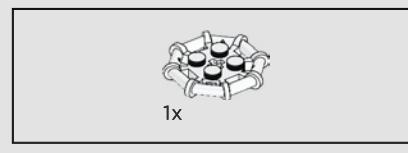
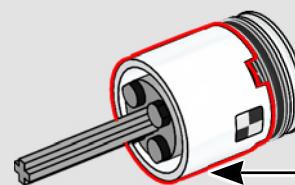
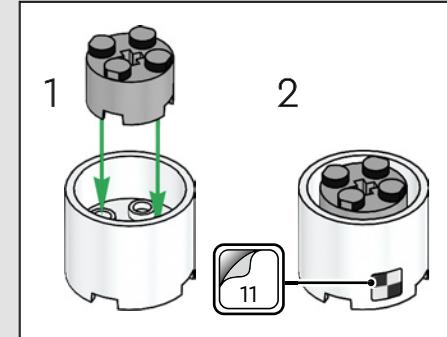
557



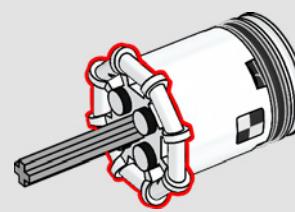
⑦ 1:1

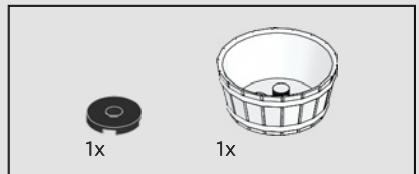


558

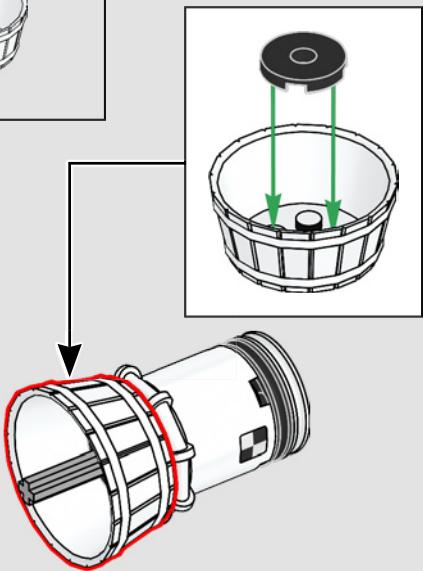


559

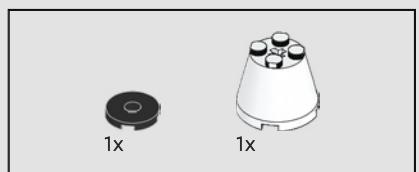
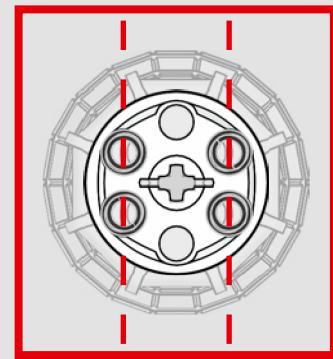
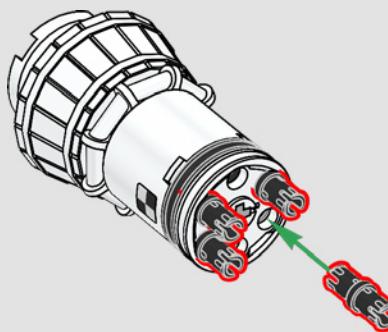




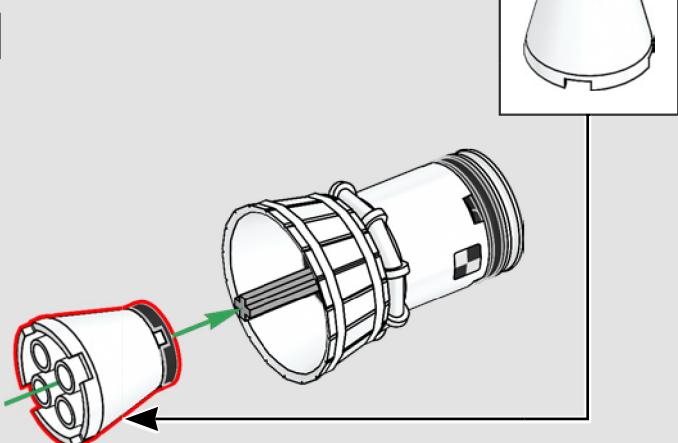
560



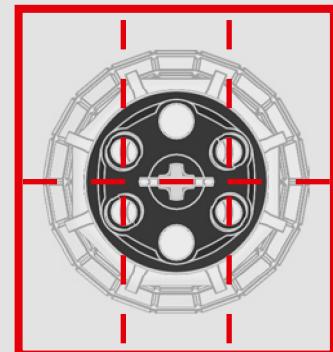
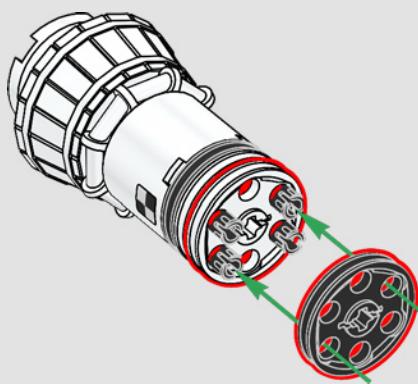
562



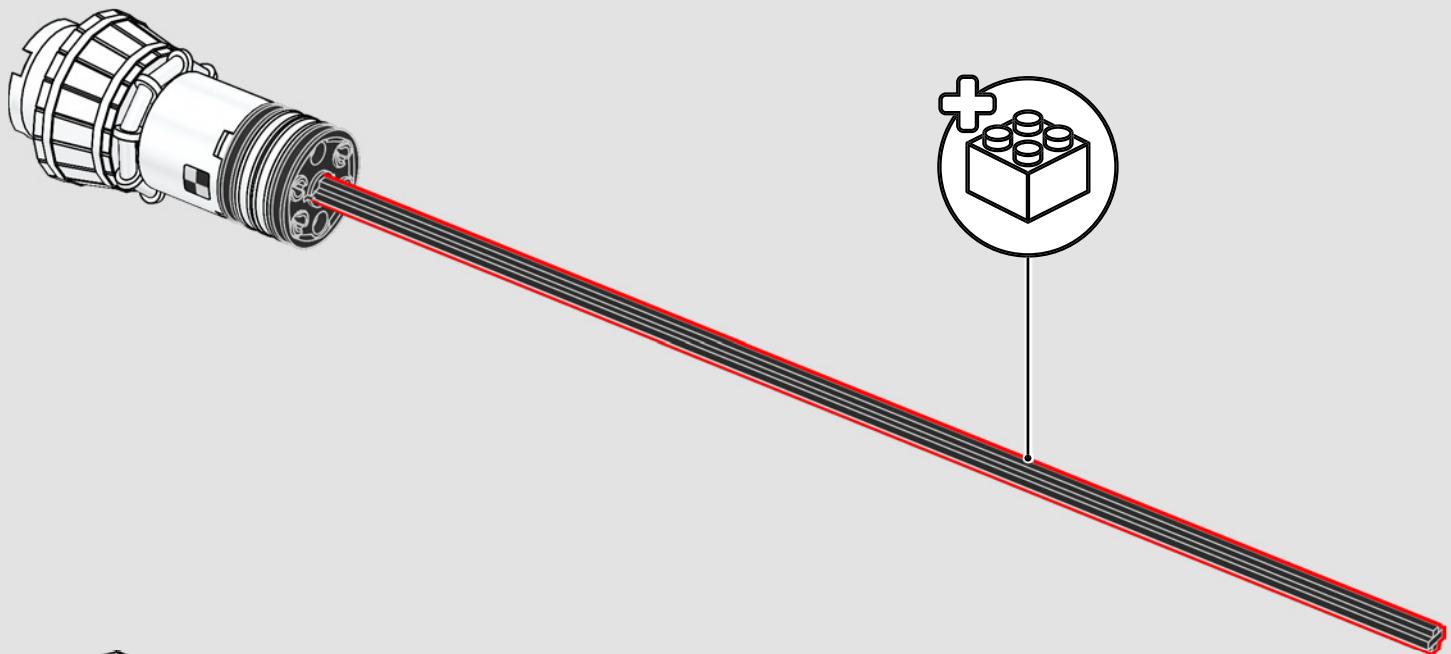
561



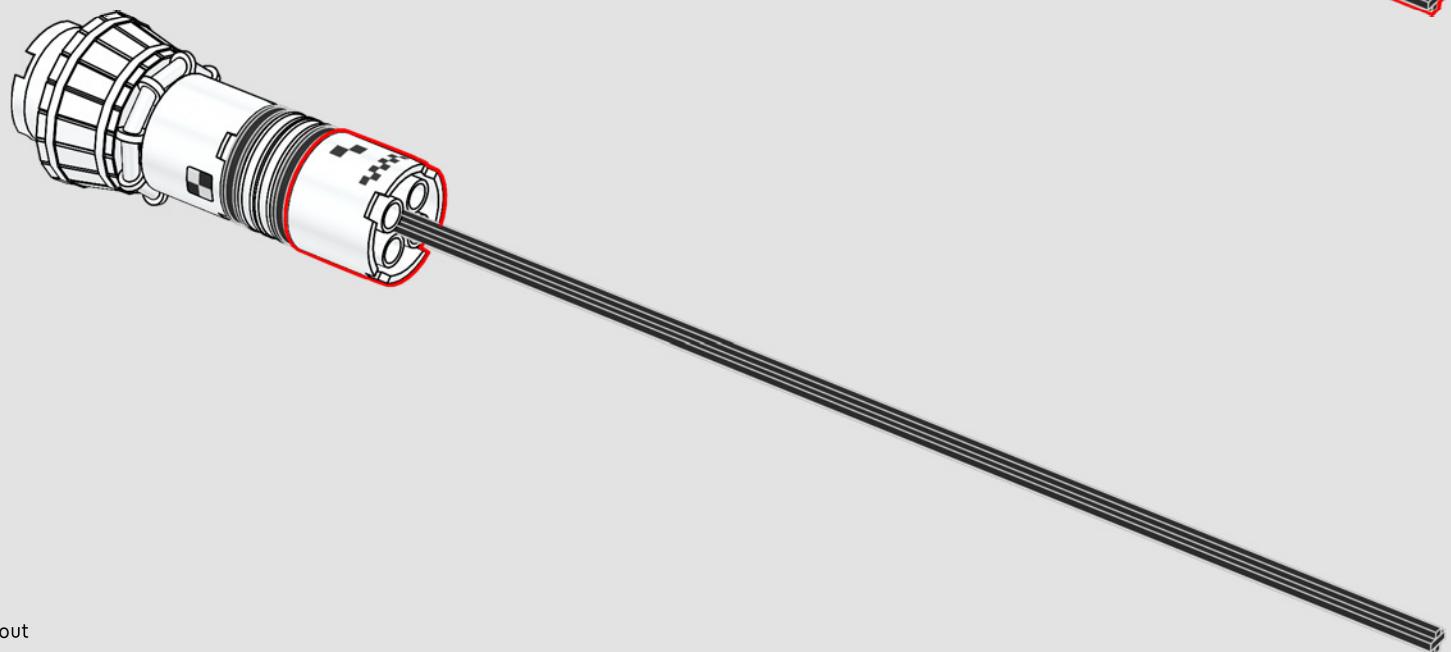
563



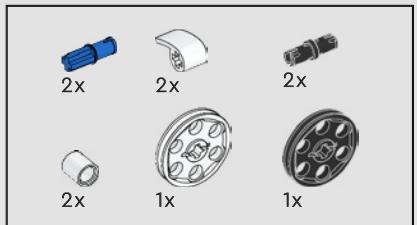
564



565

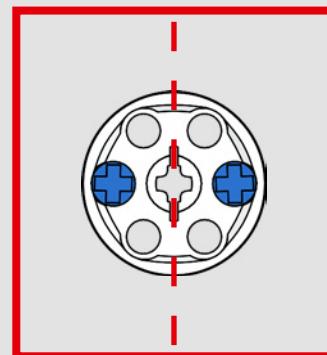
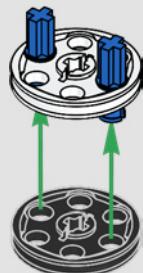


After the SLS launches, boosters operate for about two minutes, then separate from the core stage.



566

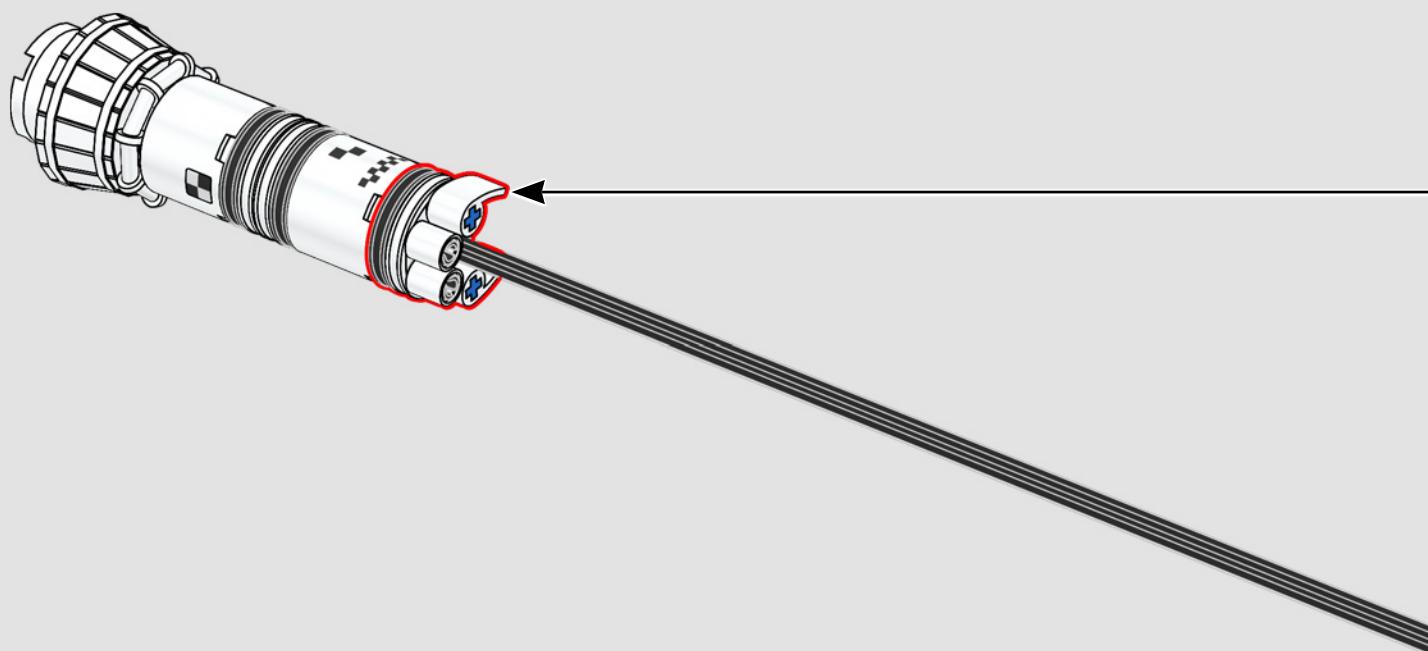
1



2



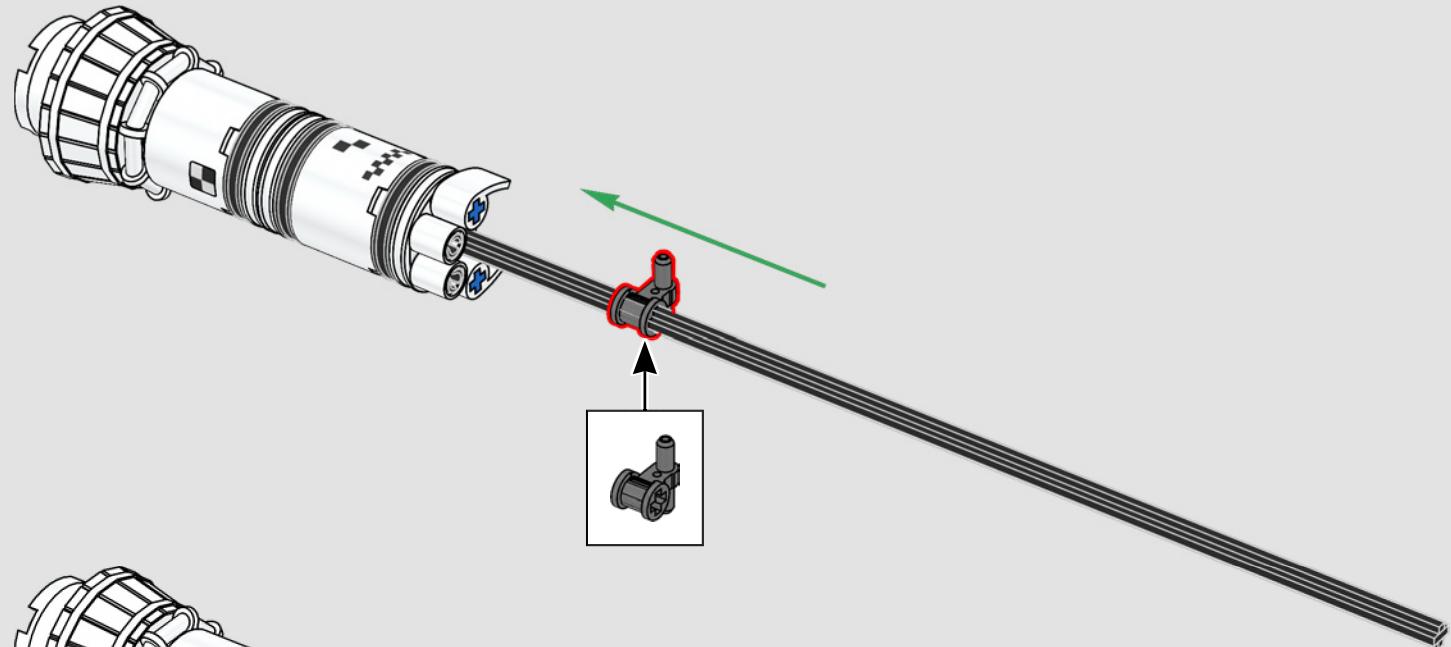
3





1x

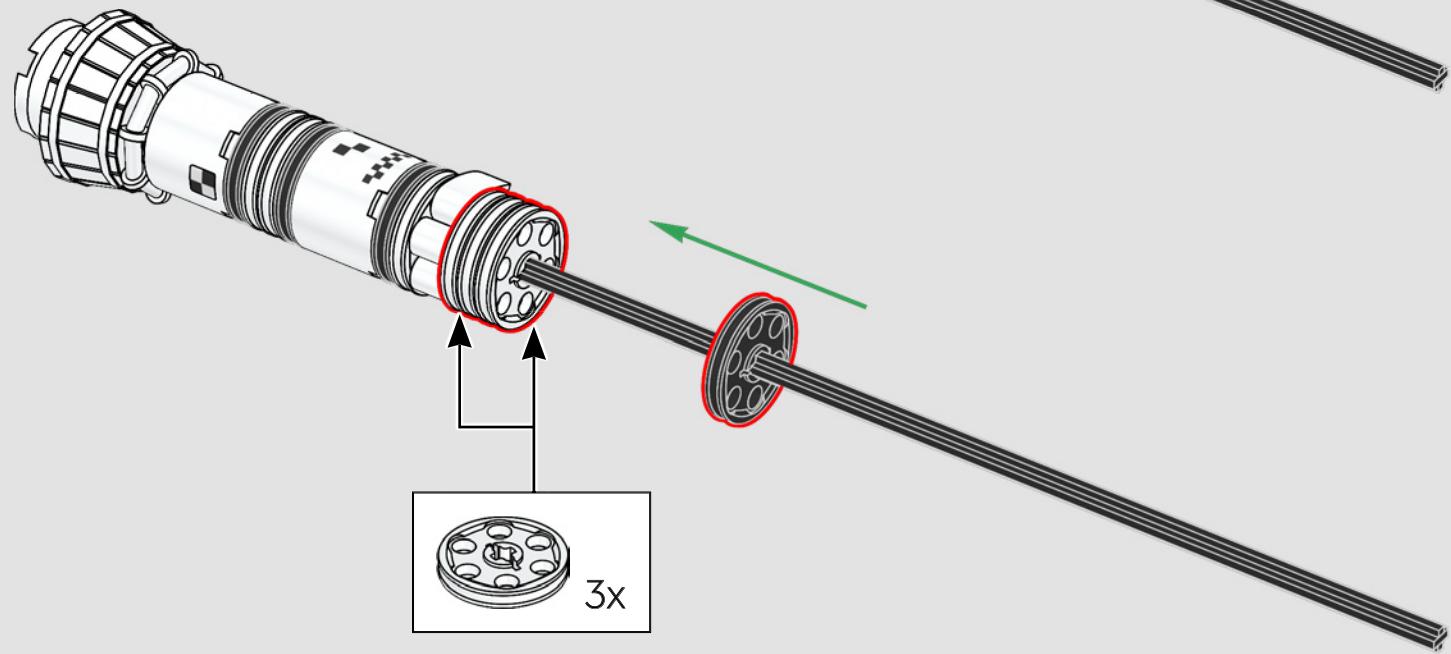
567



1x

3x

568



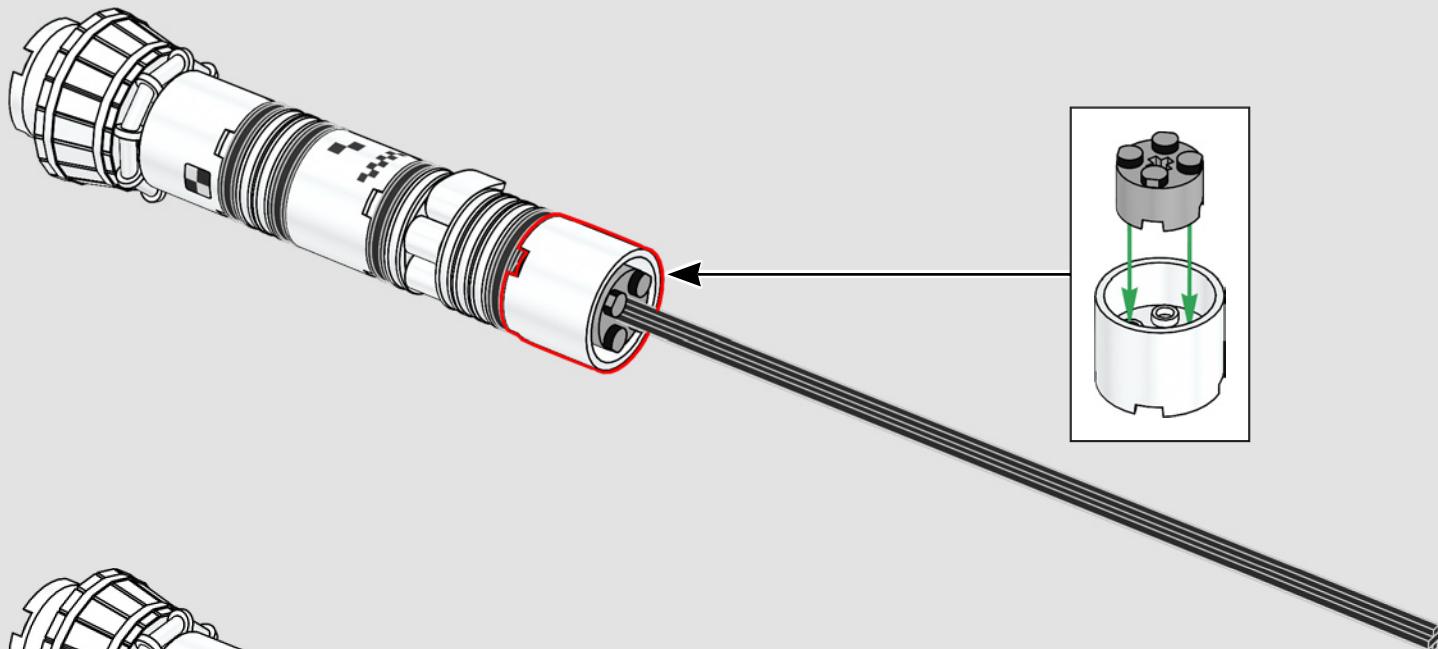


1x



1x

569

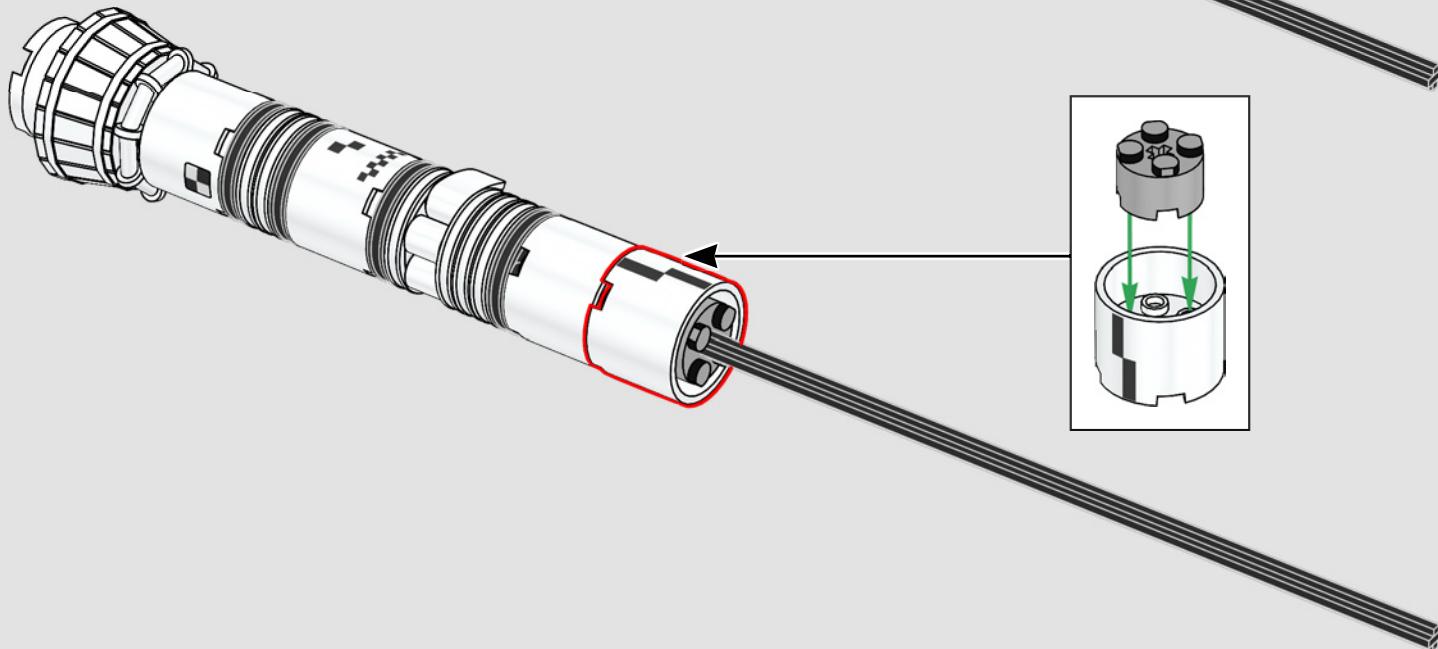


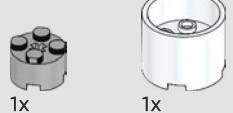
1x



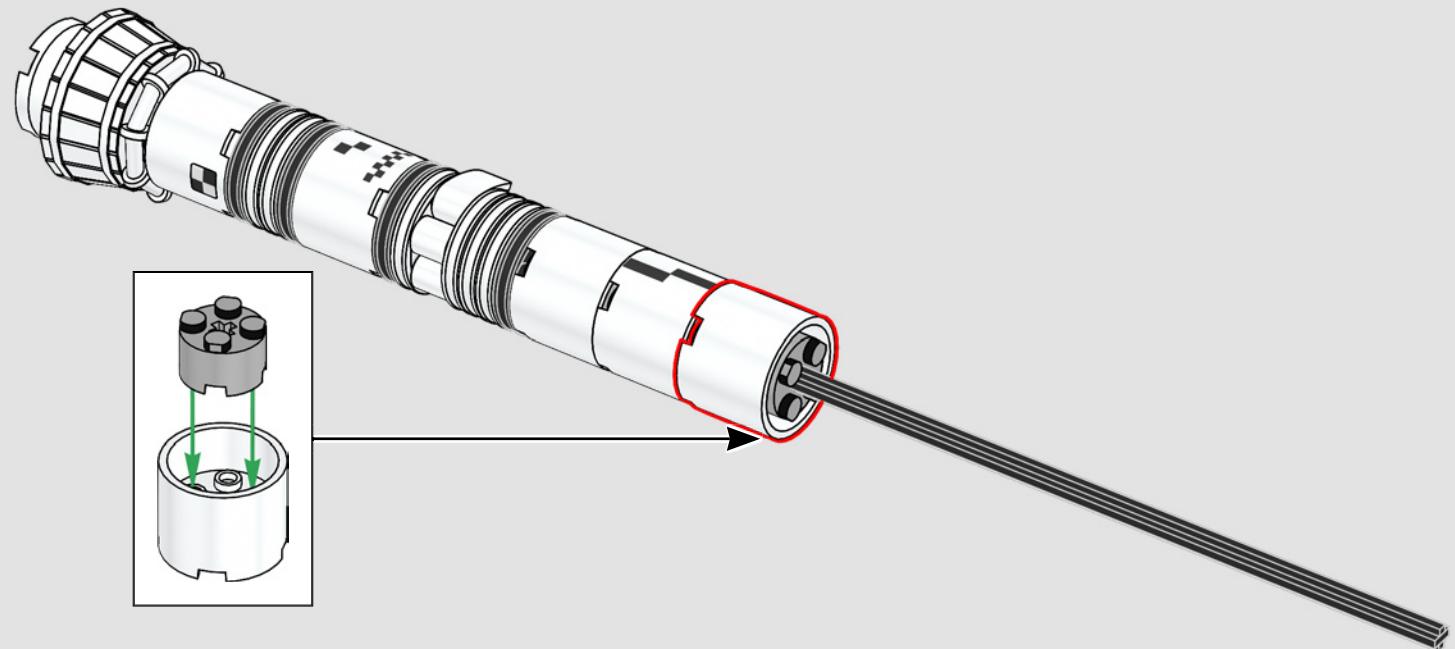
1x

570

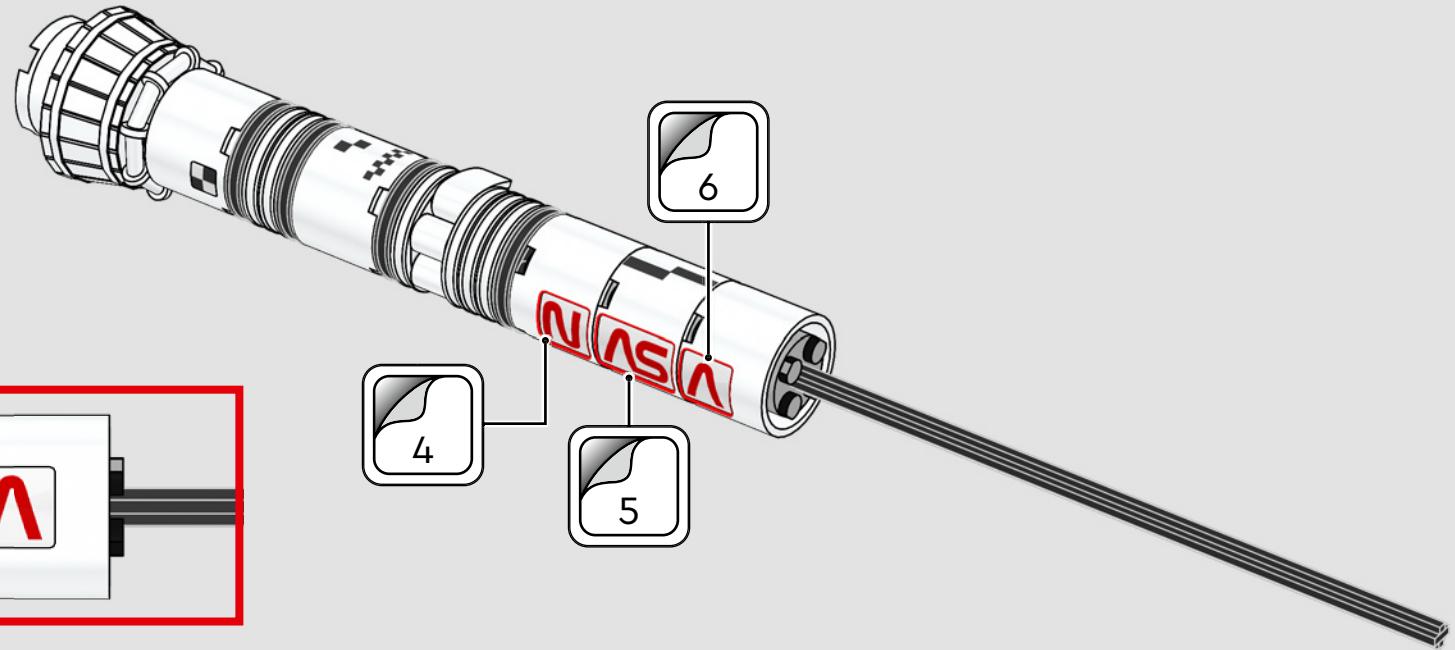




571

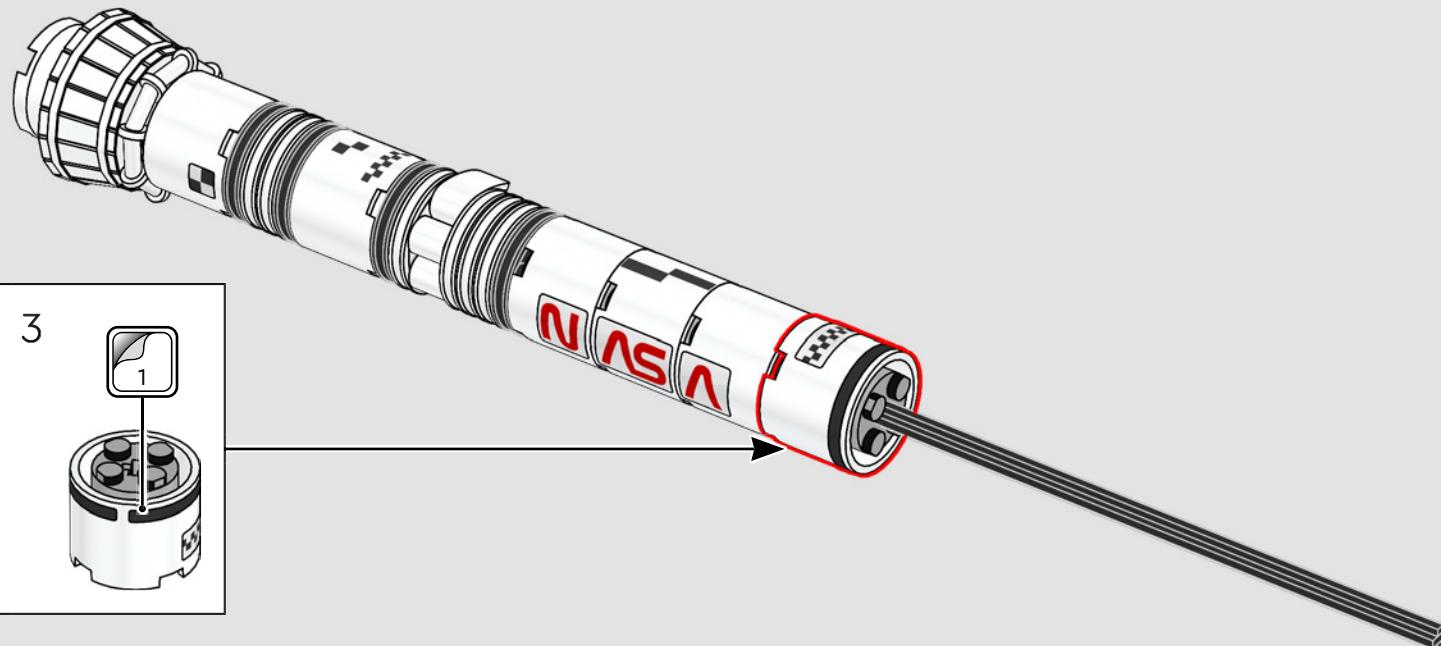
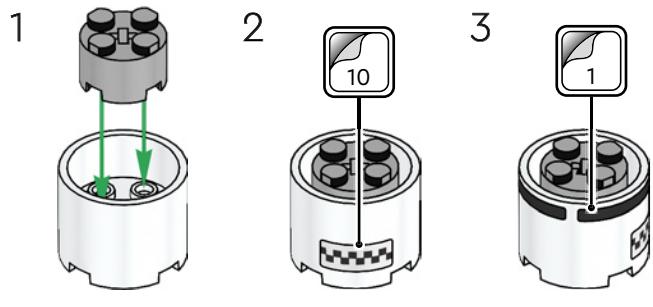


572

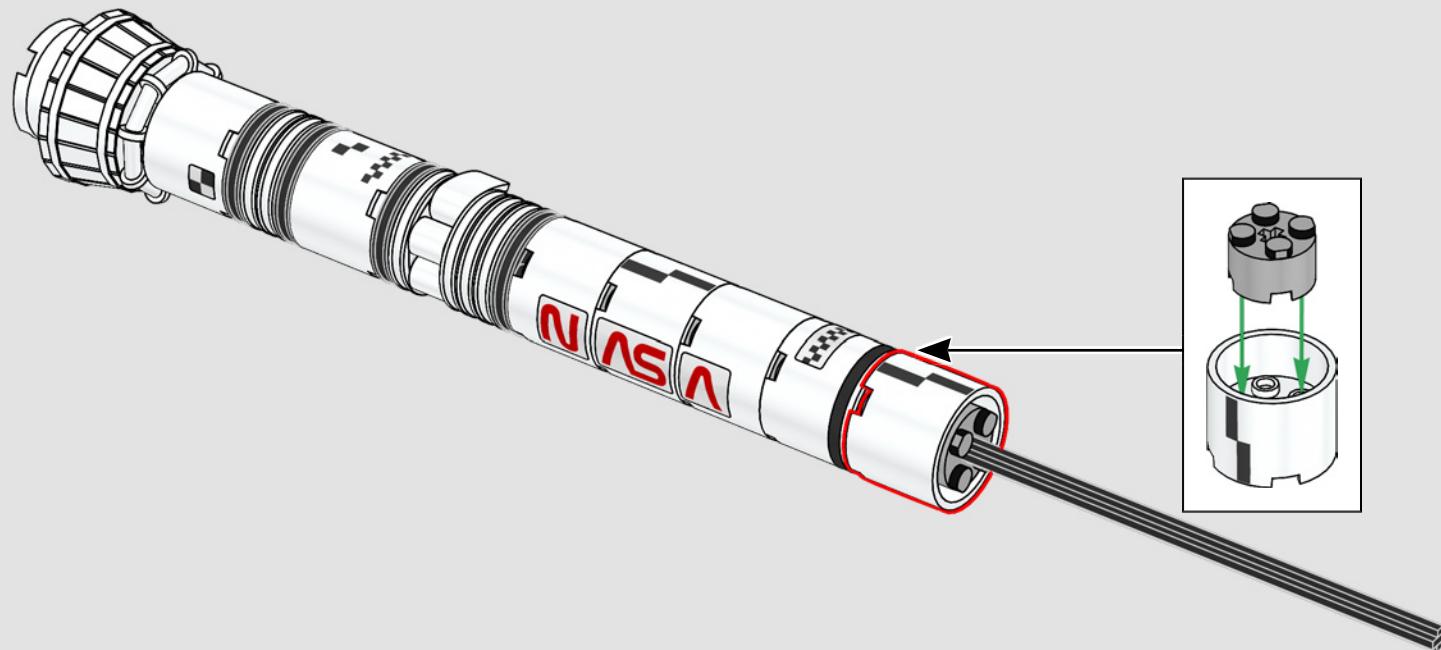
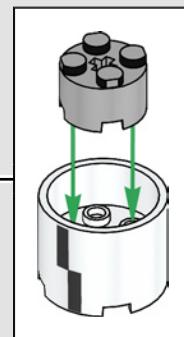




573



574



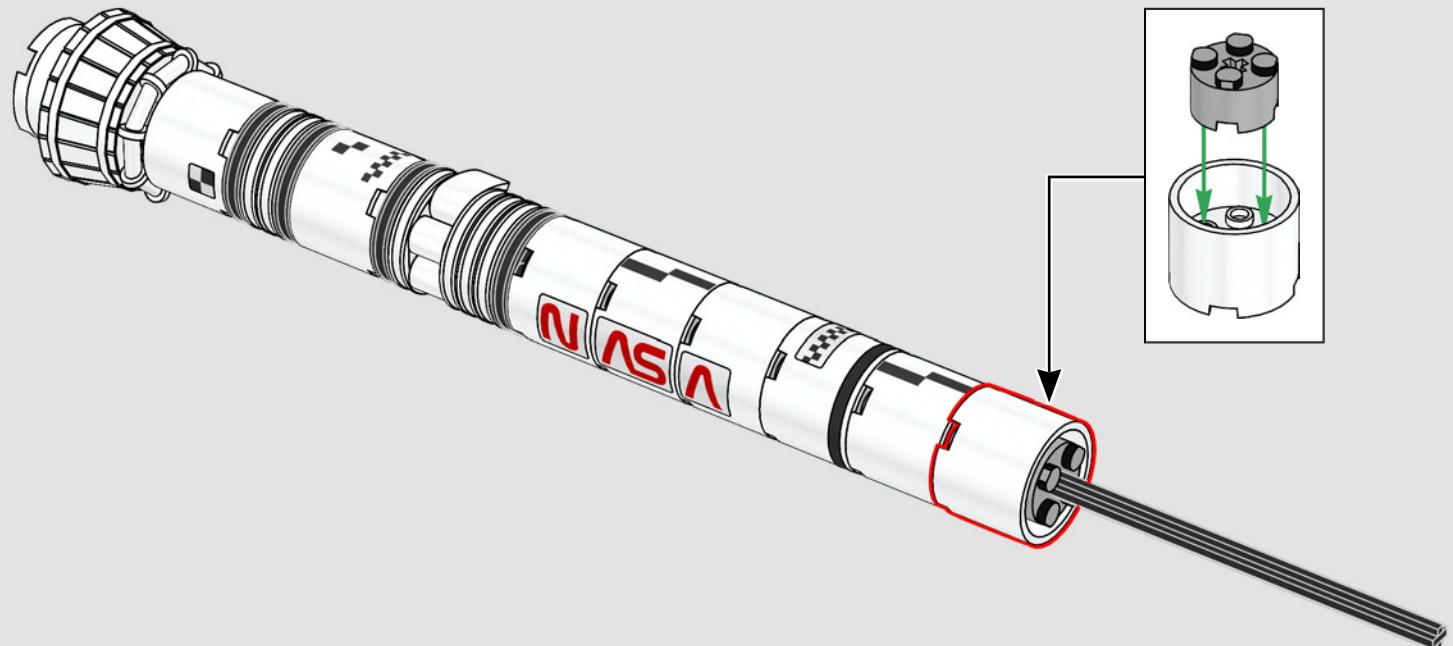


1x



1x

575

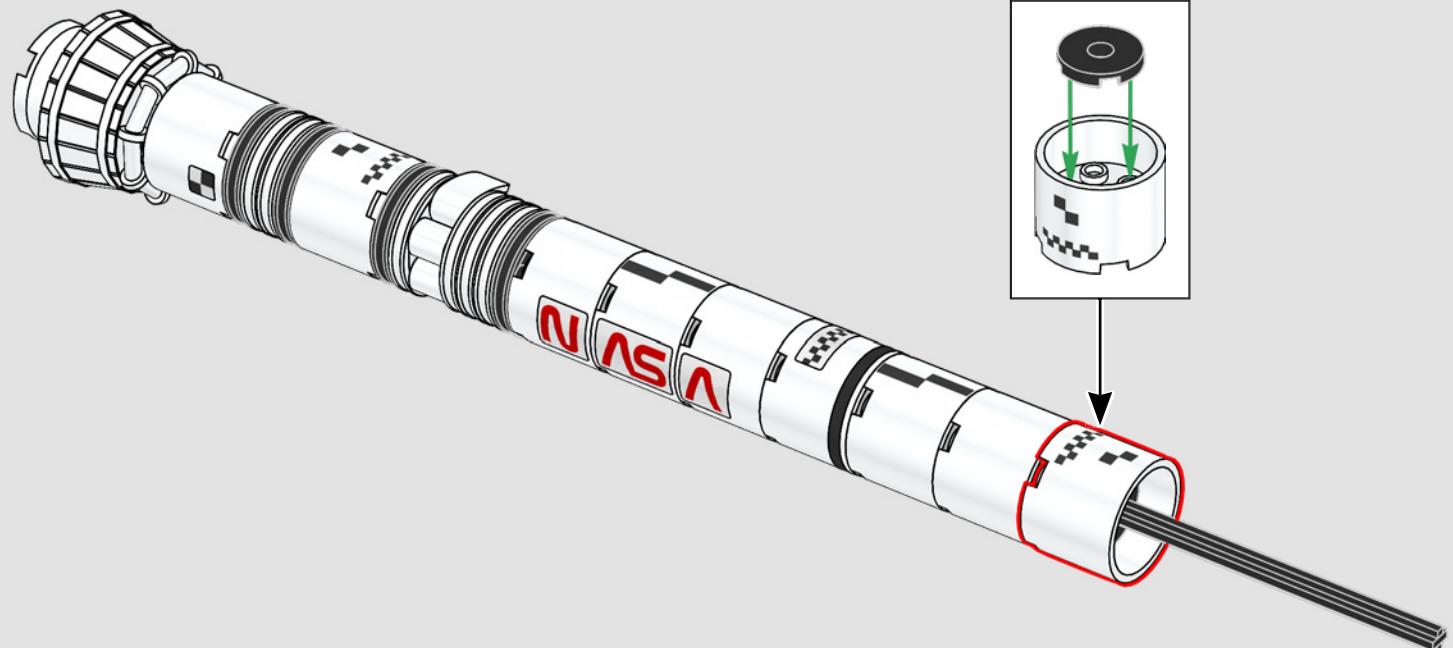


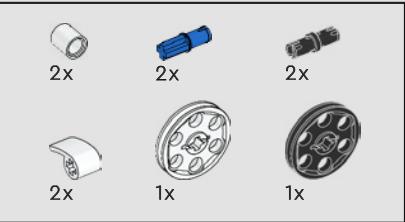
1x



1x

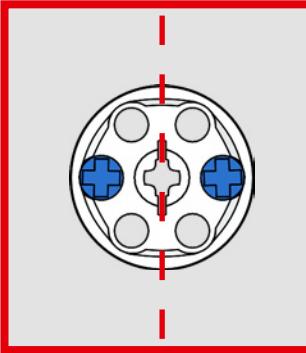
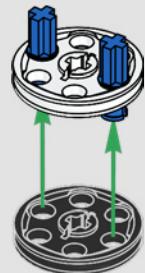
576





577

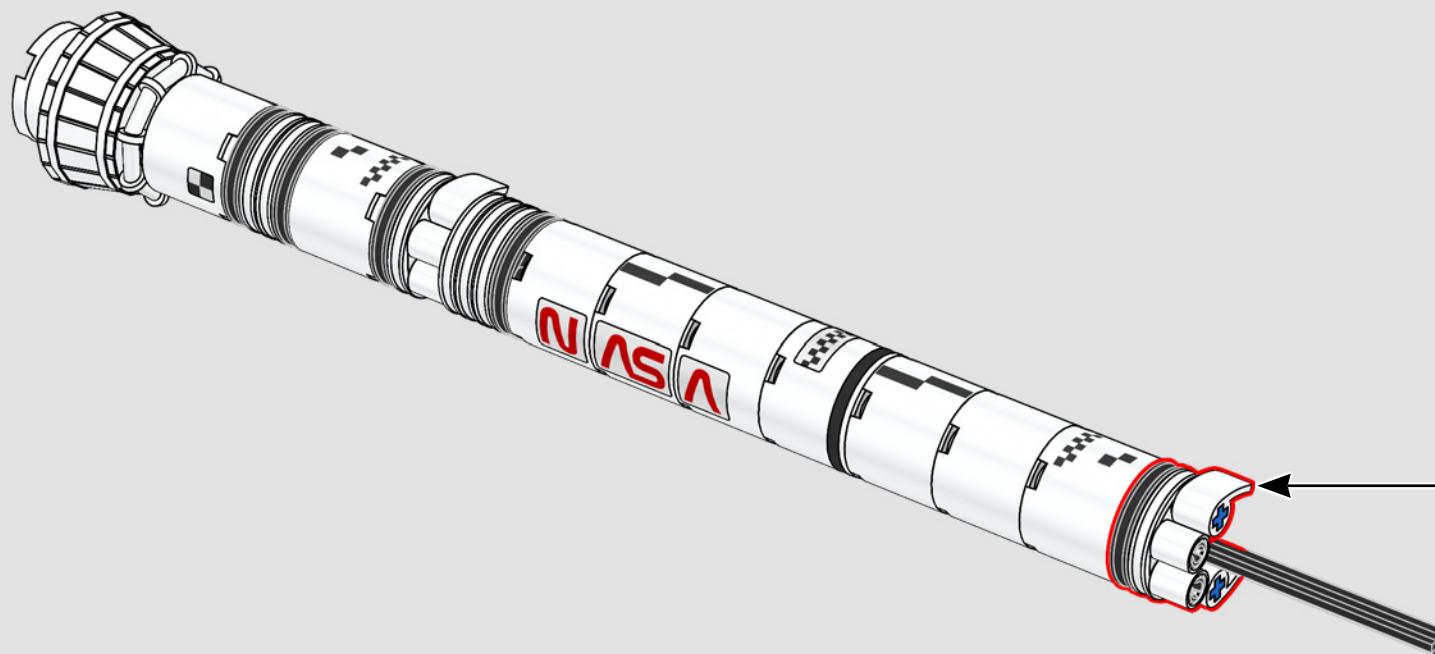
1



2



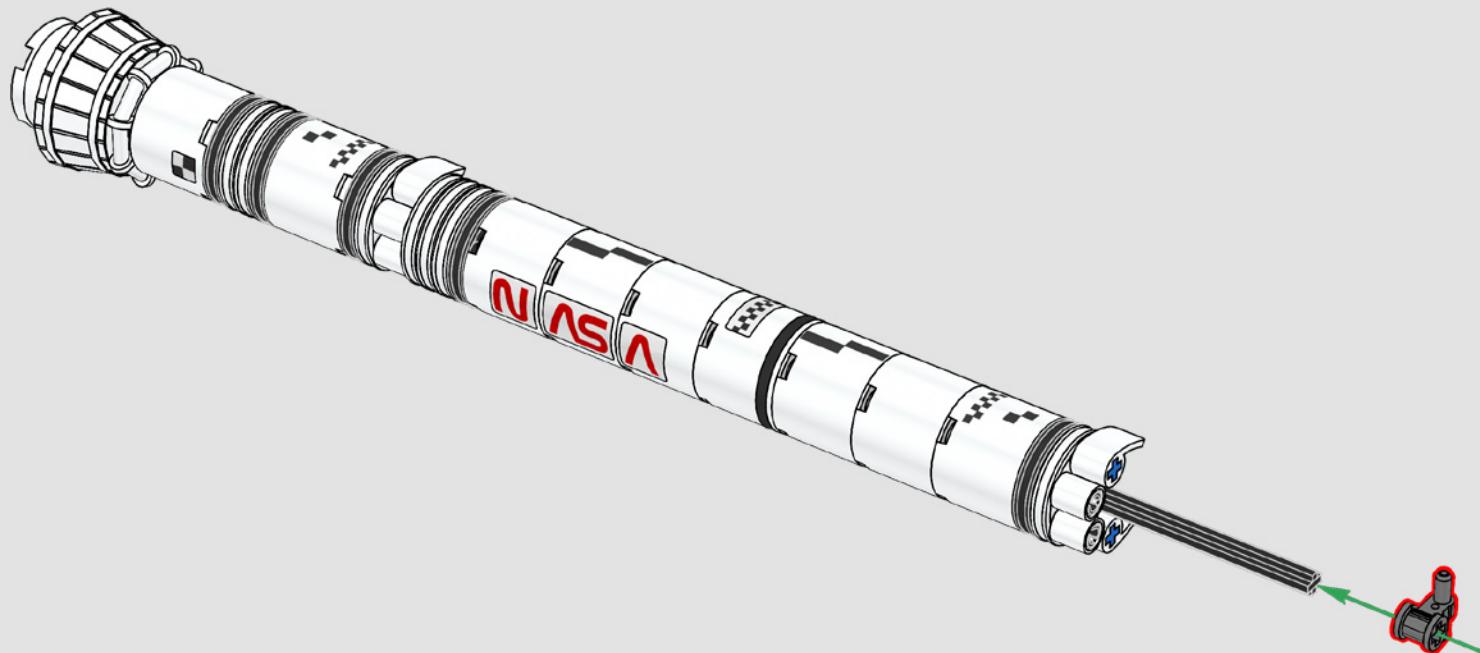
3





1x

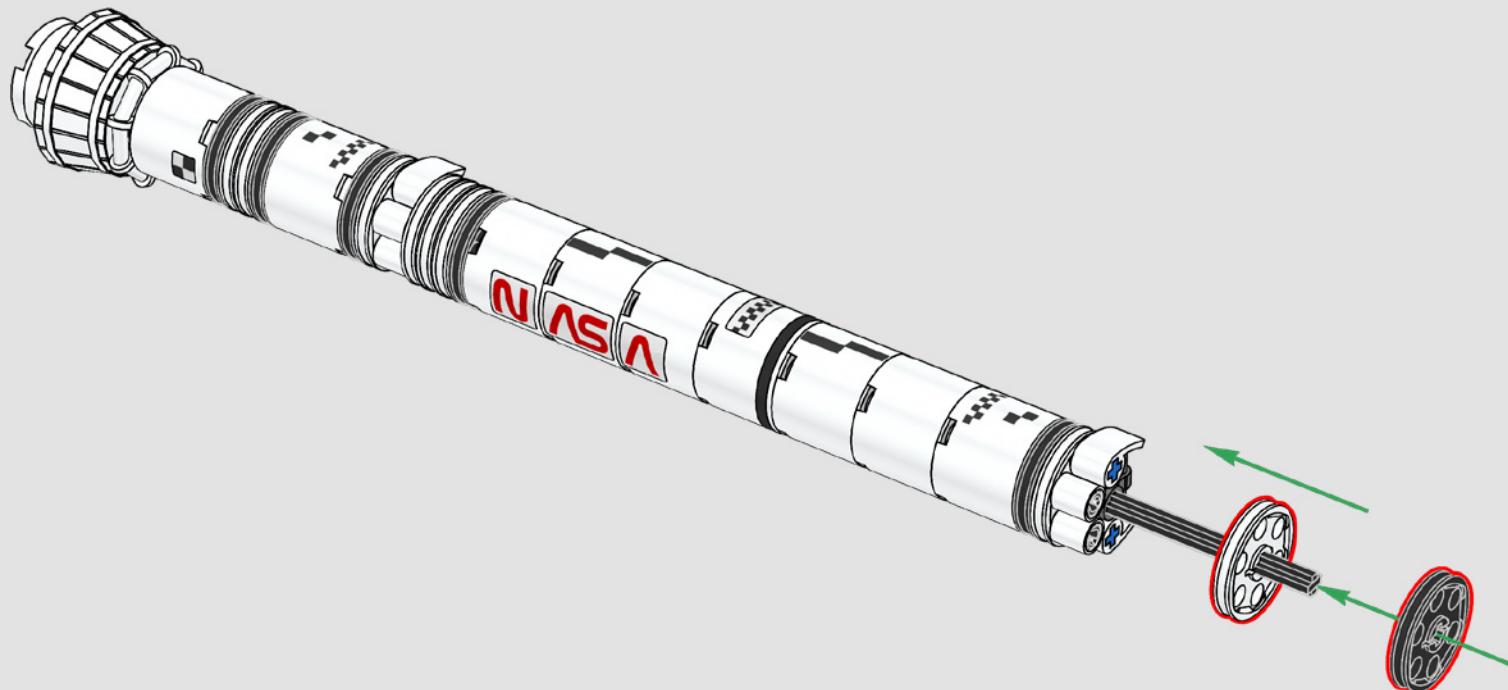
578



1x

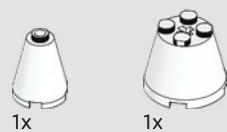
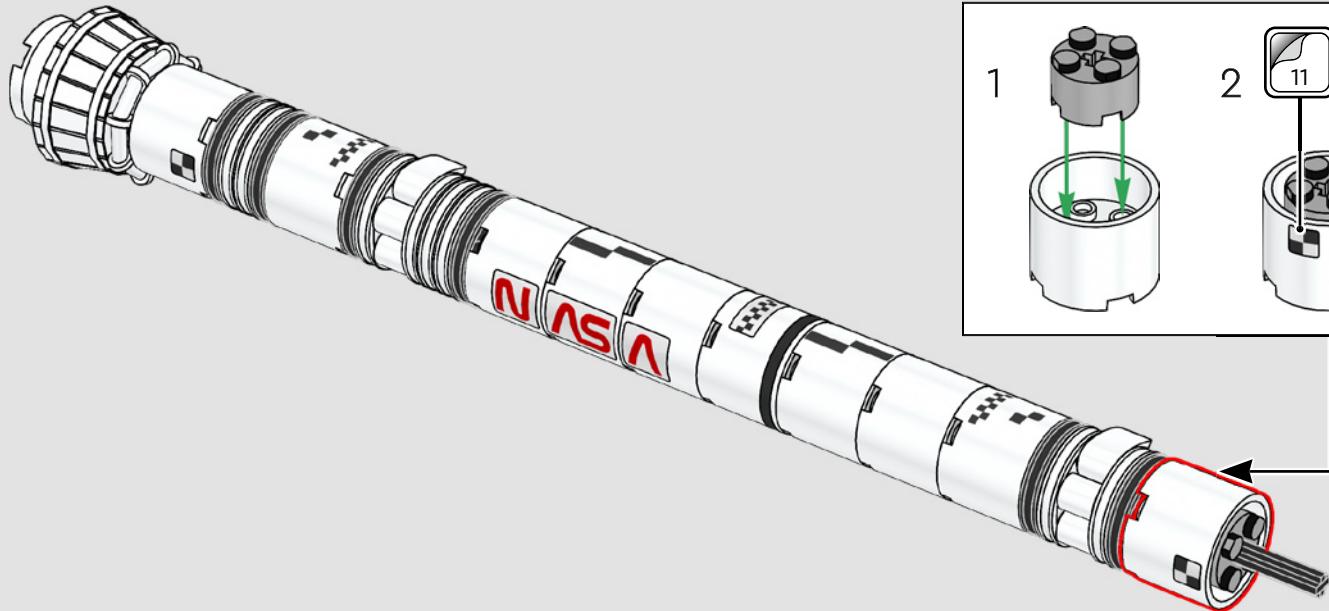
1x

579

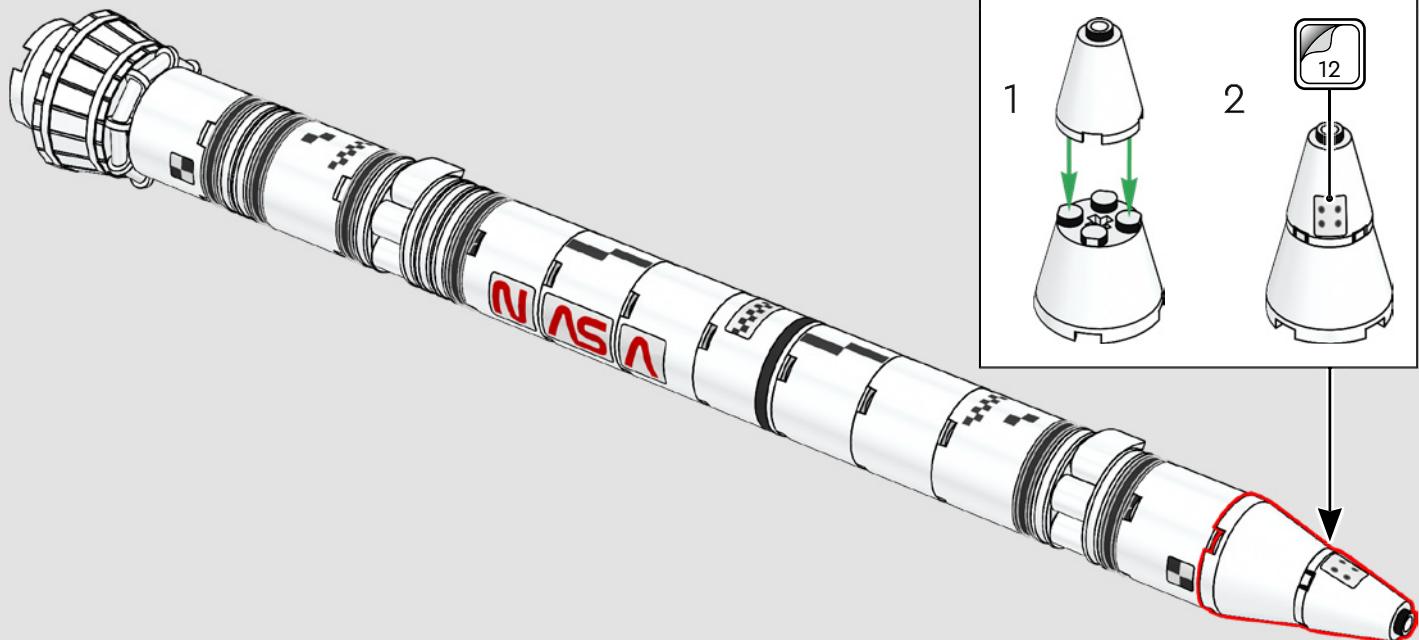




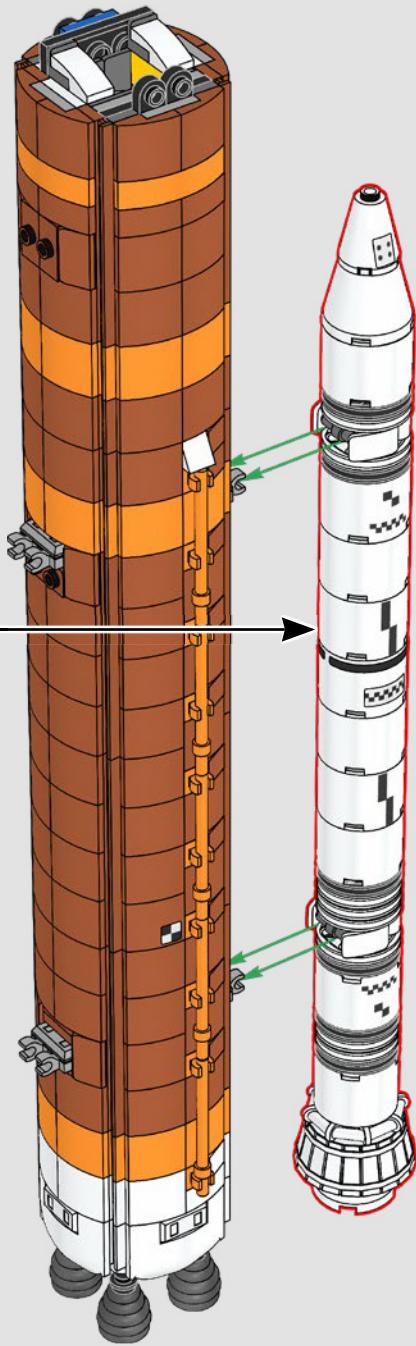
580

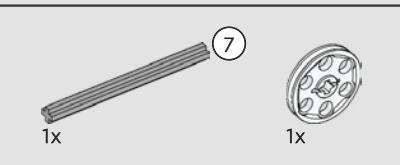
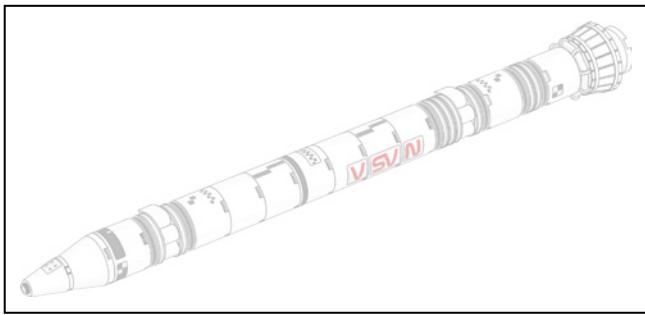


581

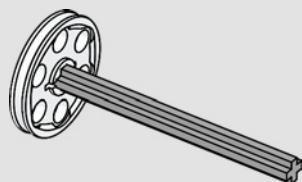


582

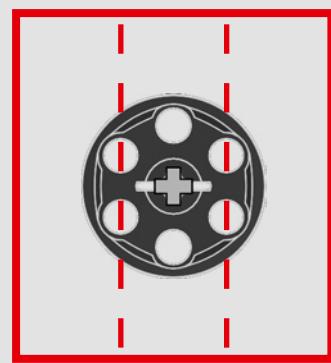
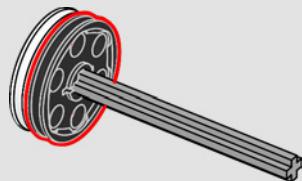




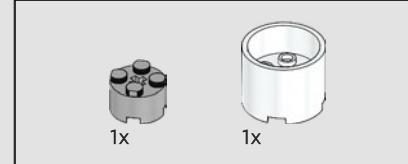
583



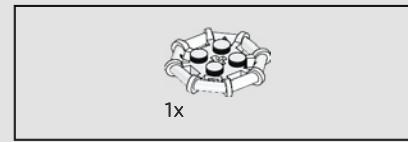
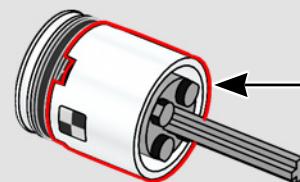
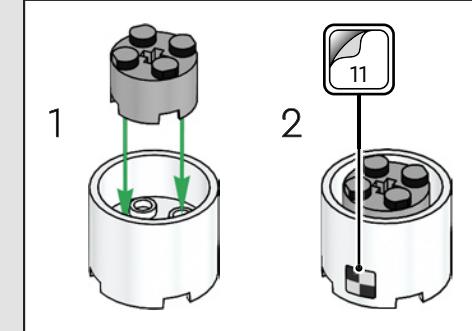
584



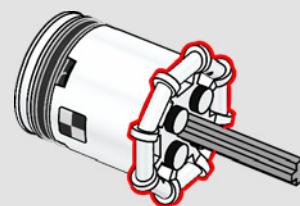
1:1

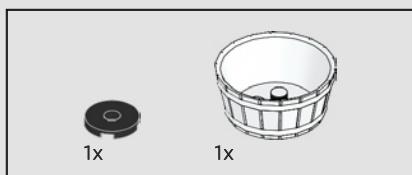


585

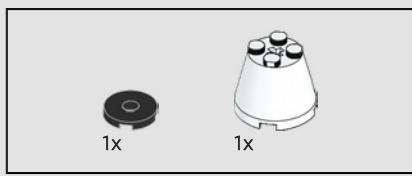
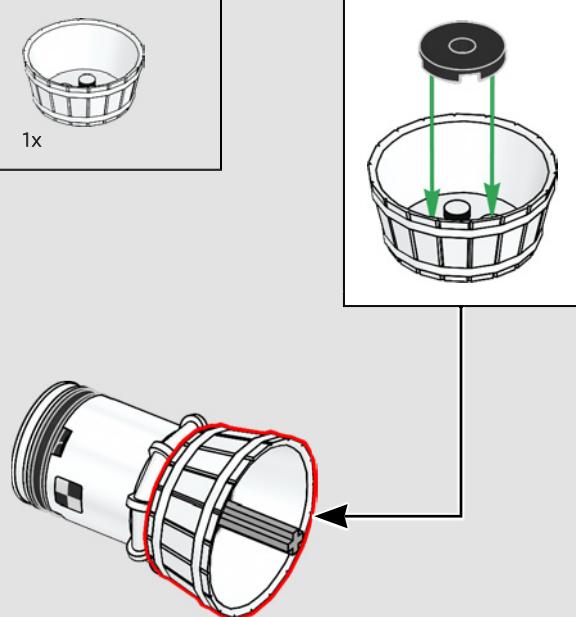


586

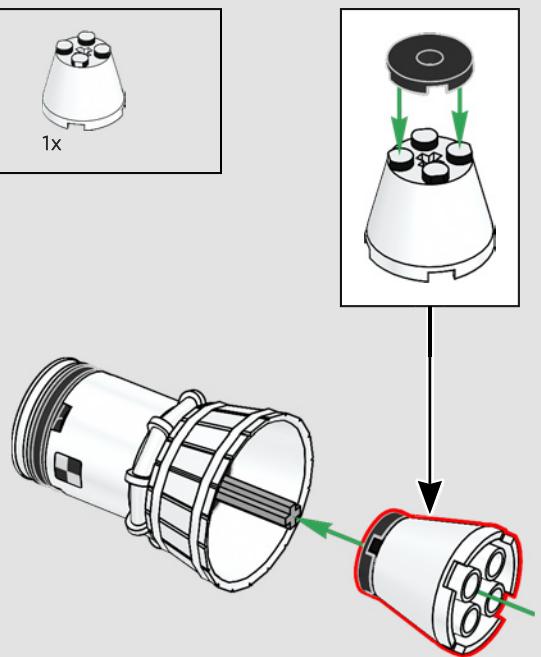




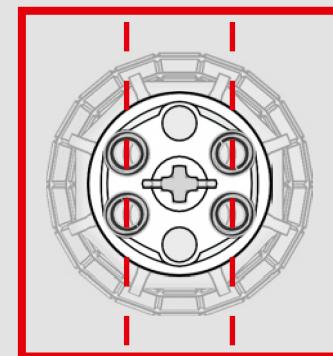
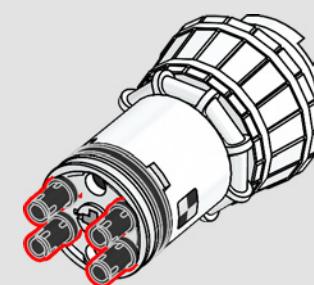
587



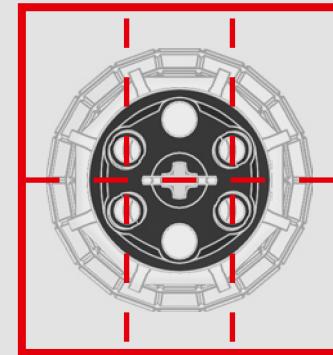
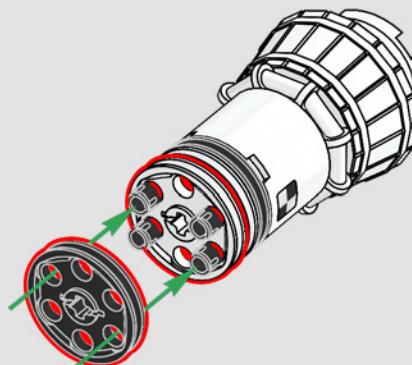
588



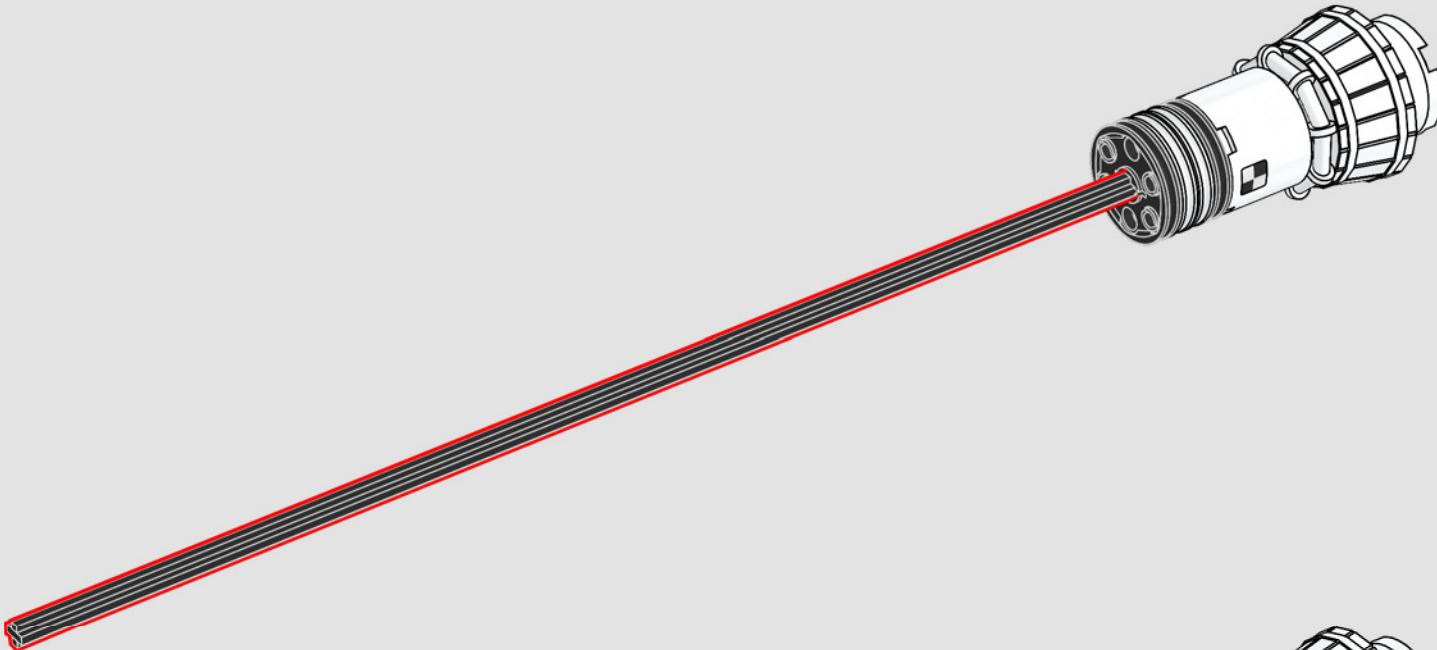
589



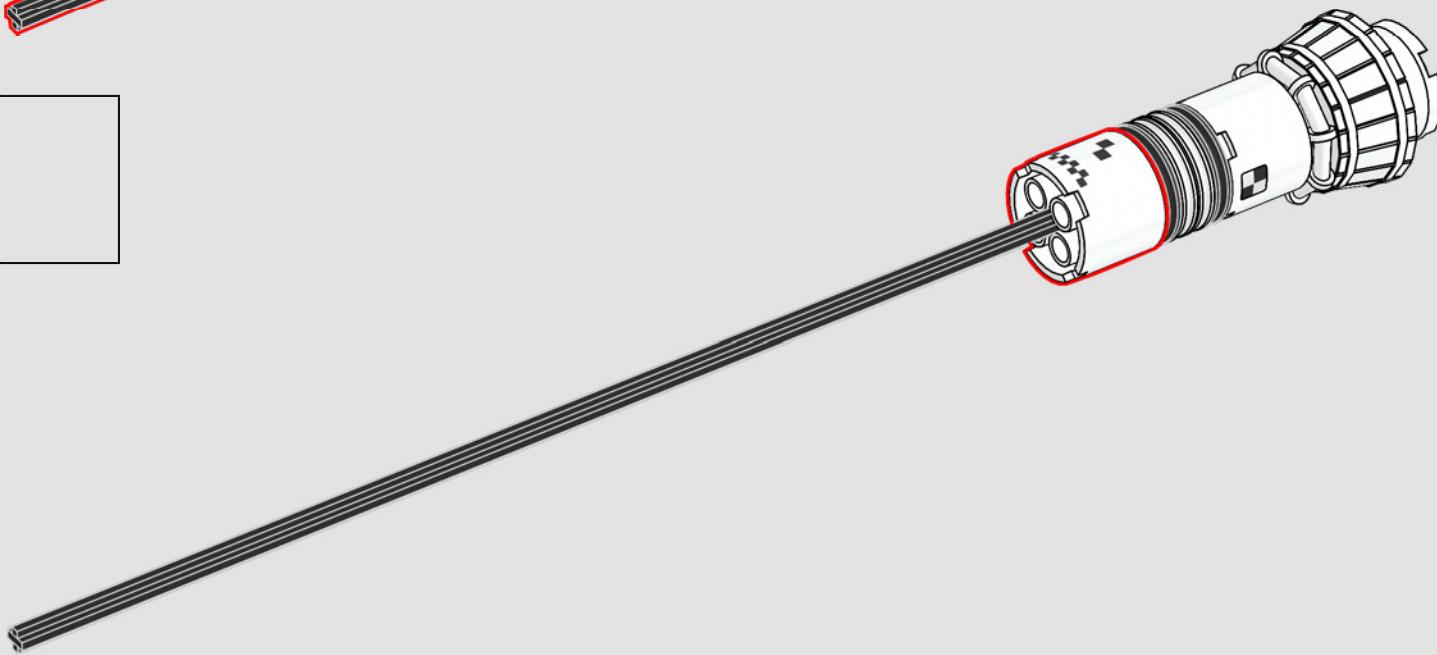
590

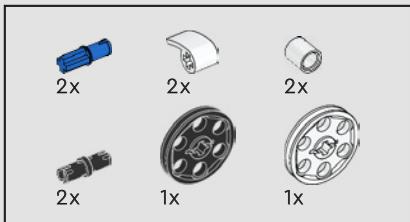


591



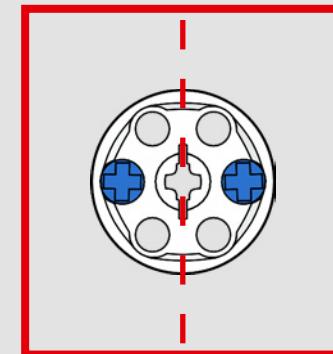
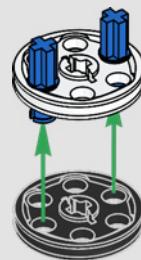
592





593

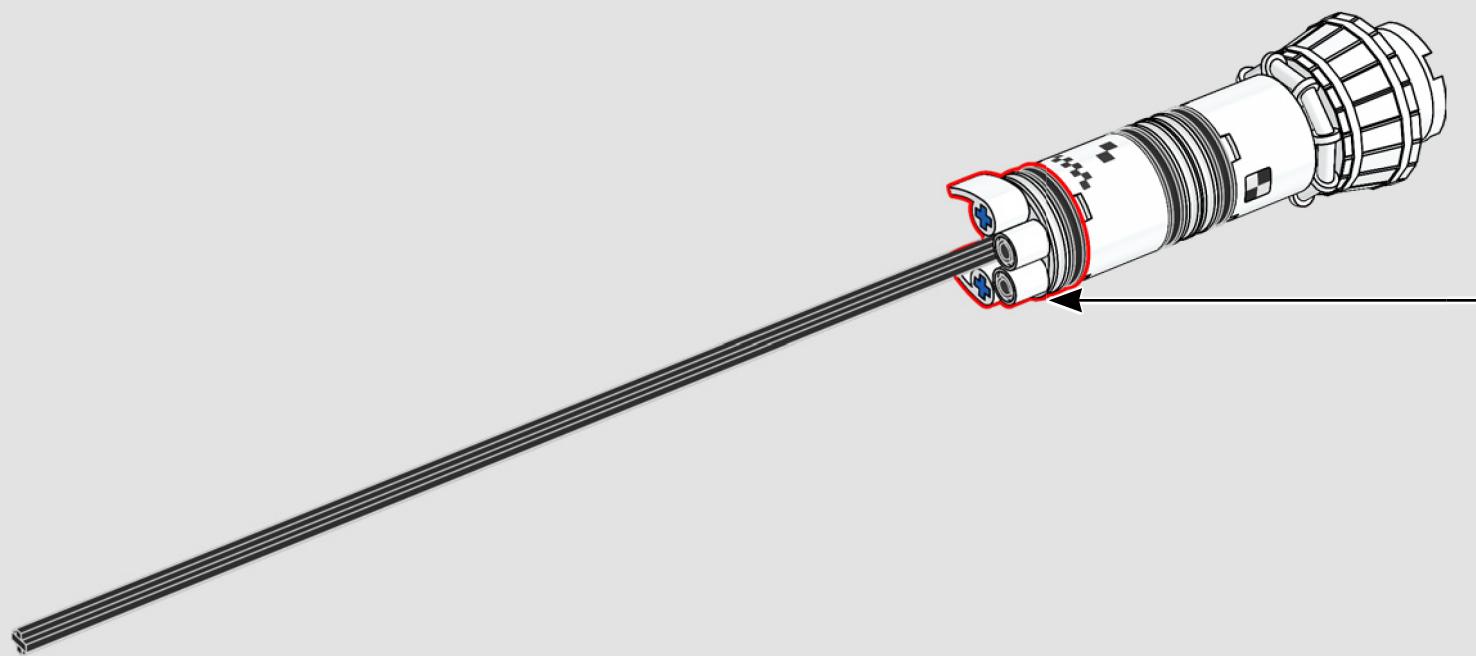
1



2



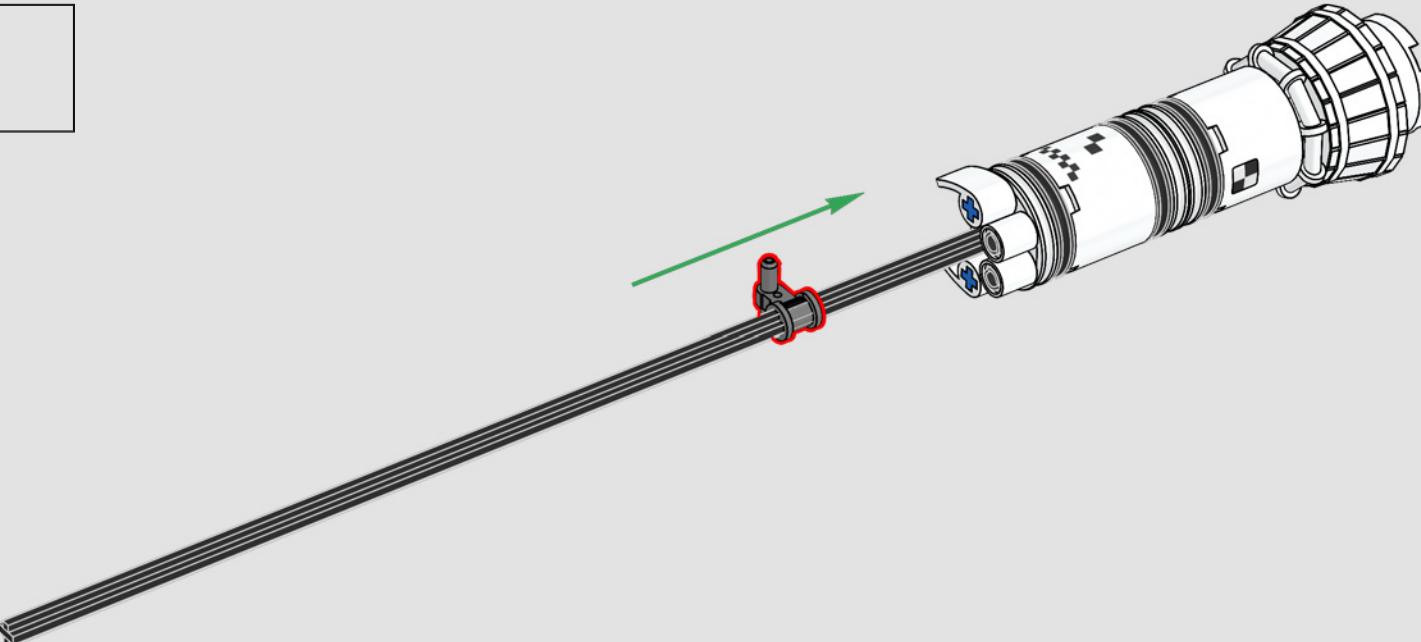
3





1x

594

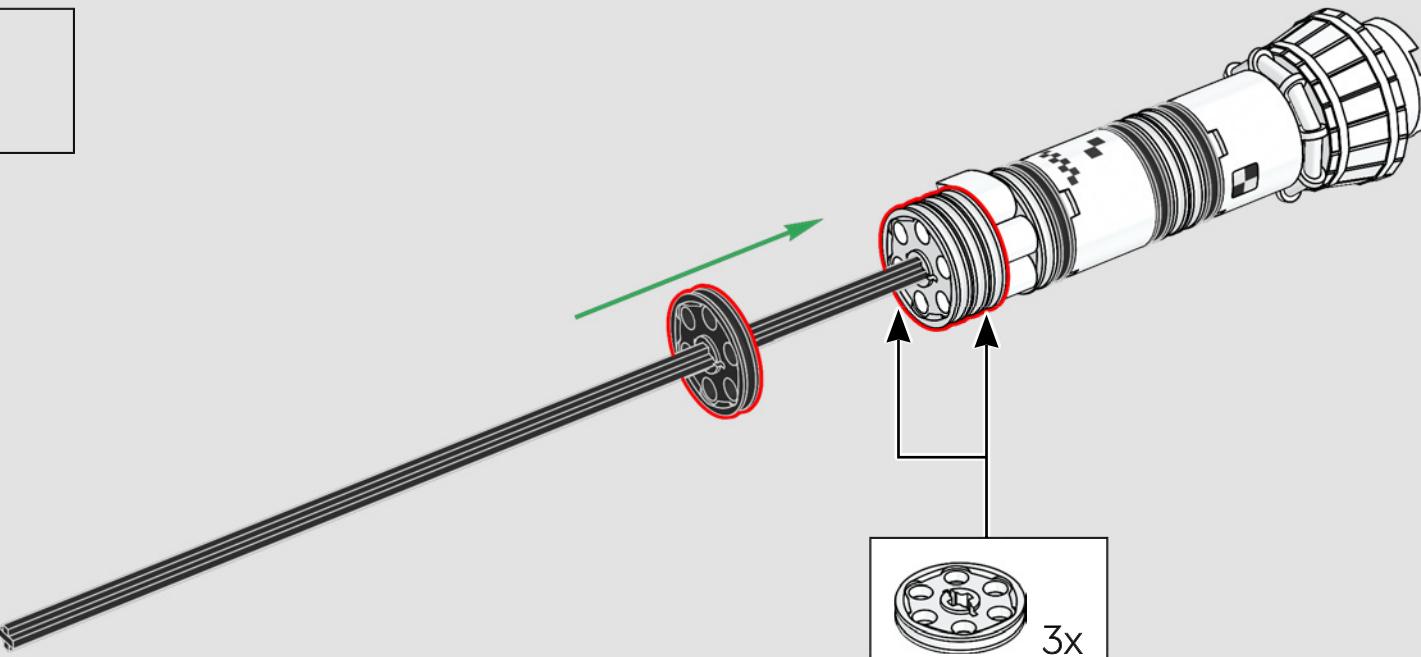


1x



3x

595



3x

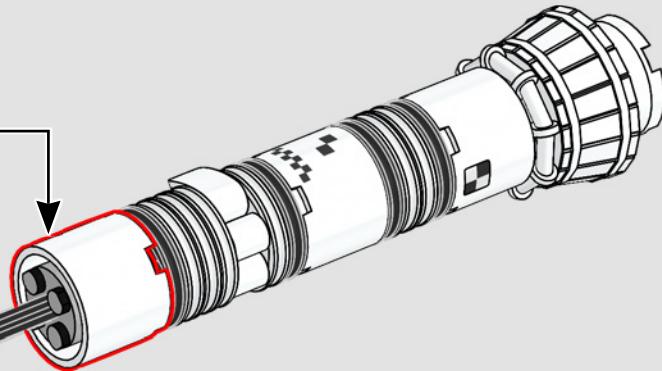
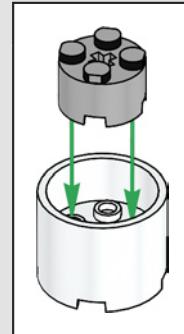


1x



1x

596

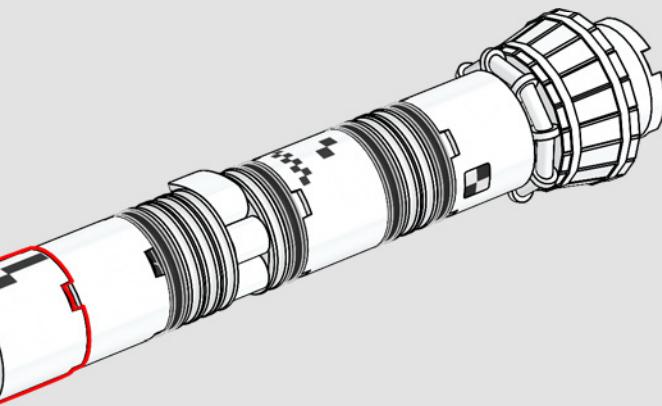
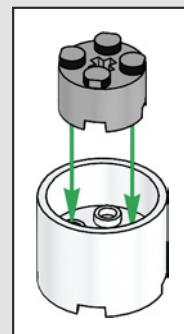


1x



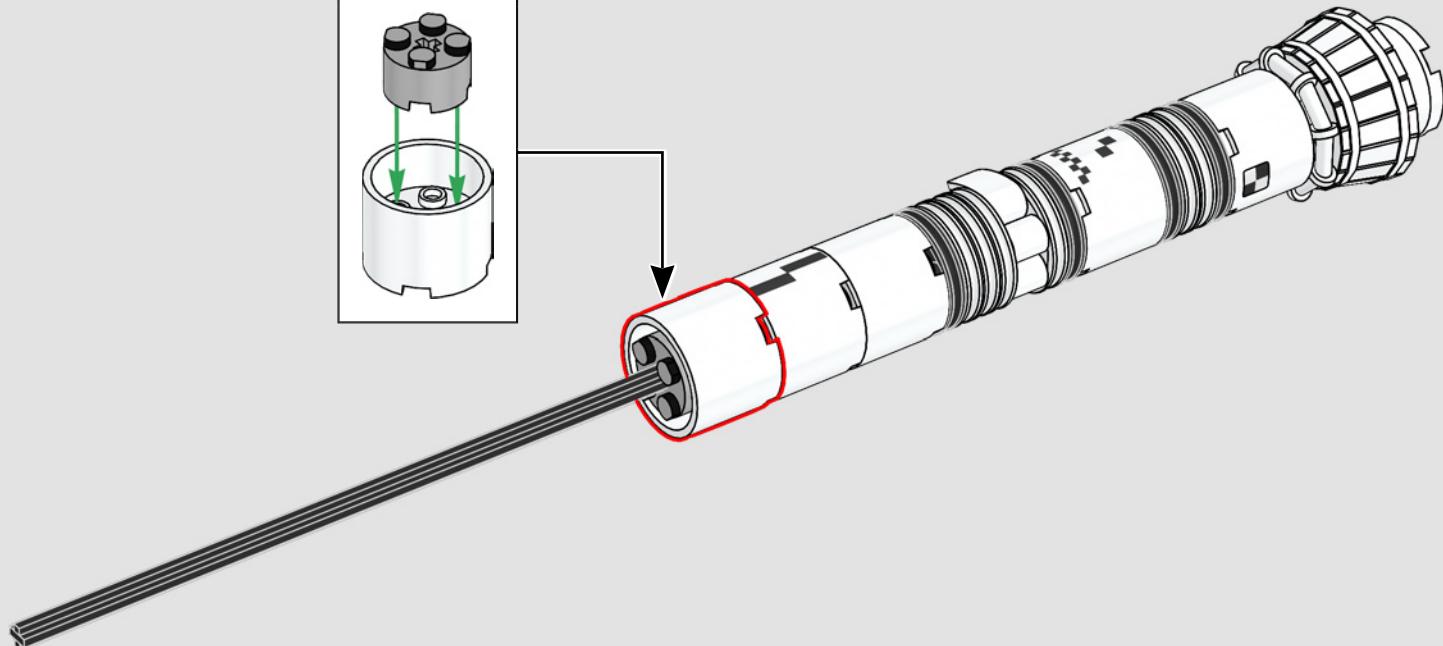
1x

597

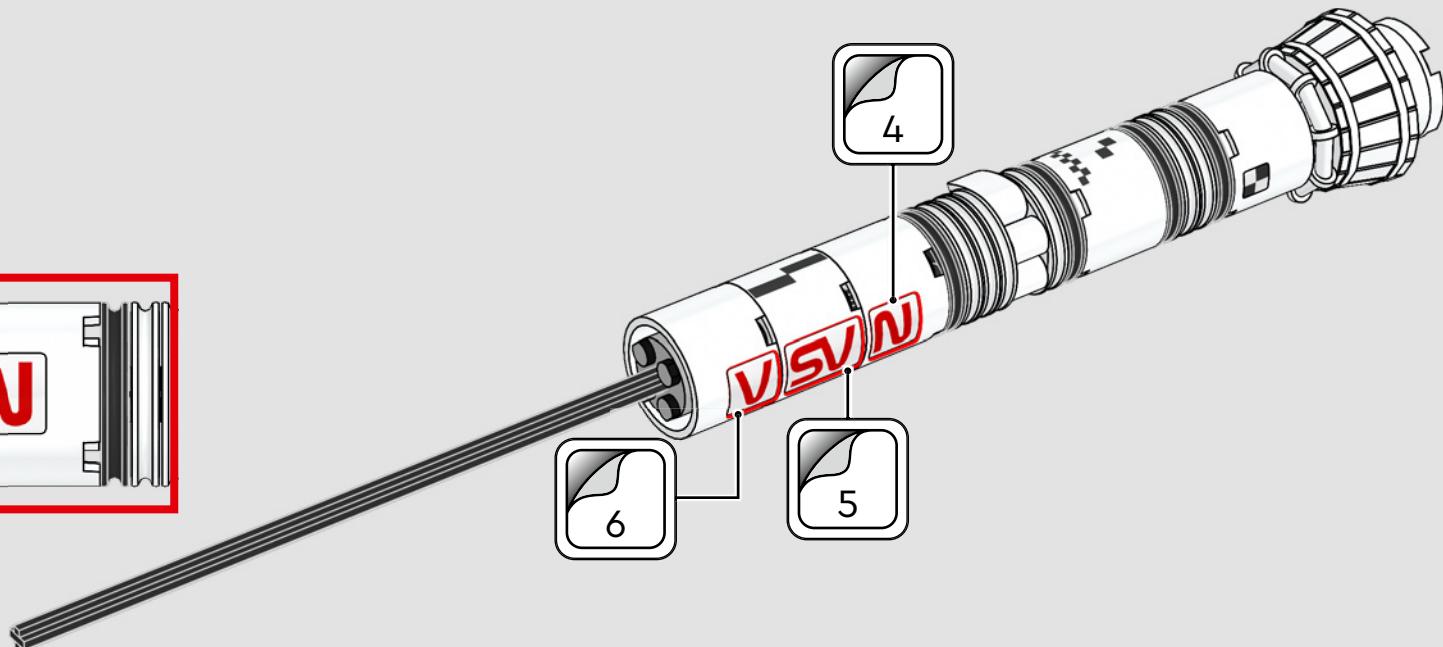
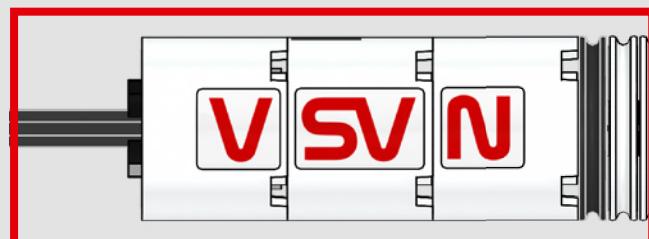


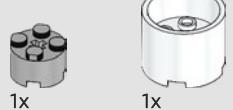


598

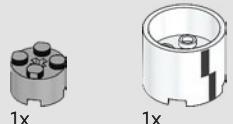
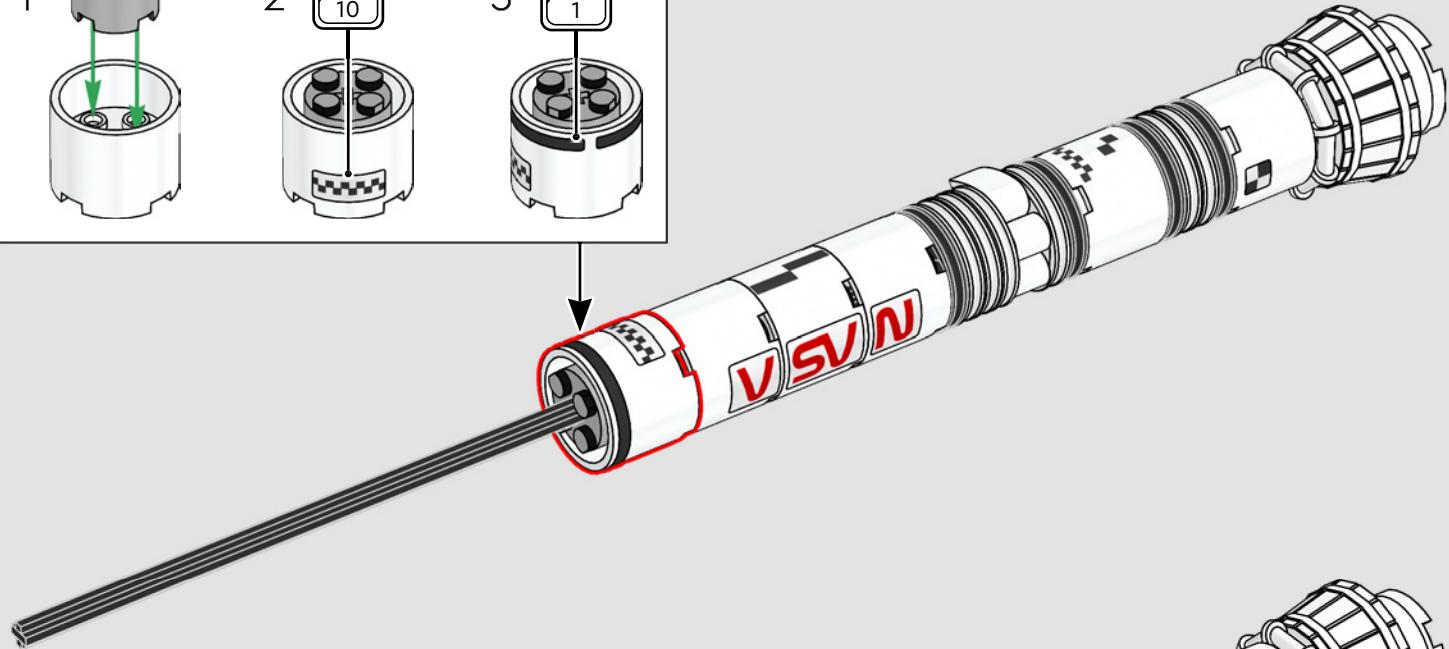
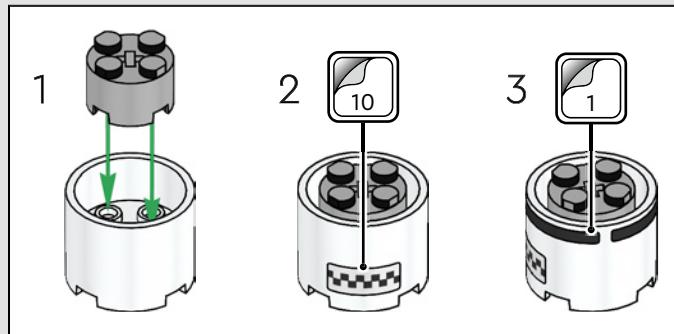


599

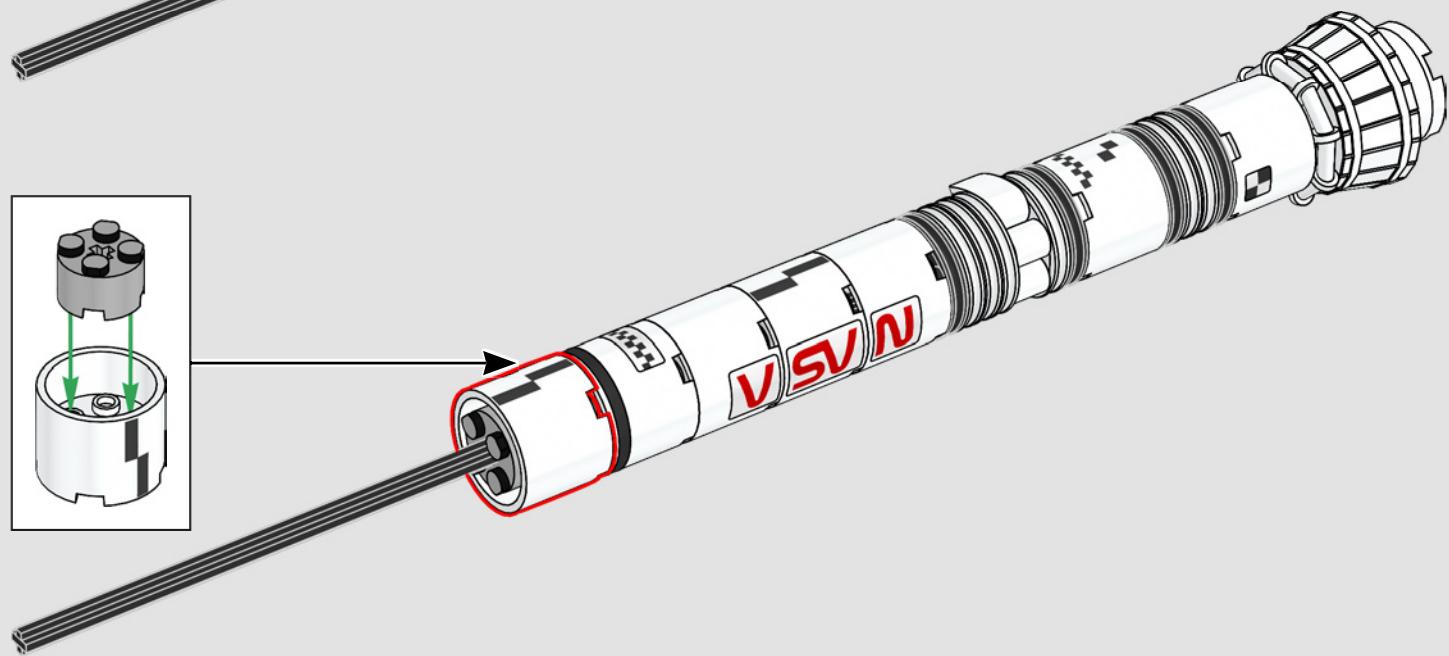
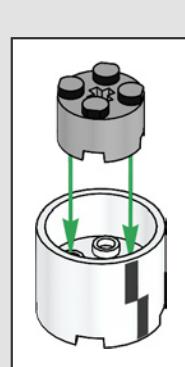




600



601



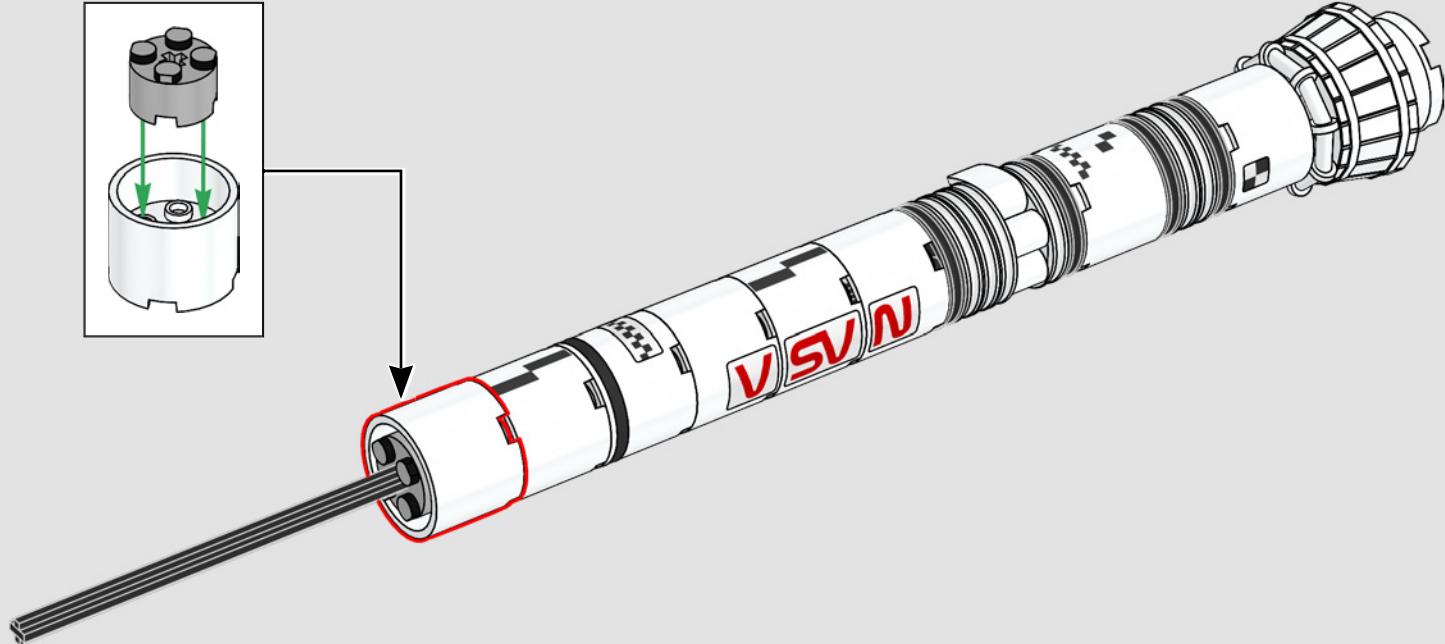
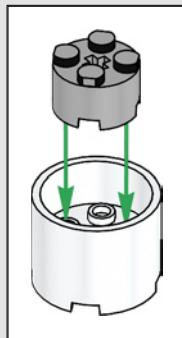


1x



1x

602

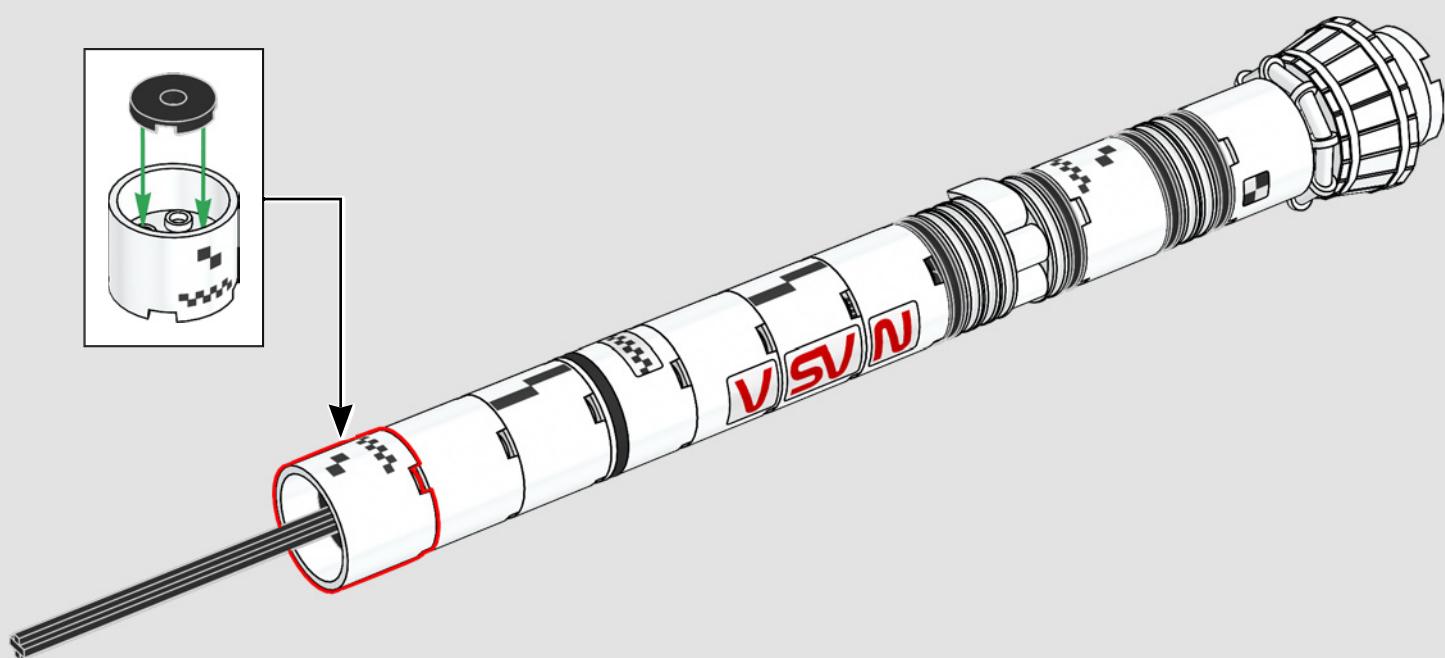
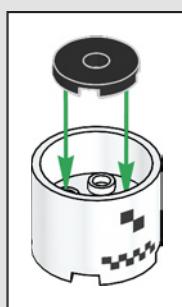


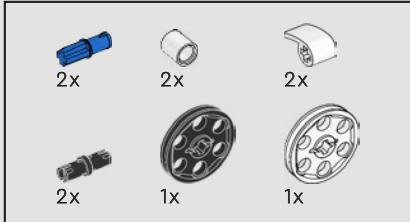
1x



1x

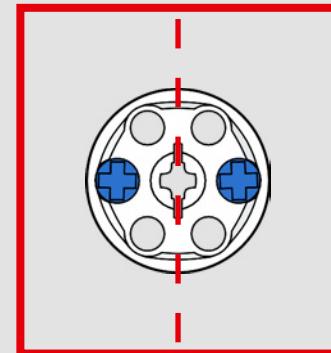
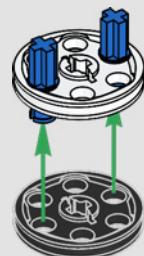
603





604

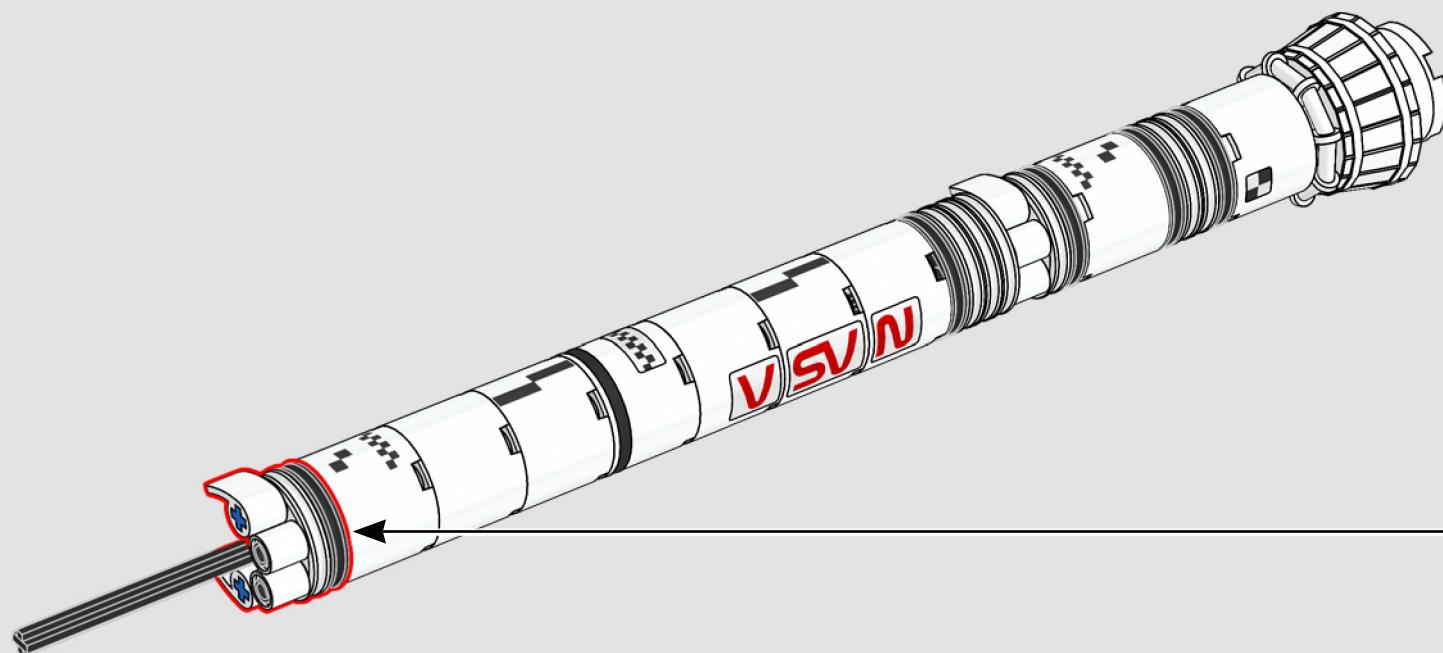
1



2



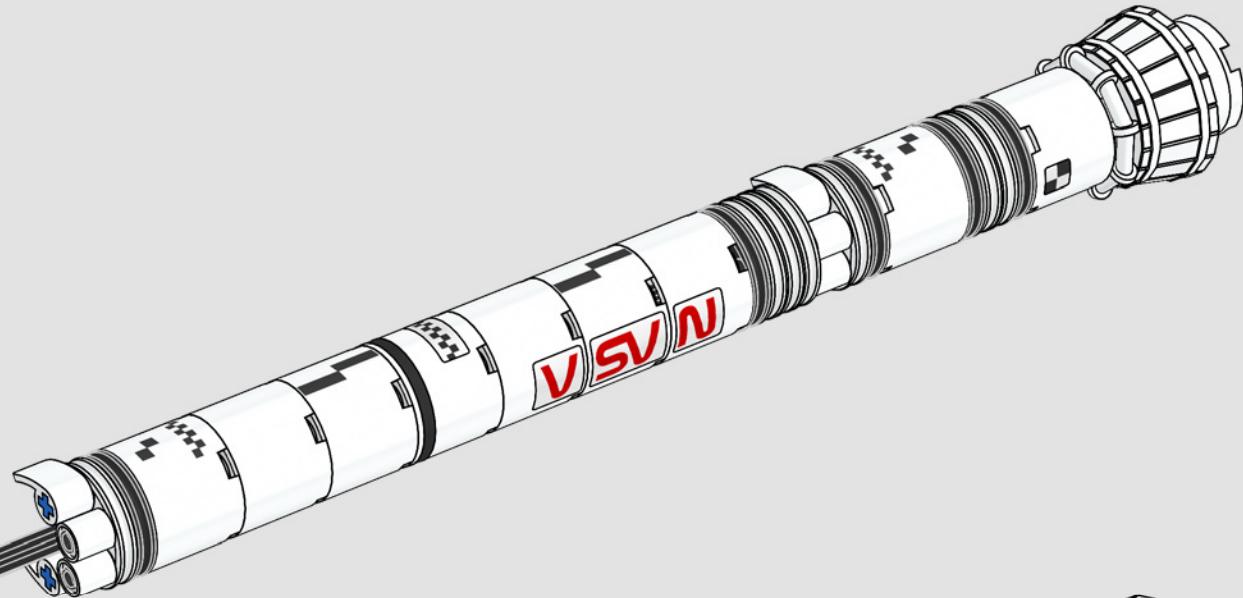
3





1x

605

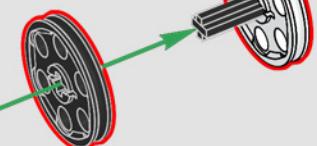
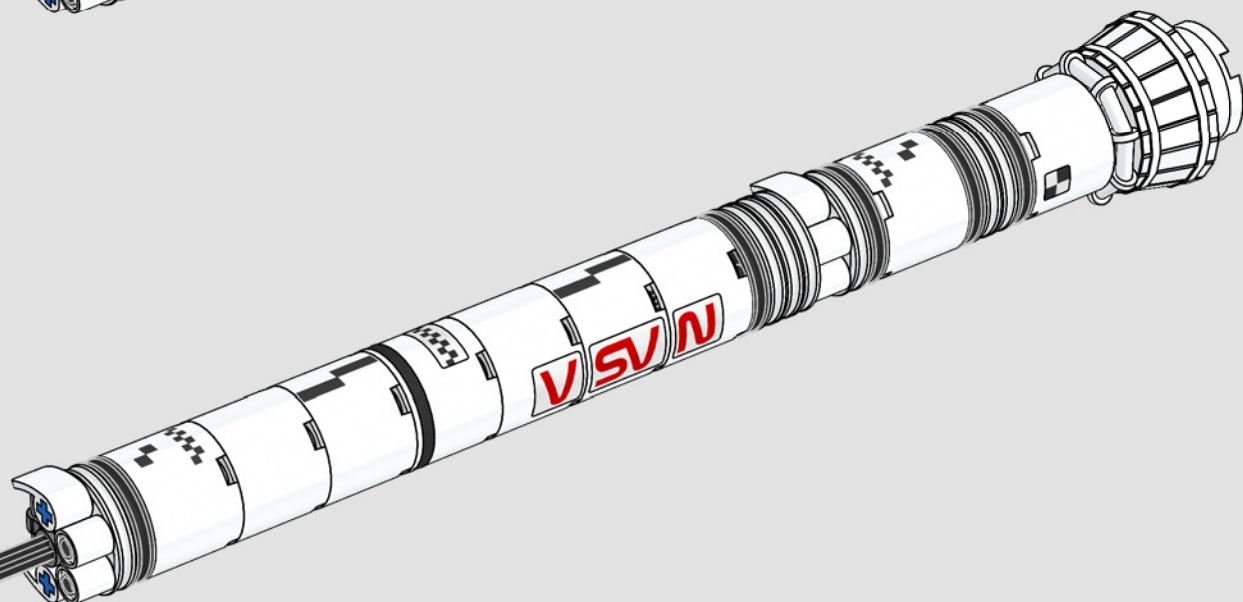


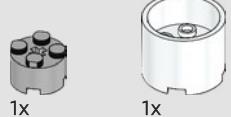
1x



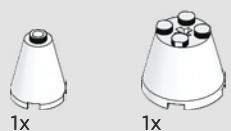
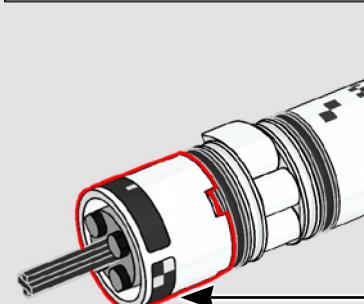
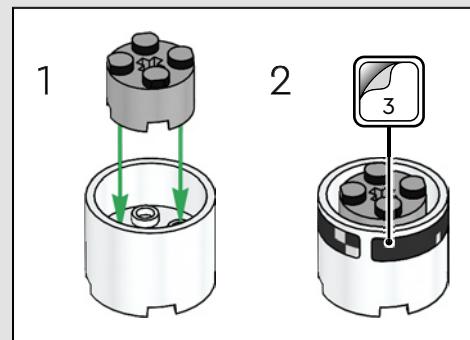
1x

606

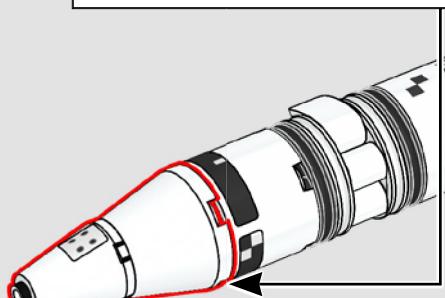
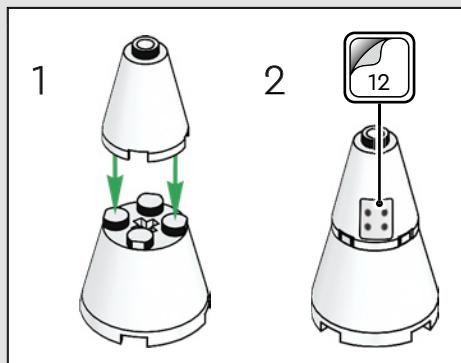




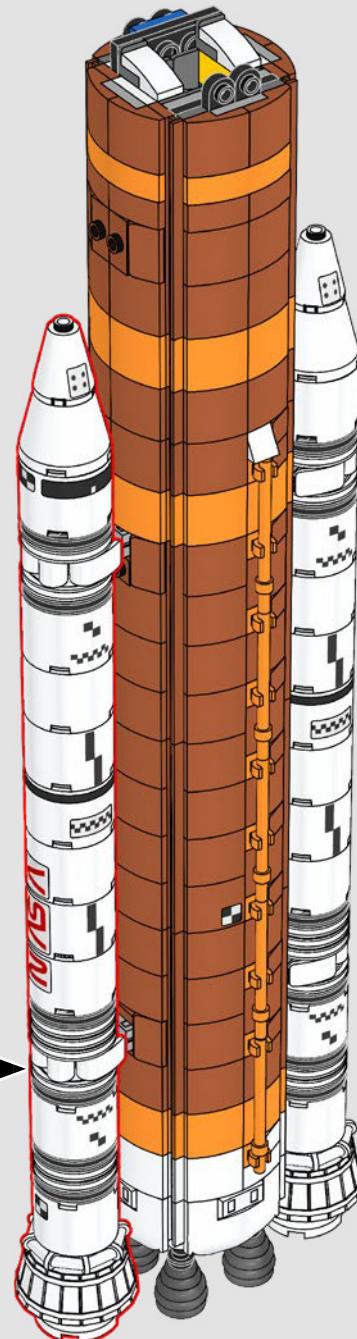
607



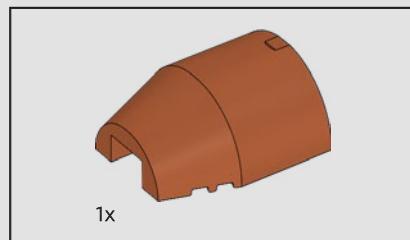
608



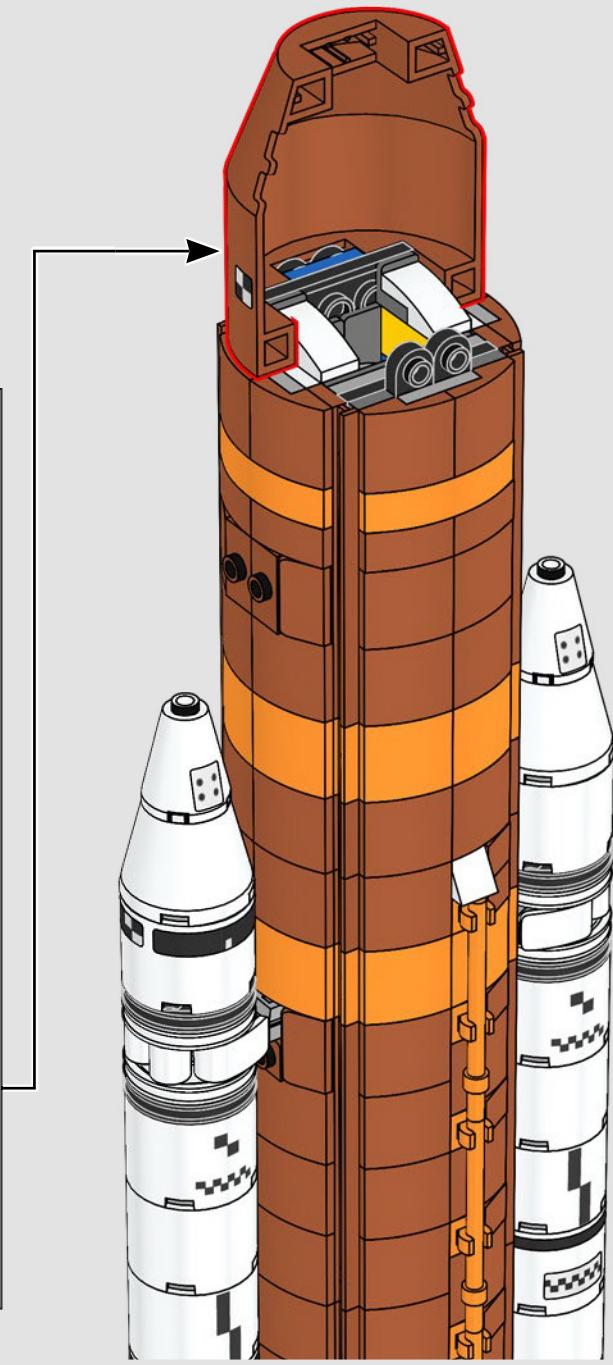
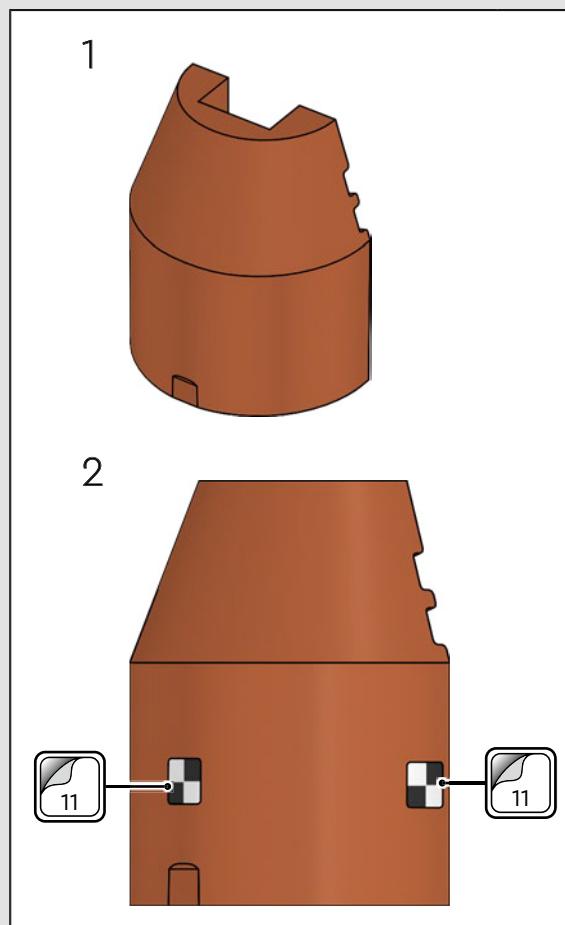
609

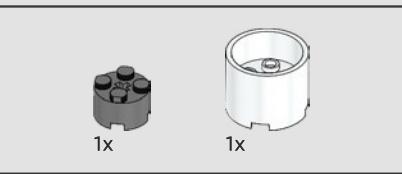
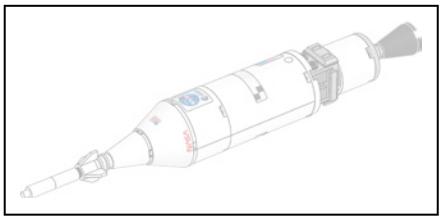


The cone element at the top of the boosters was already used in 1979 LEGO® Classic Space rockets (but had a solid stud with the LEGO logo).

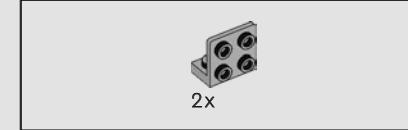
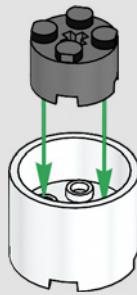


610

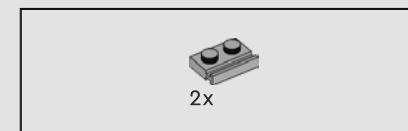
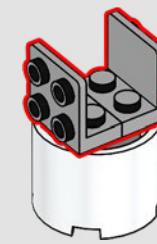




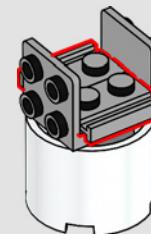
611

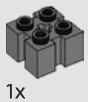


612



613

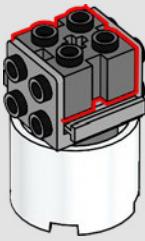




1x

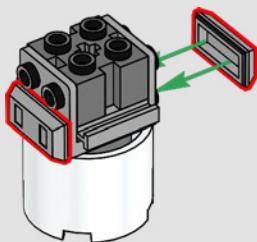


614



2x

615

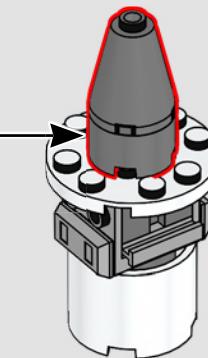
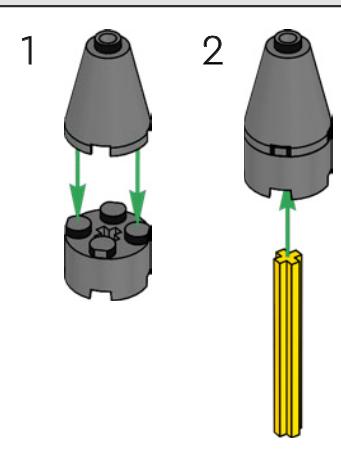


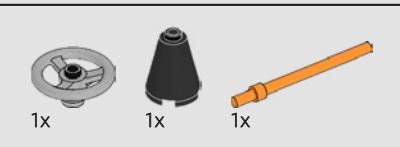
1x

616

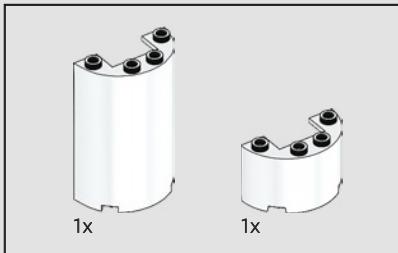
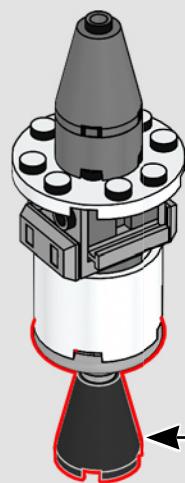
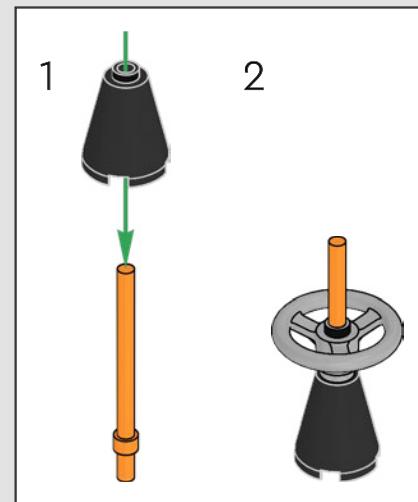


617

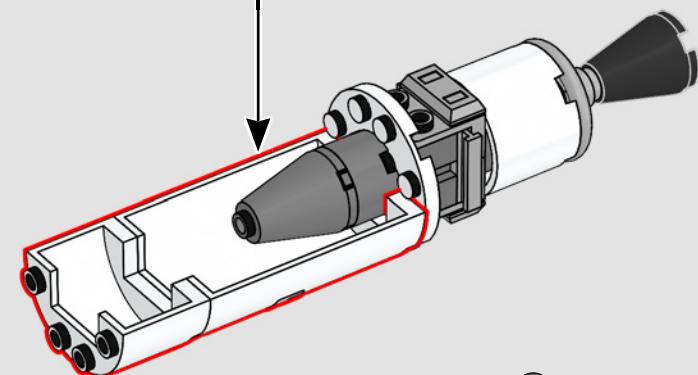
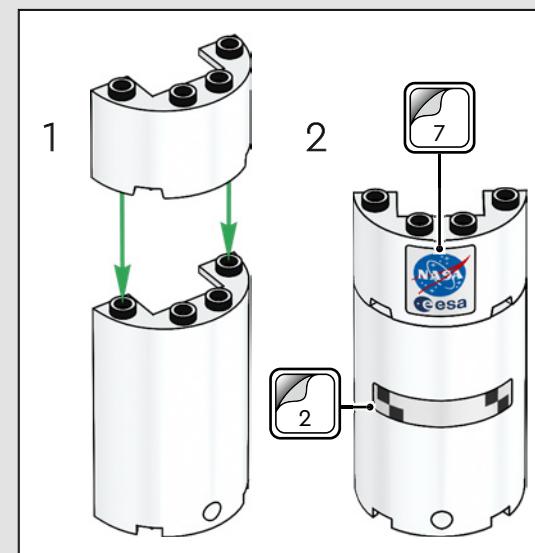




618

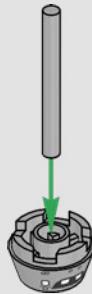


619

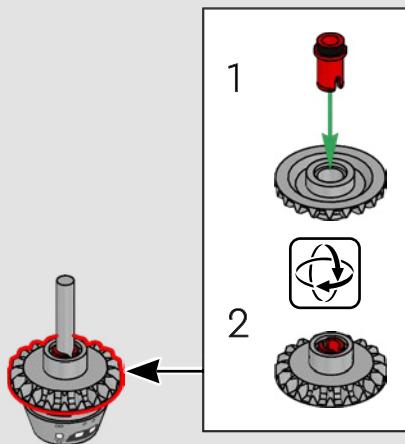




620



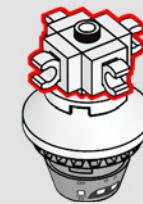
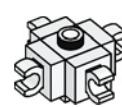
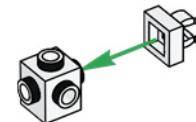
621



622



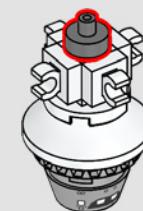
624



623

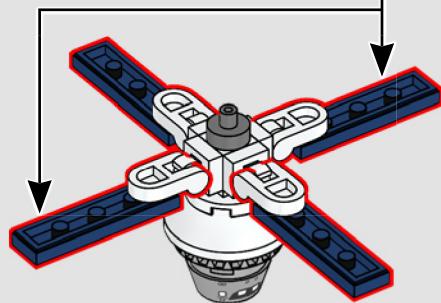
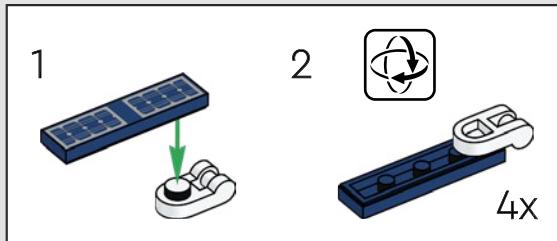


625





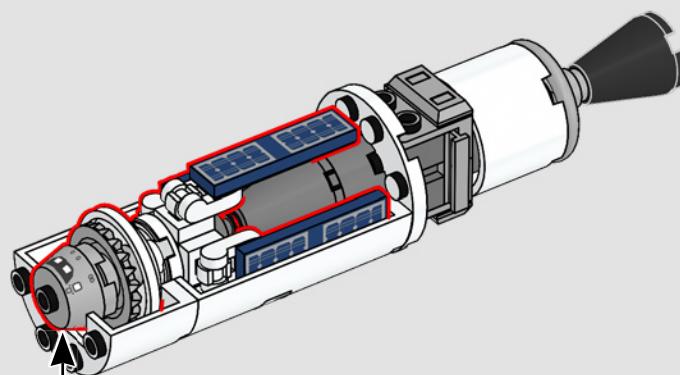
626

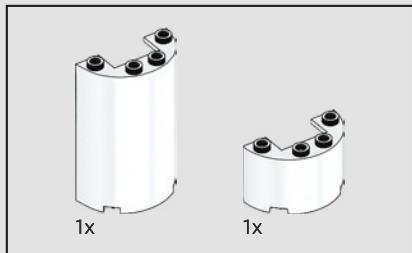


627

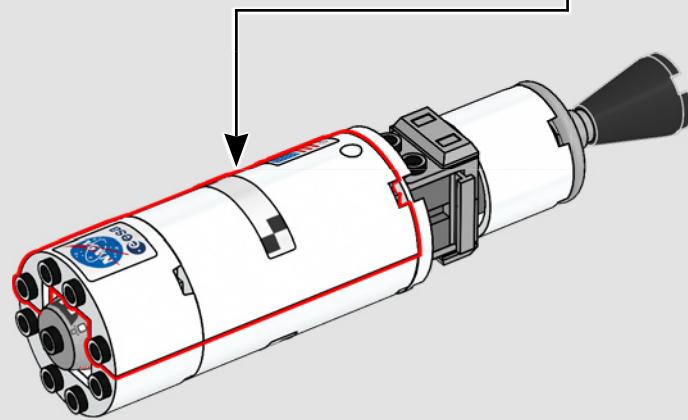
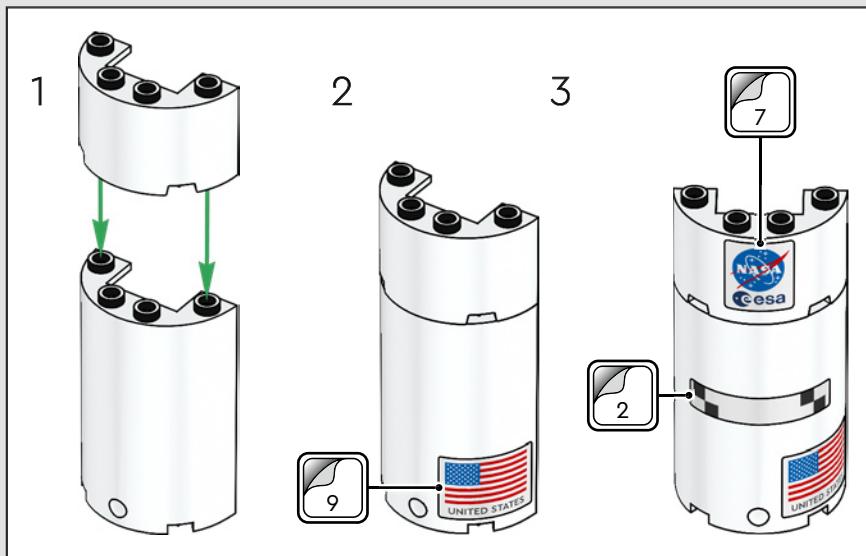


628

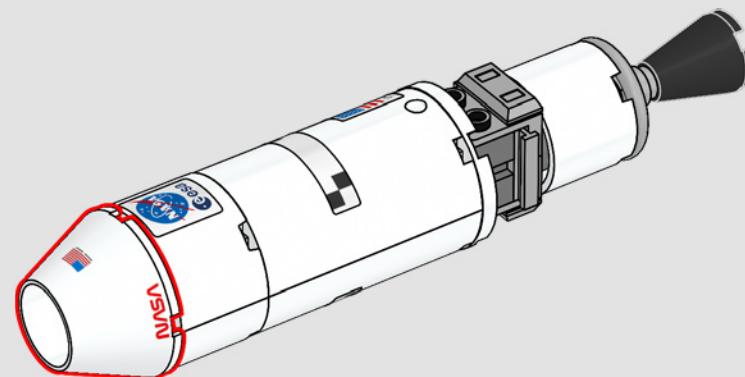


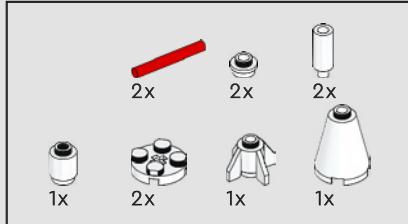


629

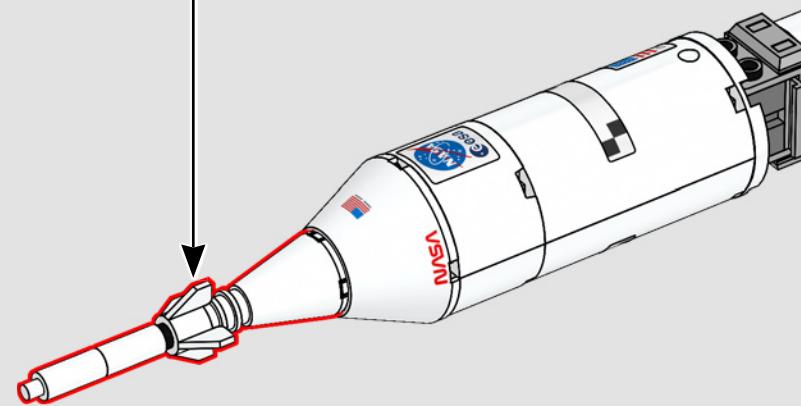
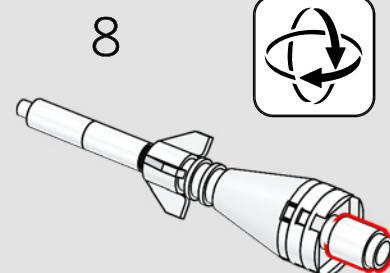
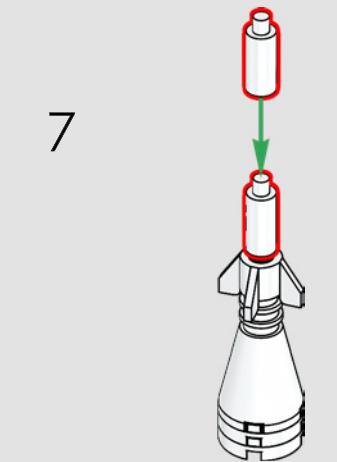
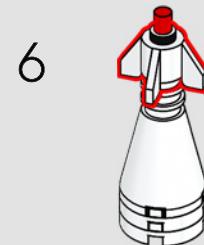
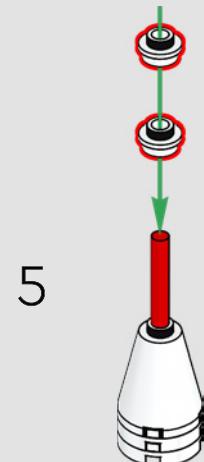
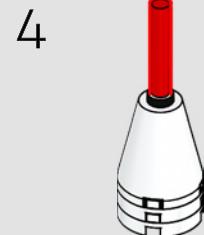
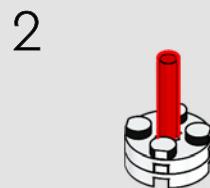
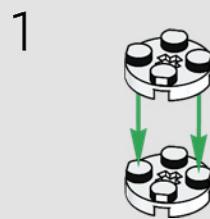


630

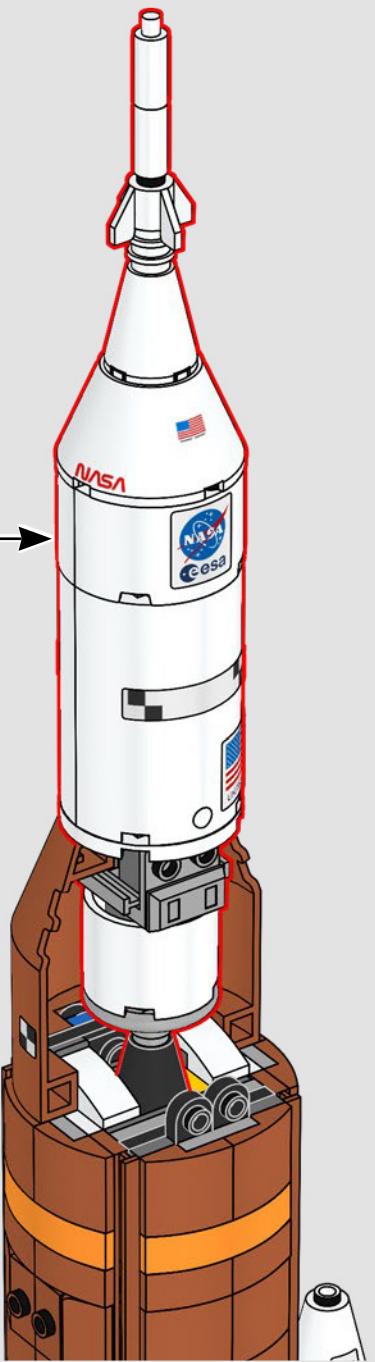




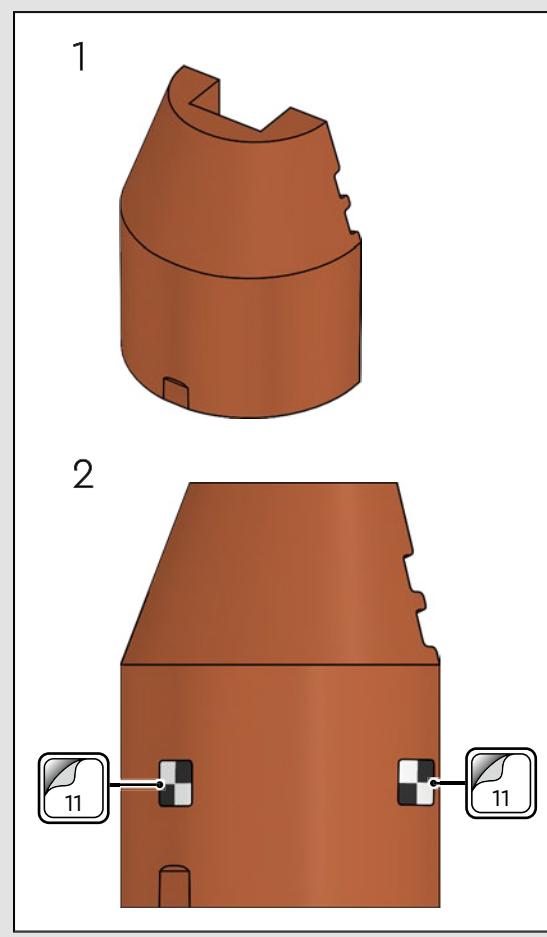
631



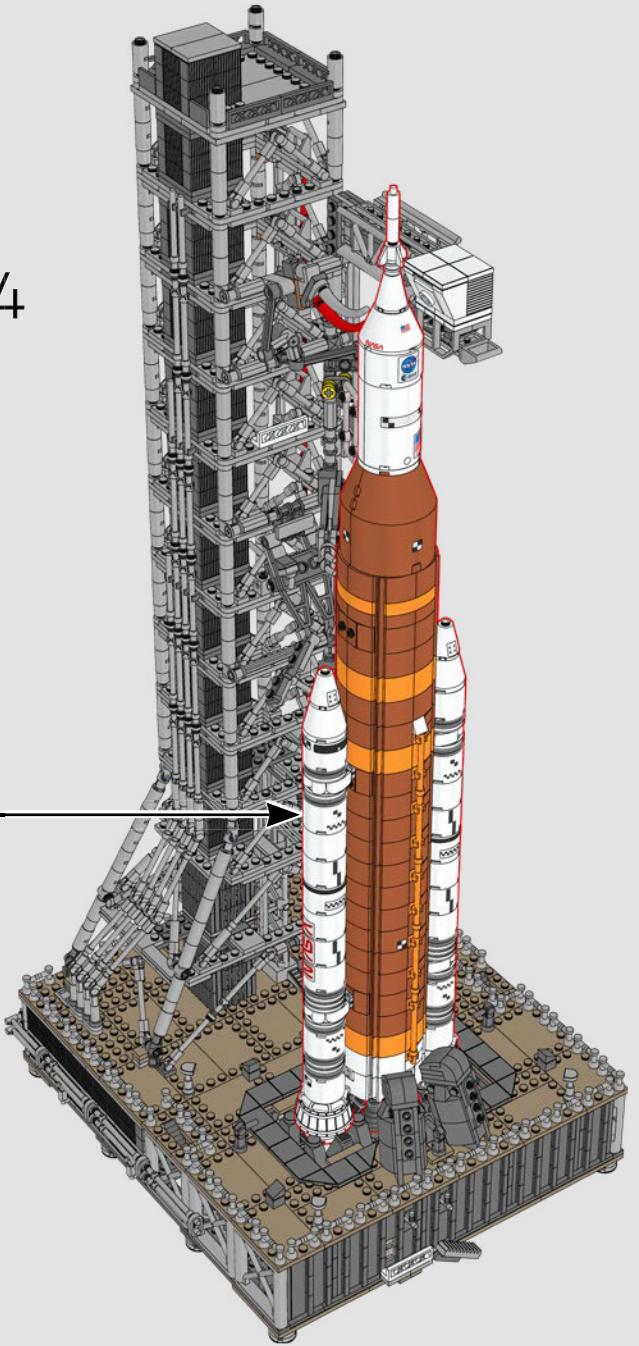
632



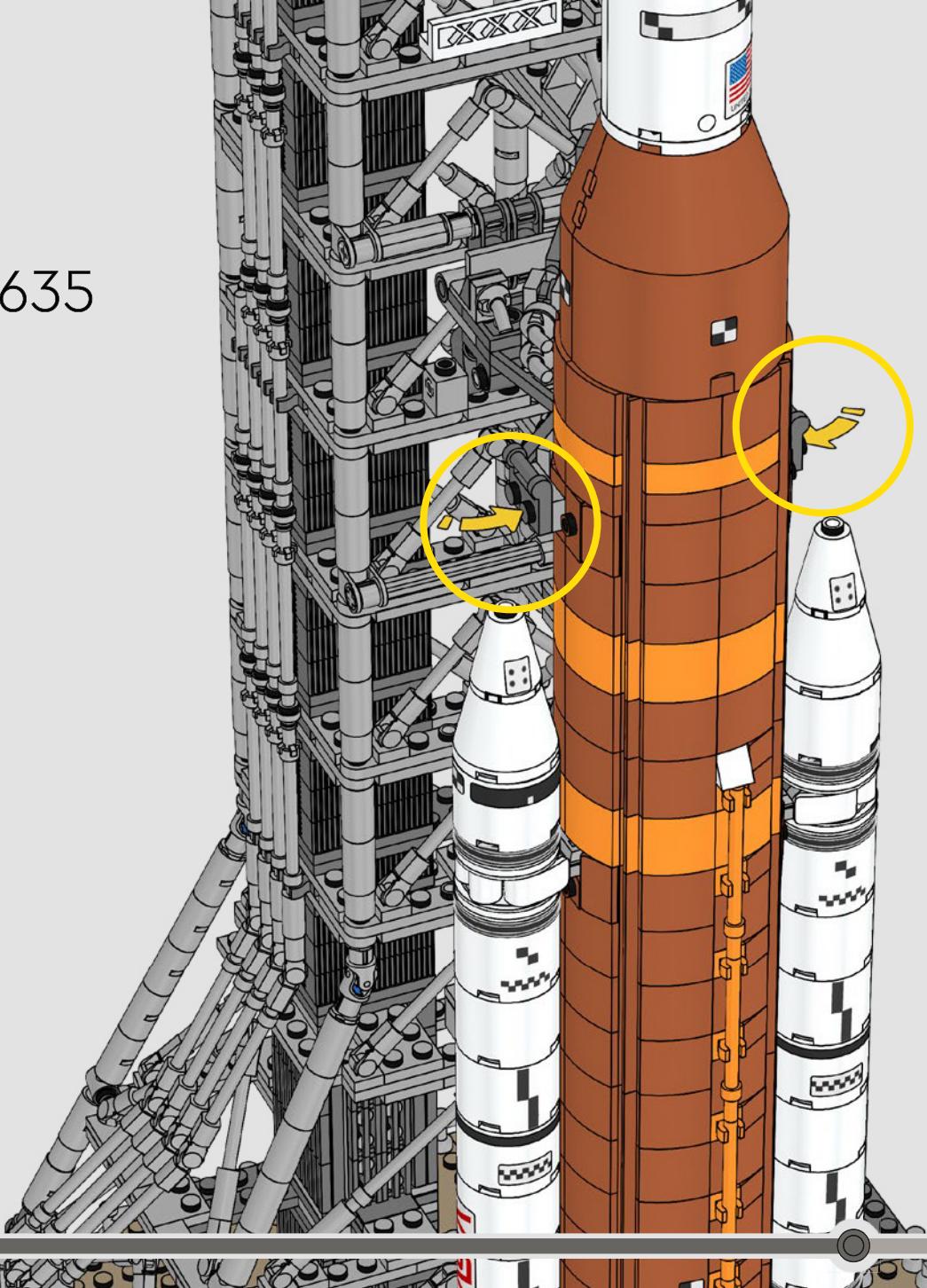
633



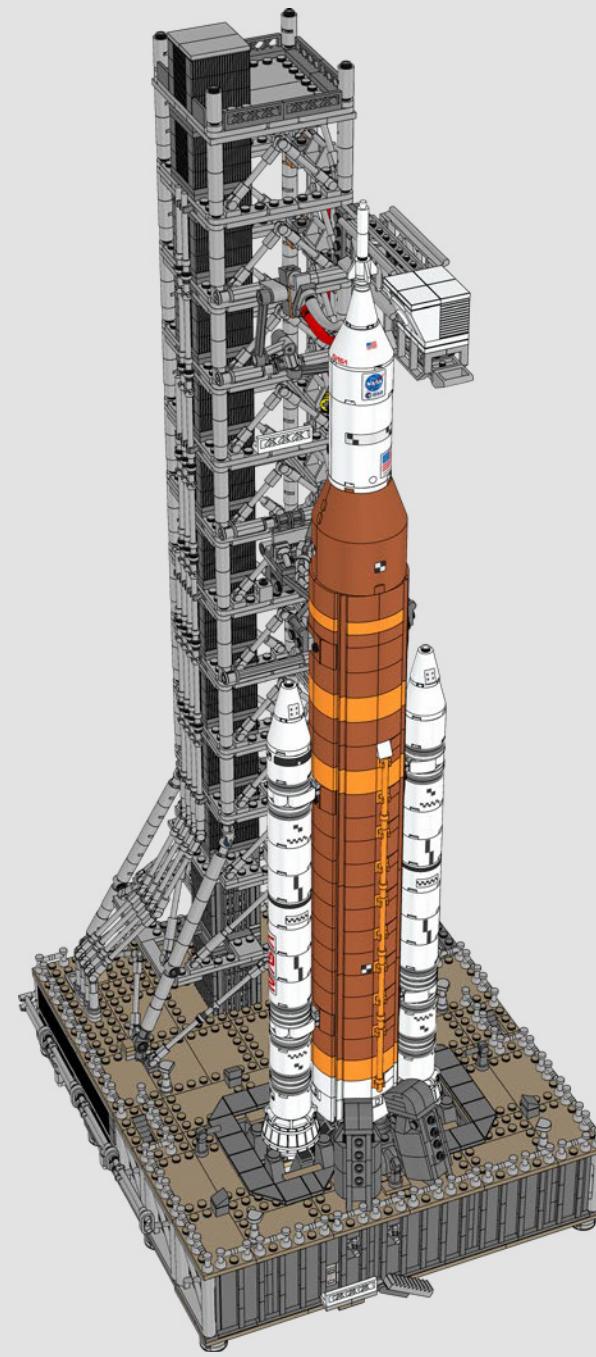
634



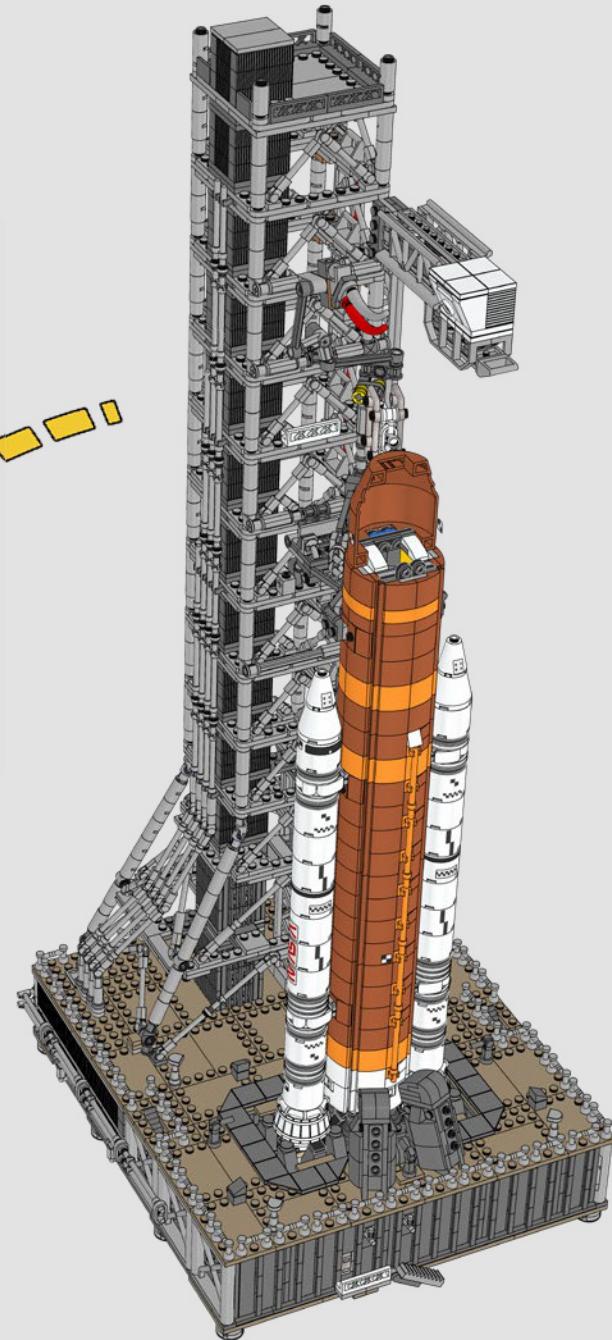
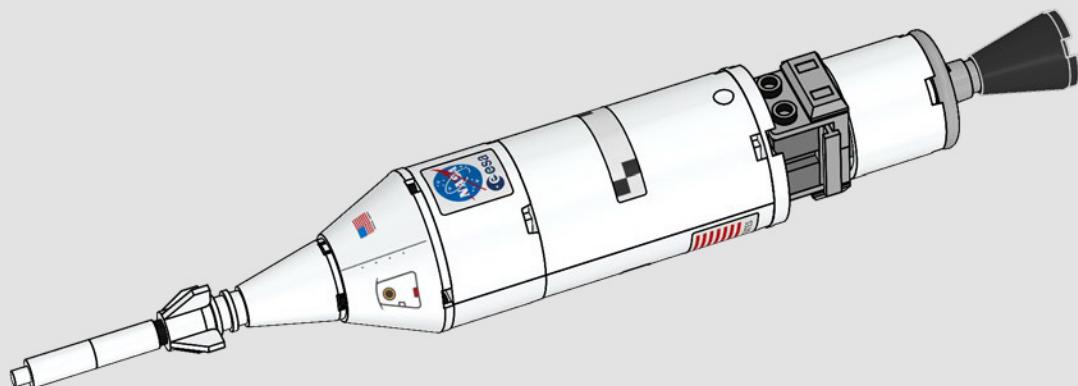
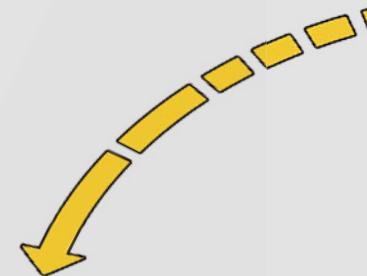
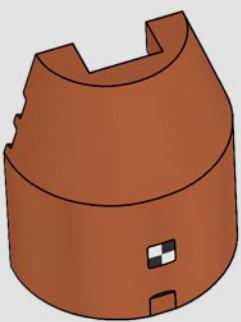
635



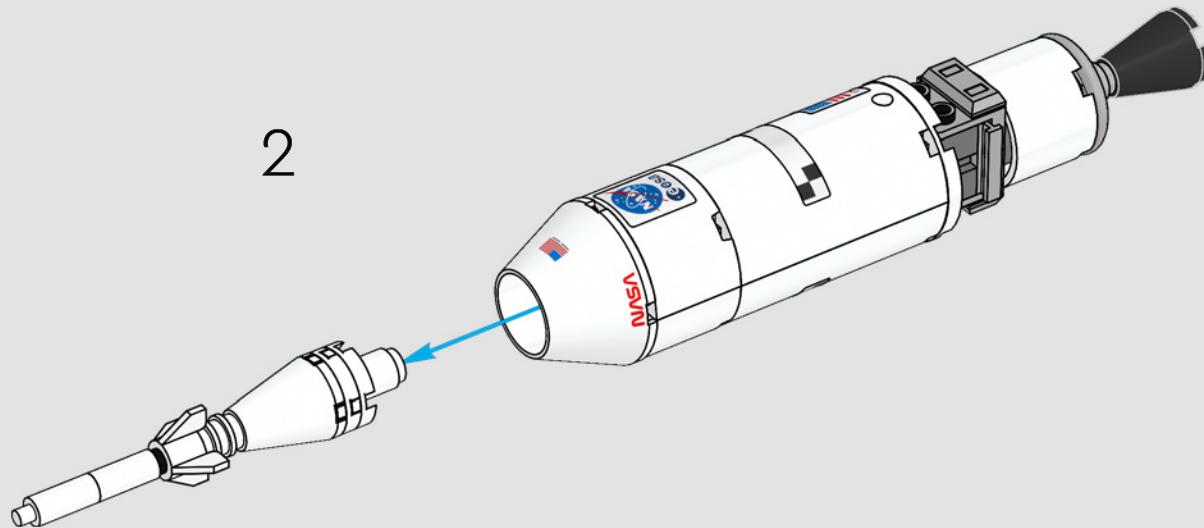
Like in real life, the whole rocket  
rests on the skirts of the boosters.



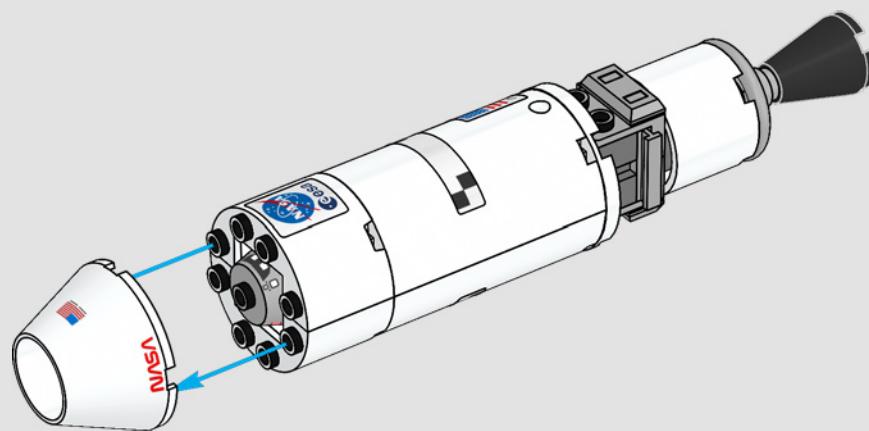
1

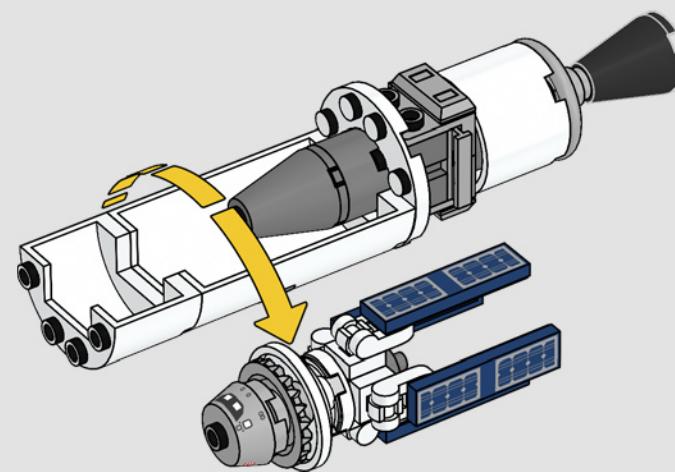
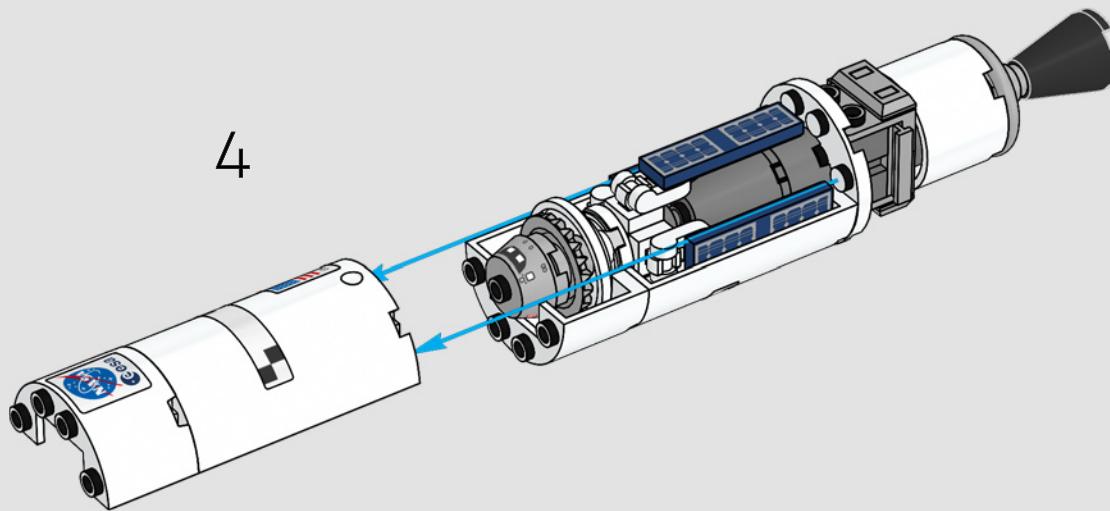


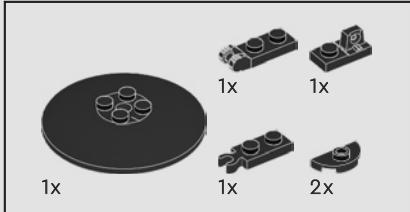
2



3







6

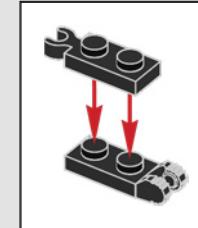
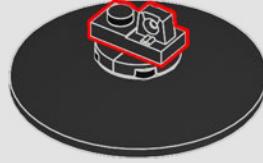
1



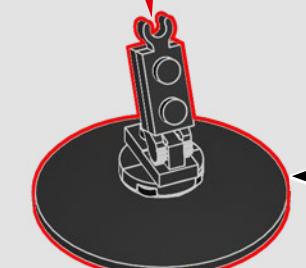
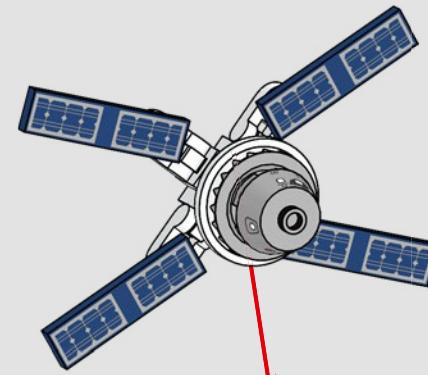
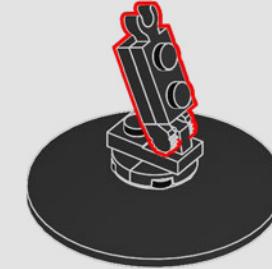
2

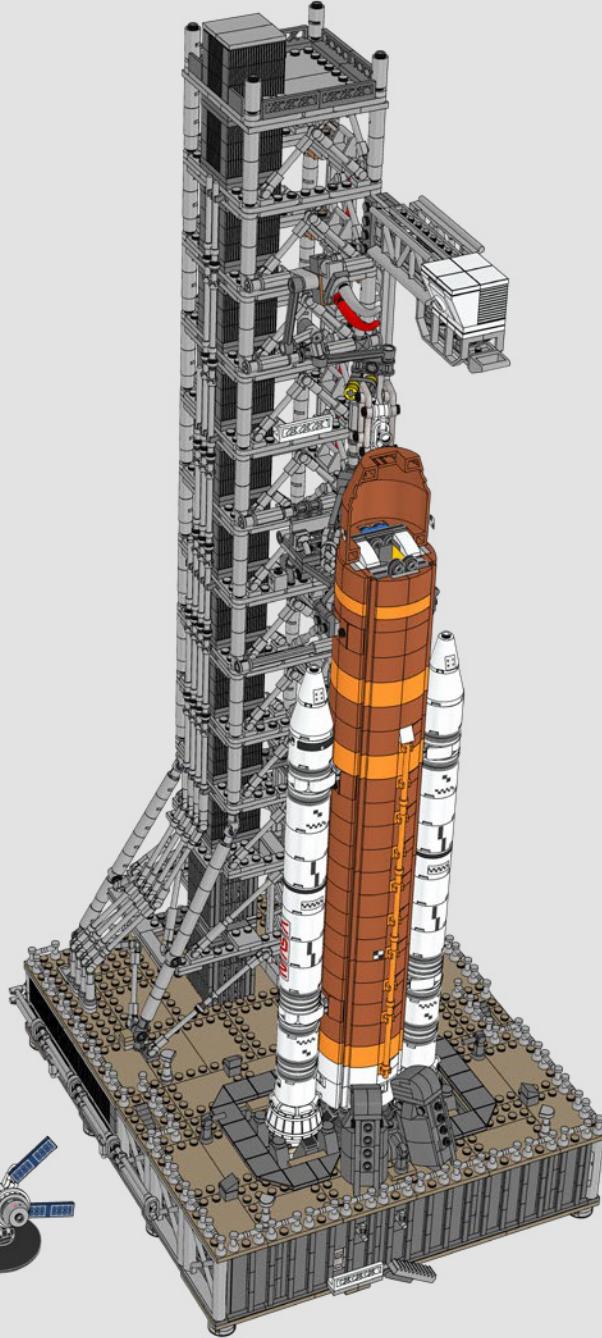


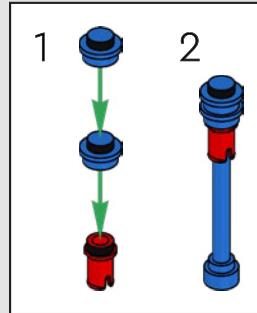
3



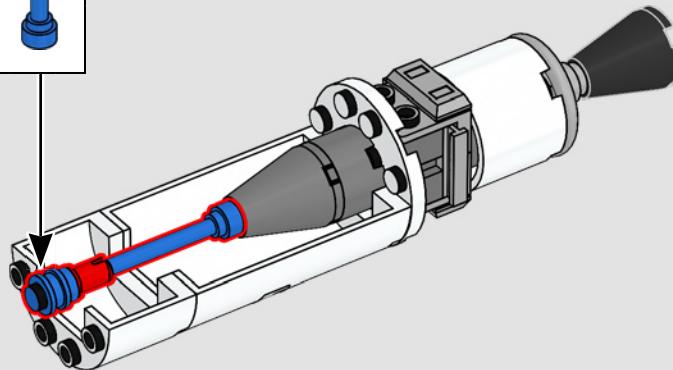
4



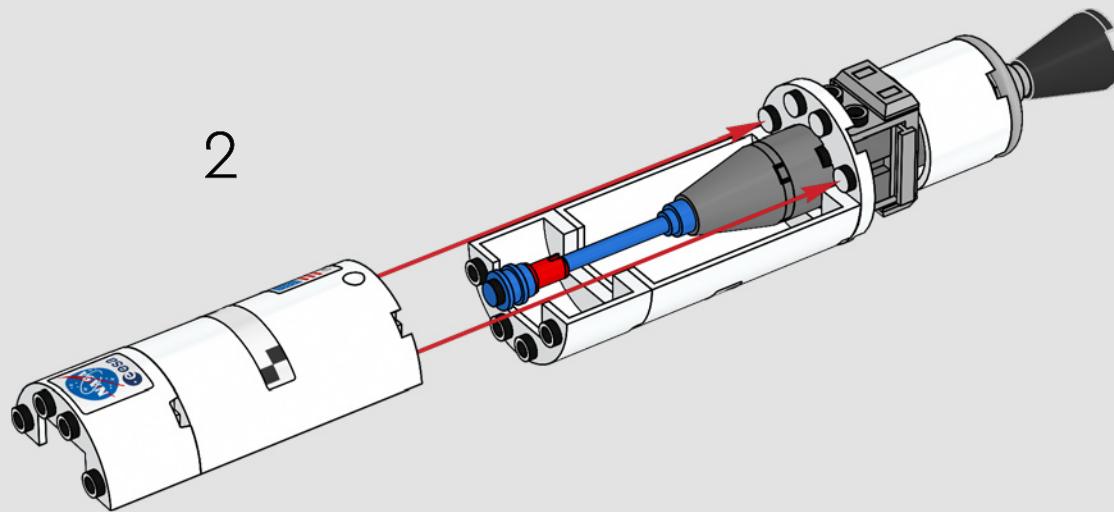


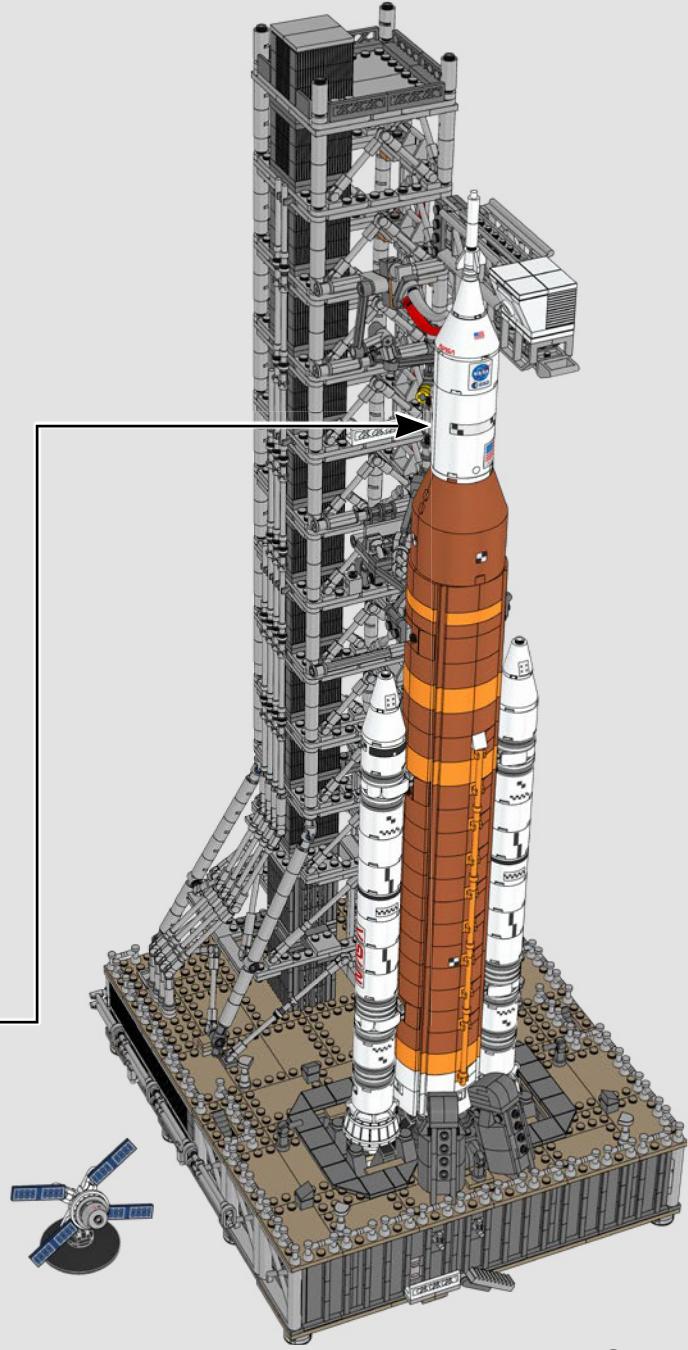
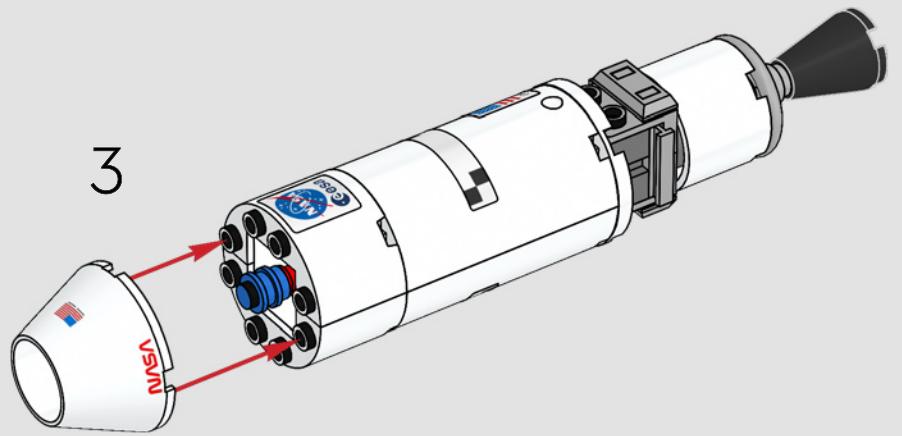
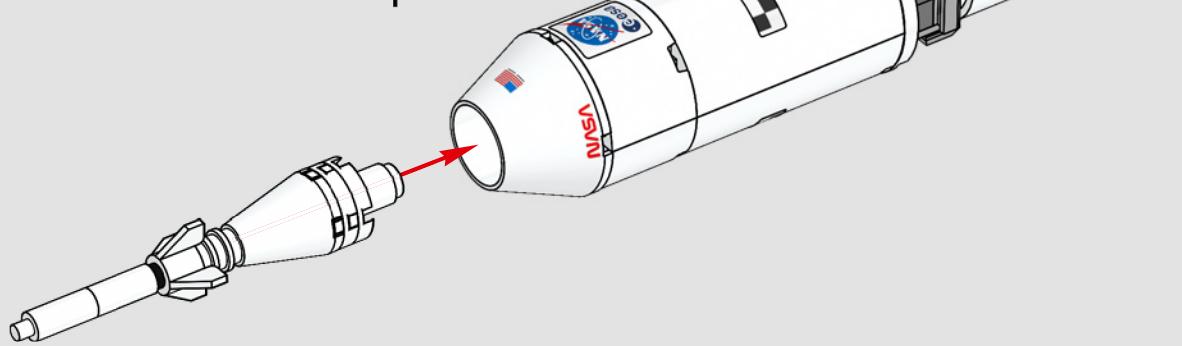


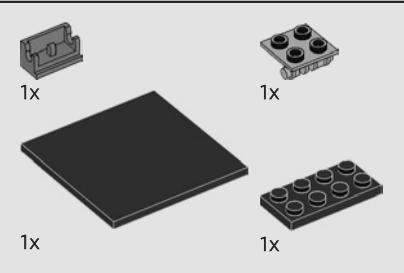
1



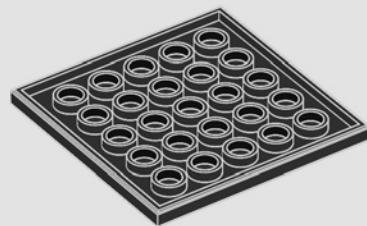
2



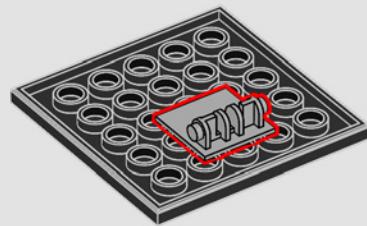




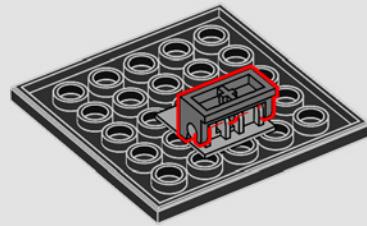
1



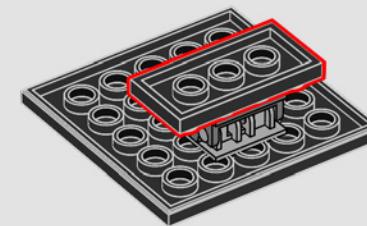
2



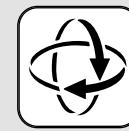
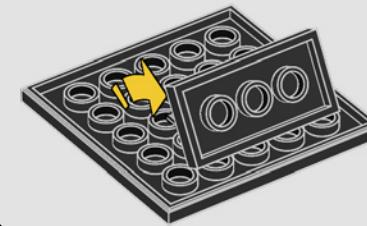
3



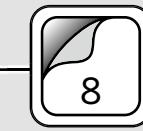
4

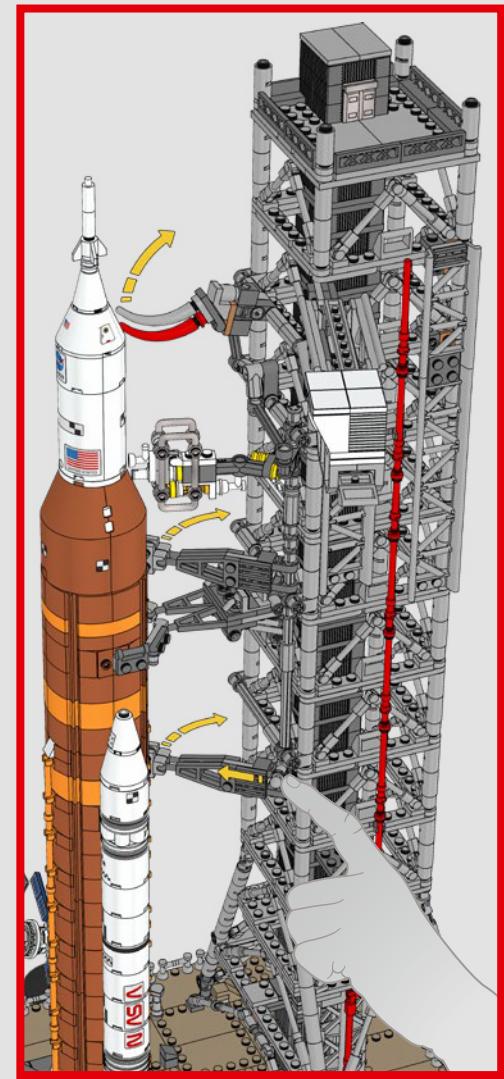
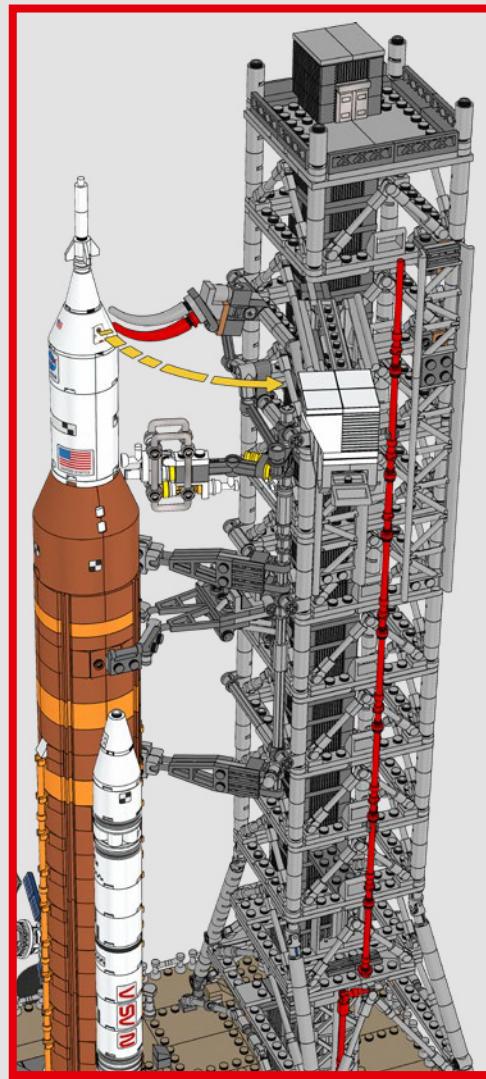
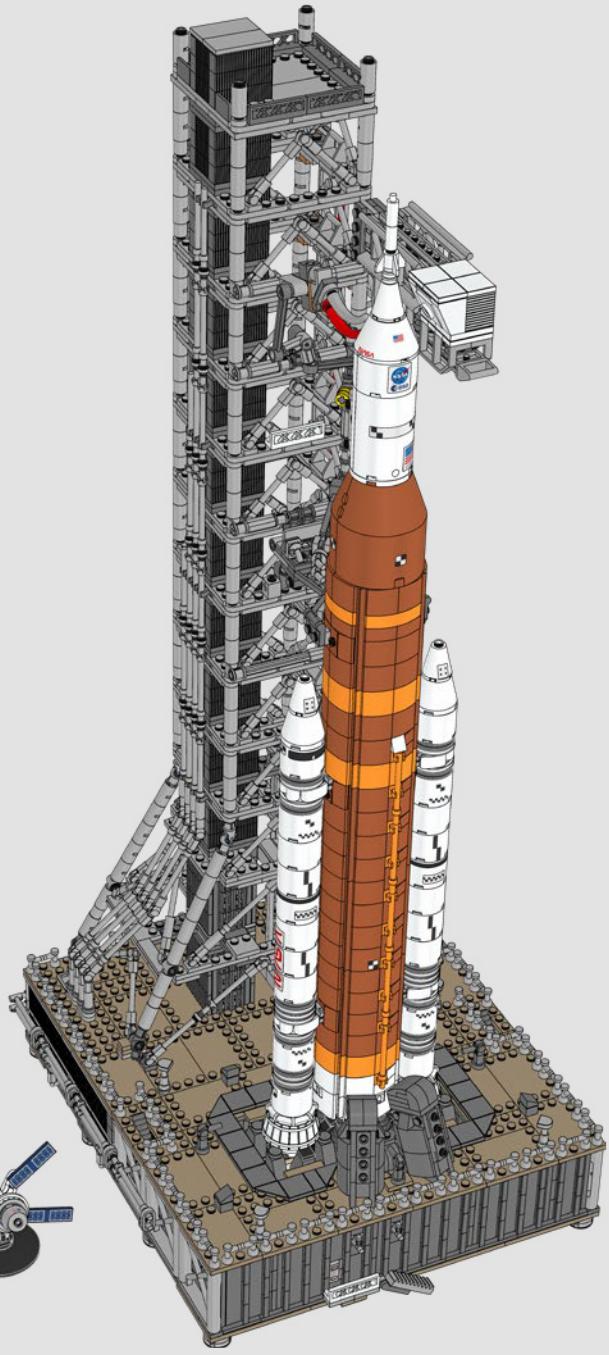


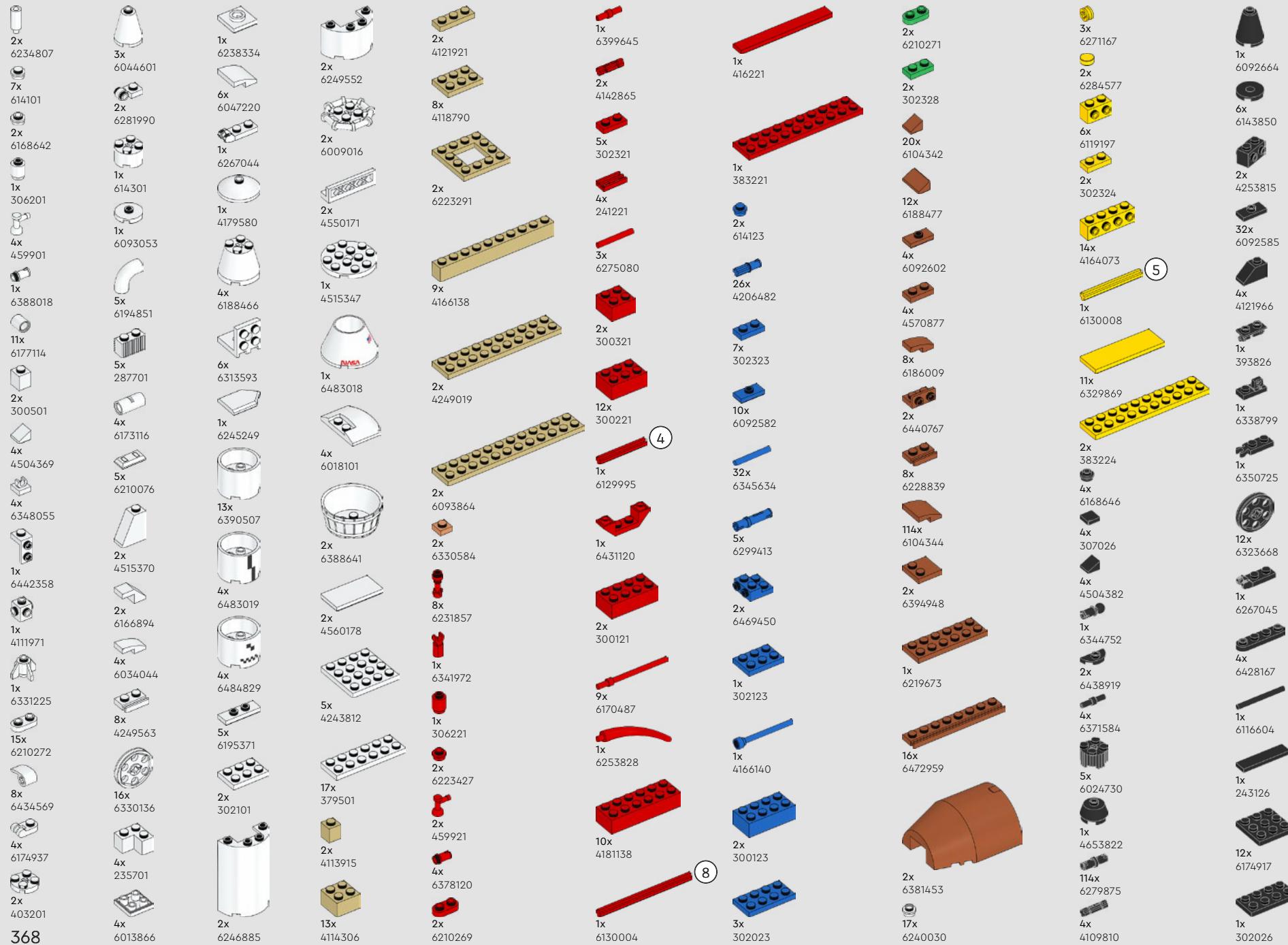
5

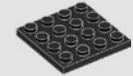
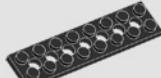
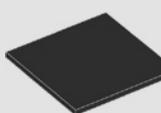
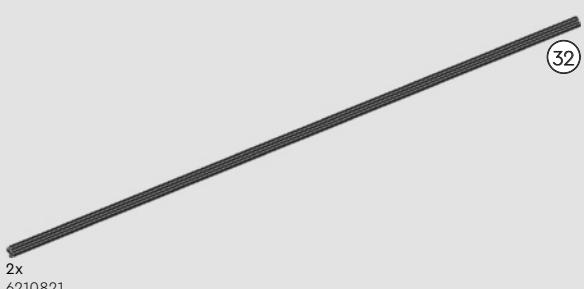


6







12x  
42438191x  
60583413x  
41811444x  
3738262x  
3034261x  
61551255x  
60014942x  
6210821

6472962



4121739



6021787



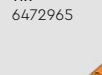
6067913



4650977



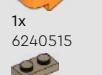
6472965



6240515



4528604



6092591



6335228



6396392



6047415



4550168



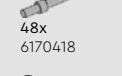
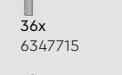
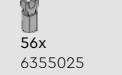
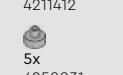
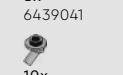
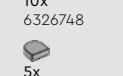
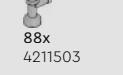
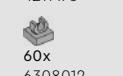
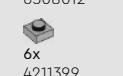
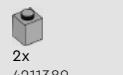
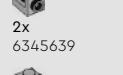
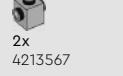
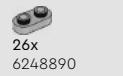
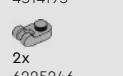
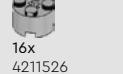
6015452



6328307

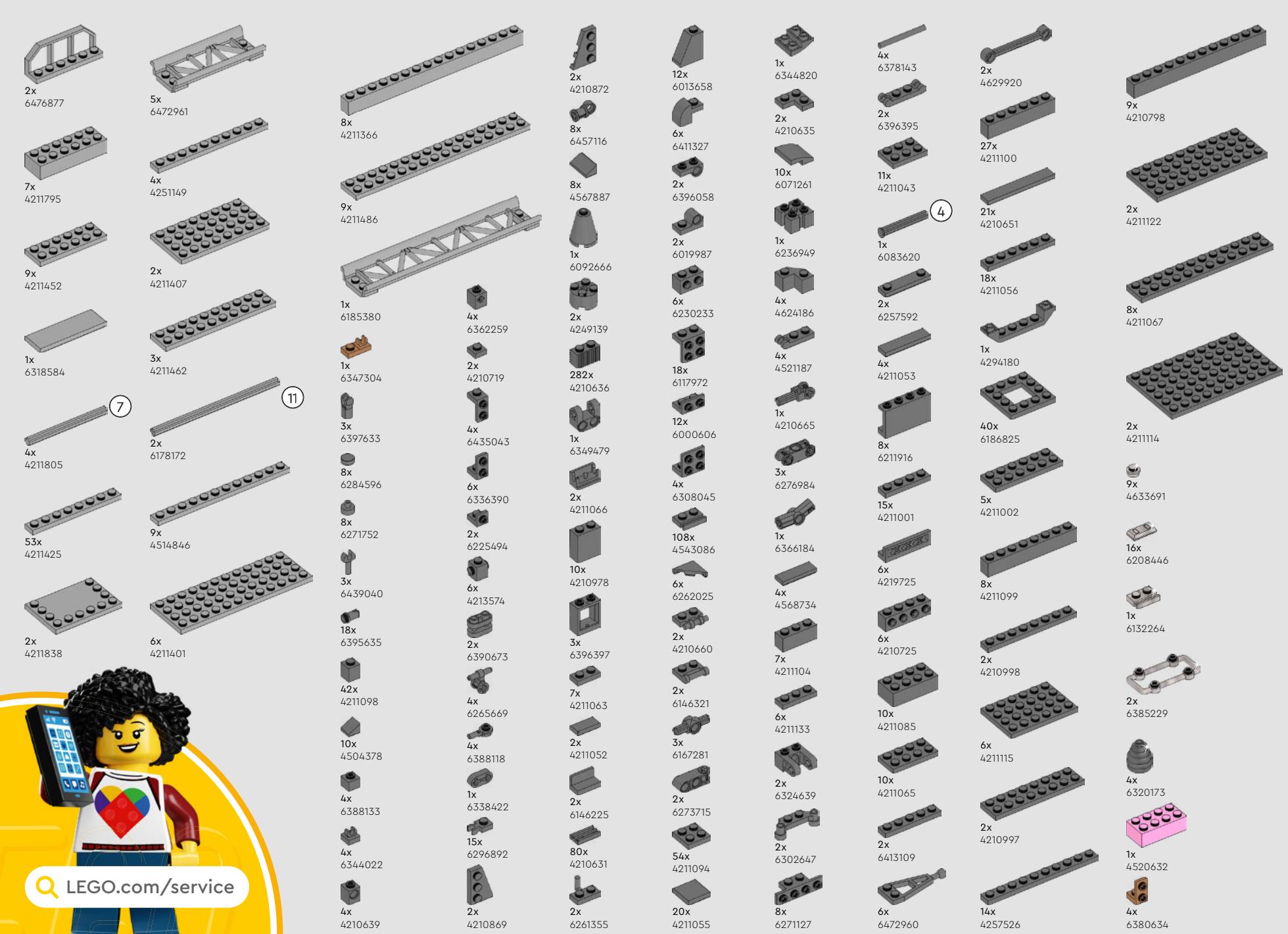


6257599

11x  
42678742x  
455032928x  
64729586x  
60065241x  
42517964x  
62153411x  
613425248x  
617041816x  
643642134x  
453948160x  
630801236x  
63477156x  
421139956x  
6355025128x  
63439762x  
42113891x  
63629752x  
42114125x  
62588318x  
643904110x  
63267485x  
62505979x  
62758444x  
63213038x  
626137533x  
61837842x  
42114835x  
42115354x  
42114766x  
63080122x  
42113992x  
45123602x  
63806051x  
6268924104x  
61731272x  
464293442x  
42113986x  
62613532x  
46545801x  
600499018x  
64460281x  
455816919x  
631933656x  
60935275x  
62120772x  
60459881x  
63131141x  
60921111x  
61238092x  
62133784x  
60436562x  
60436391x  
626569420x  
46573661x  
45586902x  
61862921x  
42116556x  
64165244x  
45352799x  
42113952x  
45601832x  
42116397x  
64405451x  
45805106x  
61188272x  
638311658x  
645671819x  
61166082x  
421139617x  
42114452x  
6353802

32

369



LEGO.com/service



# YOU COULD WIN



## YOU COULD WIN

Your feedback will help shape the future development of this product series.

Visit:

## DU KÖNNTEST GEWINNEN

Dein Feedback trägt zur Weiterentwicklung dieser Produktreihe bei.

Geh auf:

## VOUS POURRIEZ GAGNER

Vos commentaires nous aideront à concevoir les futurs produits de cette gamme.

Visitez :

## POTRESTI VINCERE TU

La tua opinione ci aiuterà a migliorare la creazione futura di questa linea di prodotti.

Visita:

## PUEDES GANAR

Tu opinión contribuirá al futuro de esta serie de productos.

Visita:

## 轻松获奖

您的反馈将有助于我们在今后改进本产品系列。

请访问：

---

## LEGO.com/productfeedback

---

You also have the chance to win a LEGO® set.

Terms and conditions apply.\*

Außerdem hast du die Chance, ein LEGO® Set zu gewinnen.

Es gelten die Teilnahmebedingungen.\*

Vous pourriez également gagner un ensemble LEGO®.

Des conditions s'appliquent.\*

Hai anche la possibilità di vincere un set LEGO®.

Termini e condizioni sono applicabili.\*

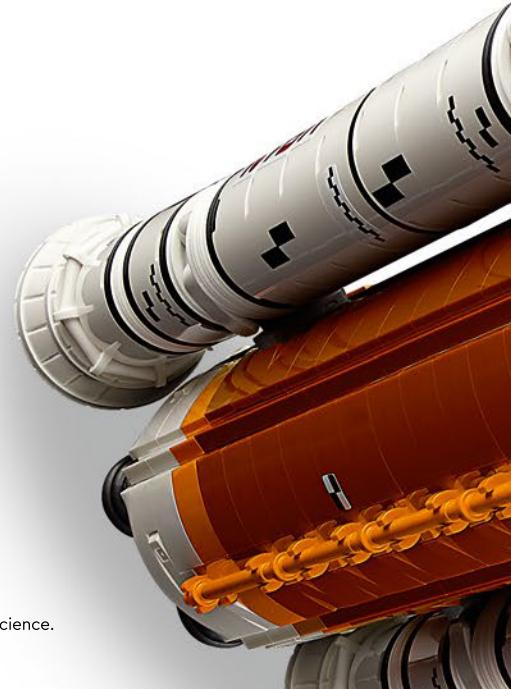
También tienes la oportunidad de ganar un set LEGO®.

Aplican términos y condiciones.\*

您还有机会赢取乐高®套装。

条款和条件适用。\*

\*LEGO.com/productfeedback-terms



LEGO and the LEGO logo are trademarks of the LEGO Group. ©2024 The LEGO Group. 6516997

NASA Insignia and identifiers provided and used with permission of NASA.

This product is developed in collaboration with the European Space Agency (ESA) for the purpose of fostering children's interest in space science.  
ESA is not involved in the manufacturing and commercialisation of this product.