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WIE FÜREINANDER GEMACHT

▼ Unsere wichtigste LEGO® Mission besteht darin, die Baumeisterinnen und Baumeister von morgen zu inspirieren. Alles ist möglich, es gibt keine Grenzen – und genau deshalb lockt uns der Weltraum! Seit mehr als 50 Jahren inspiriert die NASA immer wieder neue Generationen von kreativen, mutigen und bahnbrechenden Entdeckern. 2022 wurde die erste Artemis-Mission erfolgreich beendet, und in den nächsten Jahren werden weitere Missionen folgen. Die NASA kehrt auf den Mond zurück, um dort langfristig Menschen zu stationieren und in der Mondumlaufbahn und auf dem Mond selbst zu forschen. Als ersten Schritt auf dieser wissenschaftlichen Entdeckungsreise hat die NASA in Zusammenarbeit mit internationalen Raumfahrtbehörden und Raumfahrtexperten federführend das Space Launch System (SLS) und die Raumkapsel Orion entwickelt. Die Orion ist die bis dato leistungsstärkste Rakete und die vielseitigste Raumkapsel der NASA. Dieses Modell basiert auf der Artemis 1 der NASA (mit der Trägerrakete in der Konfiguration *Block 1*) mit der Raumkapsel Orion und bildet die Rakete detailgetreu nach, damit du so tun kannst, als würdest du das Raumfahrzeug immer wieder auf neue atemberaubende Weltraummissionen schicken. Freu dich auf ein Bauerlebnis, das dich zum Mond und weiter darüber hinaus reisen lässt.



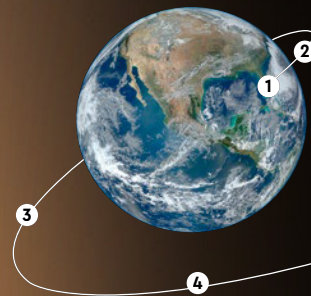
WIR SCHREIBEN GESCHICHTE

Im Rahmen der Artemis-Missionen wird die NASA die erste Frau und die erste Person of Color auf den Mond bringen.

Mit einem Schub von 4 Millionen kg ist das SLS der NASA die bis dato leistungsstärkste Rakete.

Während der Artemis-I-Mission ist das Orion-Raumschiff bis 69.000 Kilometer hinter den Mond geflogen. Kein anderes auf den Transport von Menschen ausgelegtes Raumfahrzeug war jemals weiter von der Erde entfernt.

DIE REISE DER ARTEMIS I



1 START

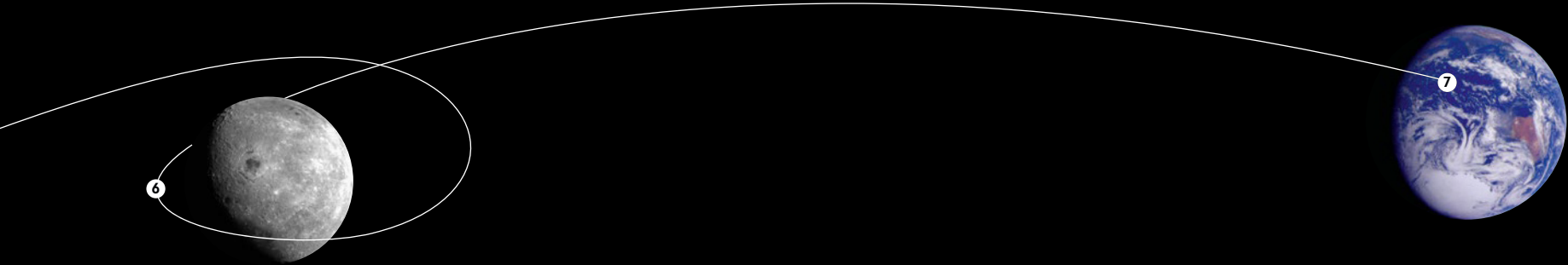
Das SLS der NASA hat einen Schub von fast 4 Millionen kg erzeugt, um die Erdanziehungskraft zu überwinden.

2 HAUPTSTUFE UND FESTSTOFFBOOSTER

Die Hauptstufe und die Feststoffbooster lösten sich, nachdem der Treibstoff verbraucht war.

3 ERDNAHE UMLAUFBAHN

Die Oberstufe der Rakete aus Interim Cryogenic Propulsion Stage (ICPS) und Orion beschleunigt auf mehr als 28.000 km/h und begibt sich in eine kreisförmige Erdumlaufbahn. Orion verlässt die erdnahe Umlaufbahn (Low-Earth Orbit, LEO) und umrundet die Erde!



4 TRANS-LUNAR INJECTION (TLI)

Die ICPS hat das Raumschiff auf eine Geschwindigkeit beschleunigt, mit der Orion die Erdanziehungskraft überwindet und die erdnahe Umlaufbahn verlässt, um sie nah genug an den Mond zu bringen, damit sie von dessen Anziehungskraft erfasst wird.

5 AUF ZUM MOND

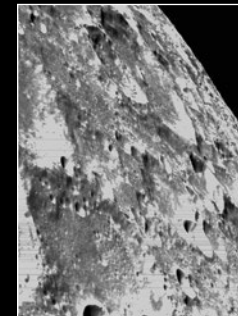
Die ICPS hat sich von Orion gelöst. Orion auf der dreiwöchigen Mission zum Mond, während die vom OSA/ICPS ausgesetzten CubeSats auf einer ähnlichen Flugbahn weiterflogen, um den Mond und die Tiefen des Alls zu erforschen.

6 ERPROBUNG DER SYSTEME IM ALL

Orion zündete die Navigationstriebwerke an seinem Servicemodul, um das Raumschiff auf die Rückseite des Mondes zu manövrieren. Die NASA erprobte die kritischen Systeme im All.

7 RÜCKKEHR ZUR ERDE

Beim Wiedereintritt in die Erdatmosphäre muss der Hitzeschild der Raumkapsel Temperaturen von bis zu 2.760 °C standhalten (an der Oberfläche der Sonne ist es ungefähr doppelt so heiß!). Dann wird Orion vor der Küste Kaliforniens aus dem Pazifik geborgen.





ARTEMIS I-V

▼ Zu Ehren der Apollo-Missionen (1961-1972) bediente sich die NASA bei der Namensgebung für ihre aktuellen Mondmissionen ebenfalls in der griechischen Mythologie. Treffenderweise war Artemis nicht nur Apollos Zwillingschwester, sondern auch die Göttin des Mondes. Nach erfolgreichen ersten Erprobungsflügen wurden vier zusätzliche Artemis-Missionen in den kommenden Jahren bestätigt. Jede dieser Missionen verfolgt das Ziel, das SLS und Orion in puncto Performance, Wiedereintrittsgeschwindigkeit, Einsatzfähigkeit im All und Beförderung von Nutzlasten zu optimieren. Letztendlich werden bemannte Missionen zum Mars – und noch tiefer ins All – angestrebt.

I

ERSTE MISSION
(UNBEMANNTE
FLUGERPROBUNG)

II

ERSTE BEMANNTE
FLUGERPROBUNG

III

BEMANNTE
MONDLANDUNG UND
MONDEXPEDITION

IV

ERSTE MISSION ZUM AUFBAU
EINER MONDSTATION

V

BEMANNTE MOBILE
MONDEXPEDITION
UND AUSBAU ZUM
LUNAR GATEWAY

ANMERKUNGEN DES LEGO® DESIGNERS



„Jedes auf echten Vorbildern basierende LEGO® Set hat eine Geschichte. Beim SLS der NASA können wir uns kaum ausmalen, welche Rolle es bei der Erforschung des Weltraums künftig noch spielen wird! Beim Design dieses Modells war einiges an LEGO Raketenwissenschaft erforderlich, denn wir wollten die verschiedenen Raketenstufen mit ihren Funktionen nachbilden. Für den Startturm war eine bestimmte Bautechnik erforderlich. Mit Stäben und LEGO Technic Verbindungselementen werden die Gittersegmente angefertigt und gestapelt. Genau wie beim Original verbindet ein Fahrzeugsicherungssystem die Rakete mit dem Startturm. Man muss nur ein kleines Rad drehen, um die einziehbaren Versorgungsleitungen vor dem Start zu lösen. Details wie Treppen und Türen veranschaulichen den Maßstab des Modells. Die Rakete selbst lässt sich von der Startrampe nehmen. Man kann beide Feststoffbooster trennen. Wenn man dann noch eine Verkleidung entfernt, wird die obere Raketenstufe entriegelt. Nach dem Öffnen kommt das Orion-Raumschiff zum Vorschein, das mit ausfaltbaren Solarmodulen ausgestattet ist. Genau wie die echte Trägerrakete lässt sich auch das Modell in kleinere Segmente zerlegen. Und das Orion-Raumschiff kann auch neben der Trägerrakete ausgestellt werden.“

- Hans Burkhard Schlömer, LEGO® Modelldesigner

JEDES GRÖßERE ELEMENT DES SLS DER NASA ERFÜLLT EINEN BESTIMMTEN ZWECK

ORION-RAUMSCHIFF

Das Orion-Raumschiff besteht aus drei Hauptelementen, dem Startabbruchsystem („Rettungsrakete“), dem Crewmodul und dem Servicemodul.

HAUPTSTUFE

Die Hauptstufe des SLS ist die größte Raketenstufe, die von der NASA bis dato gebaut wurde. Sie ist 64,6 Meter lang und hat einen Durchmesser von 8,4 Metern. Voll betankt wiegt die Rakete ohne Triebwerke 1.088 Tonnen!

TRIEBWERKSSEGMENT

Das Triebwerkssegment beherbergt die vier Haupttriebwerke vom Typ RS-25, die Schubkonstruktion, die Treibstoffleitungen, die Bordelektronik und die Schubvektorsteuerungssysteme.

DÜSE

In die Heckschürze ist das Schubvektorsteuerungssystem integriert. Die Boosterabgasdüse wird von der Bordelektronik gesteuert.

LAUNCH ABORT SYSTEM (LAS)

Bei einem Notfall während des Starts bringen die drei Feststoffraketenmotoren dieses Startabbruchsystems („Rettungsrakete“) die Orion-Raumkapsel und ihre Crew von der Rakete weg und lassen sie sicher im Ozean wassern.

CREWMODUL

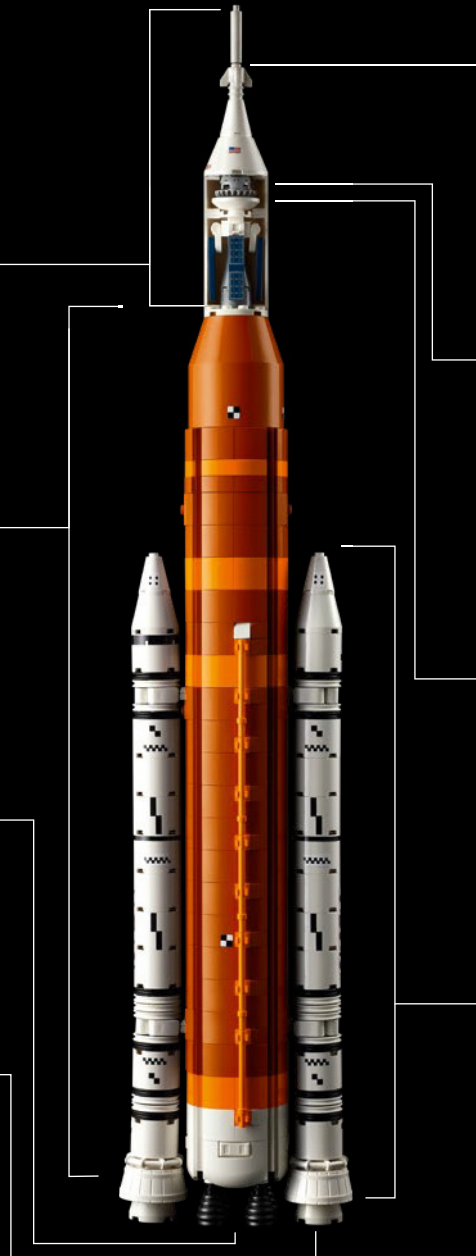
Das Crewmodul der Orion dient der Crew während des Flugs zum Mond als Aufenthaltsbereich, in dem Astronauten mit Nahrung, Wasser und Sauerstoff versorgt und gleichzeitig vor Gefahren wie der Weltraumstrahlung geschützt werden.

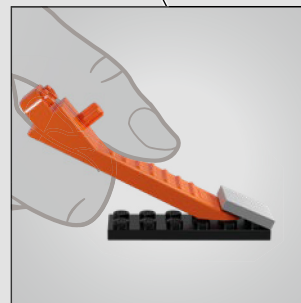
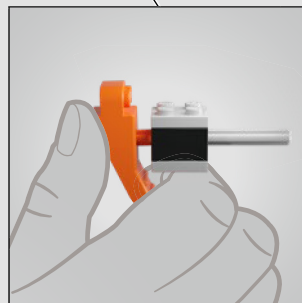
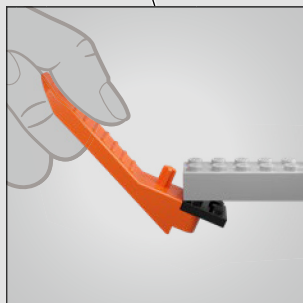
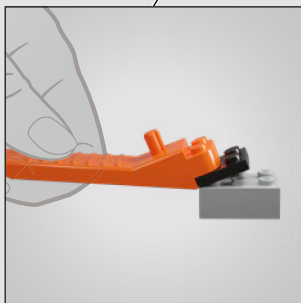
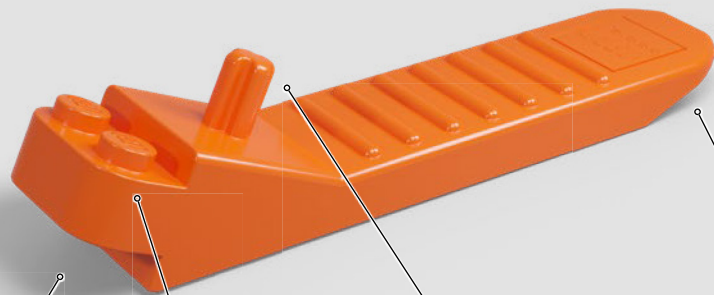
EUROPÄISCHES SERVICEMODUL

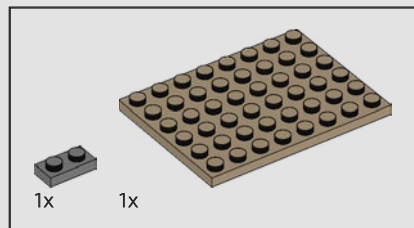
Das Servicemodul ist das Maschinenhaus, das Orion antreibt und mit Strom und Wärme sowie mit Luft und Wasser für die Astronauten versorgt. Näheres erfährst du auf: esa.int/esm

FESTSTOFFBOOSTER

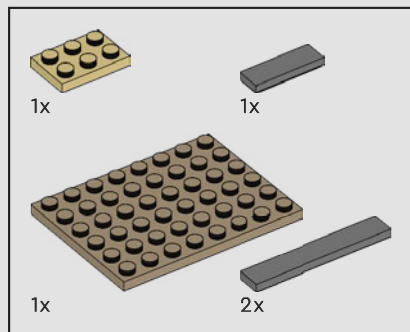
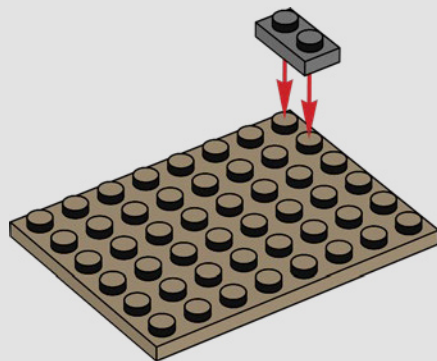
Die Feststoffbooster des SLS werden als Erstes an der mobilen Startplattform installiert. Voll mit Treibstoff befüllt wiegt jeder Booster 726 Tonnen!



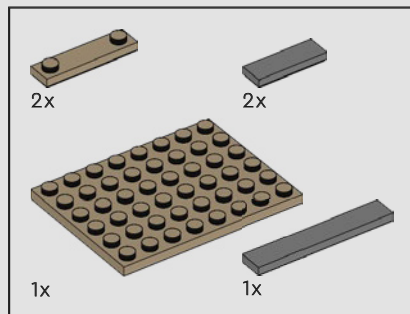
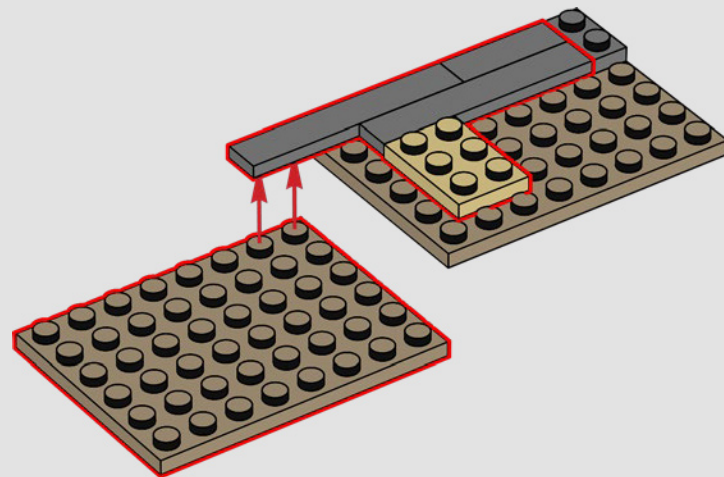




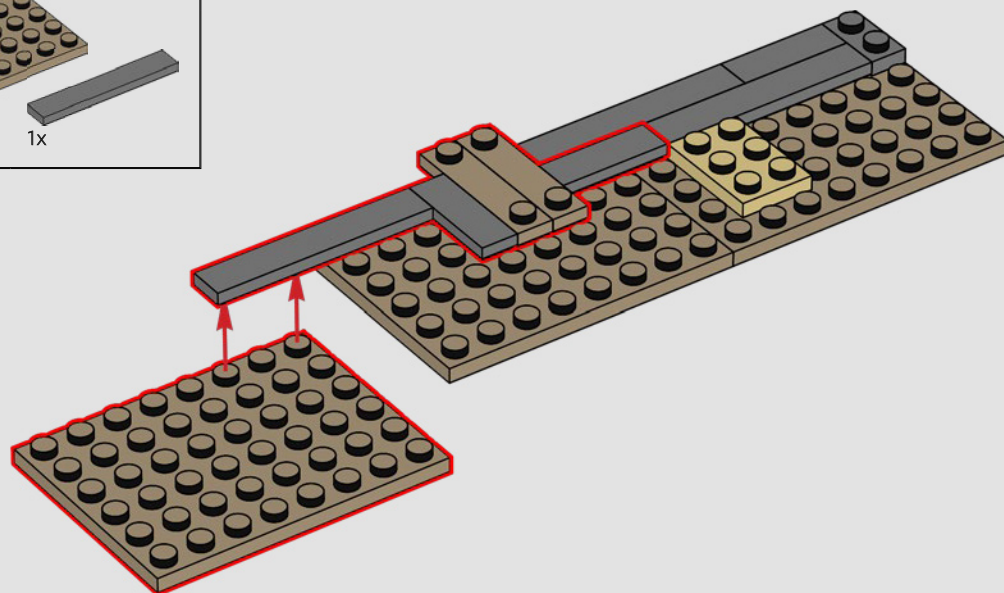
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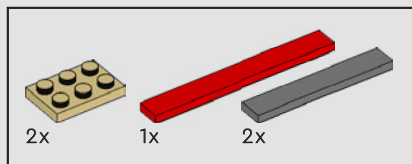


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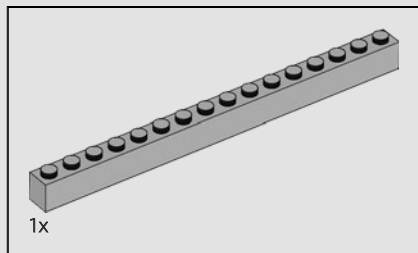
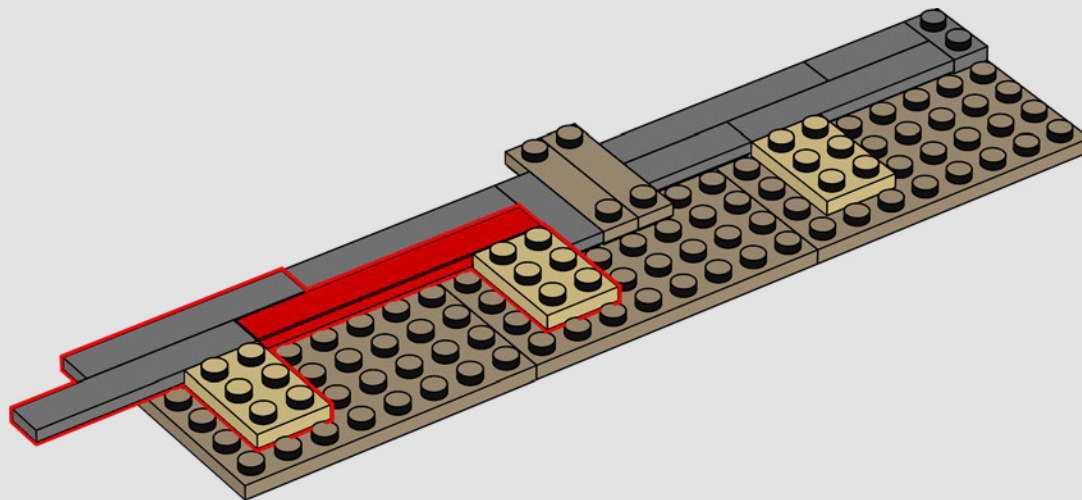


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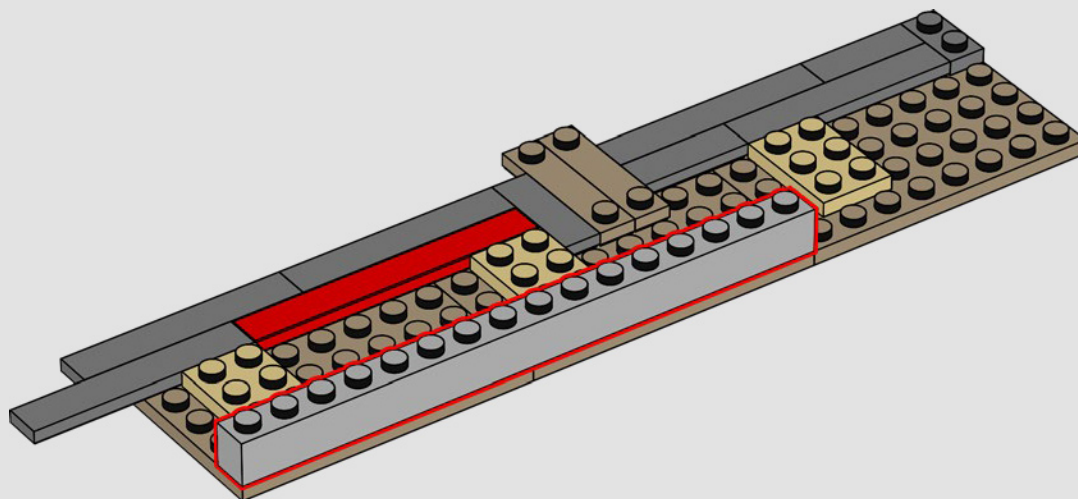


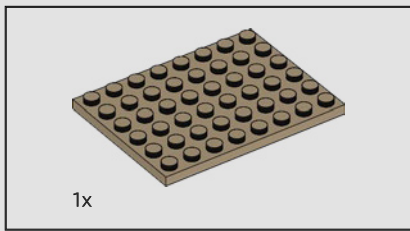


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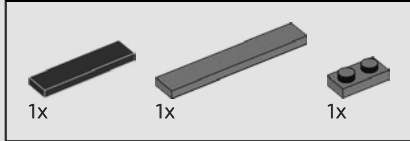
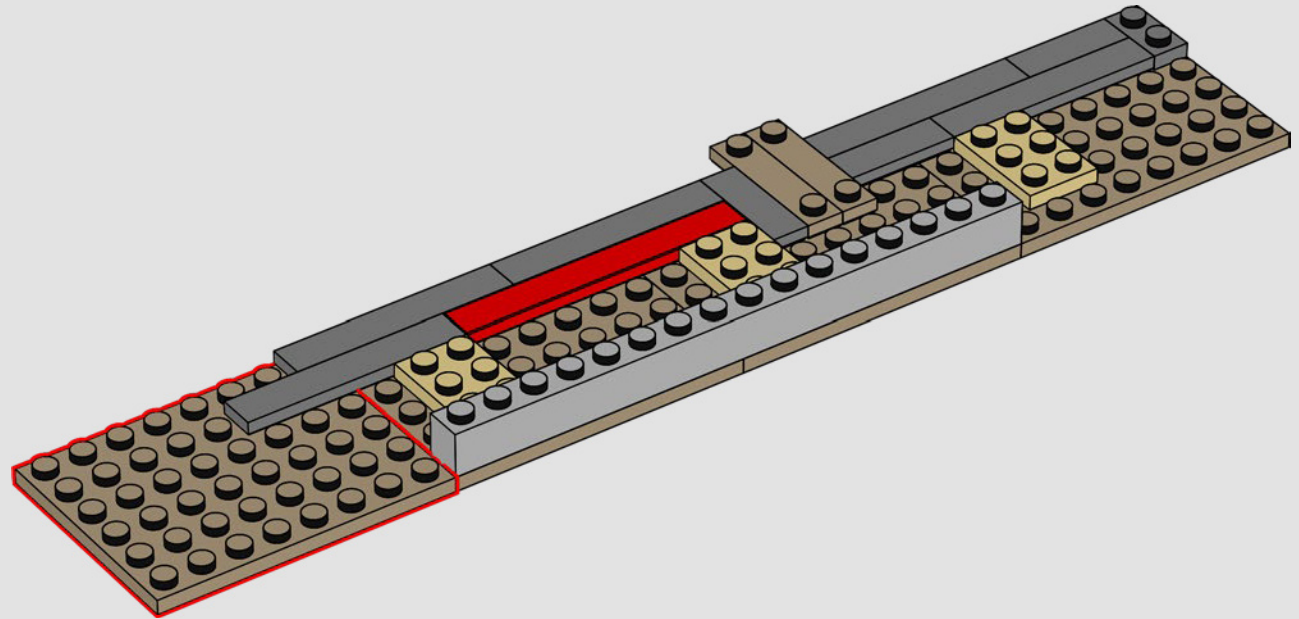


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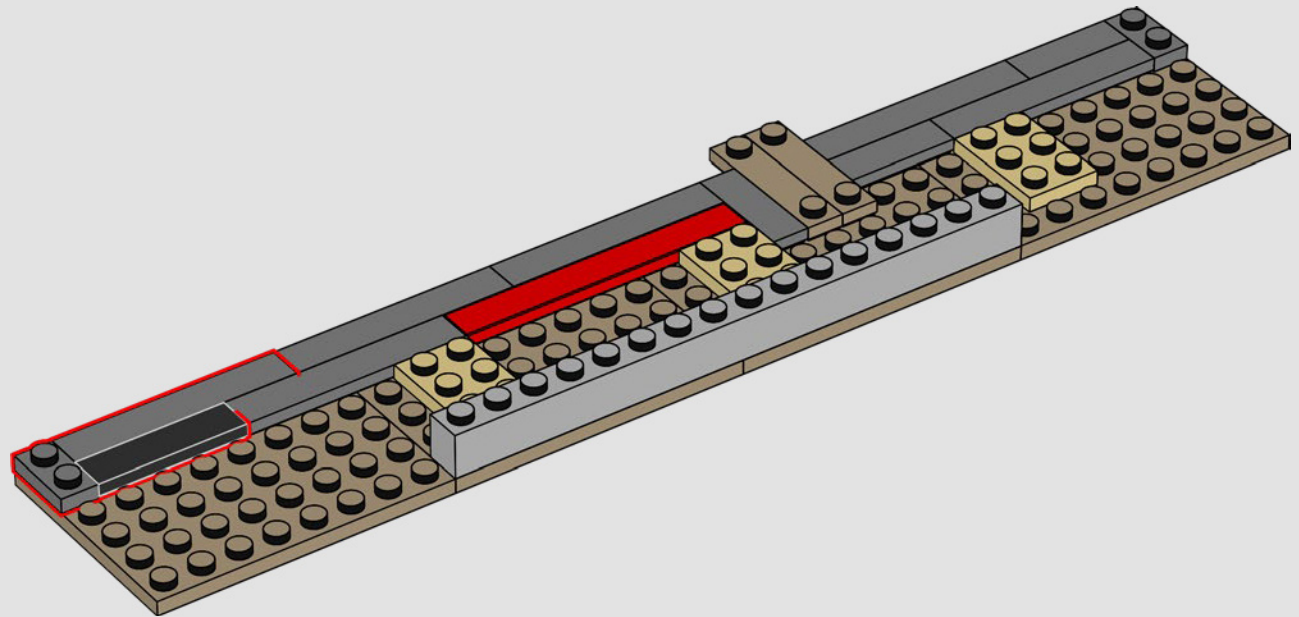


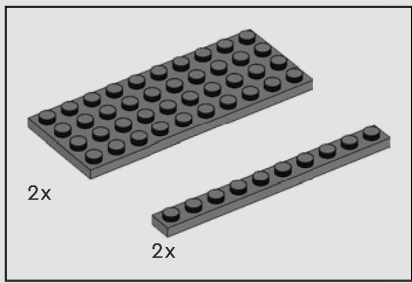


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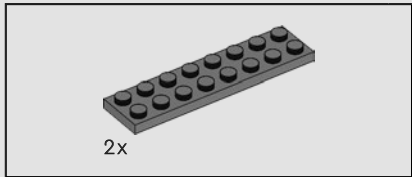
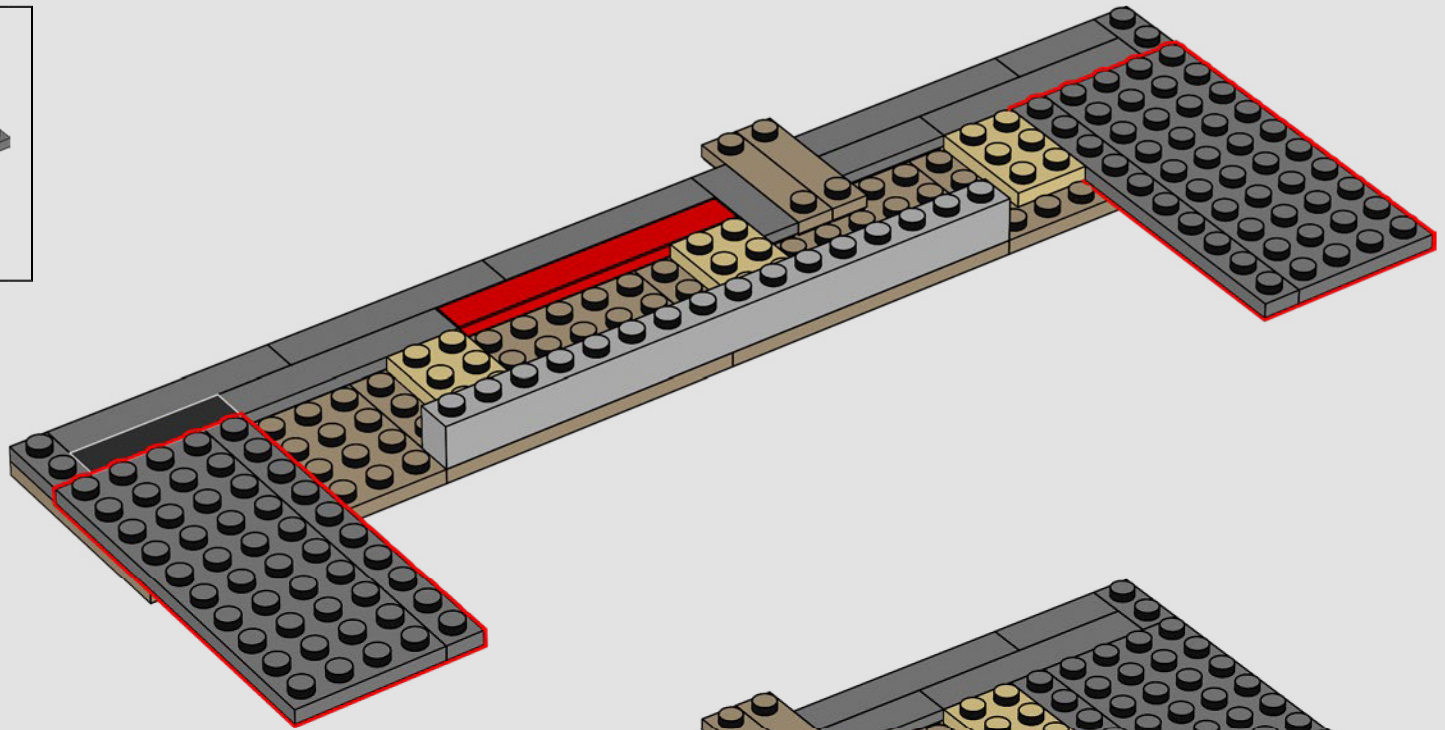


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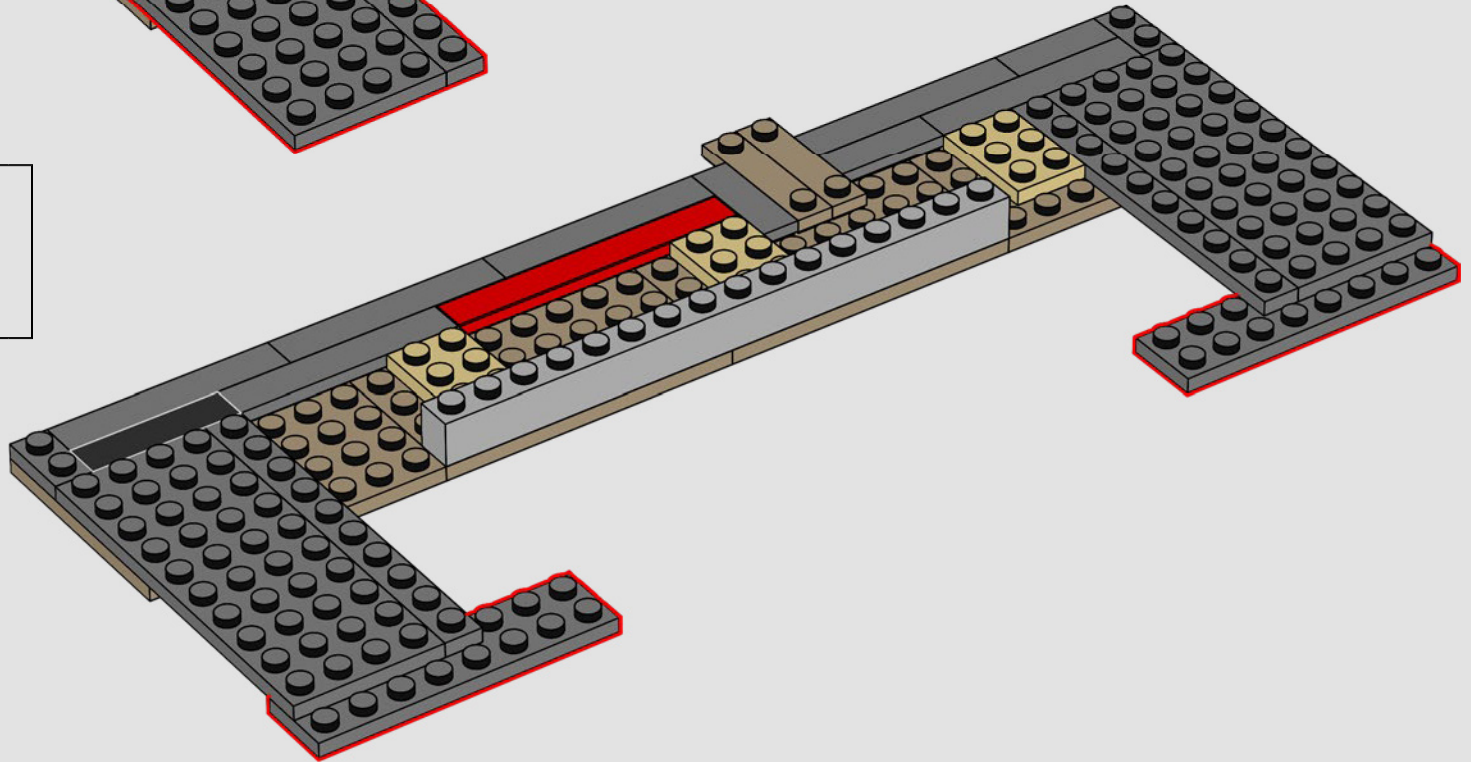


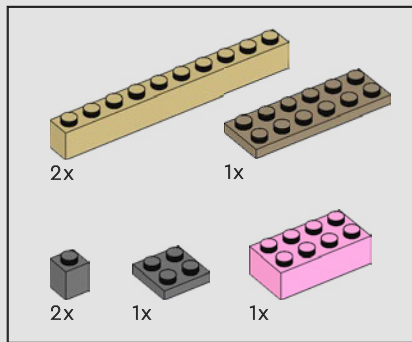


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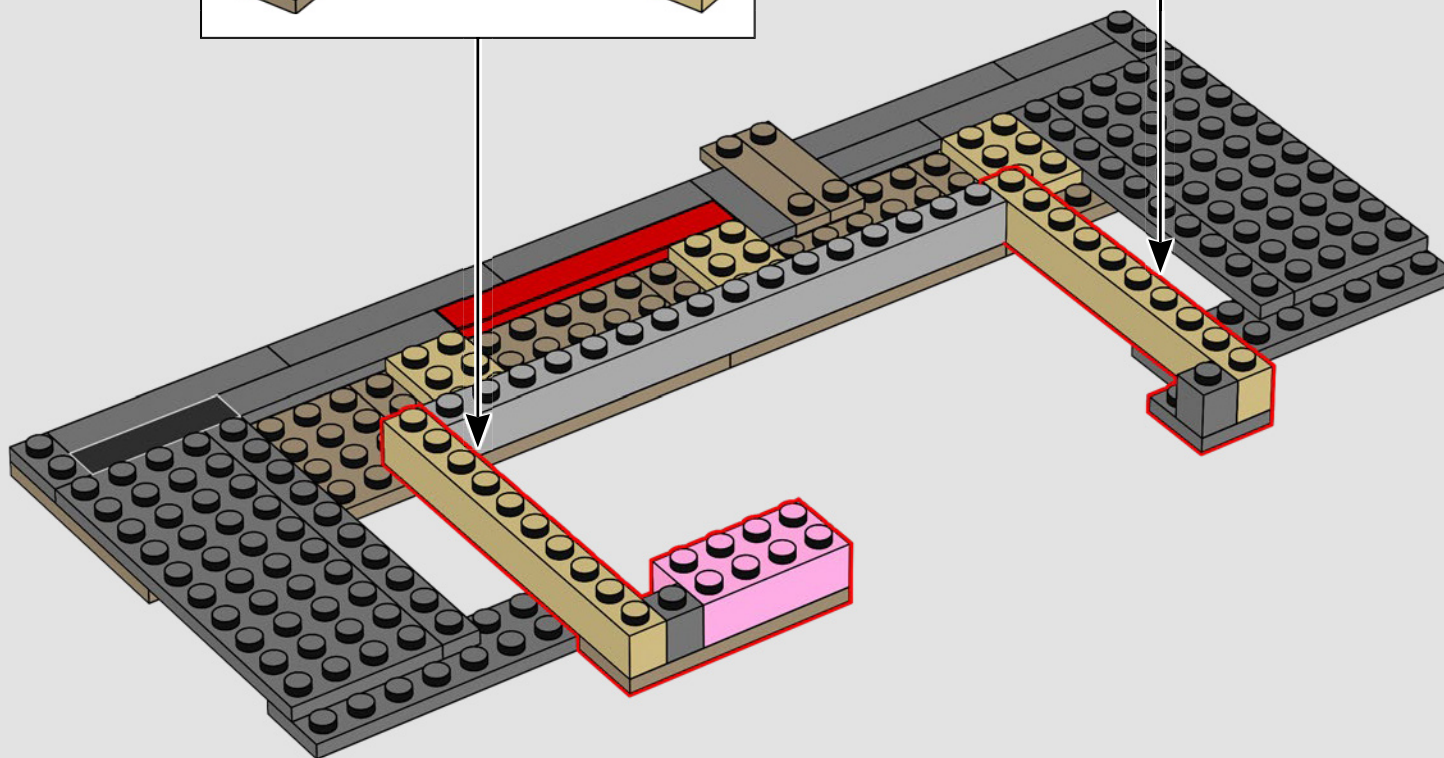
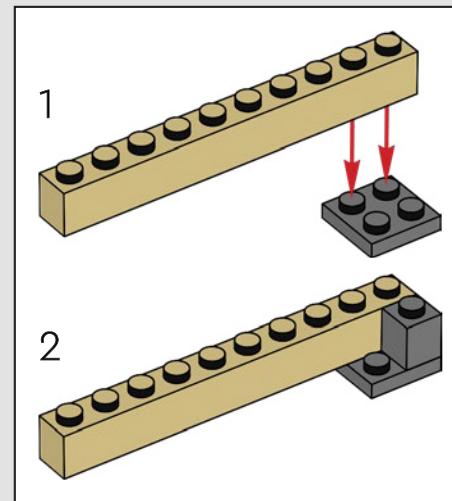
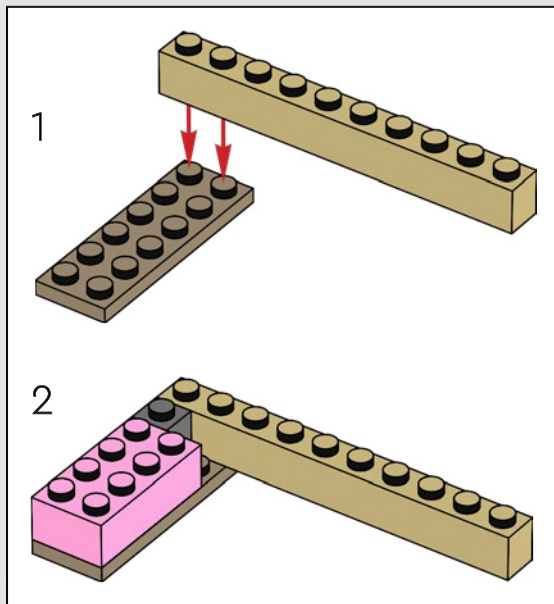


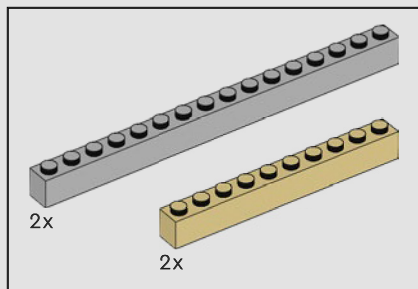
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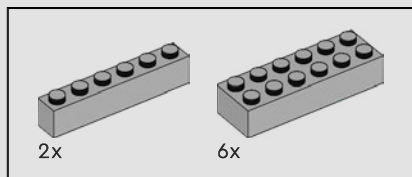
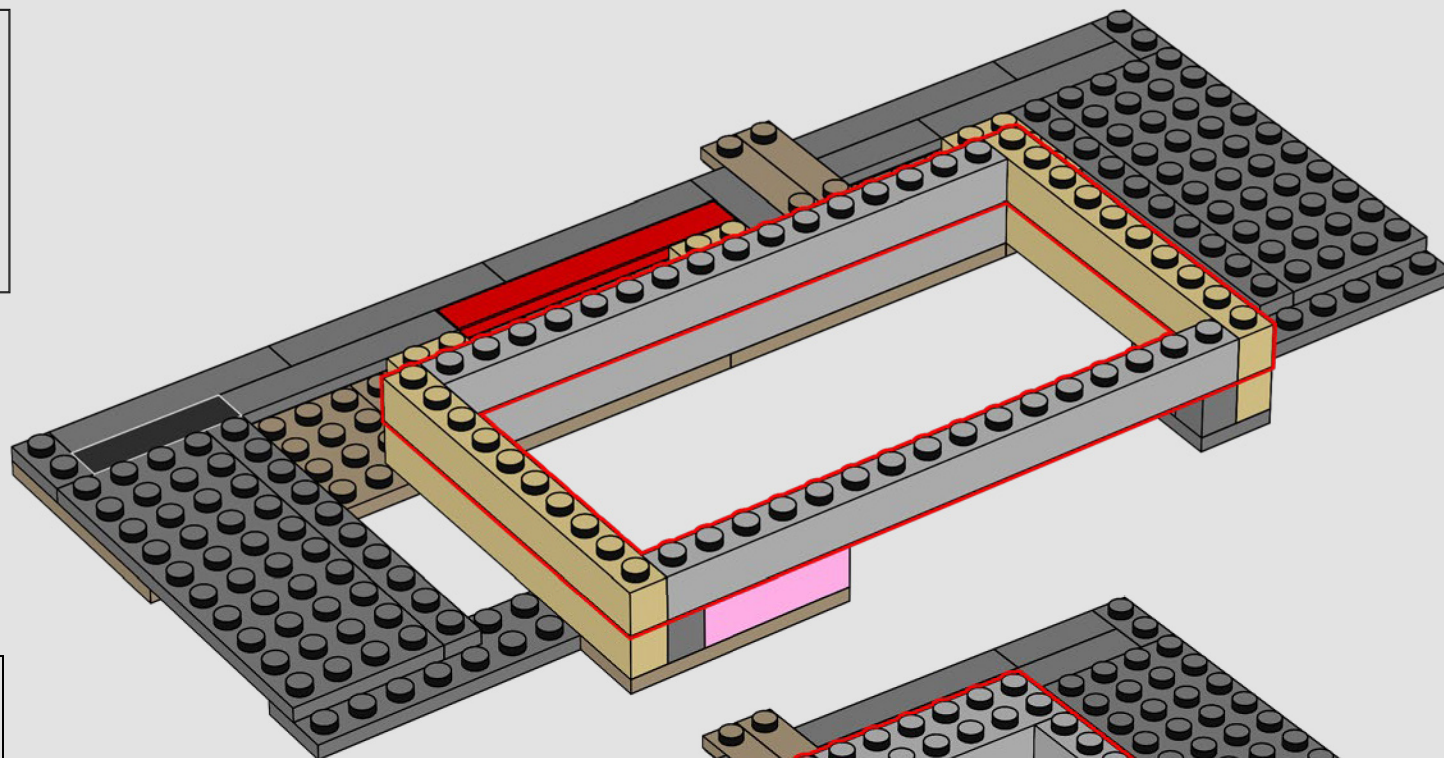


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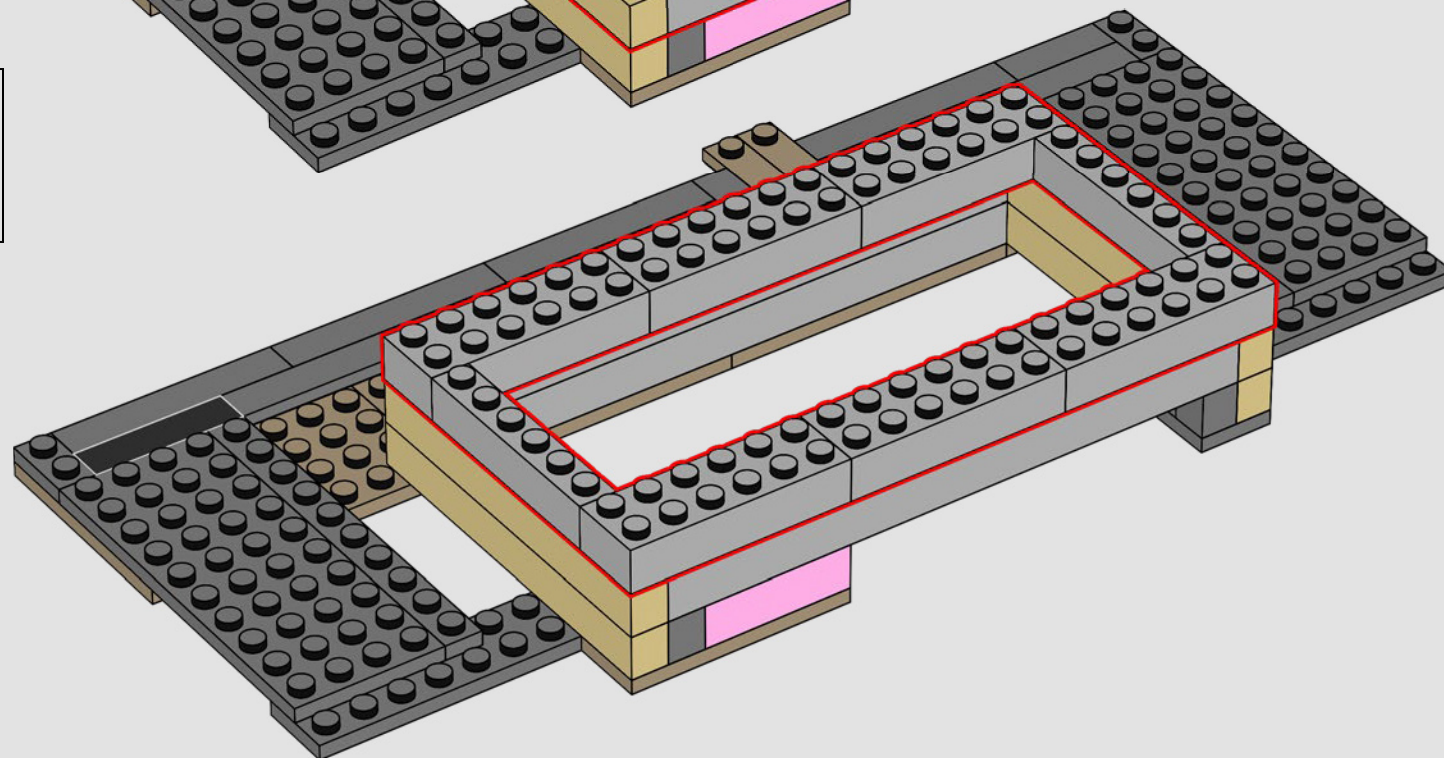


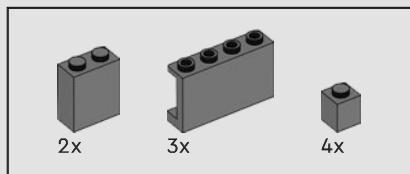


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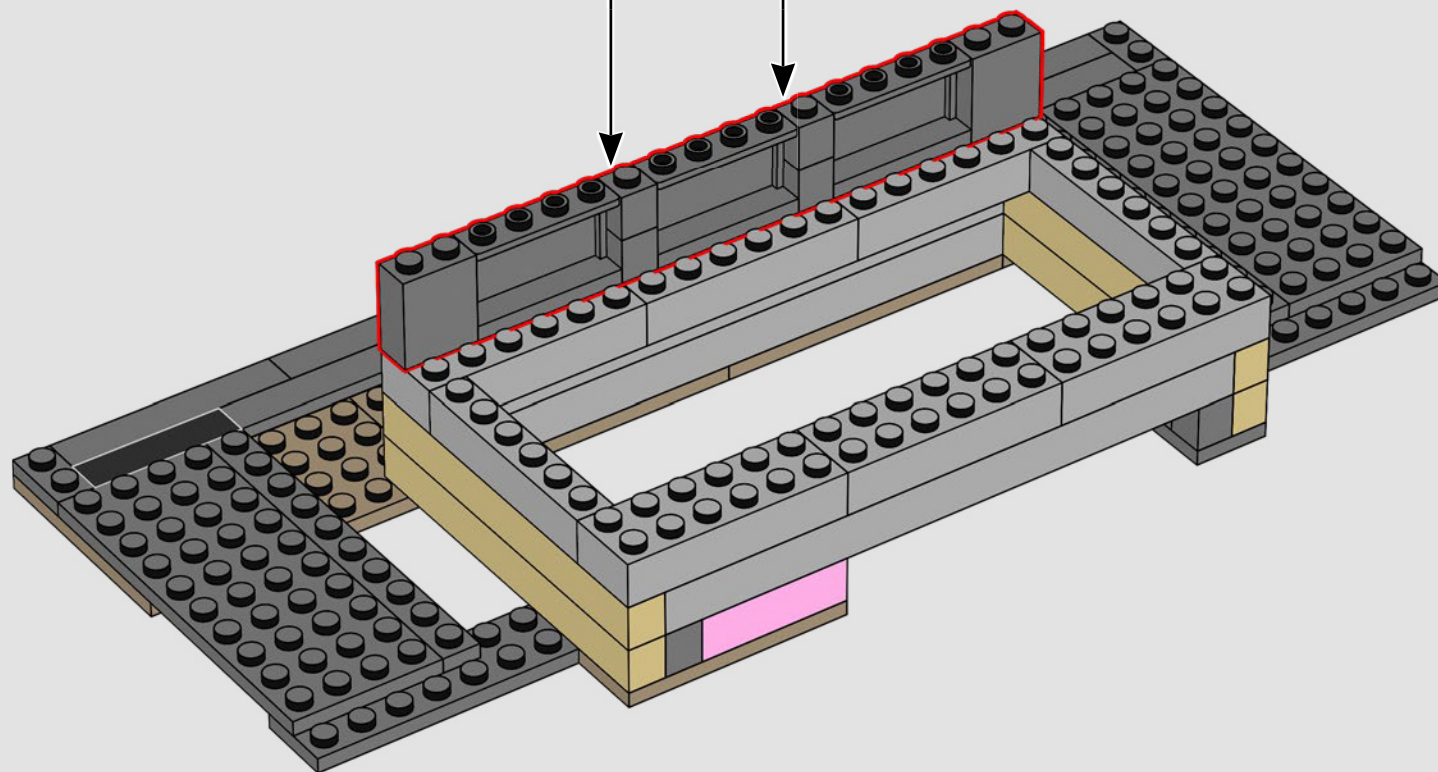
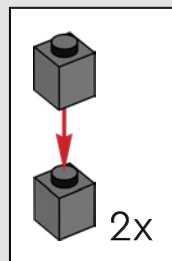


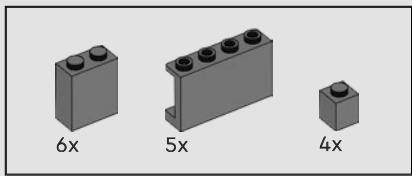
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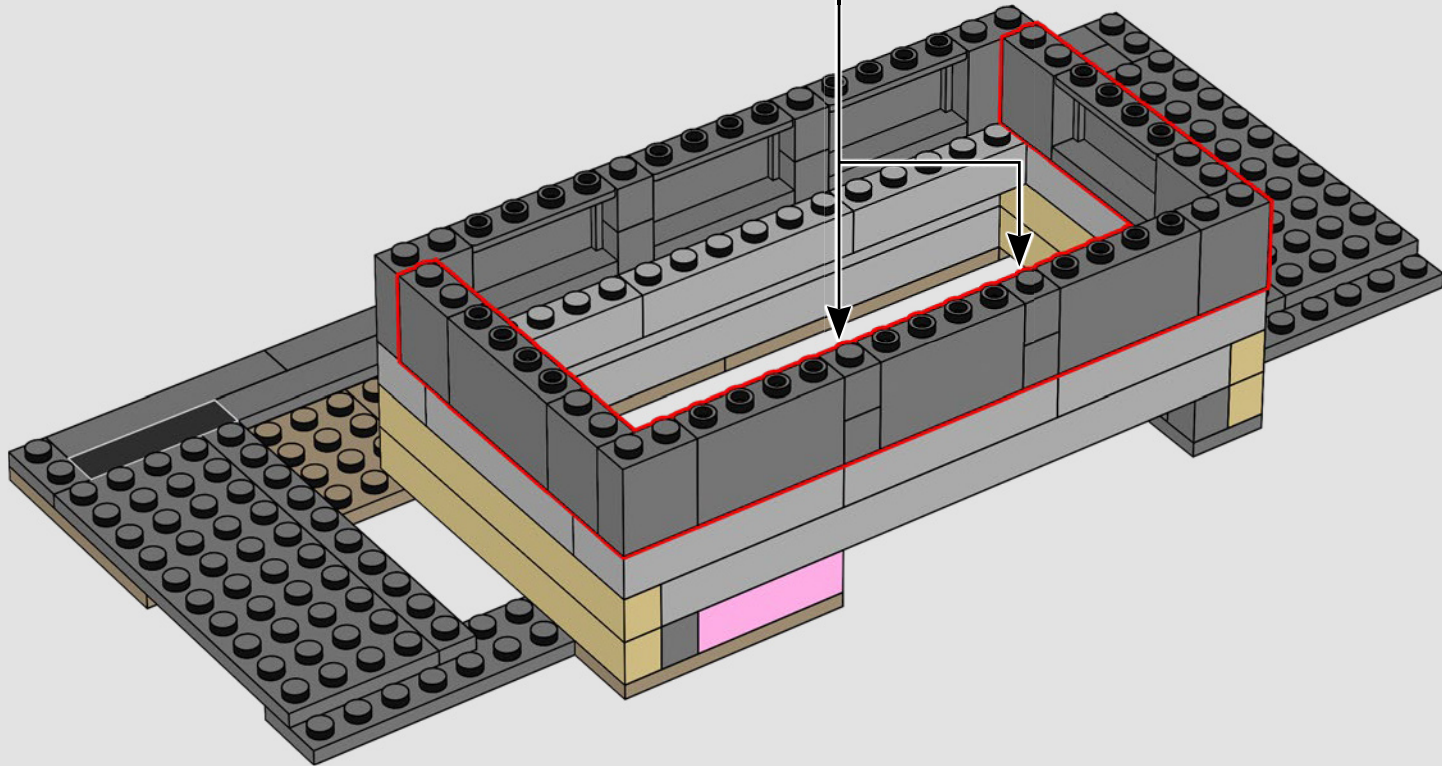
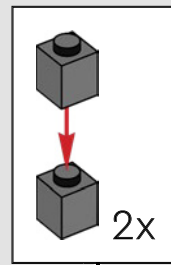


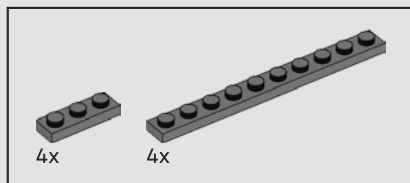
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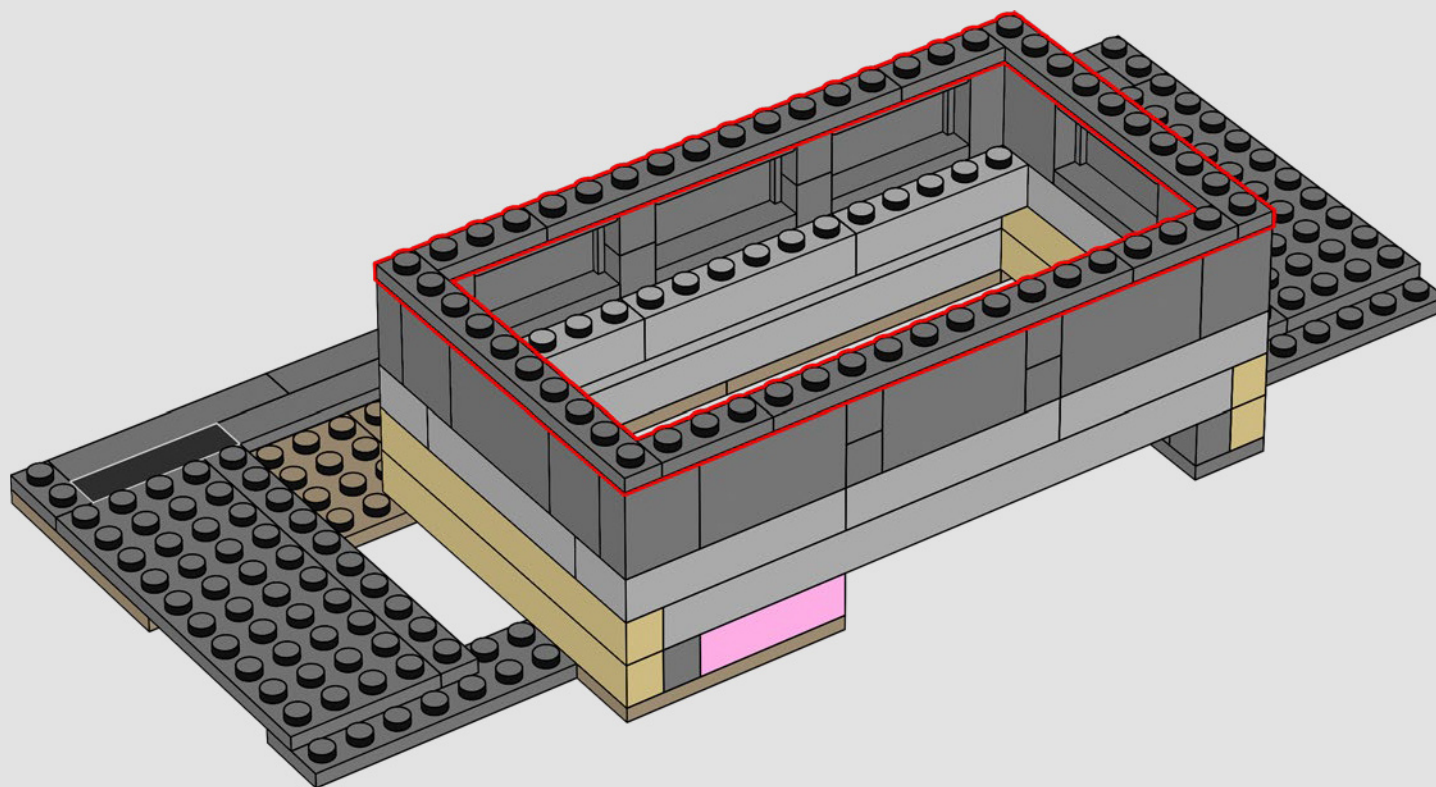


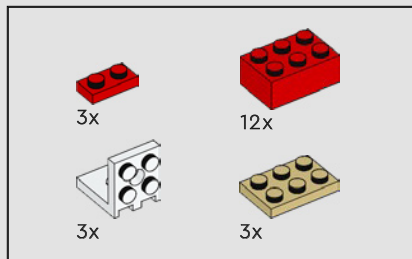
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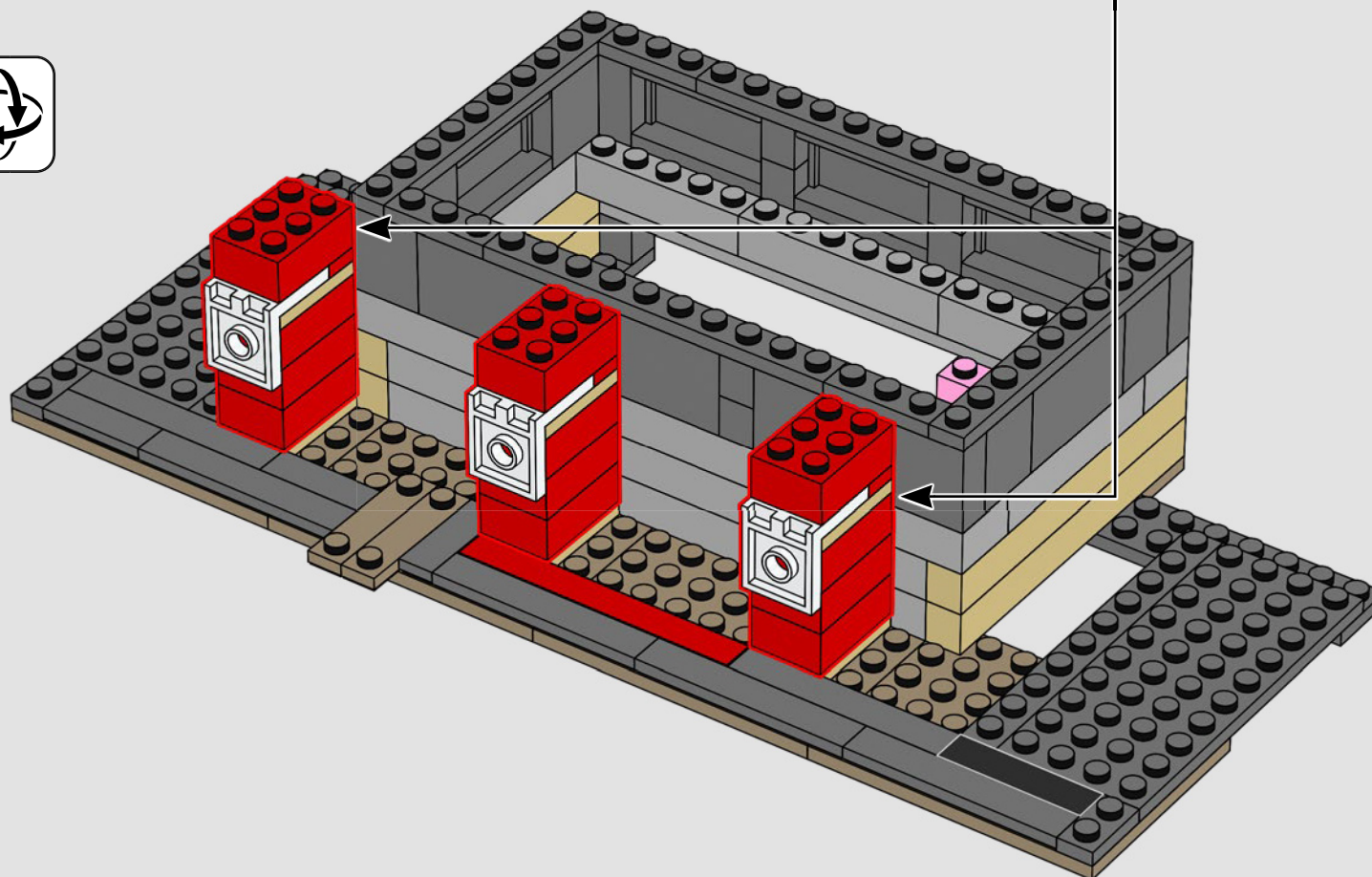
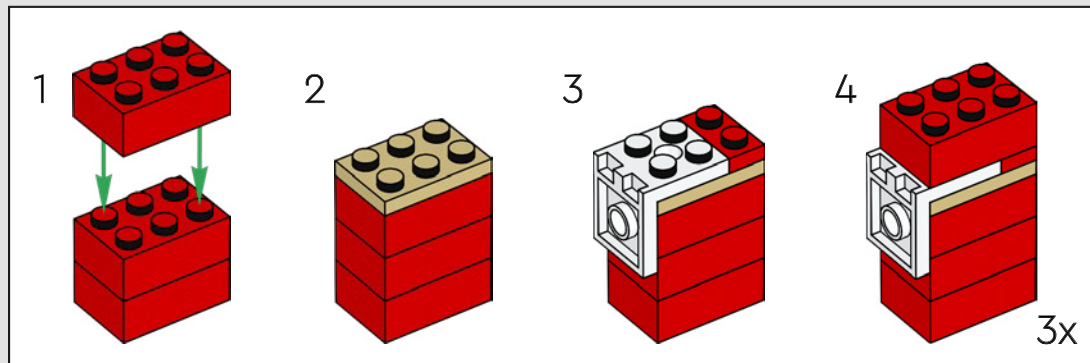


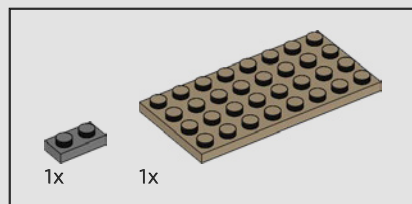
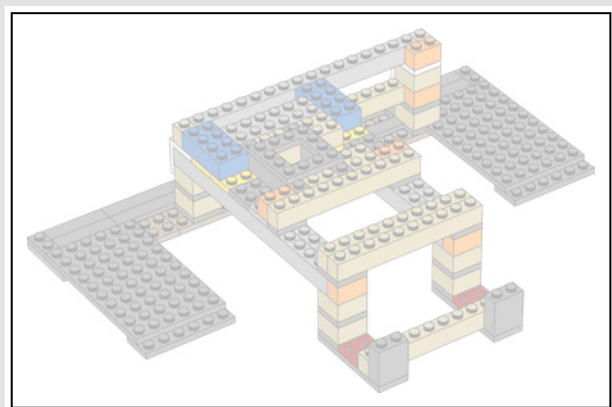
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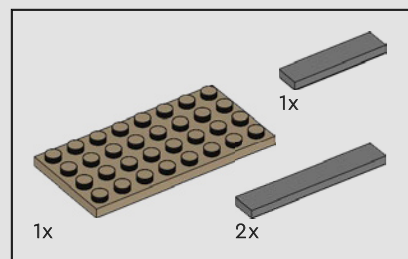
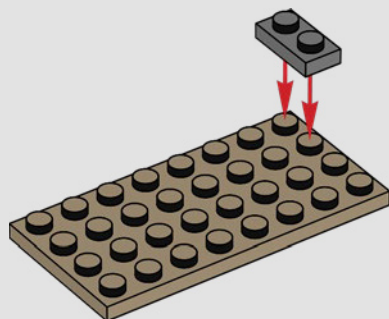


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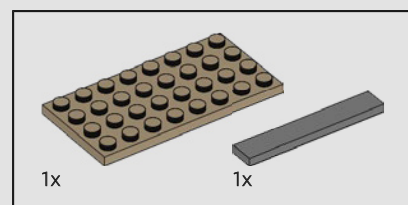
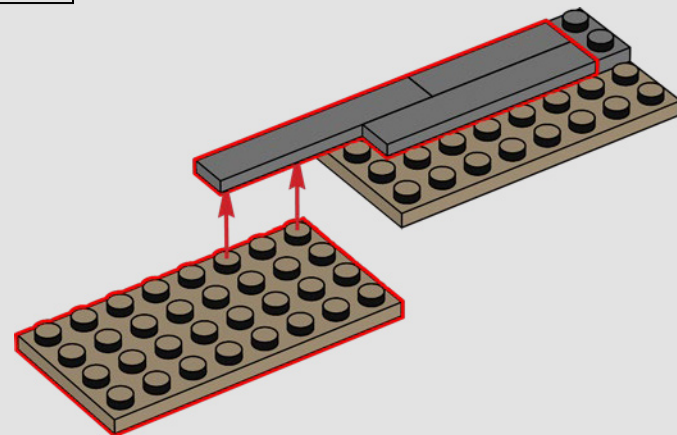




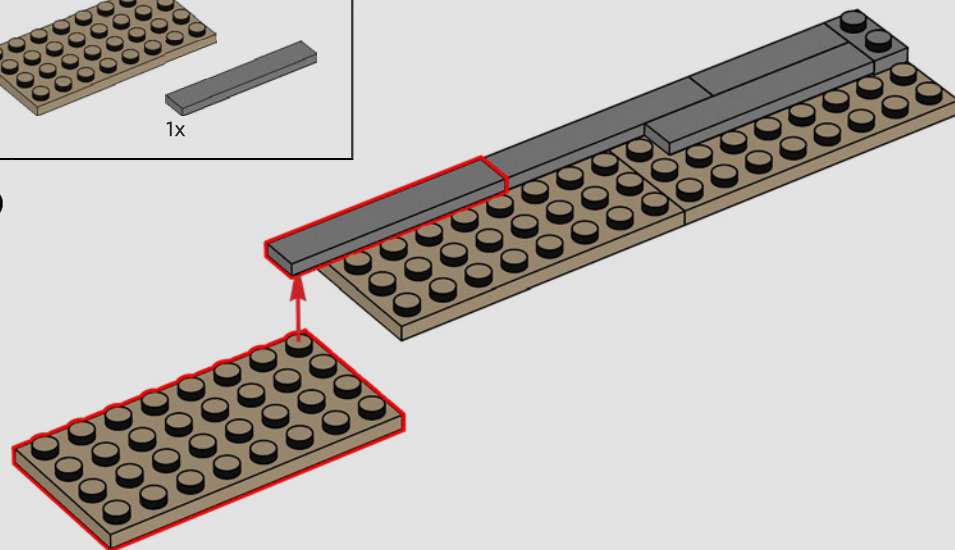
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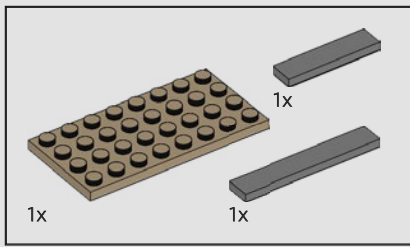


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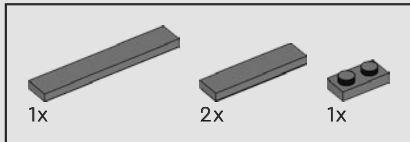
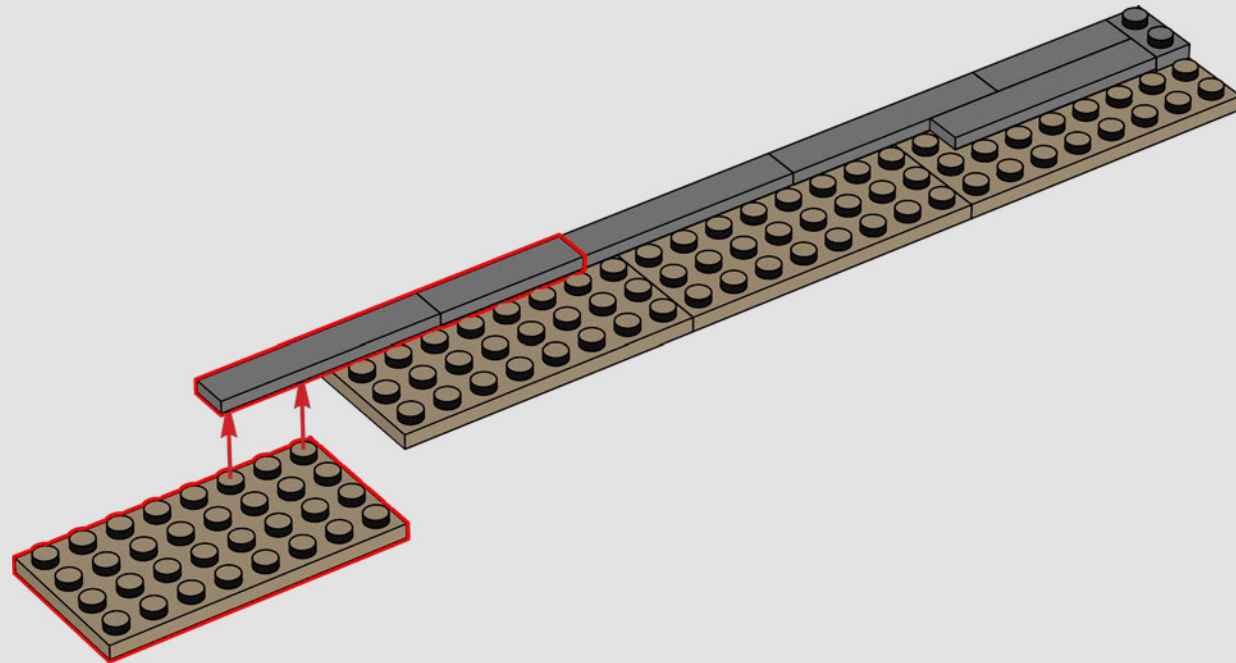


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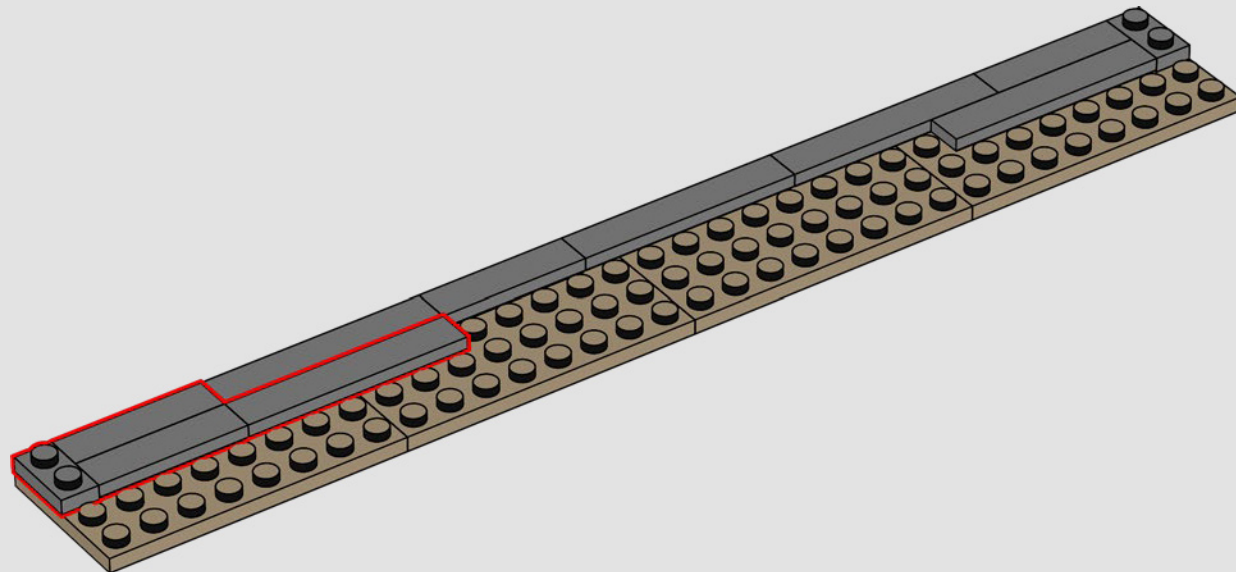


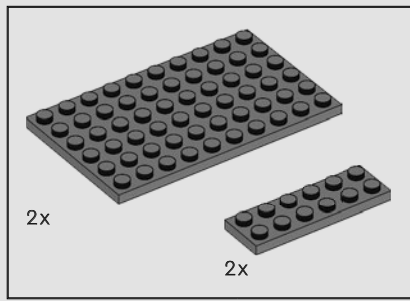


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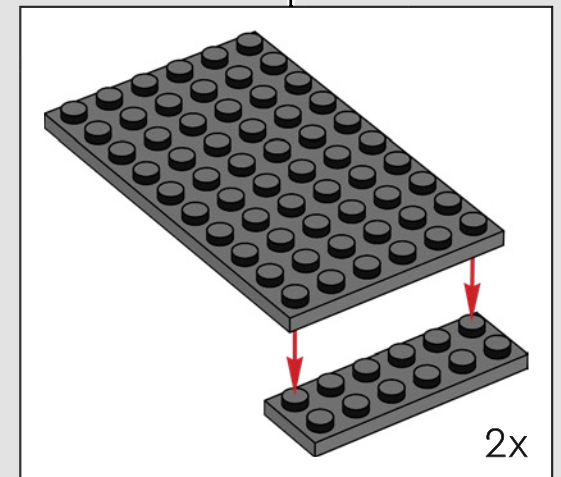
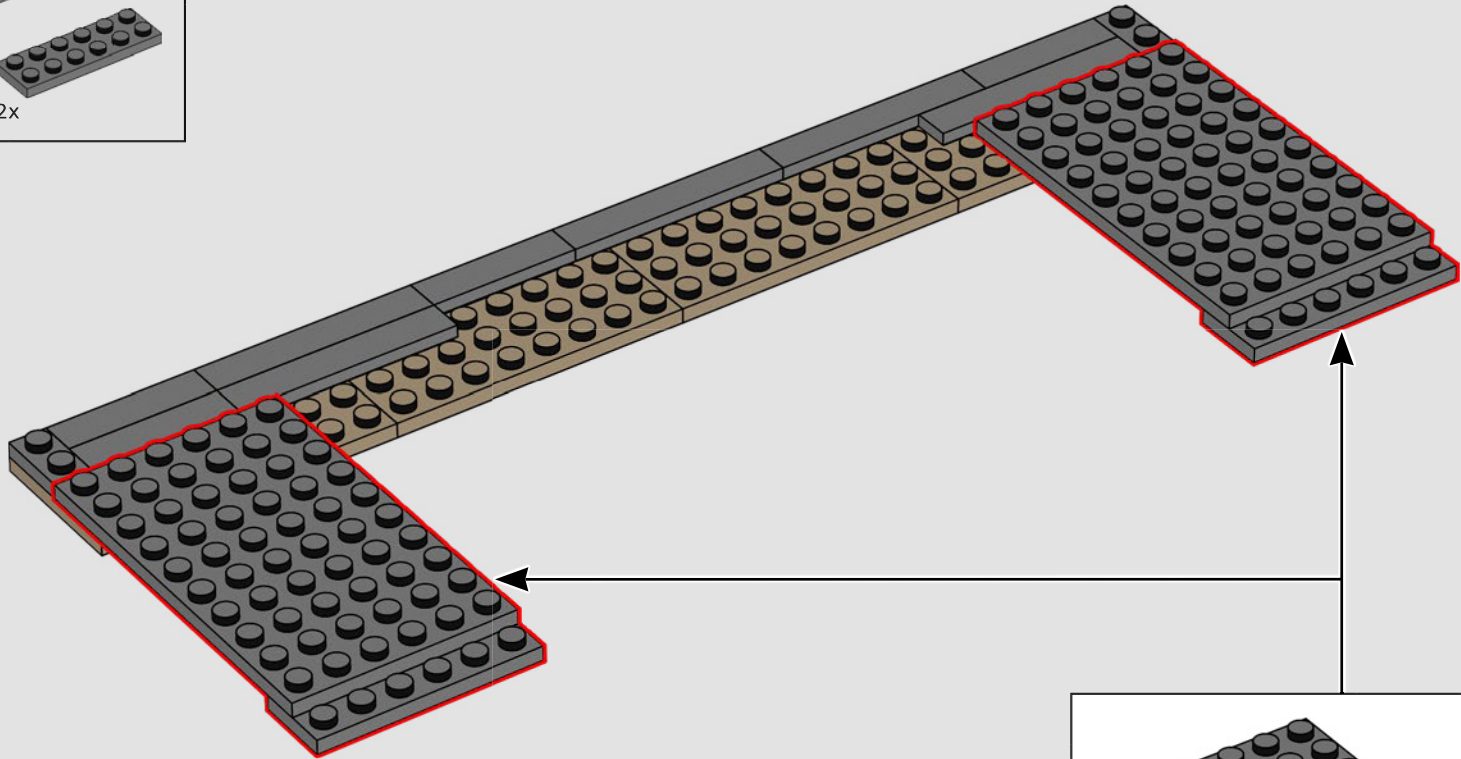


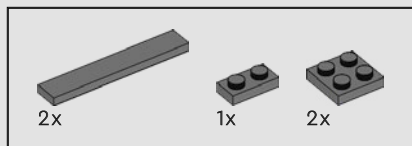
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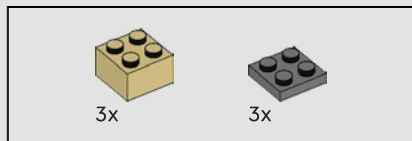
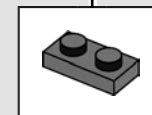
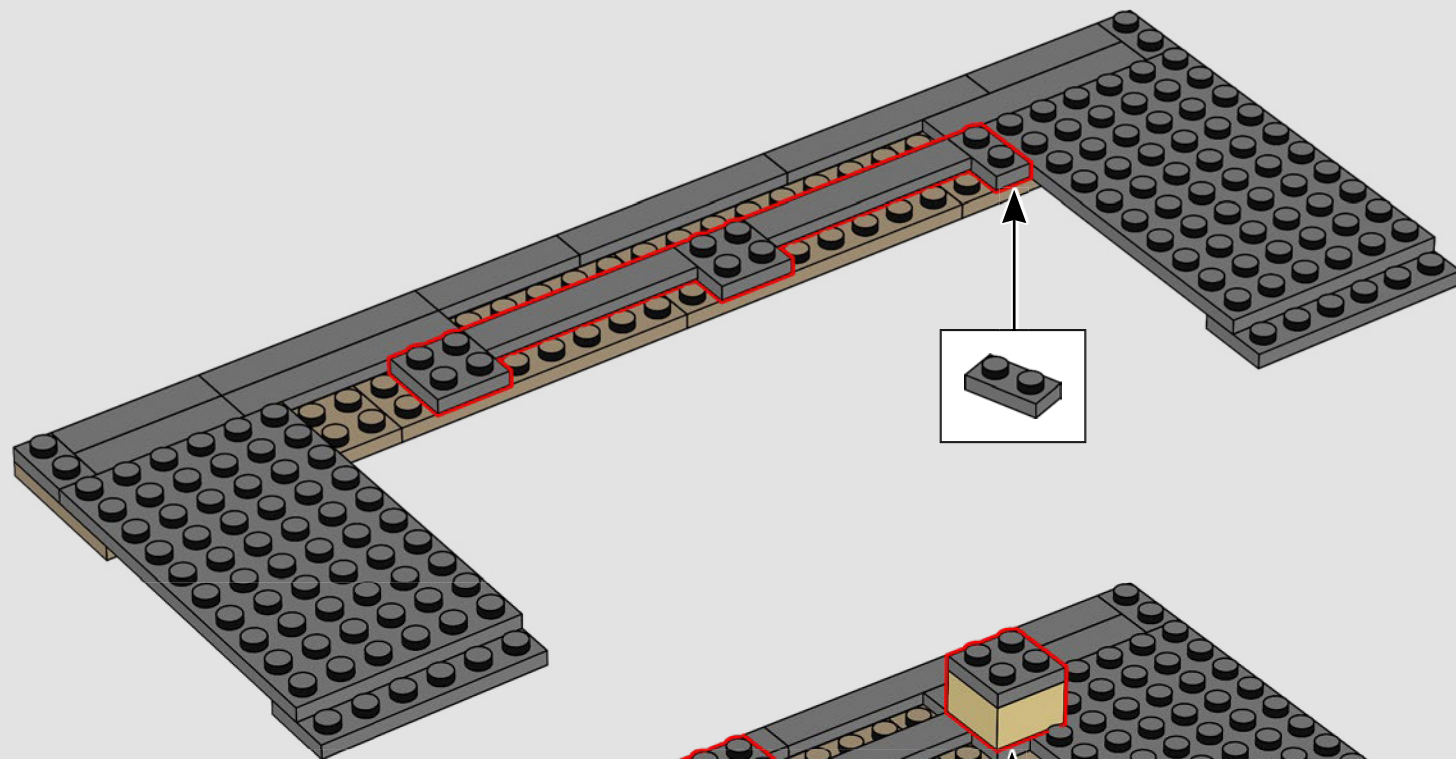


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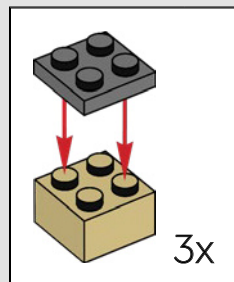
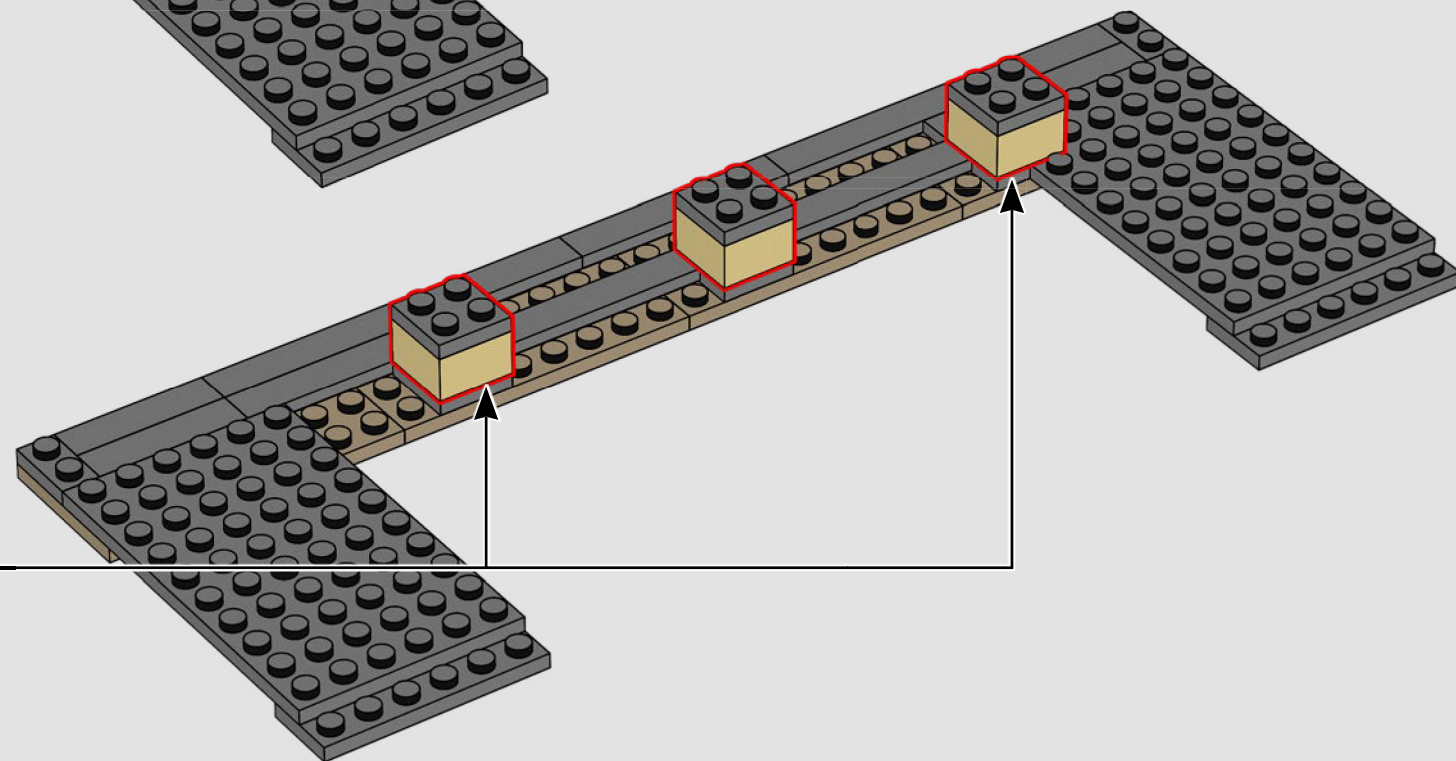


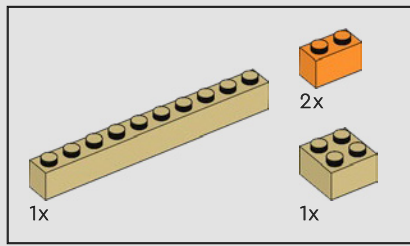


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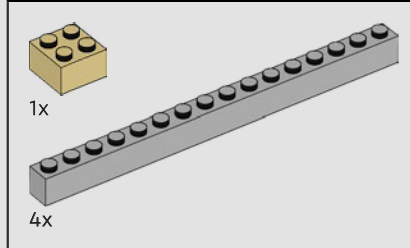
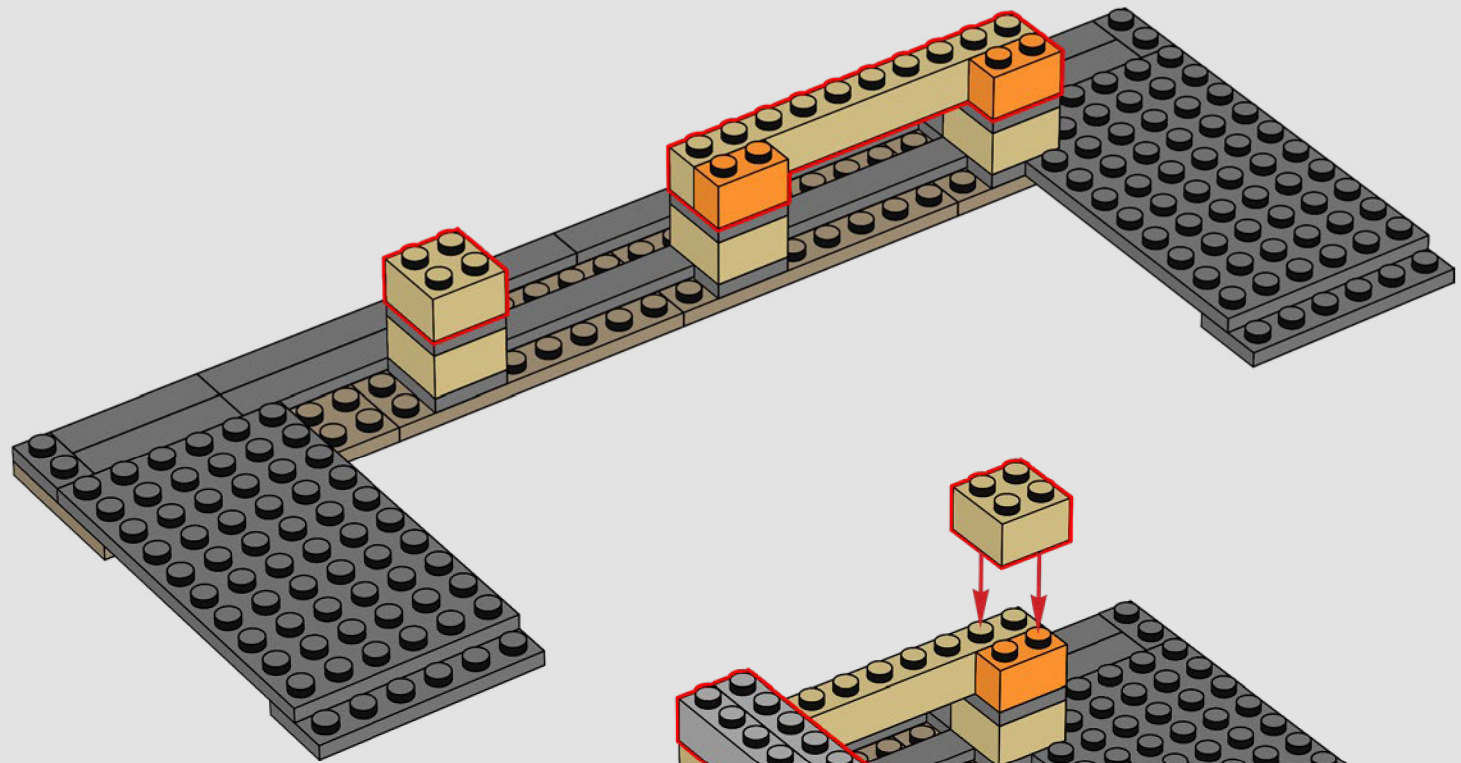


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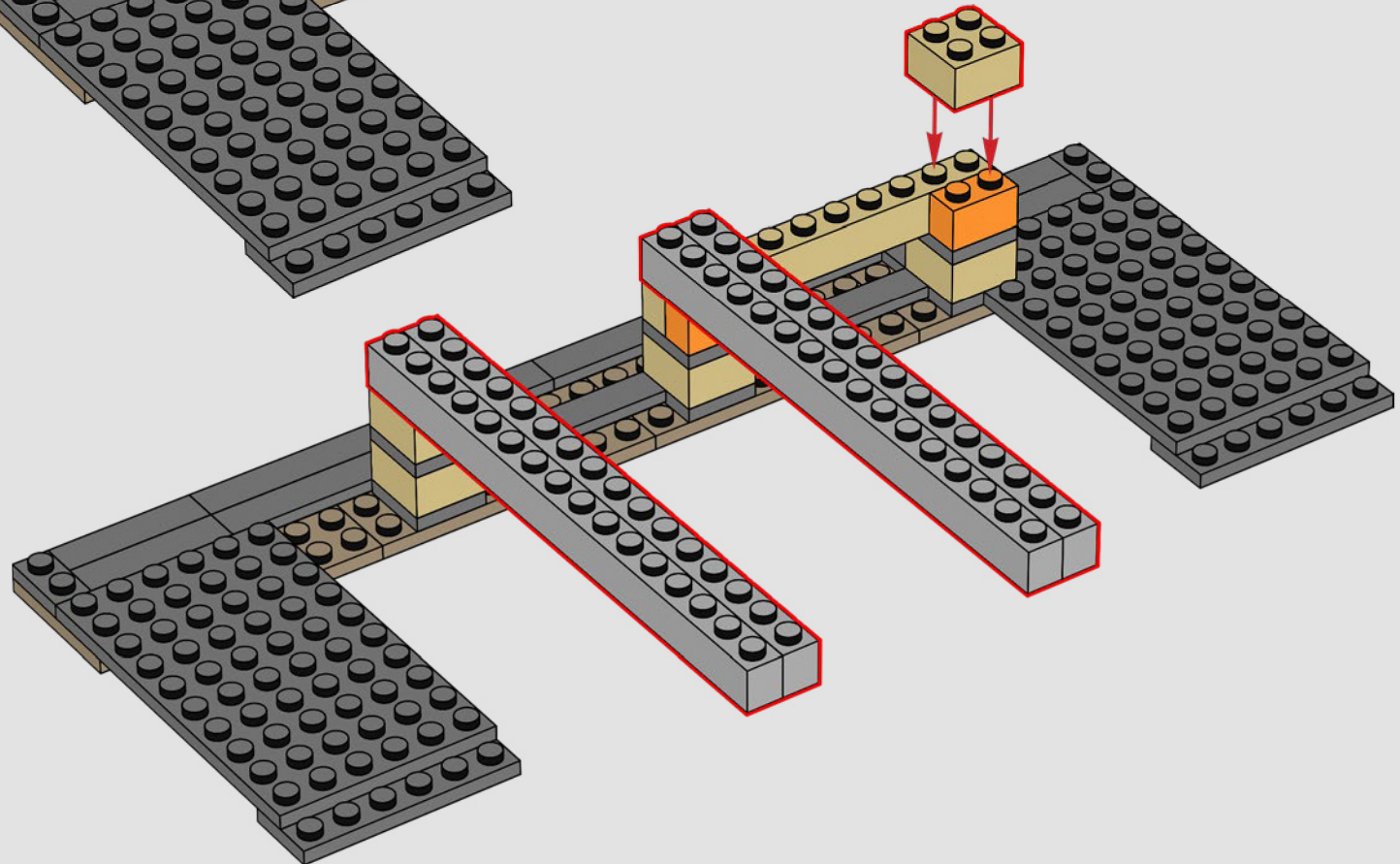


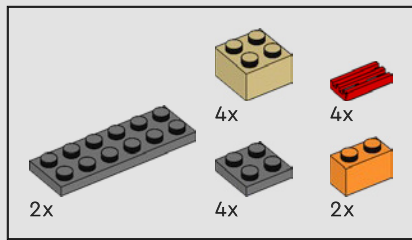


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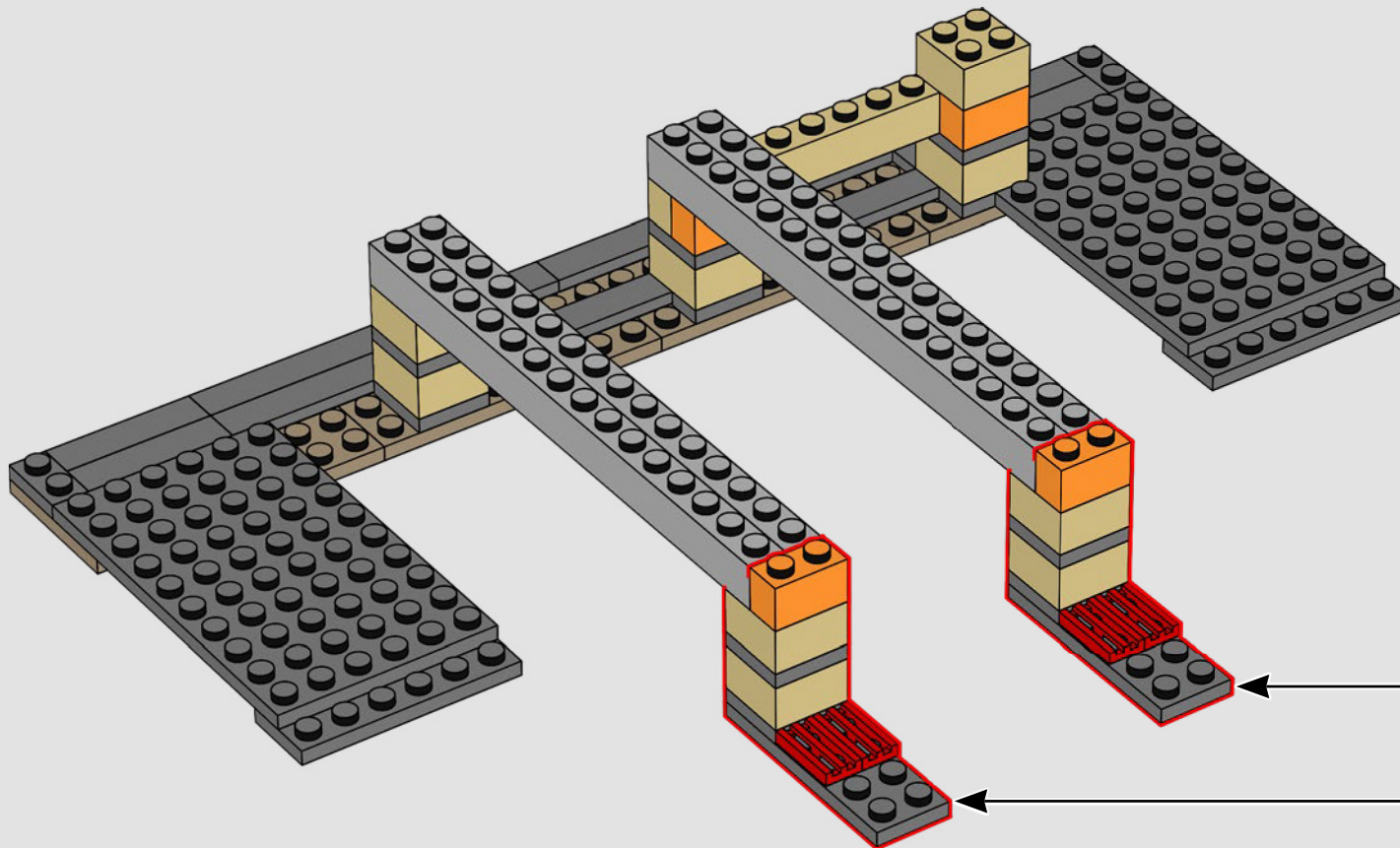
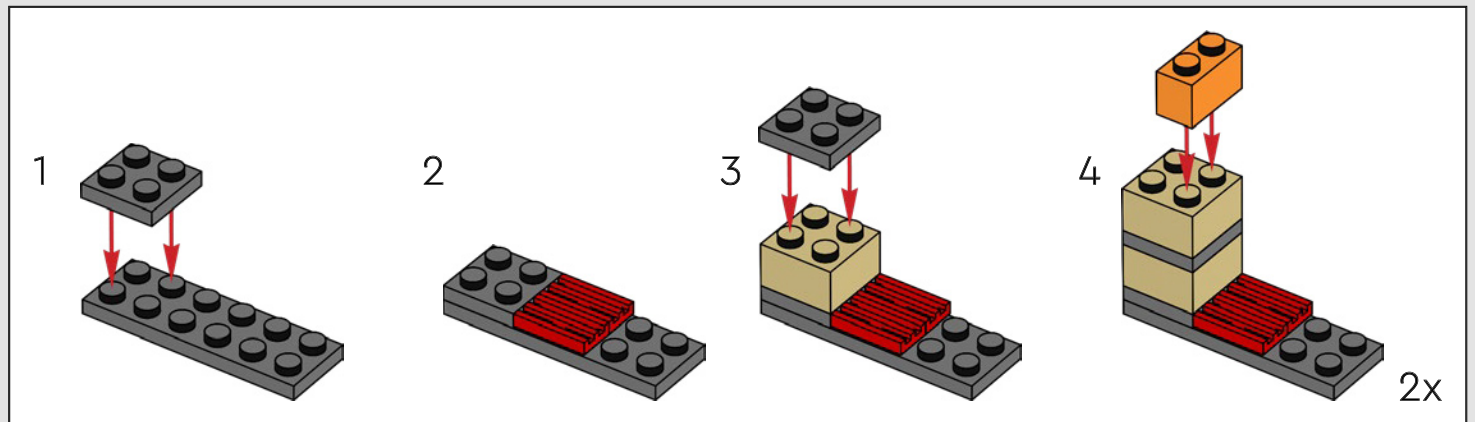


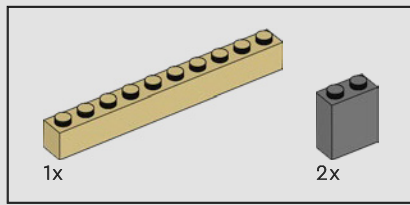
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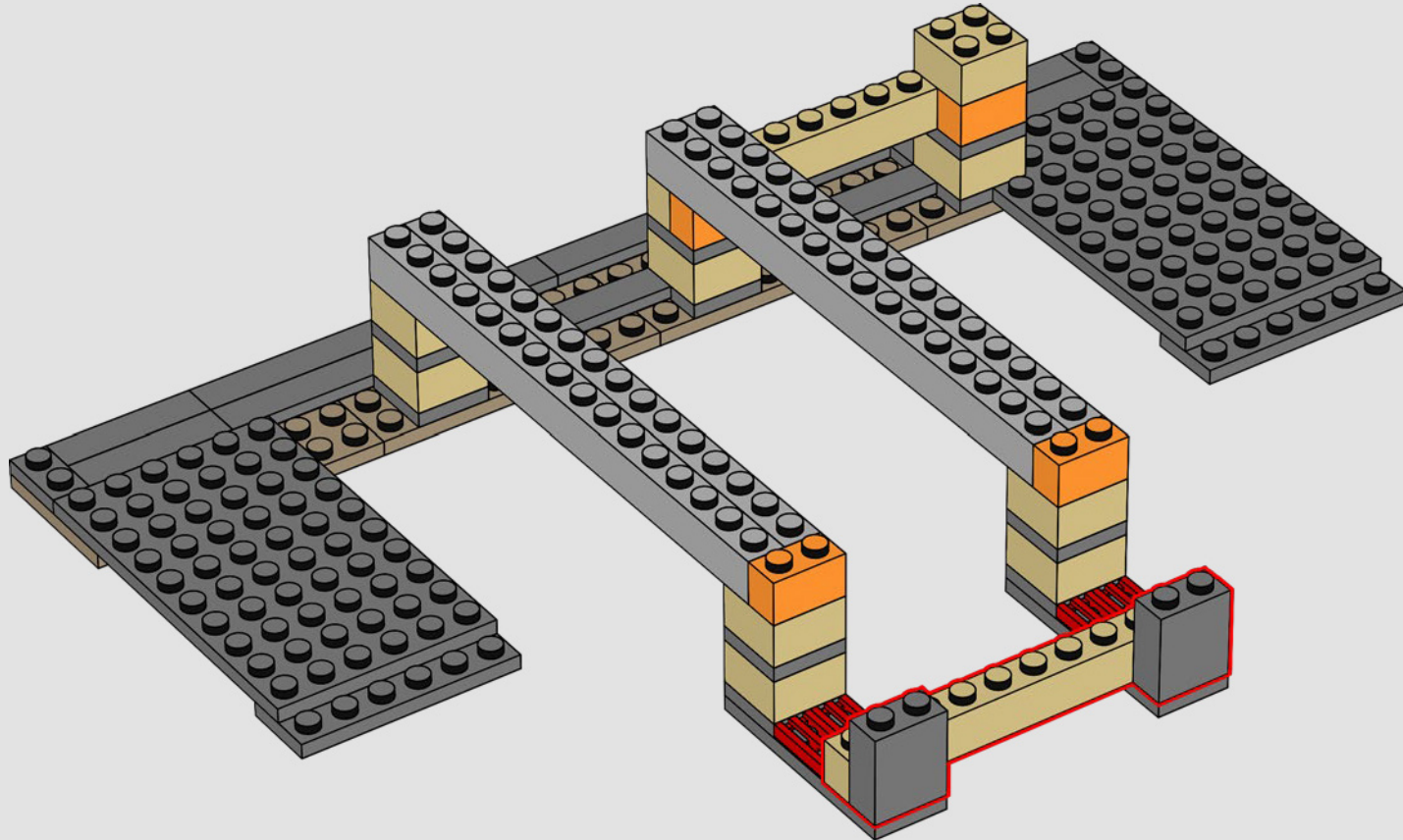


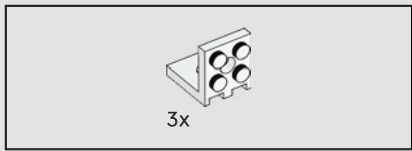
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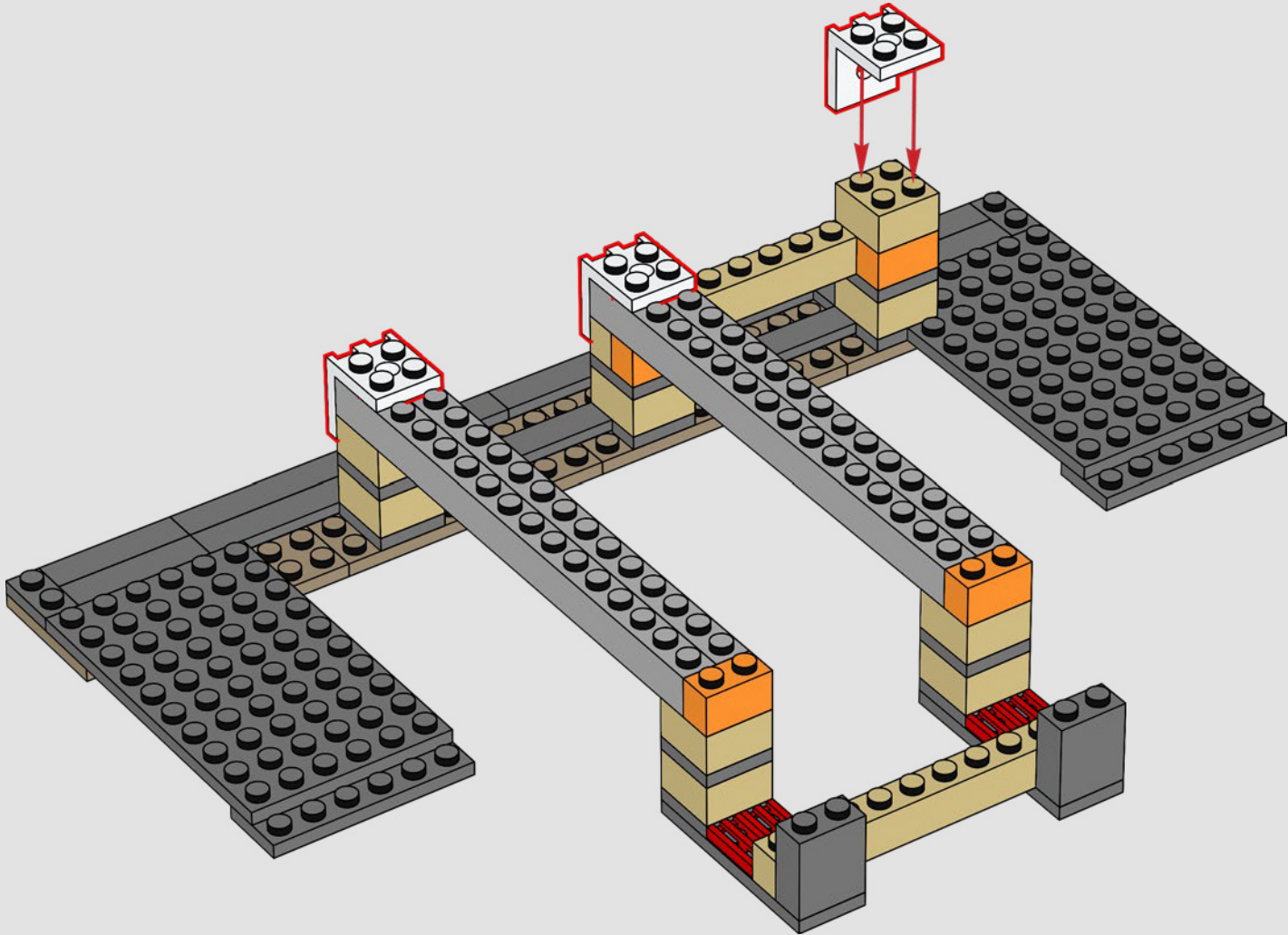


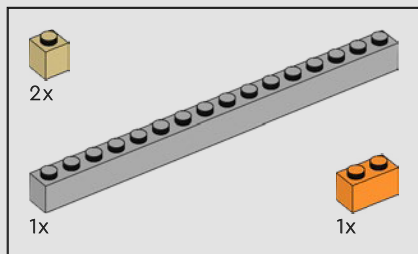
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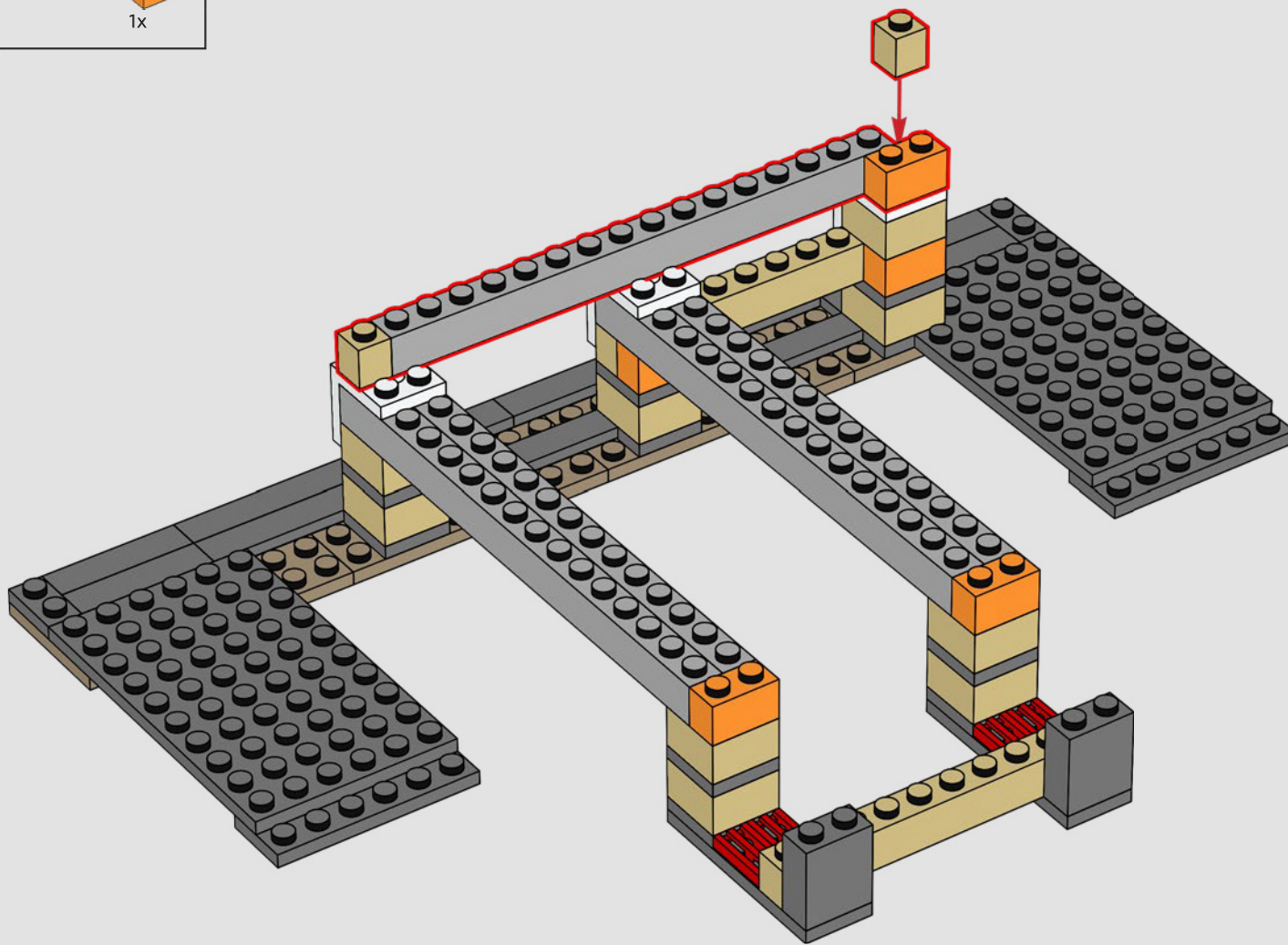


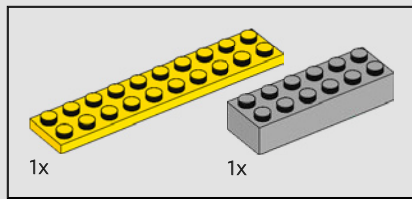
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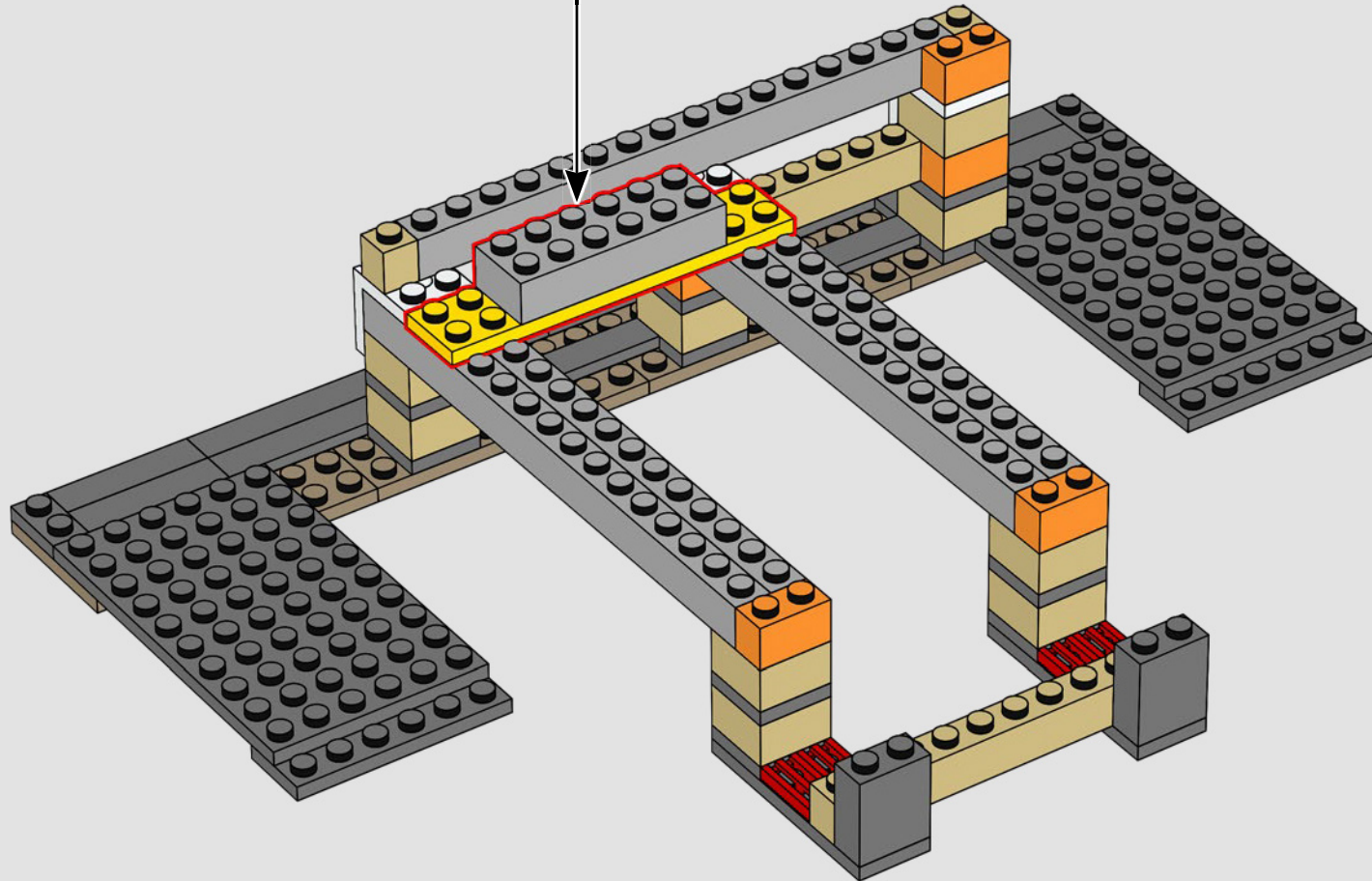
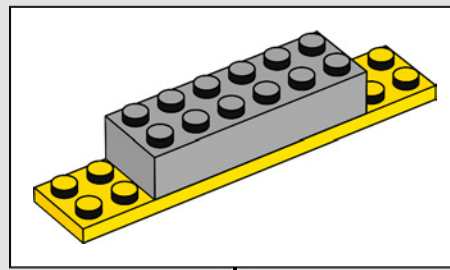


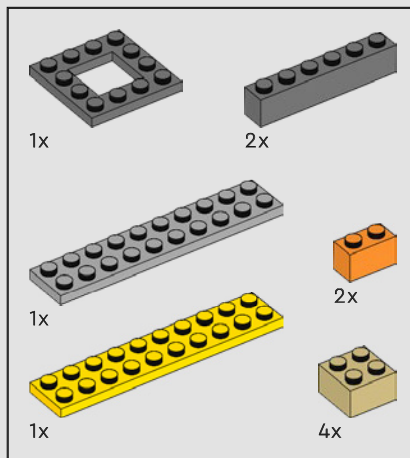
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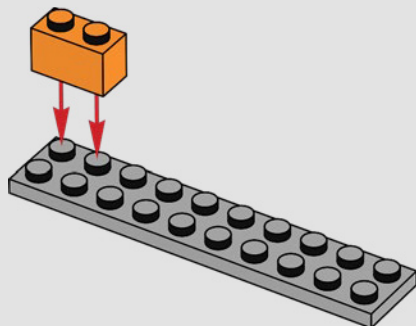
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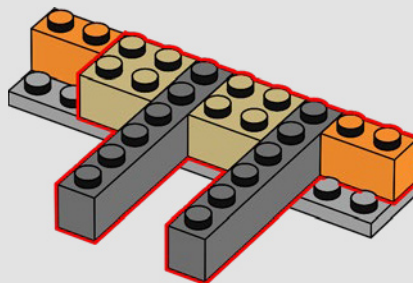


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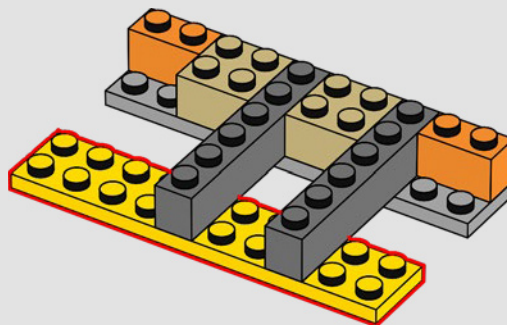
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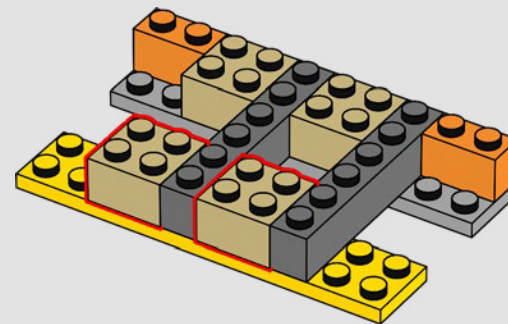
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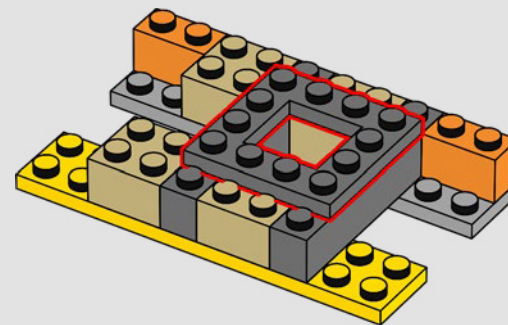
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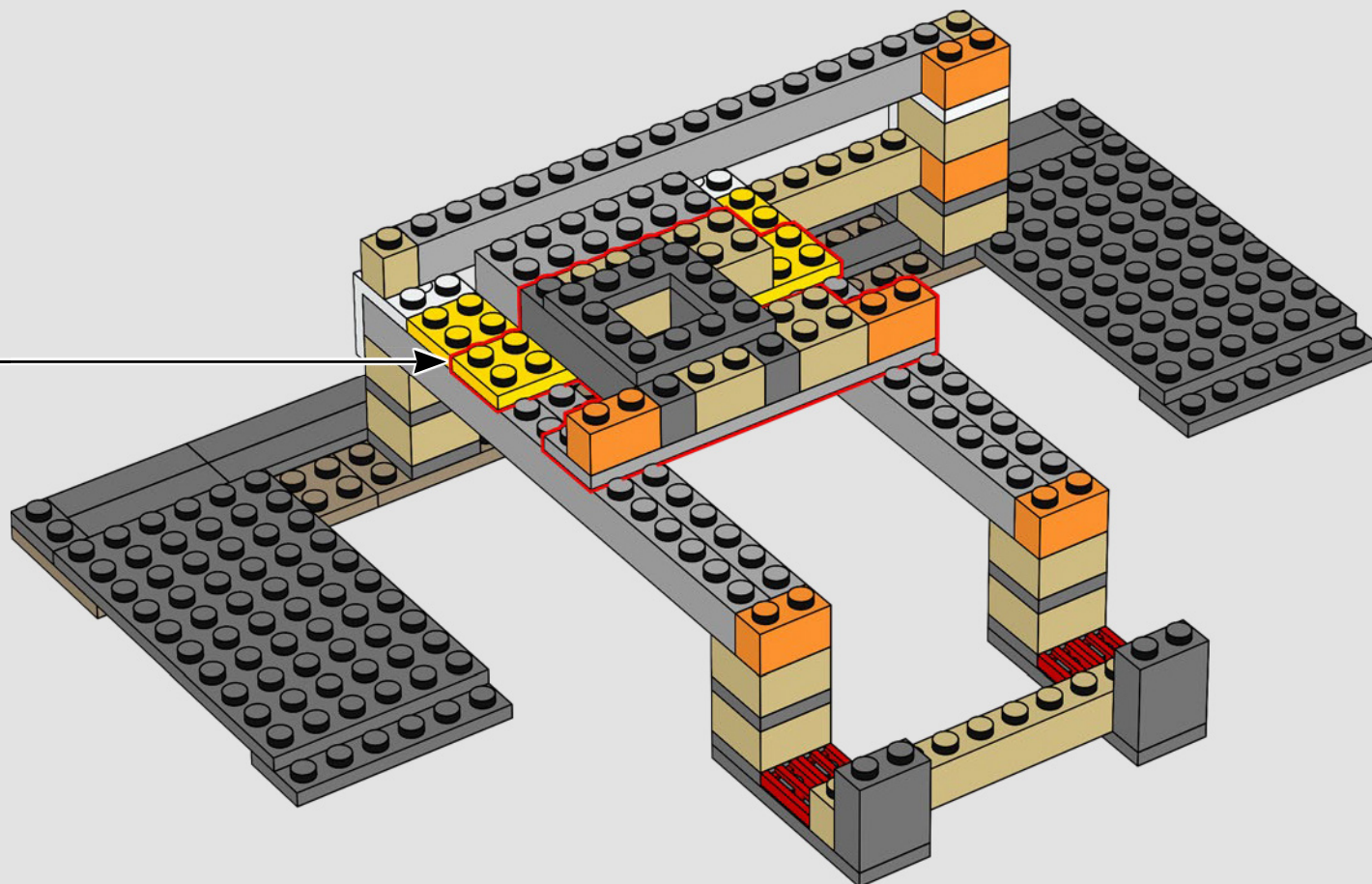


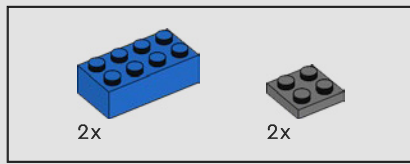
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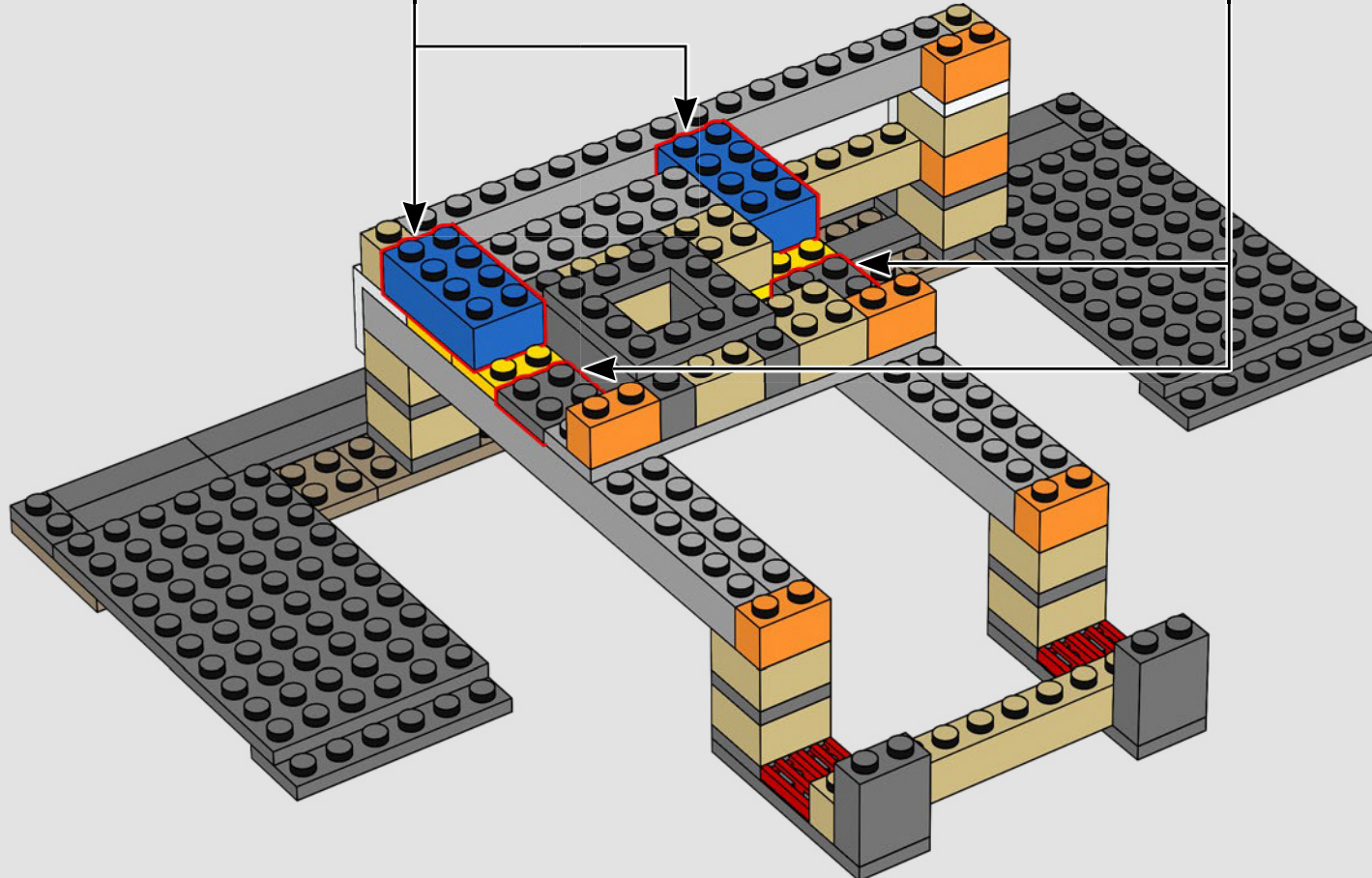
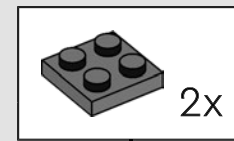
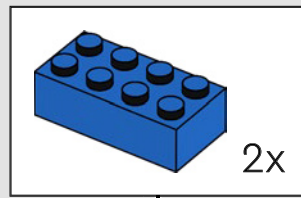
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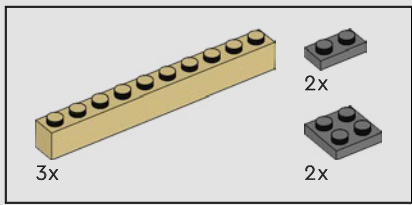




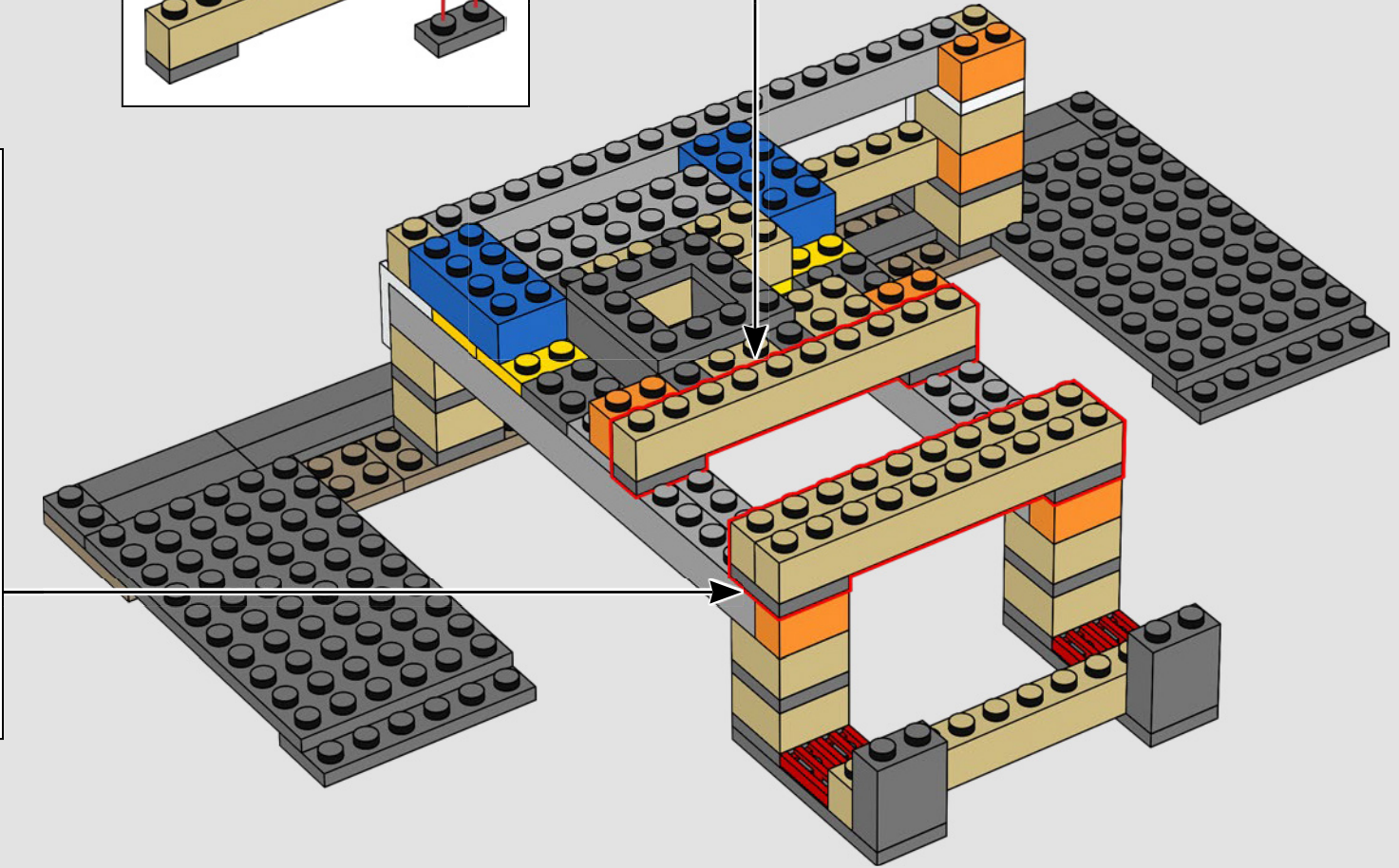
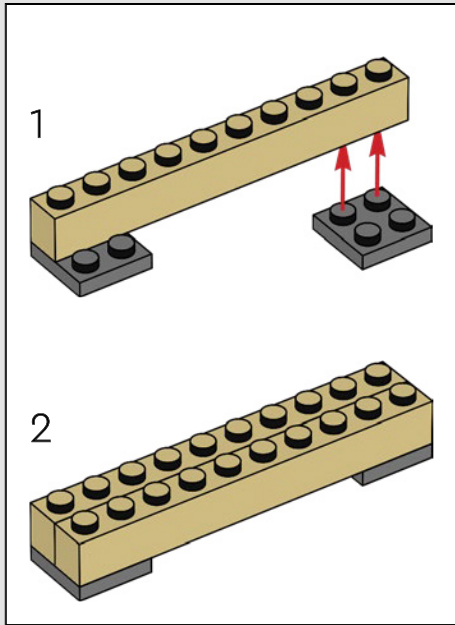
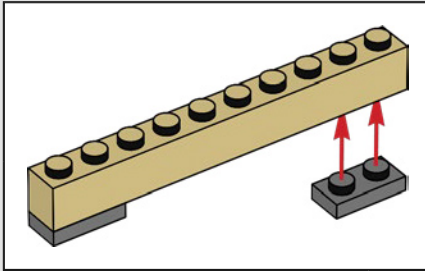


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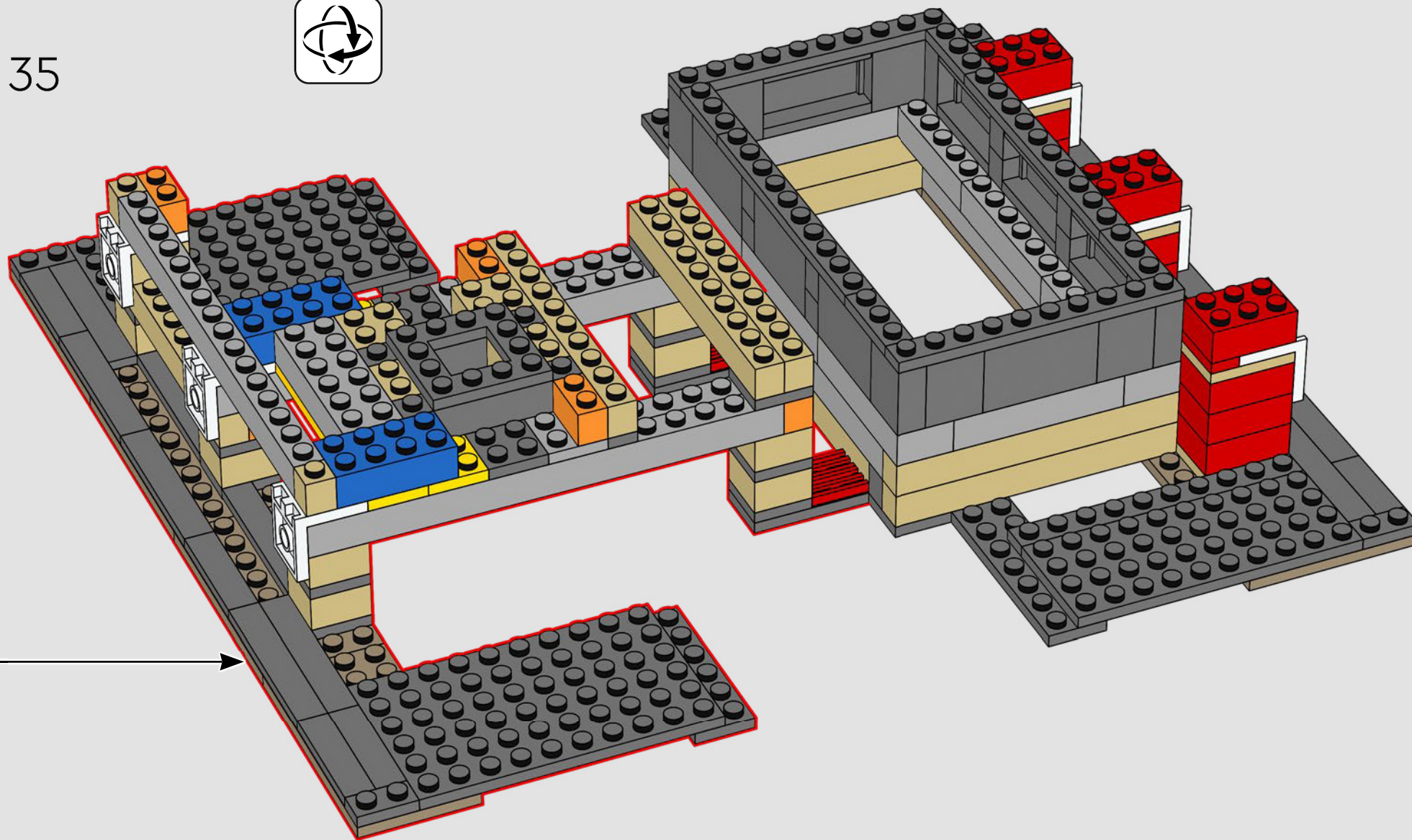


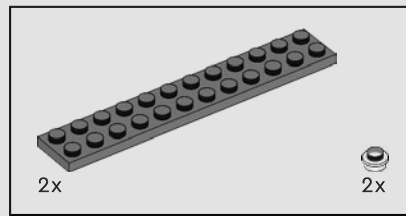


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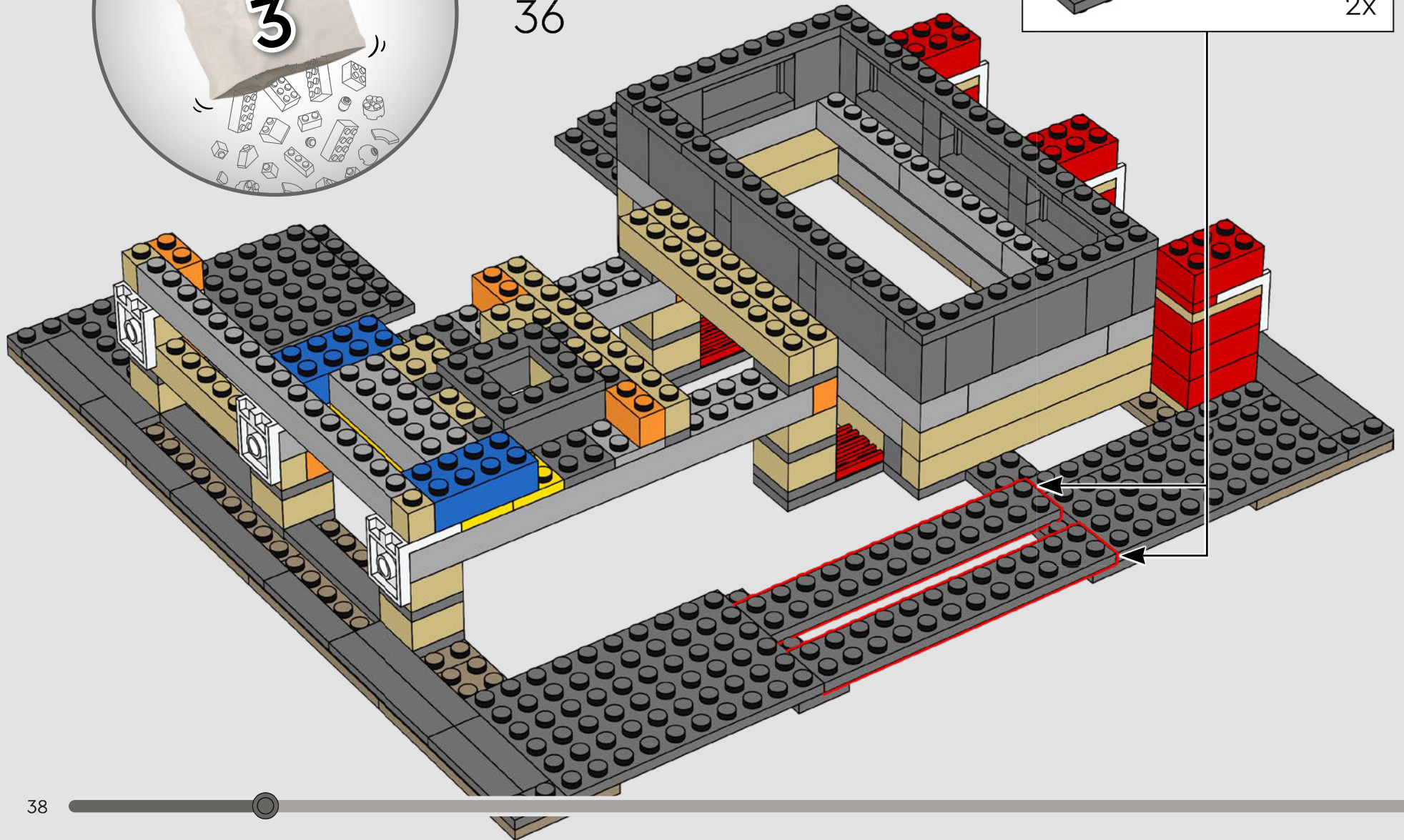
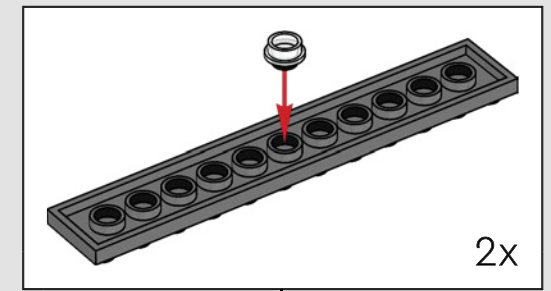


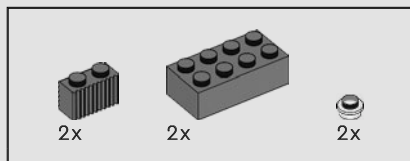
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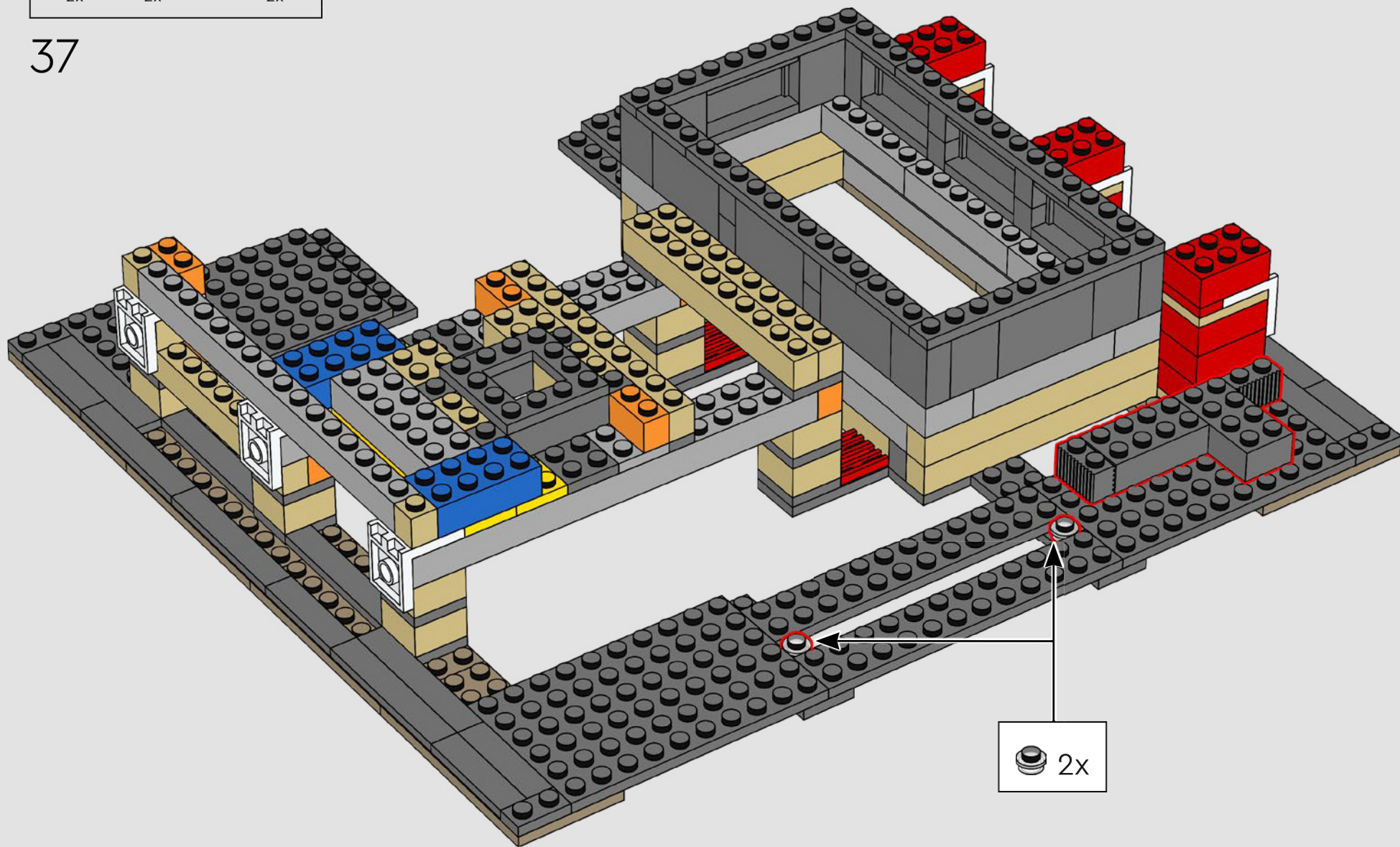


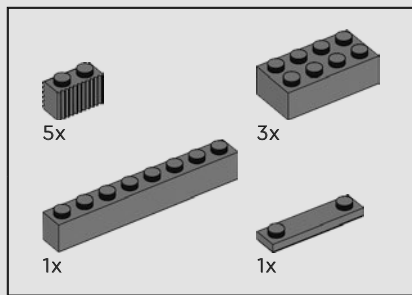
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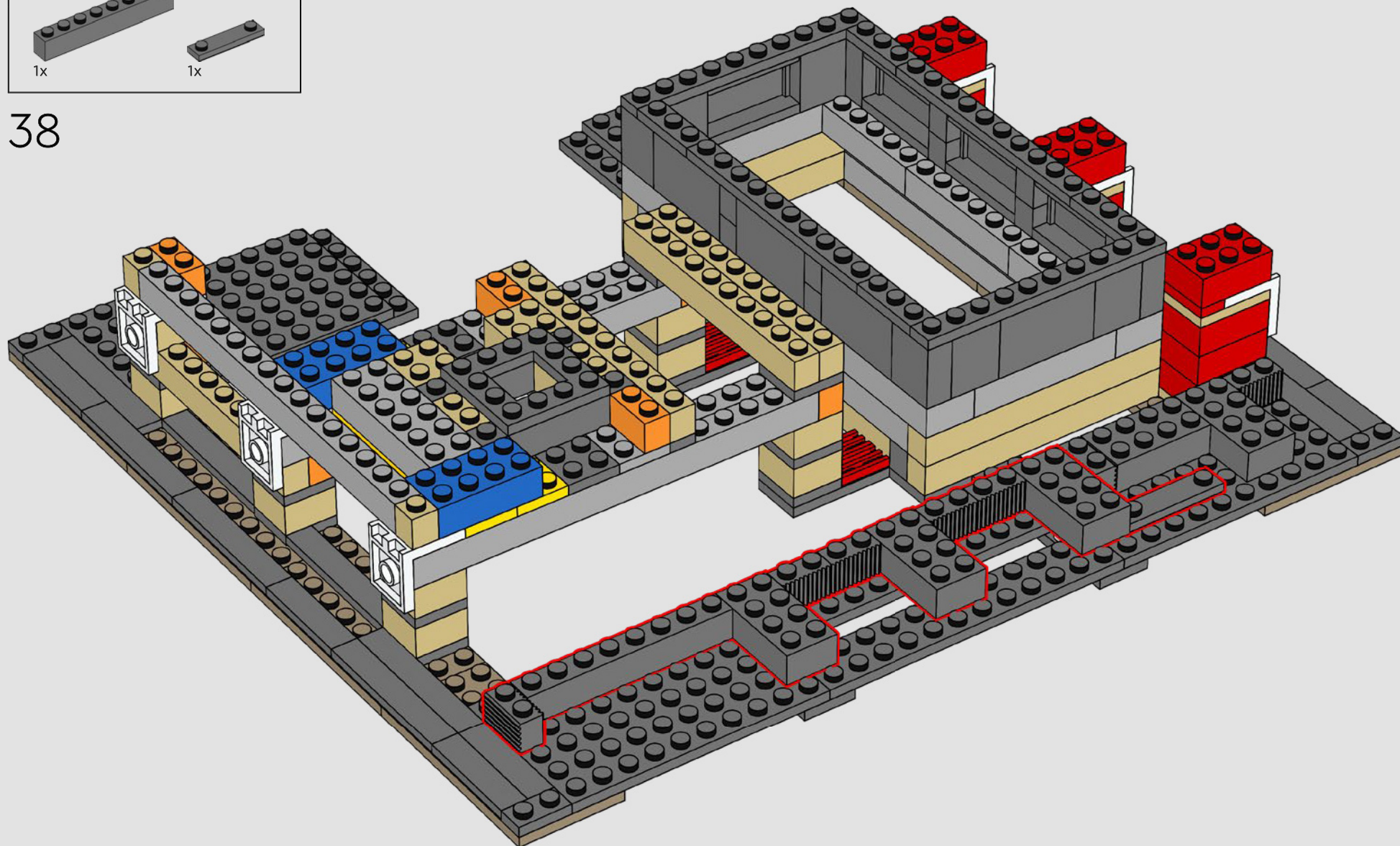


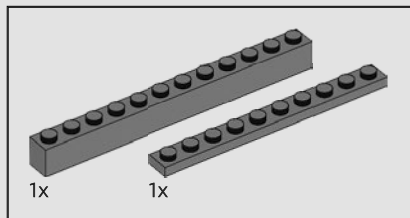
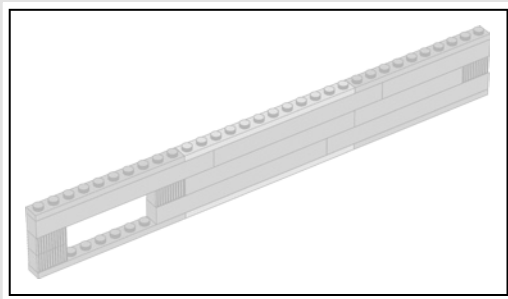
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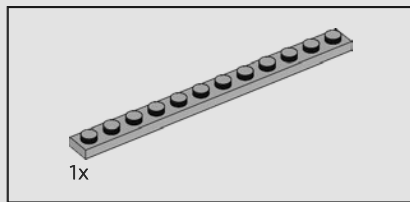
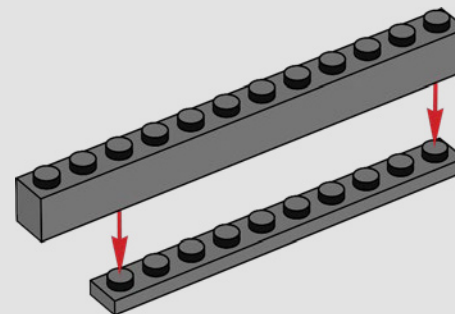


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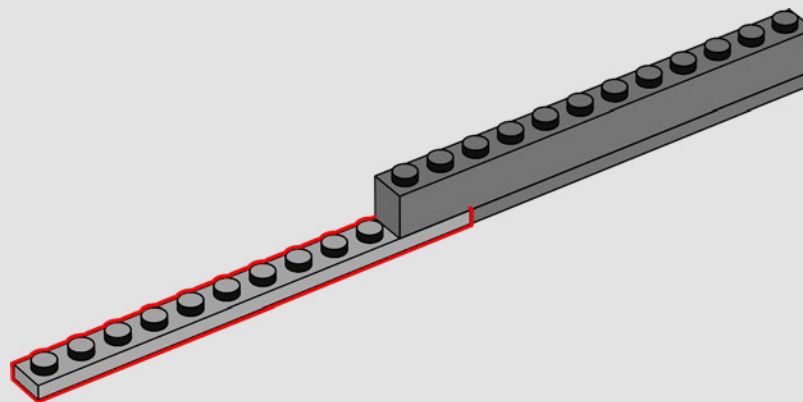


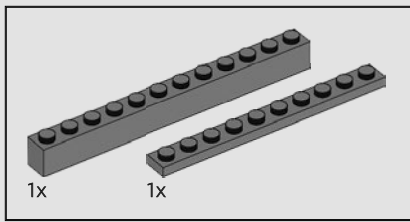


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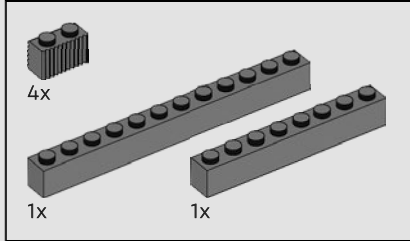
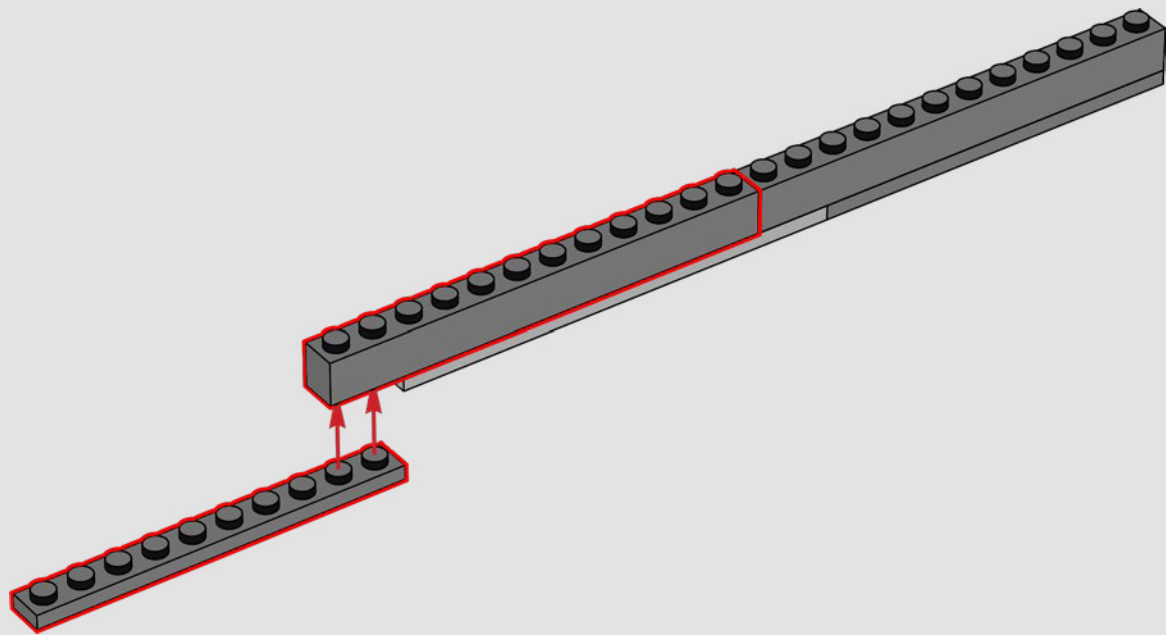


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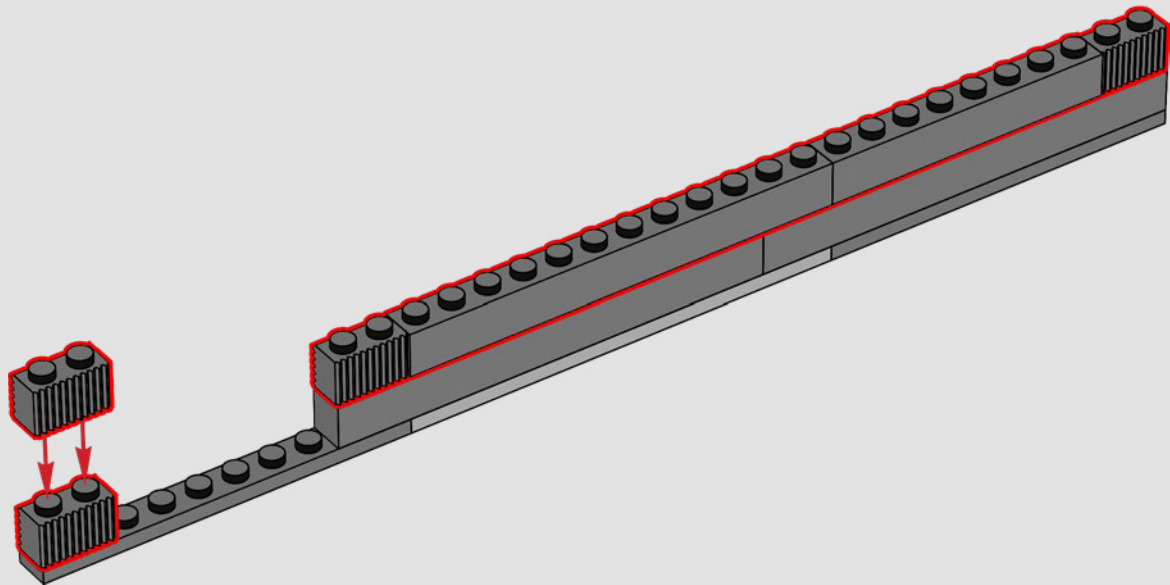


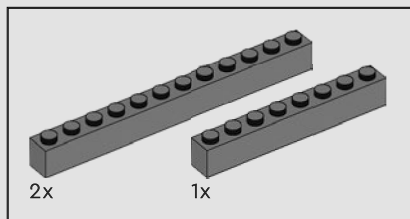


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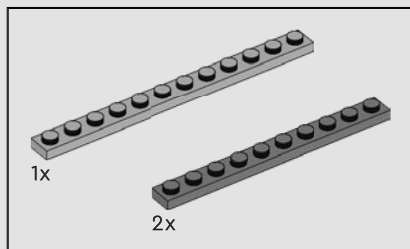
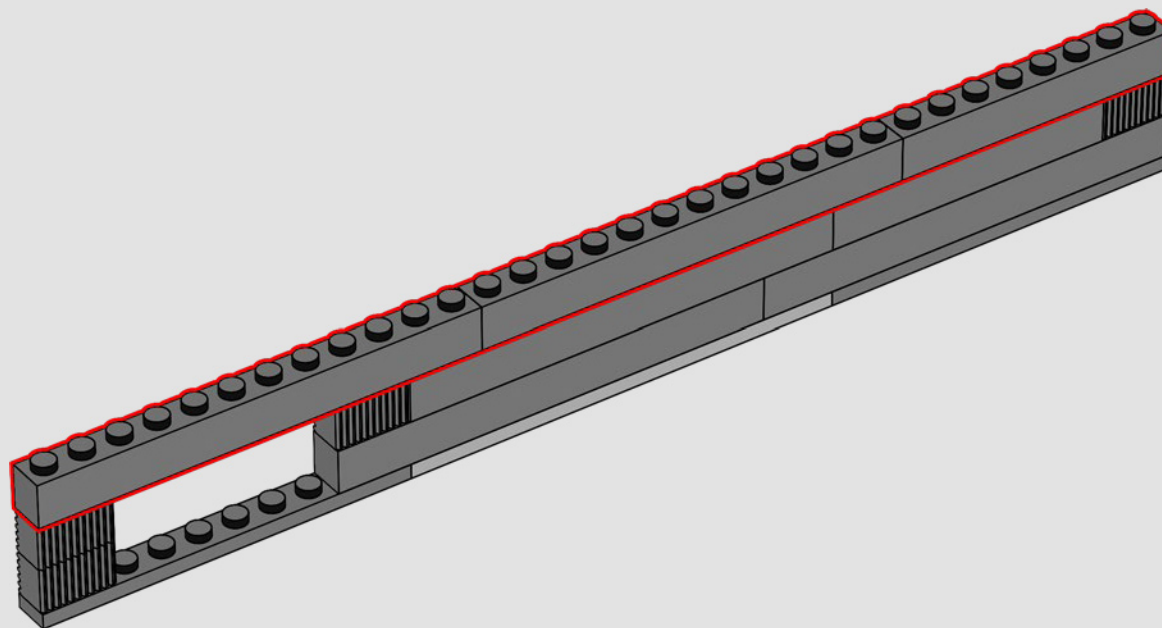


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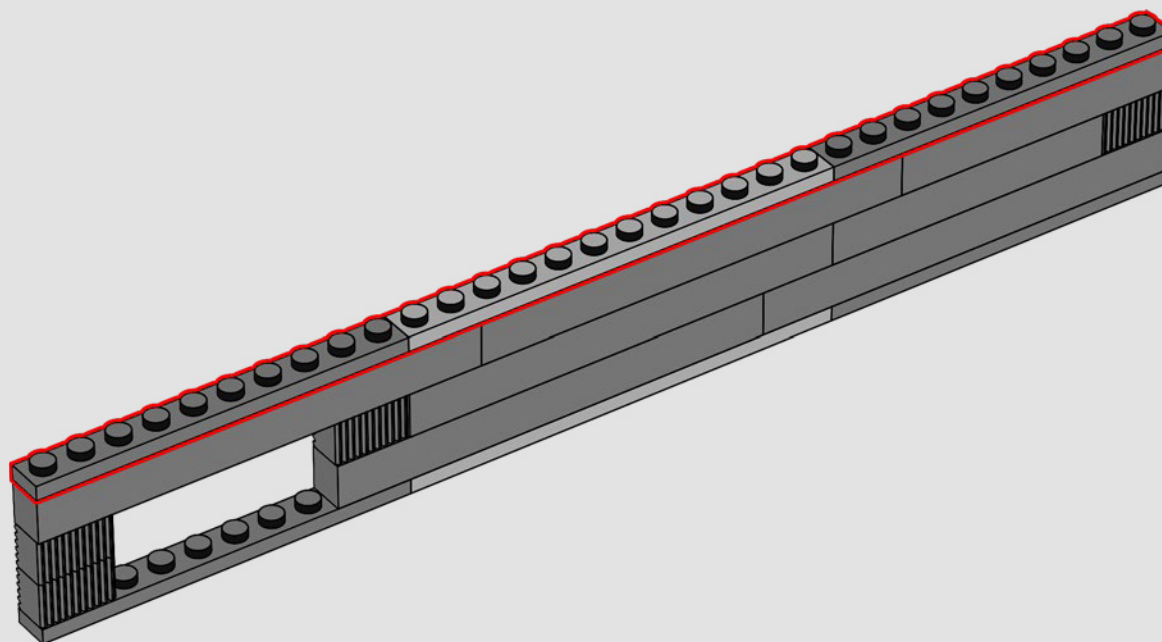




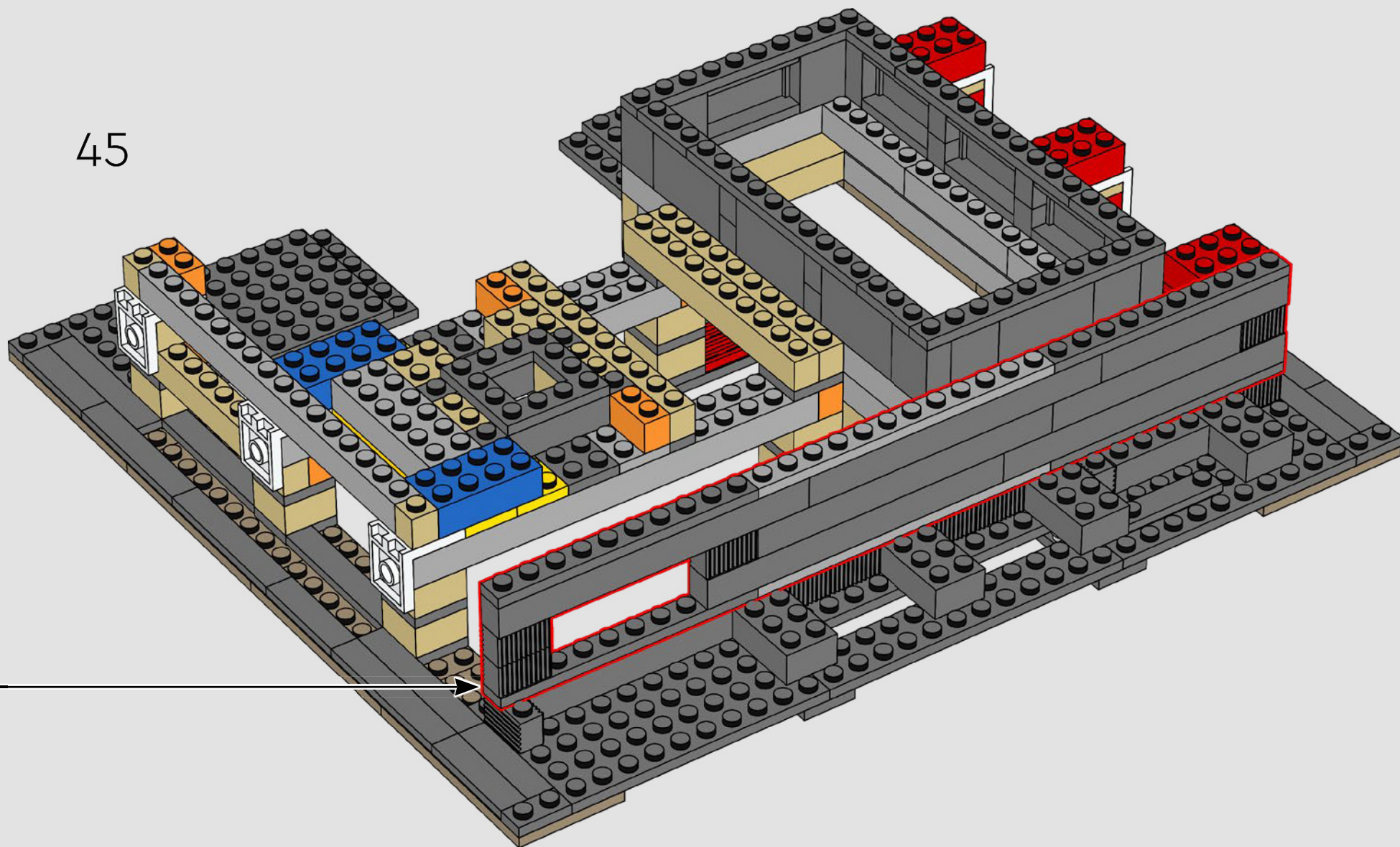
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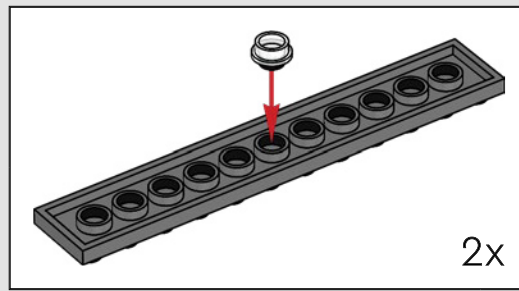
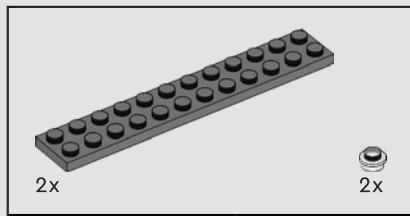


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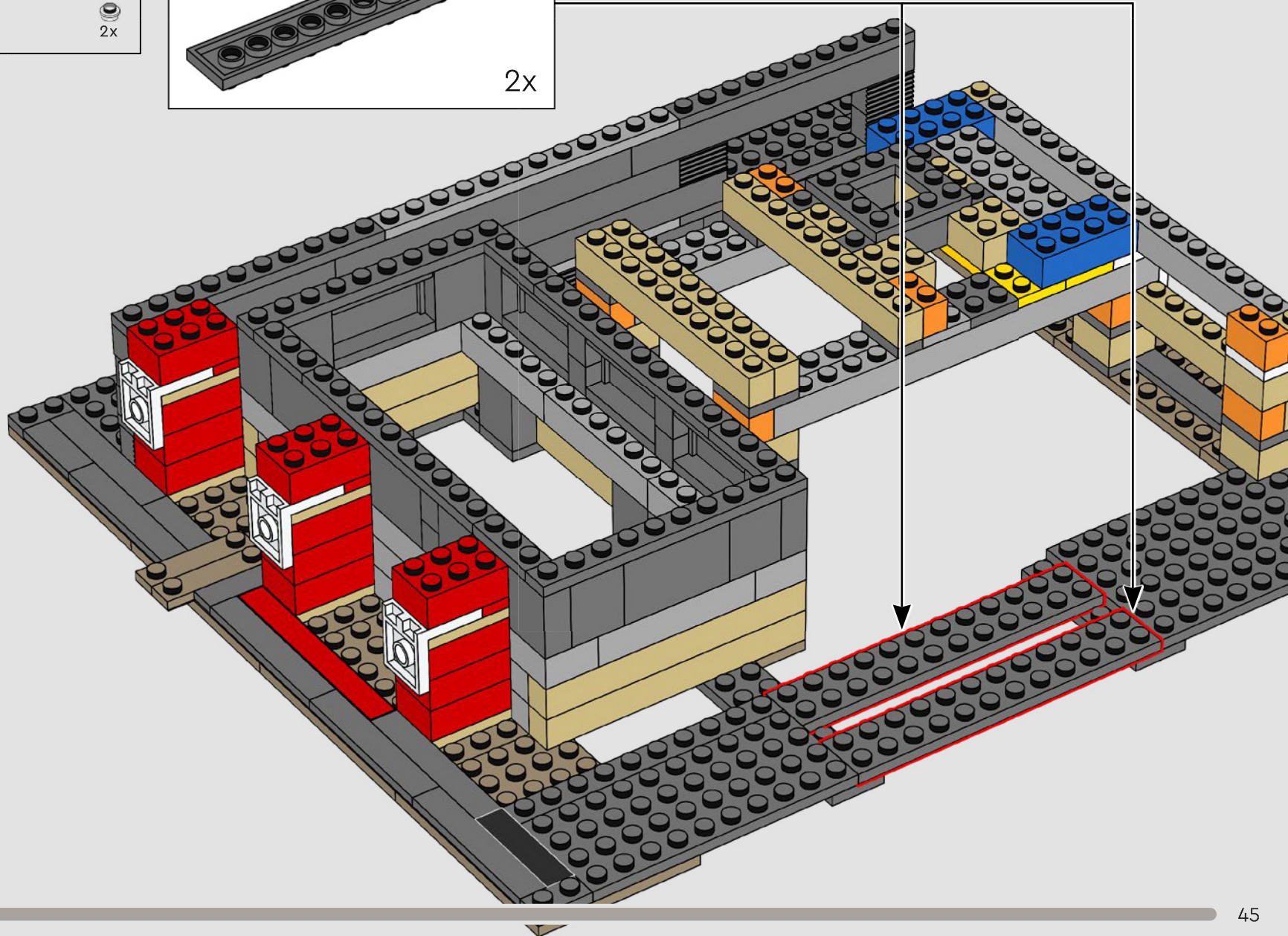


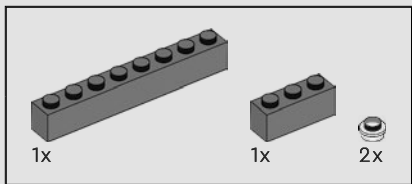
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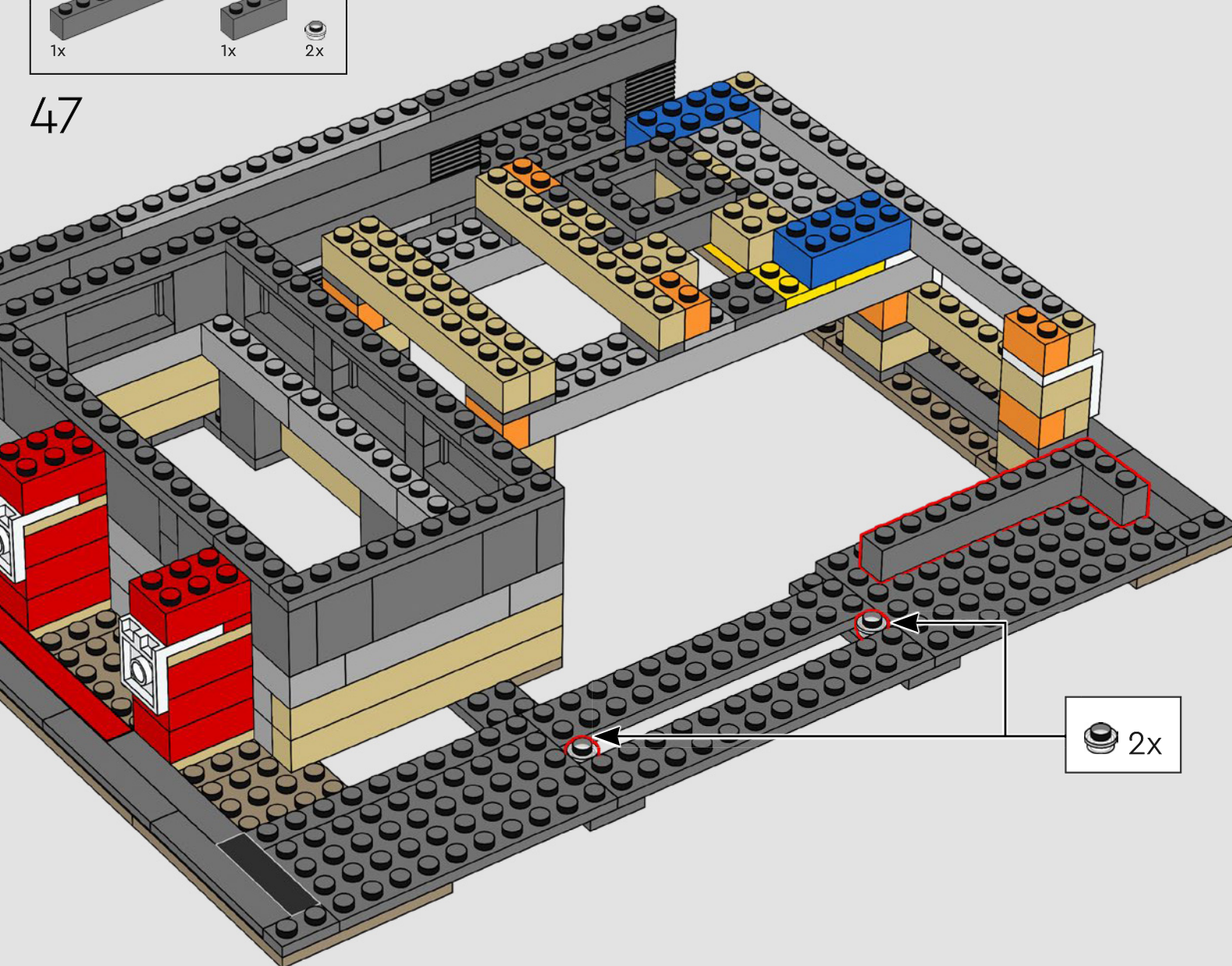


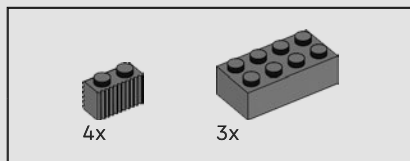
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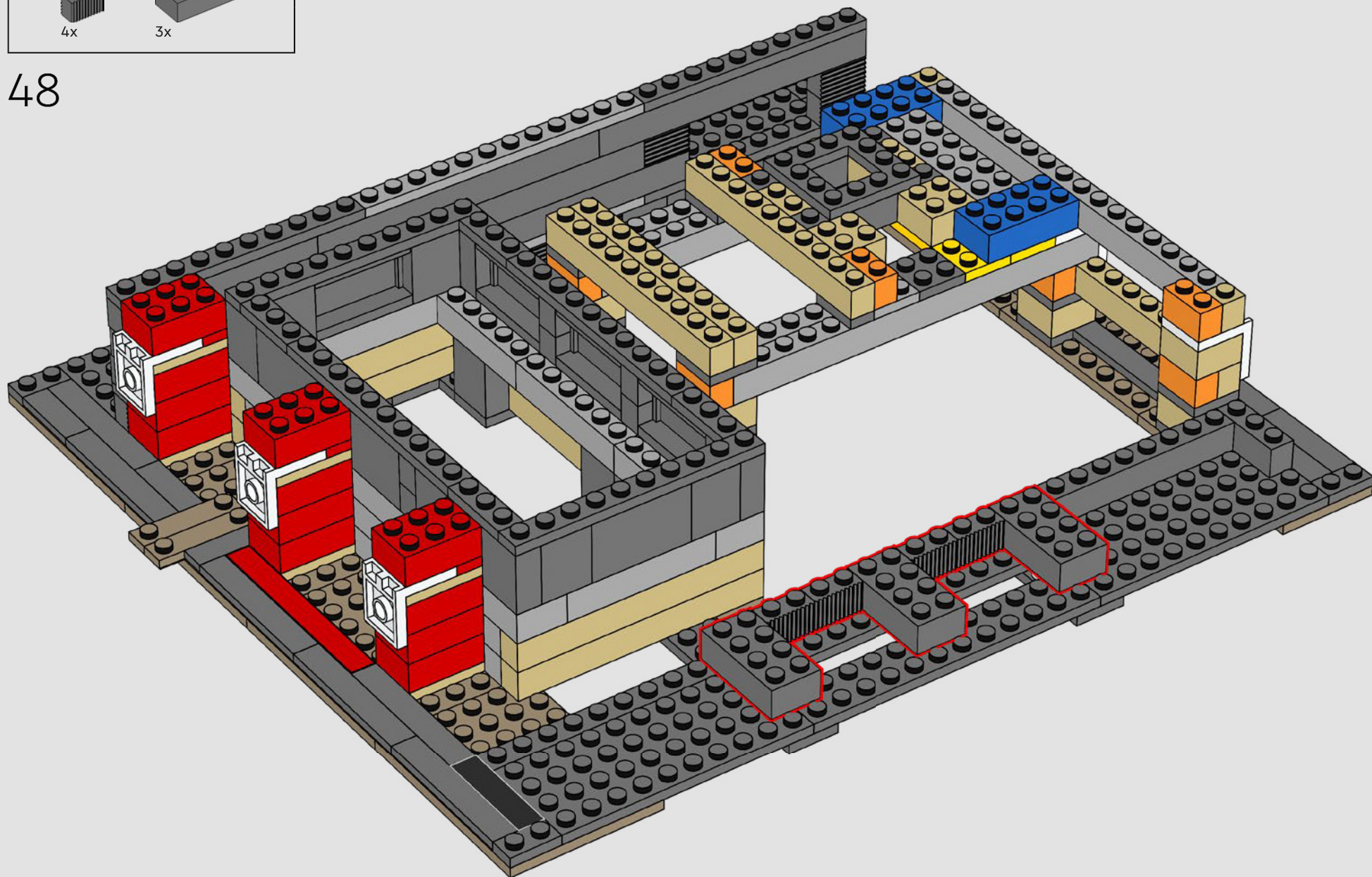


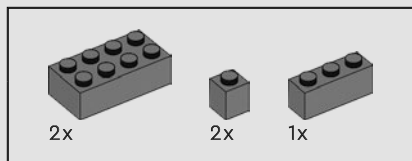
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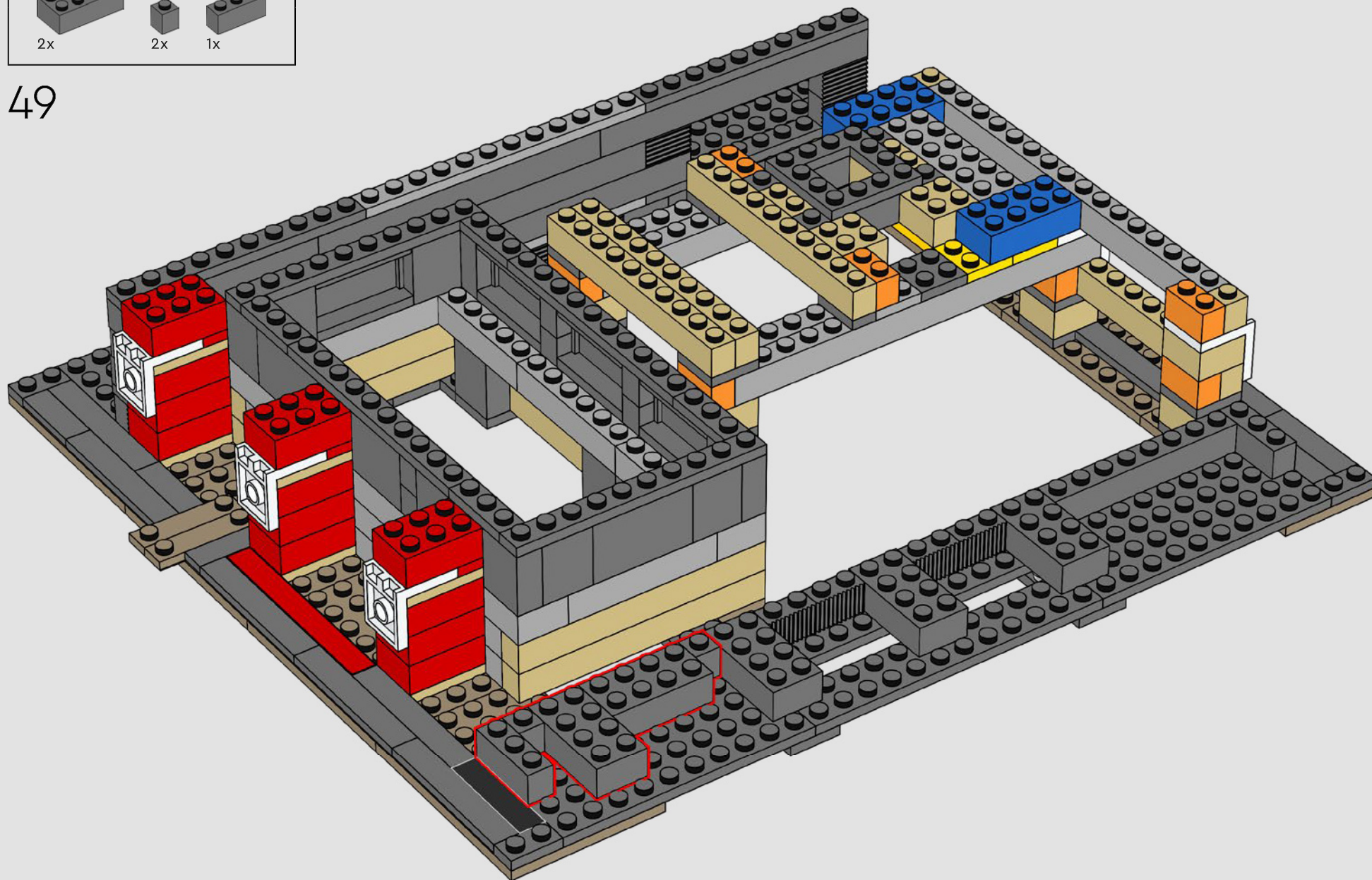


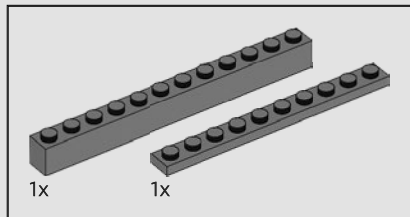
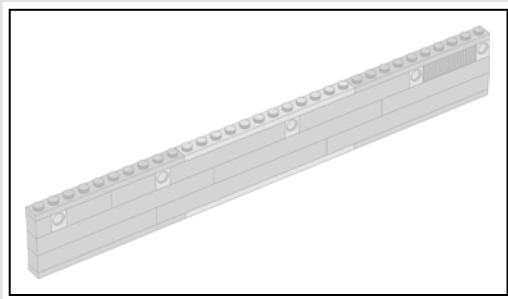
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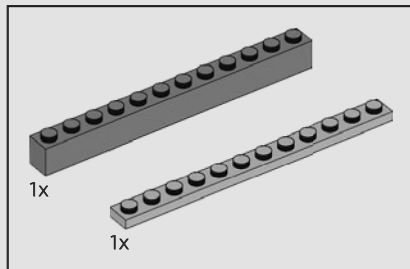
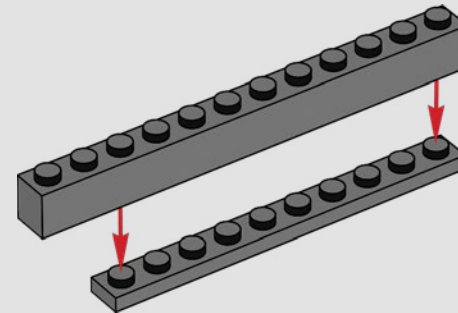


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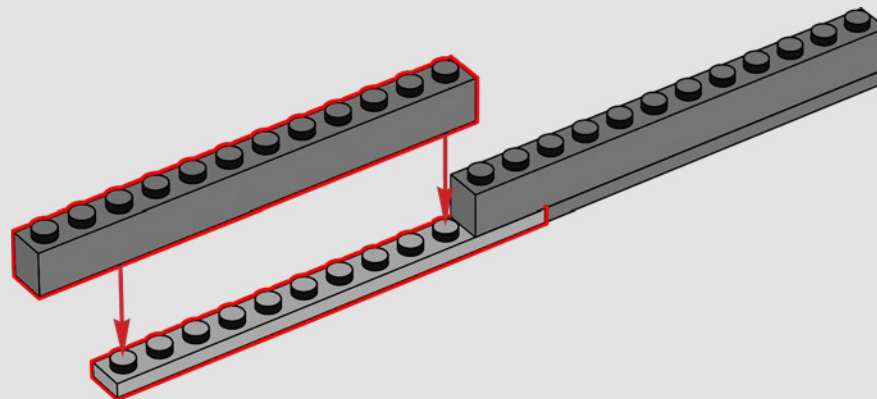


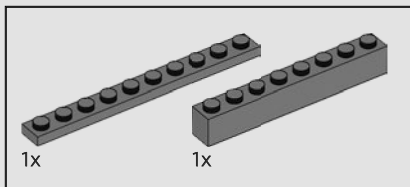


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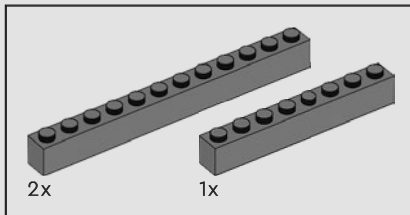
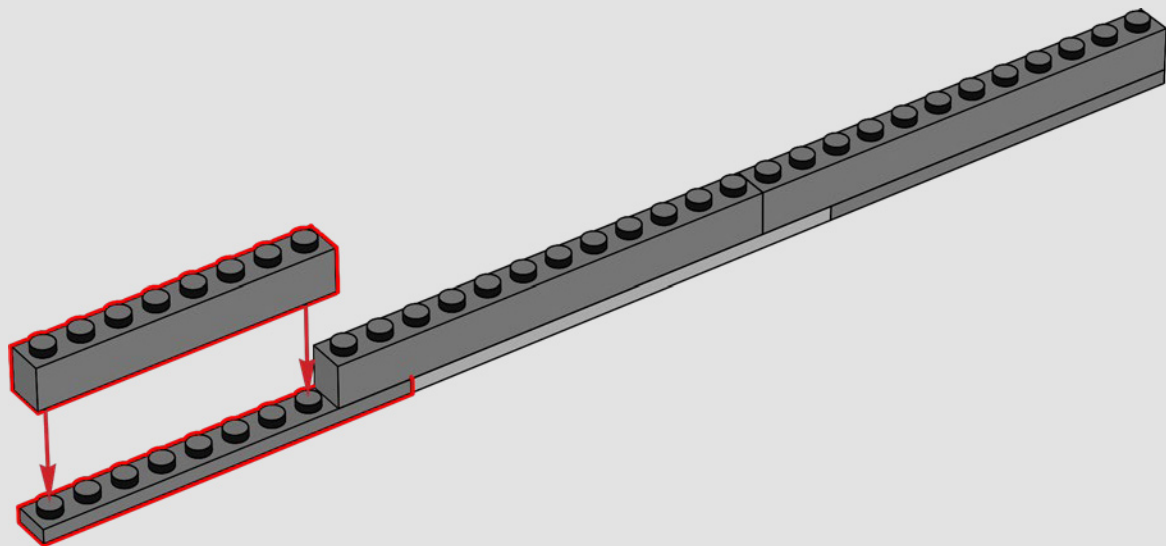


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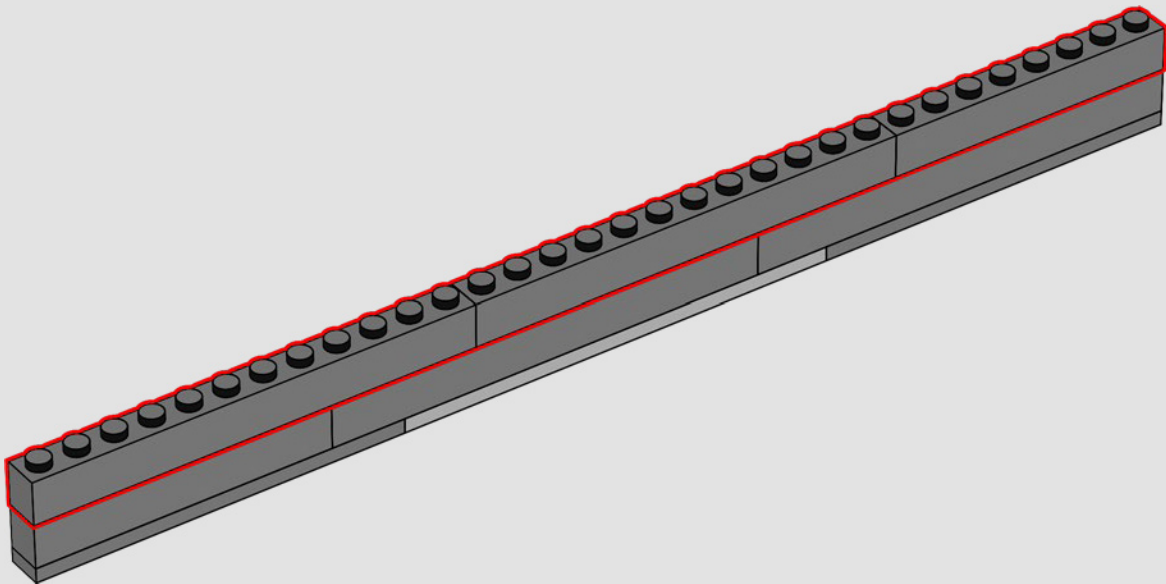


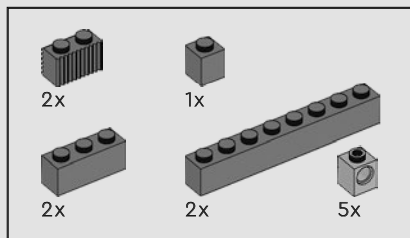


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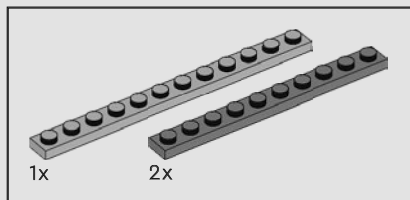
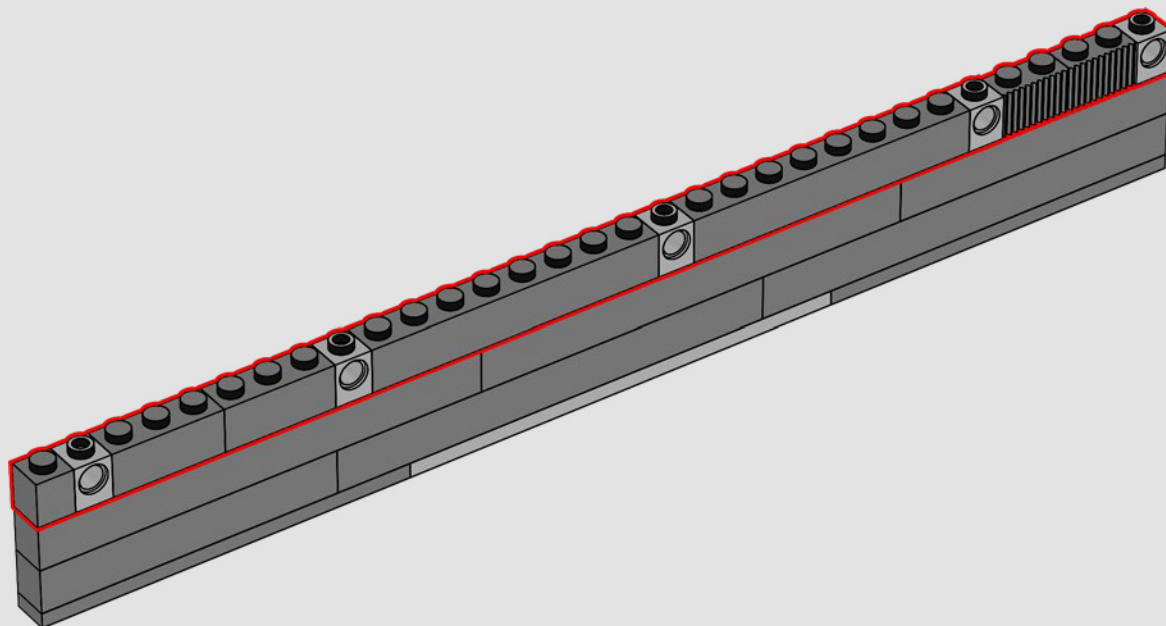


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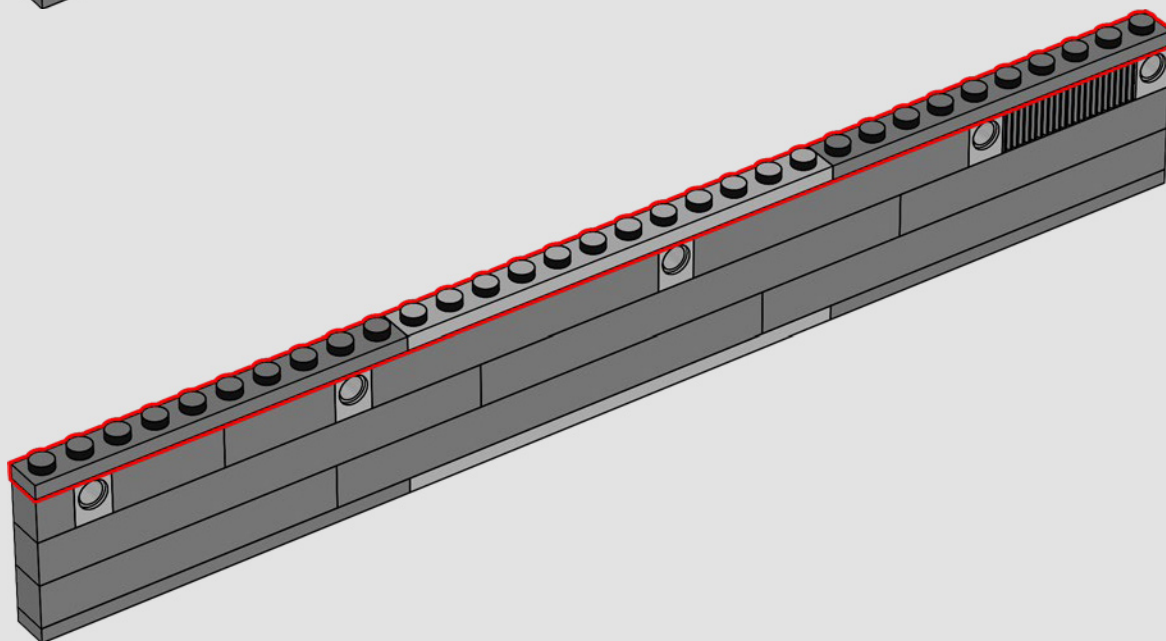


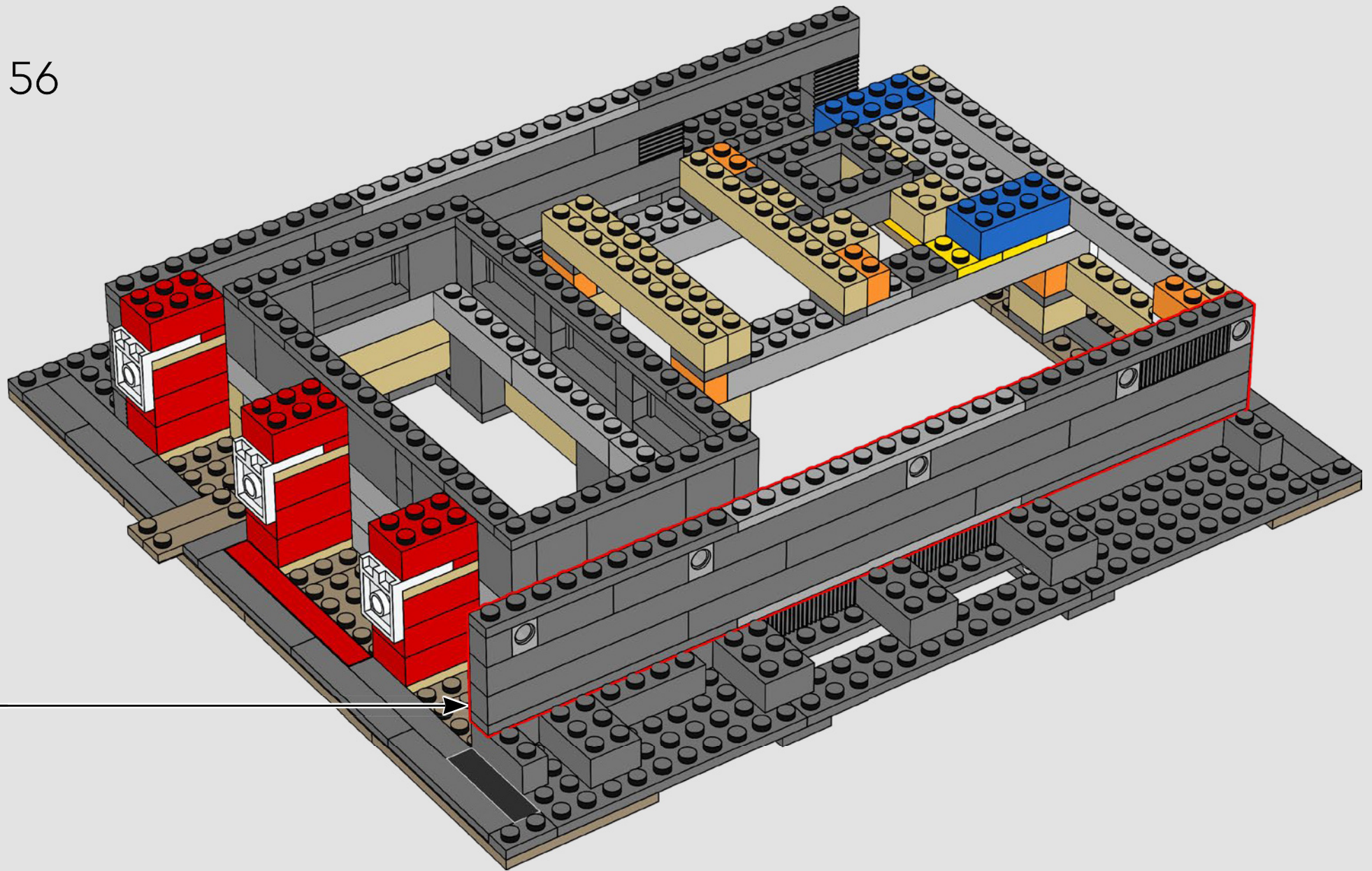


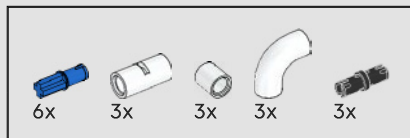
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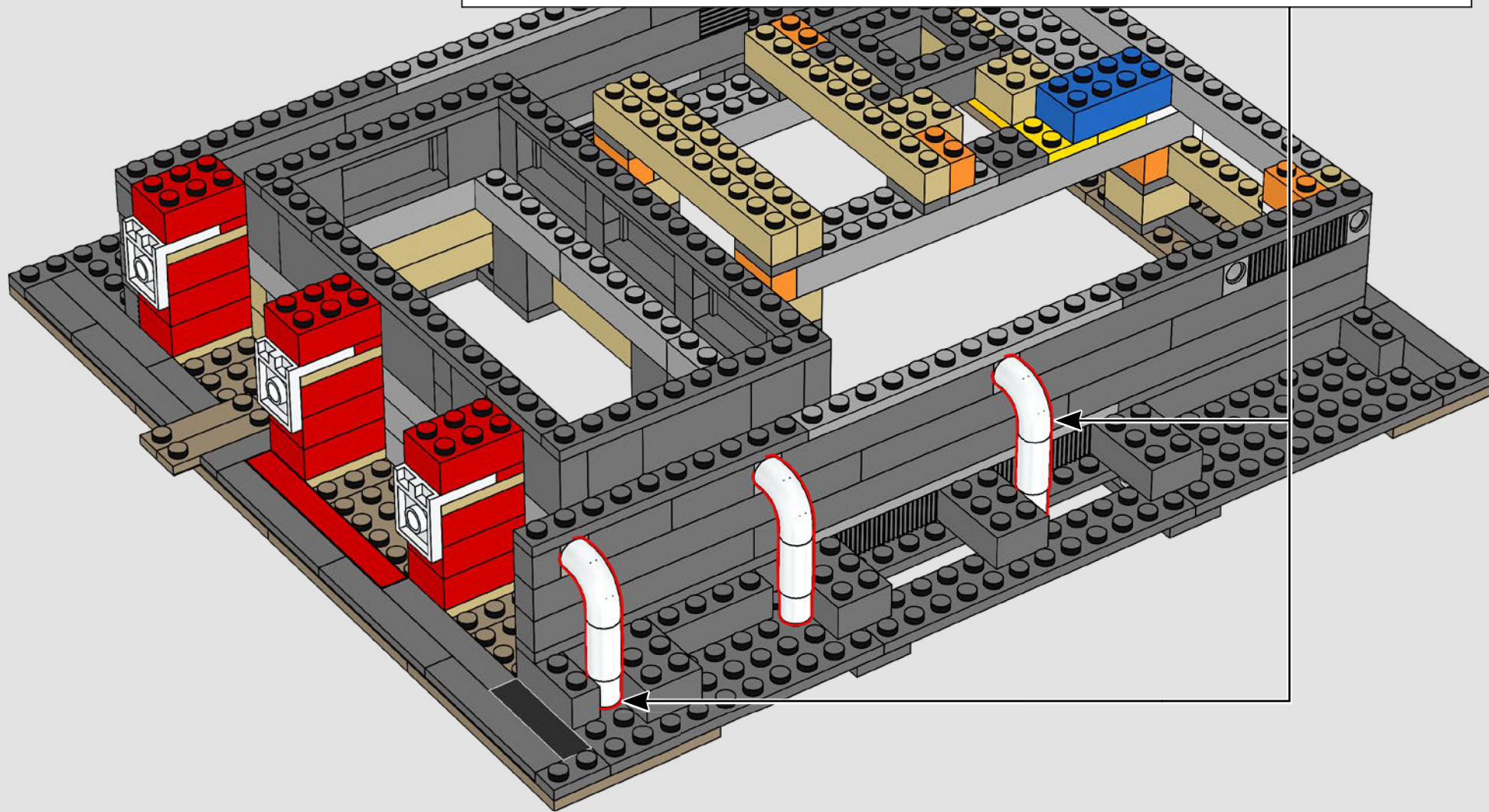
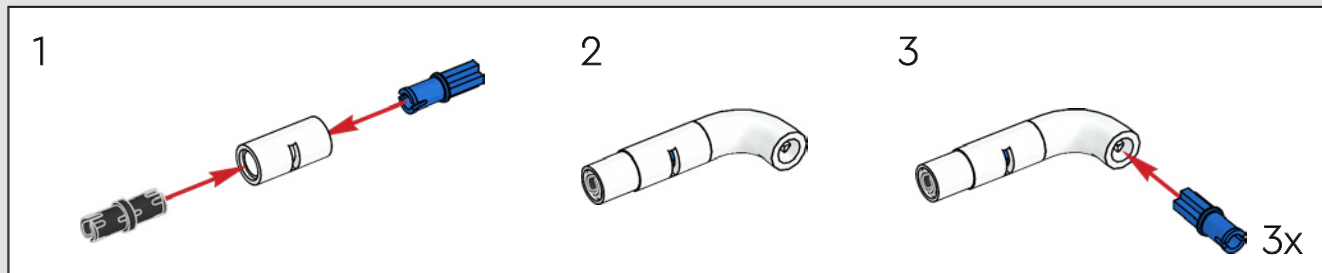
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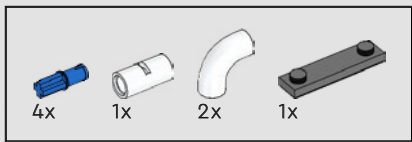




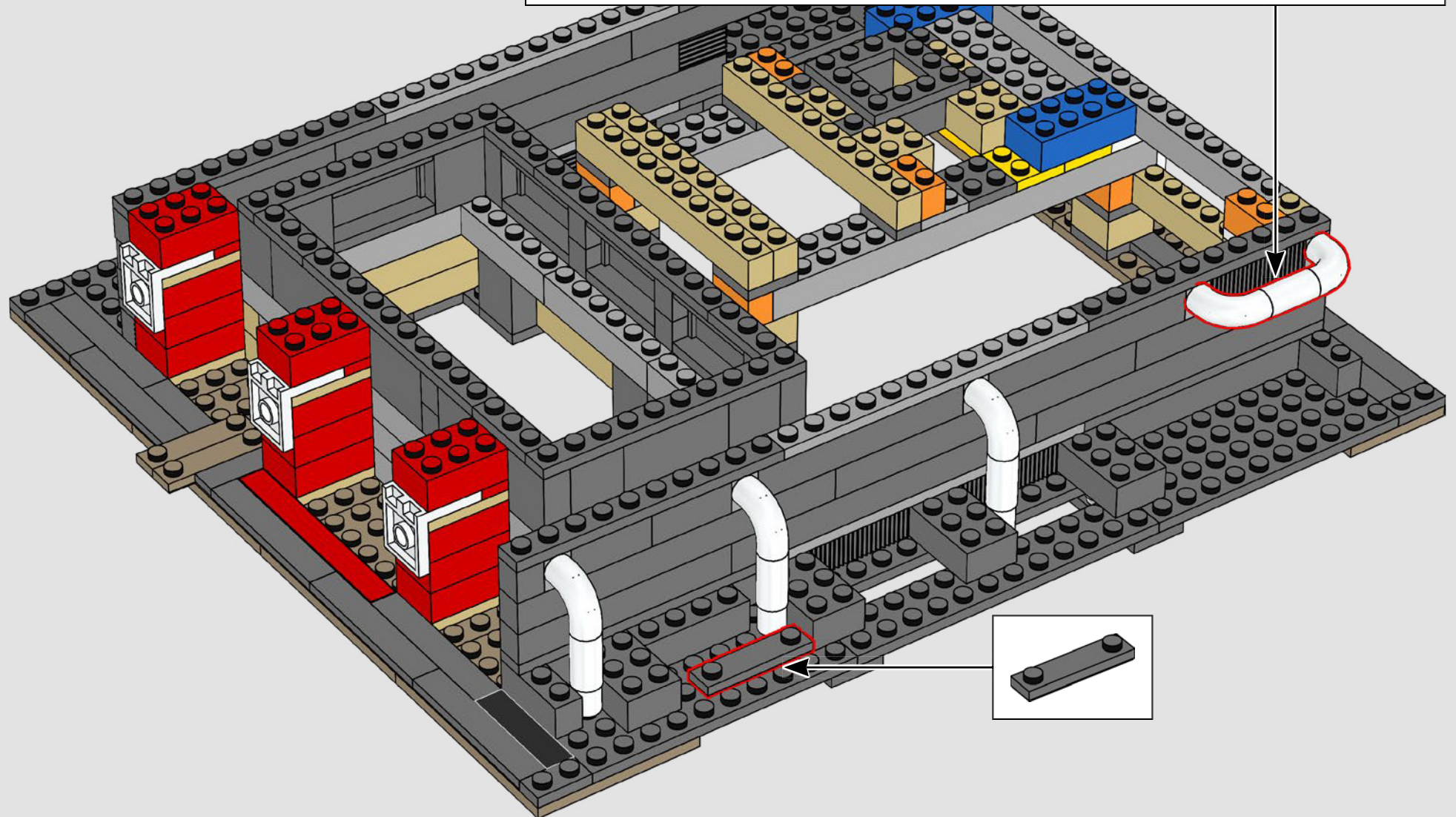
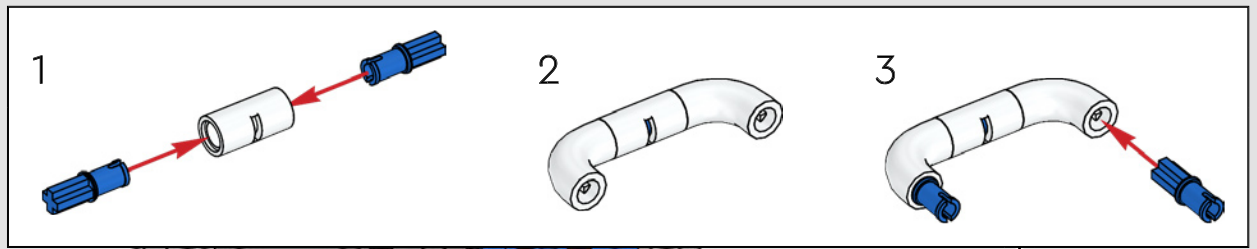


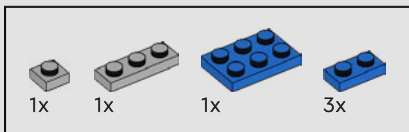
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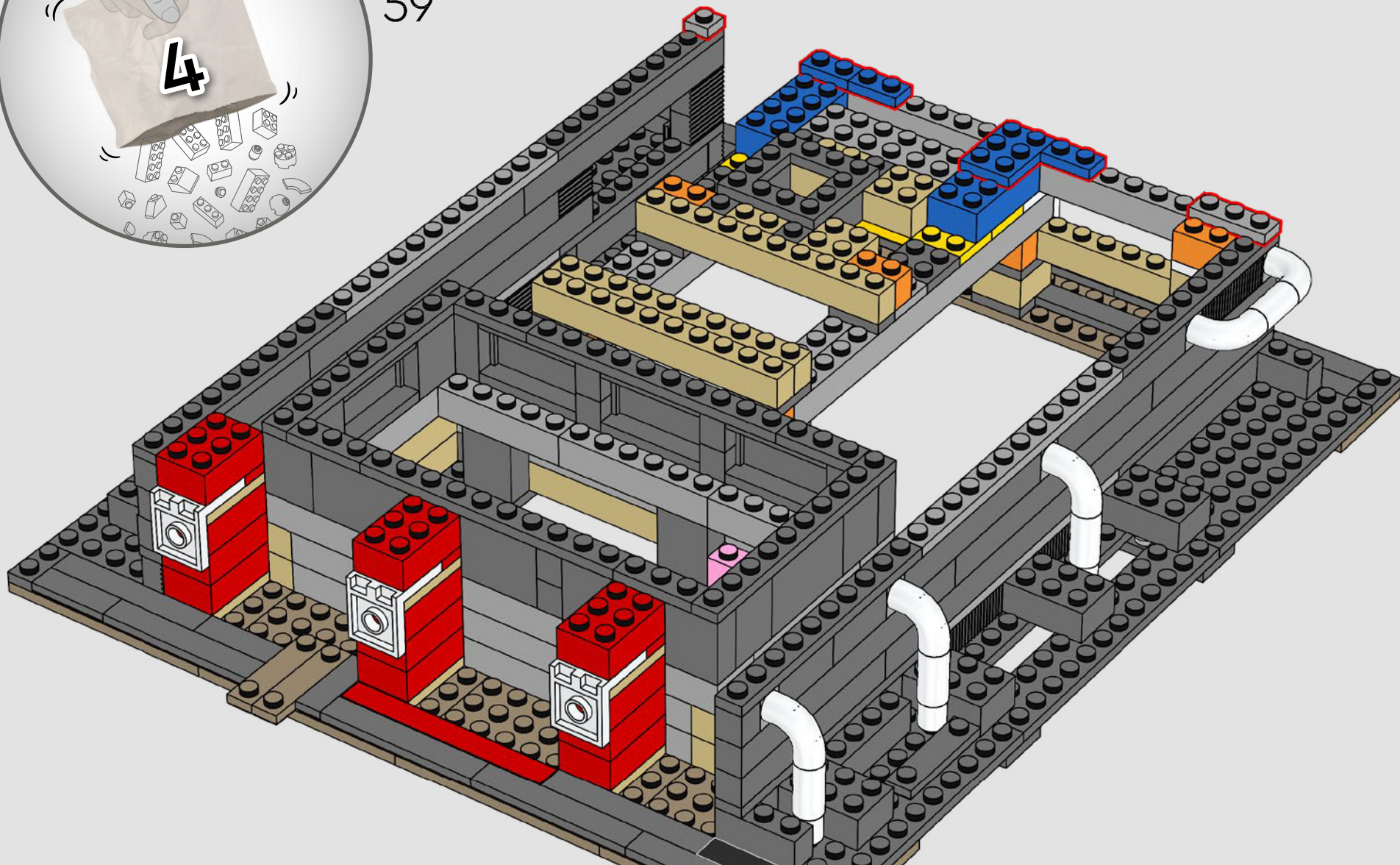


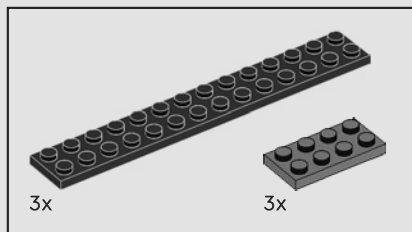
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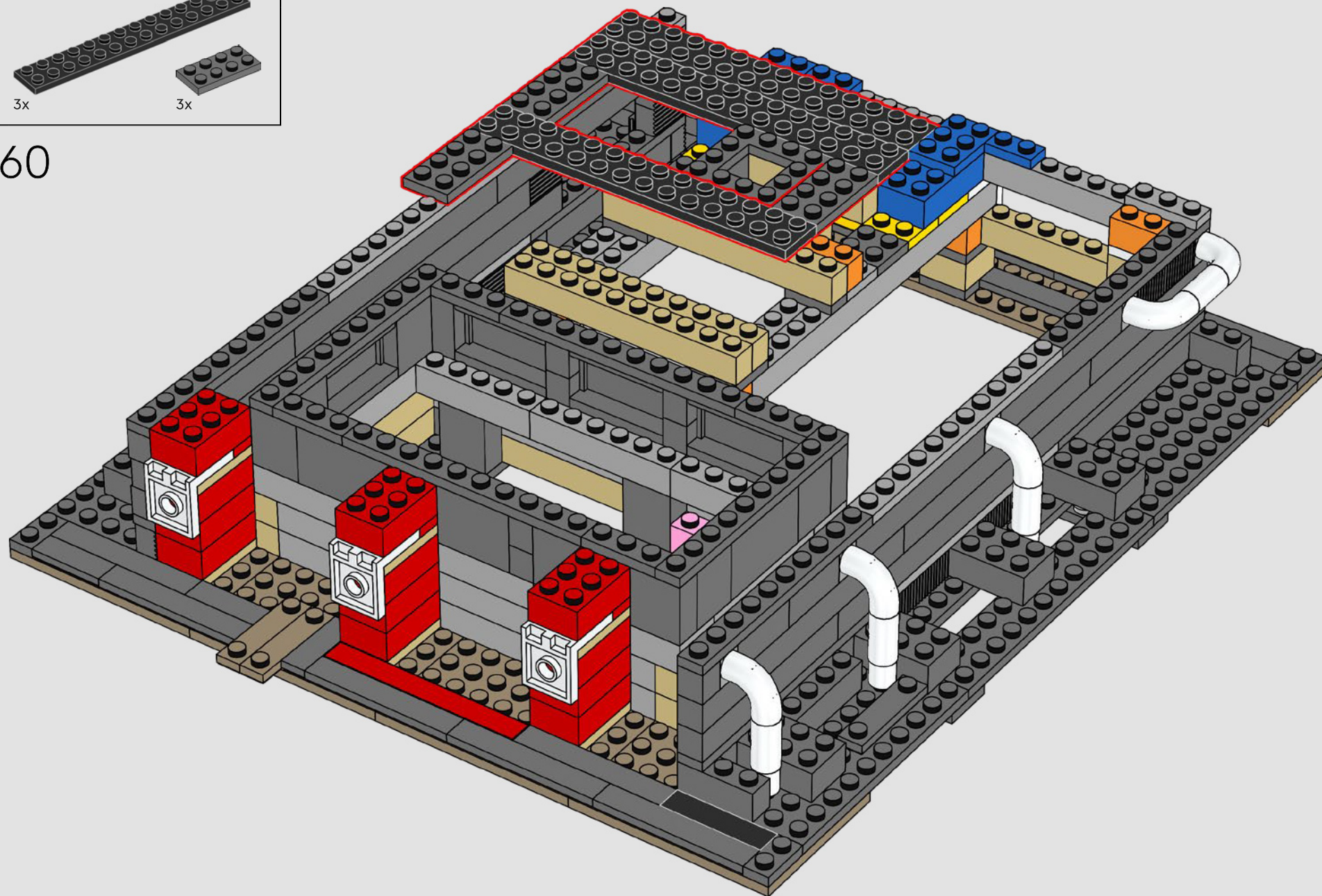


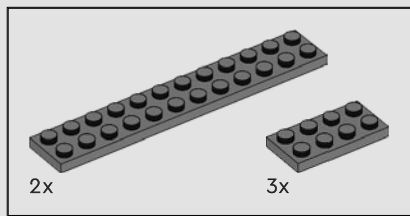
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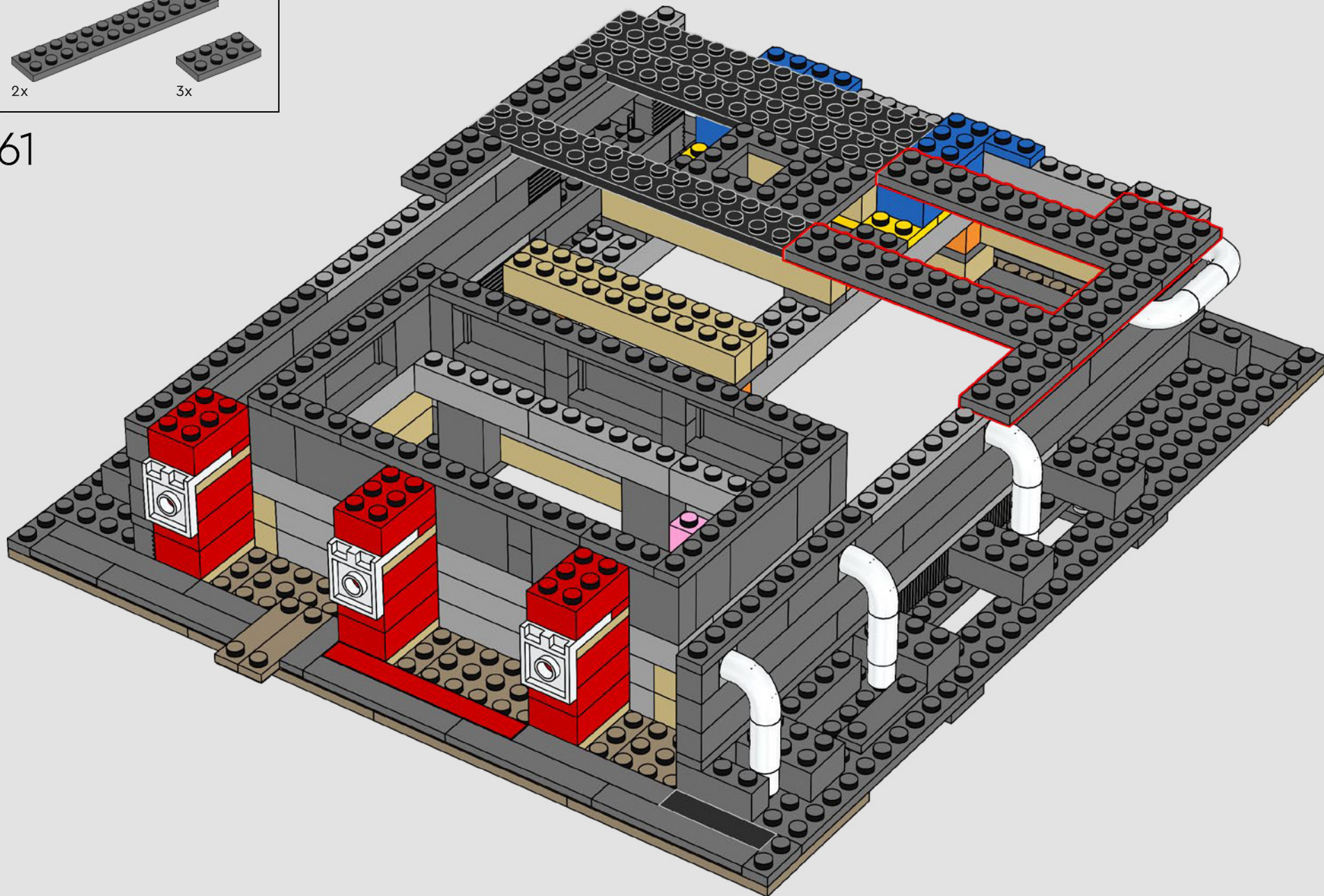


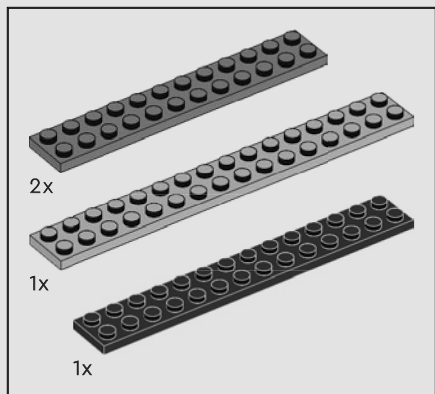
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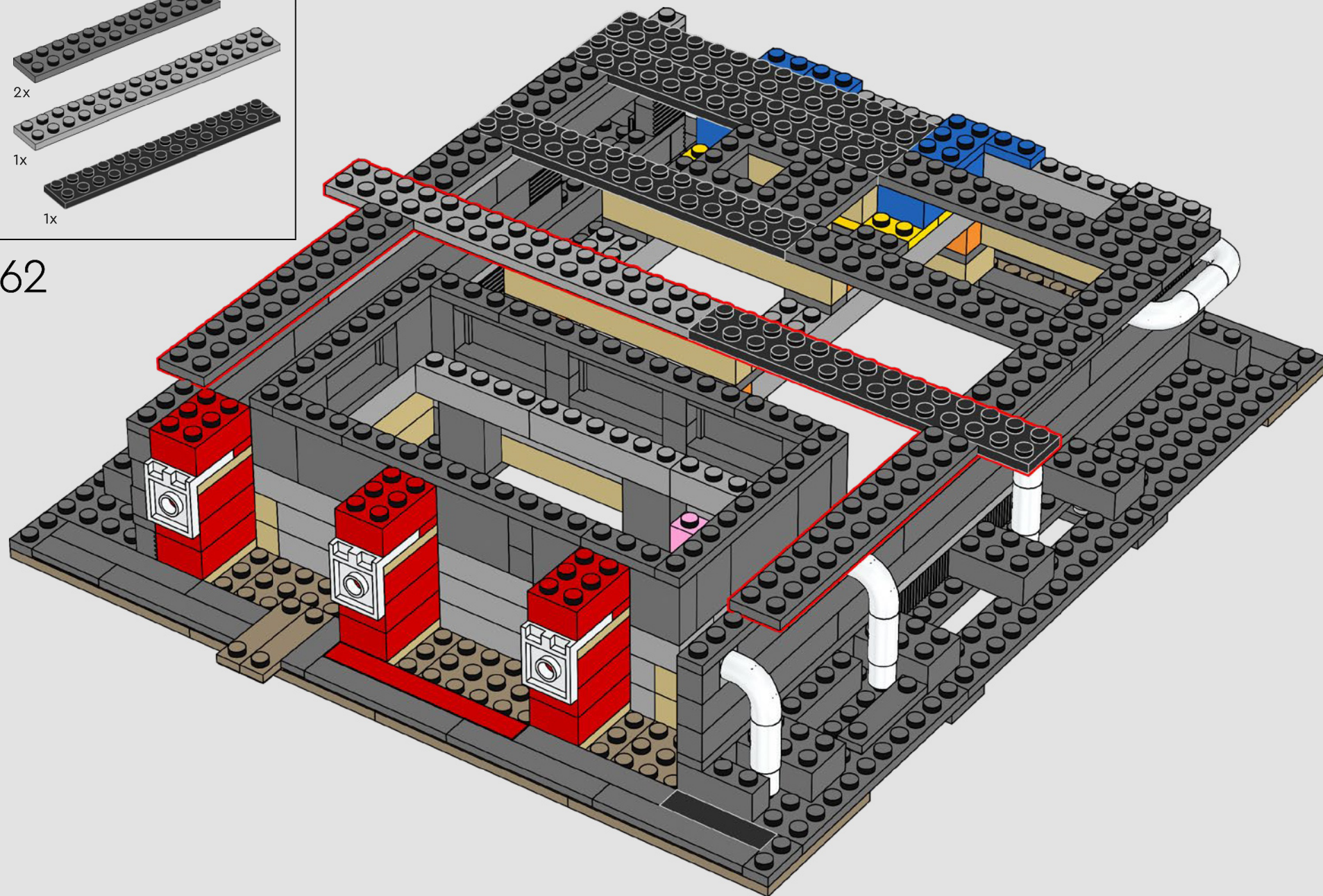


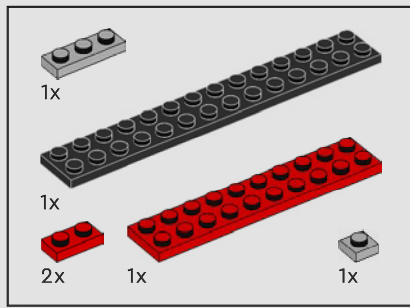
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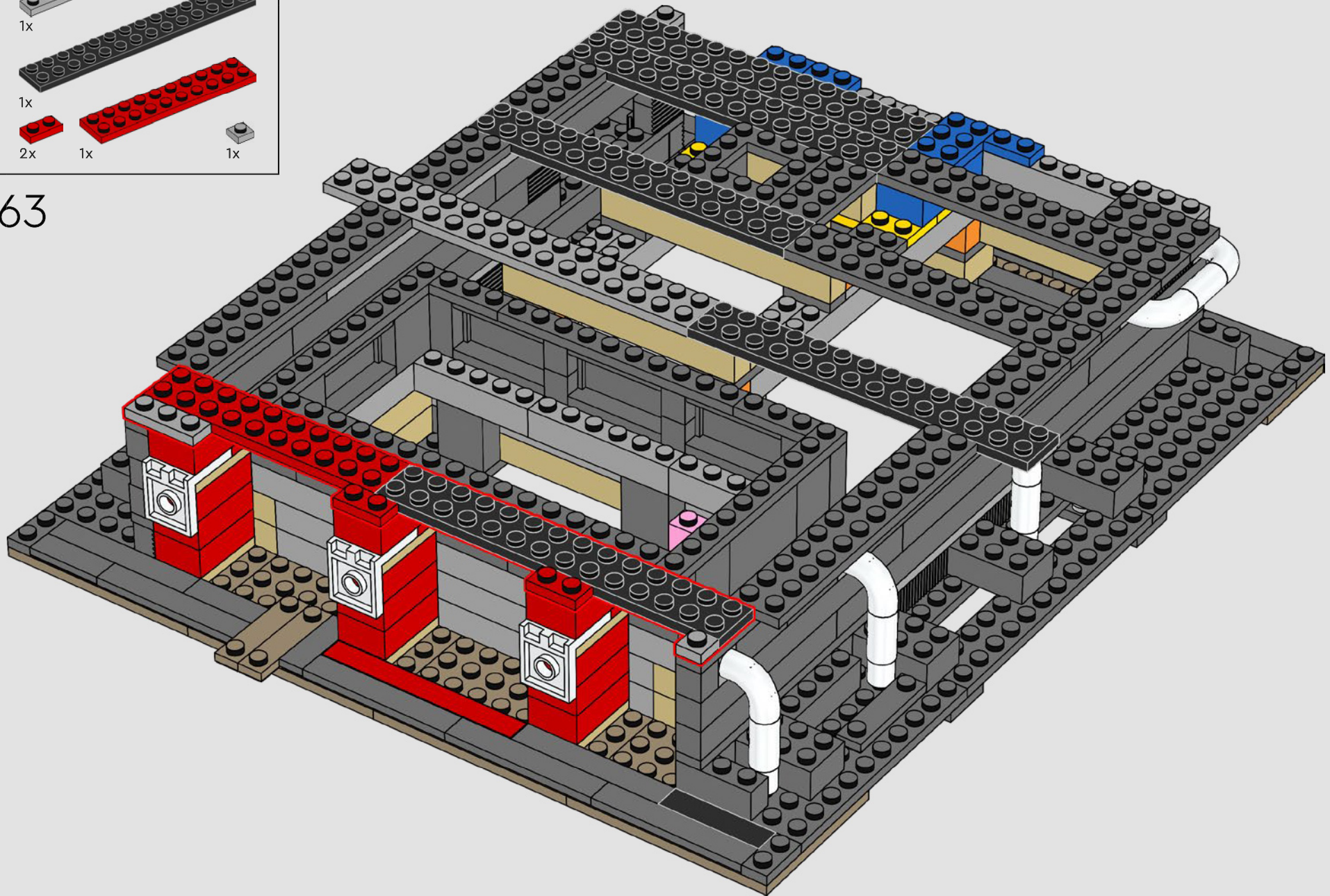


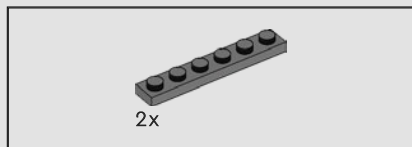
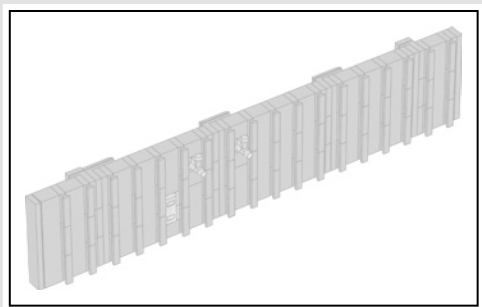
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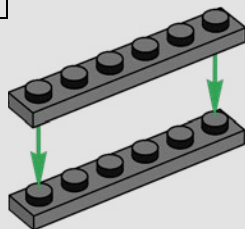
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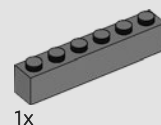
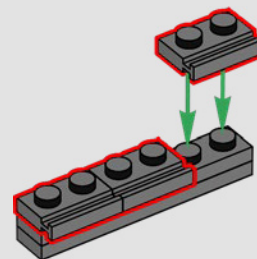
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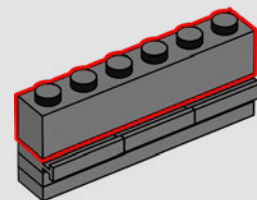
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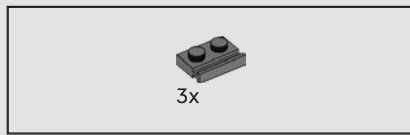
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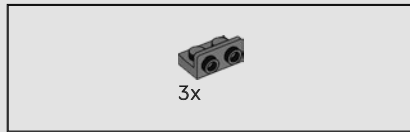
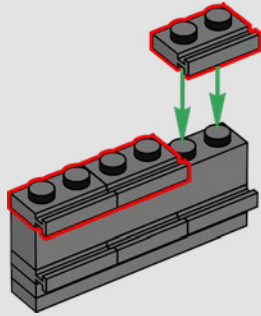
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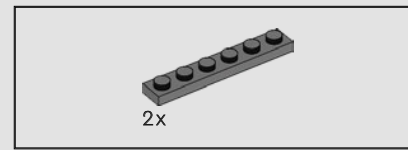
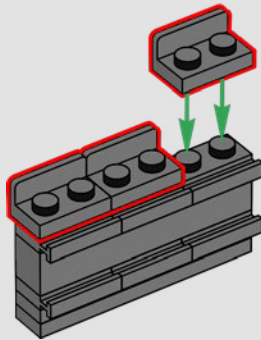




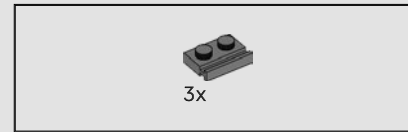
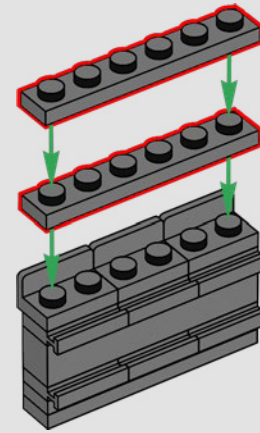
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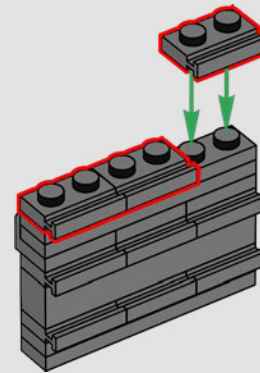
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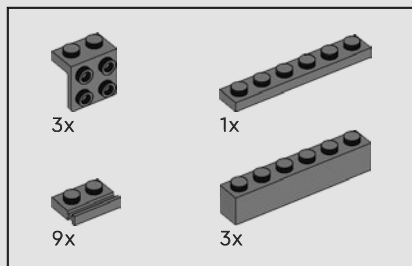


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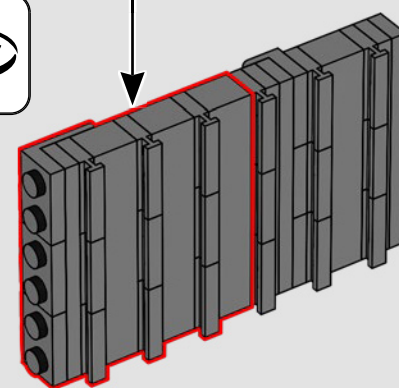
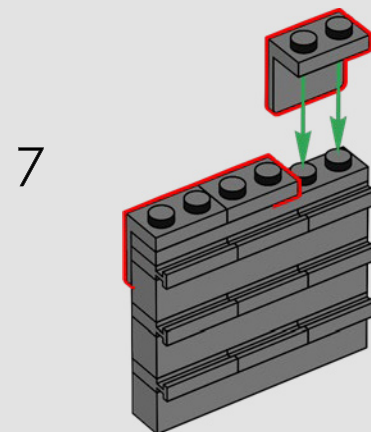
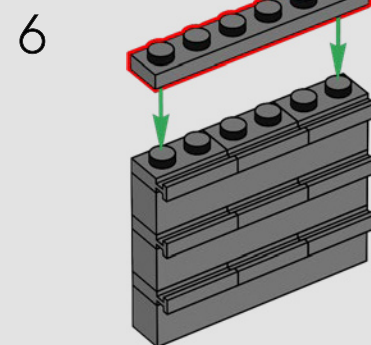
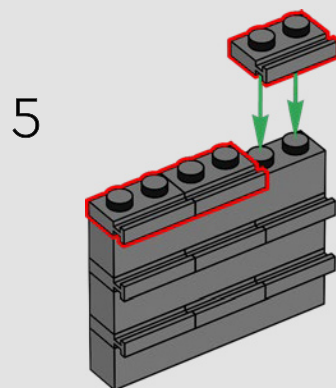
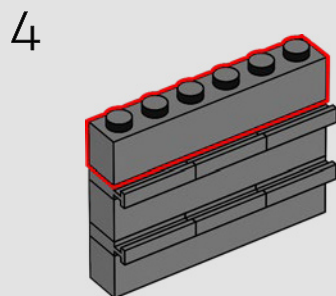
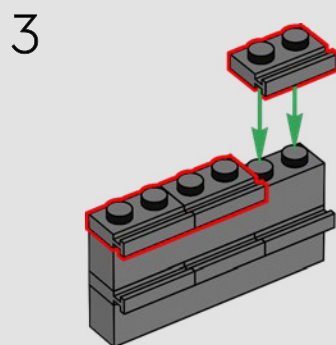
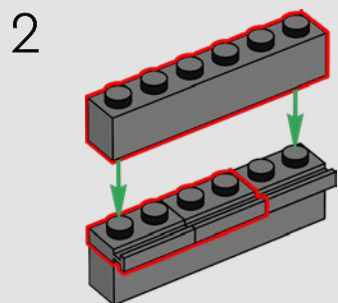
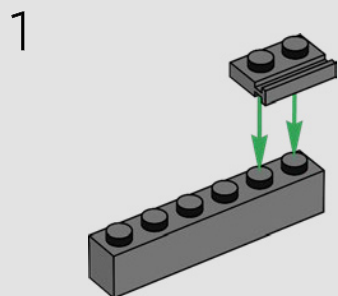


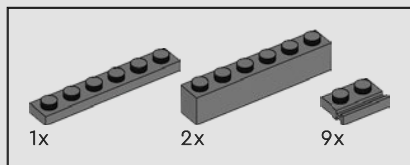
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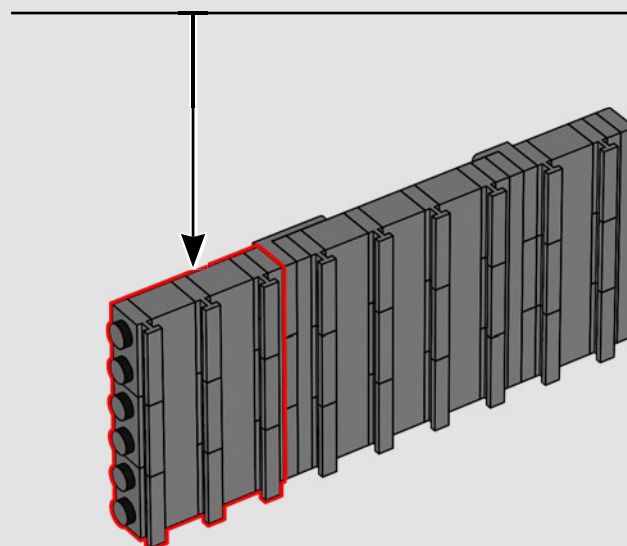
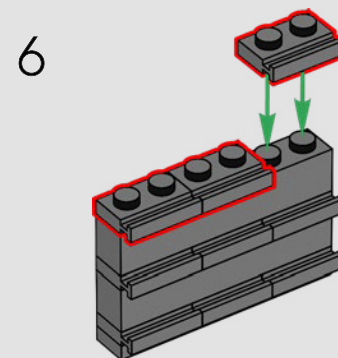
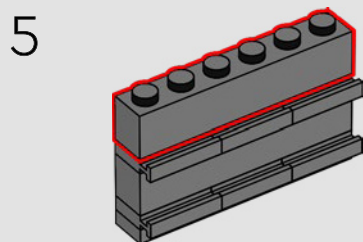
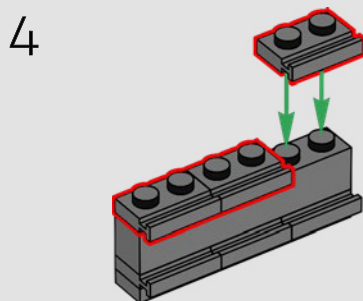
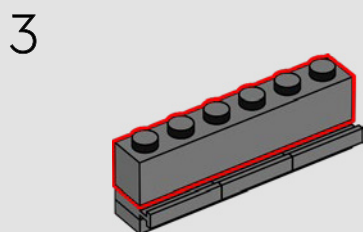
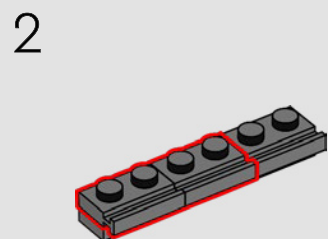
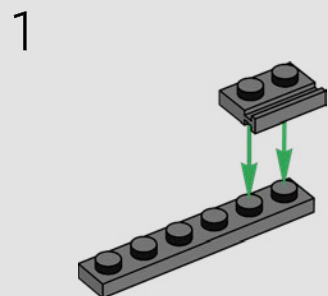


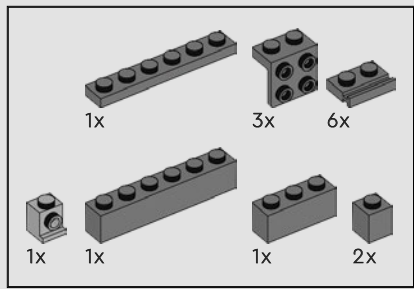
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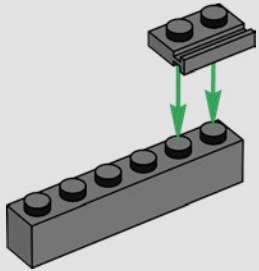
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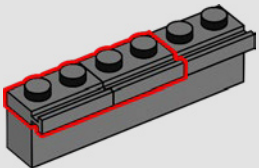


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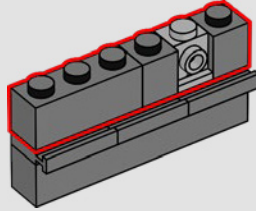
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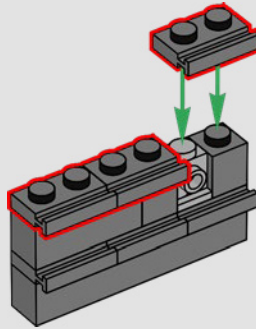
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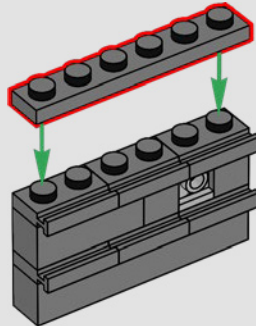
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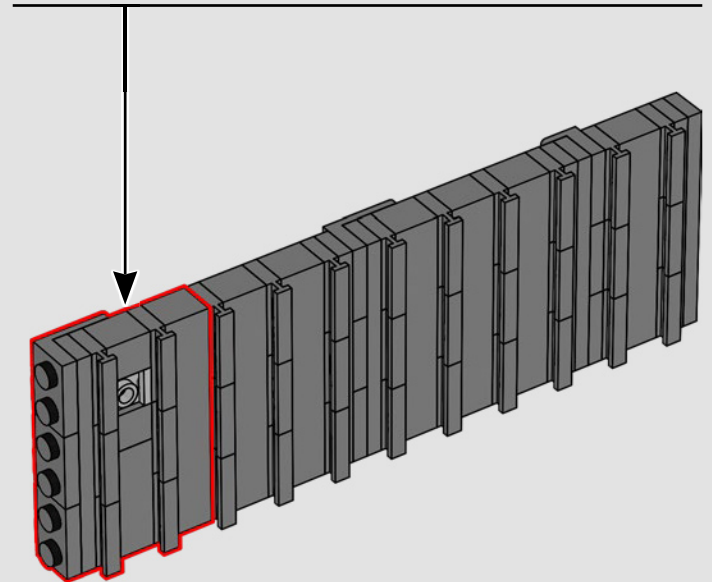
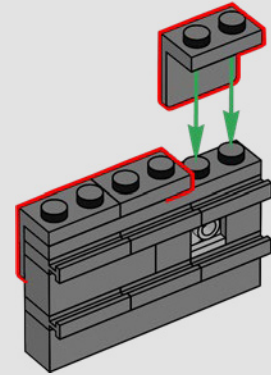
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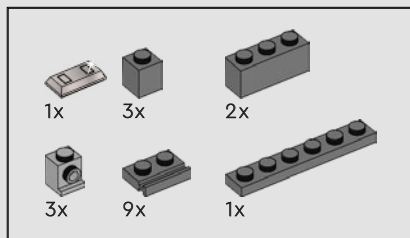


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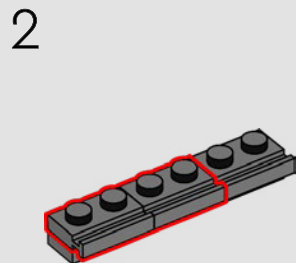
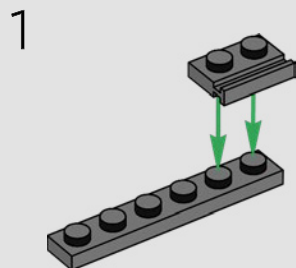


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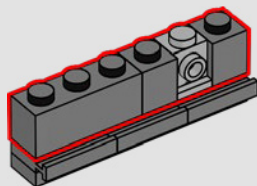




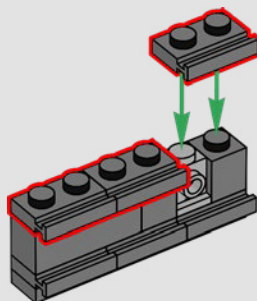
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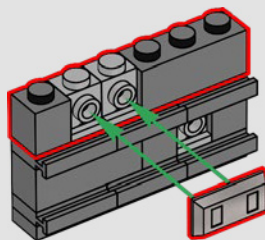
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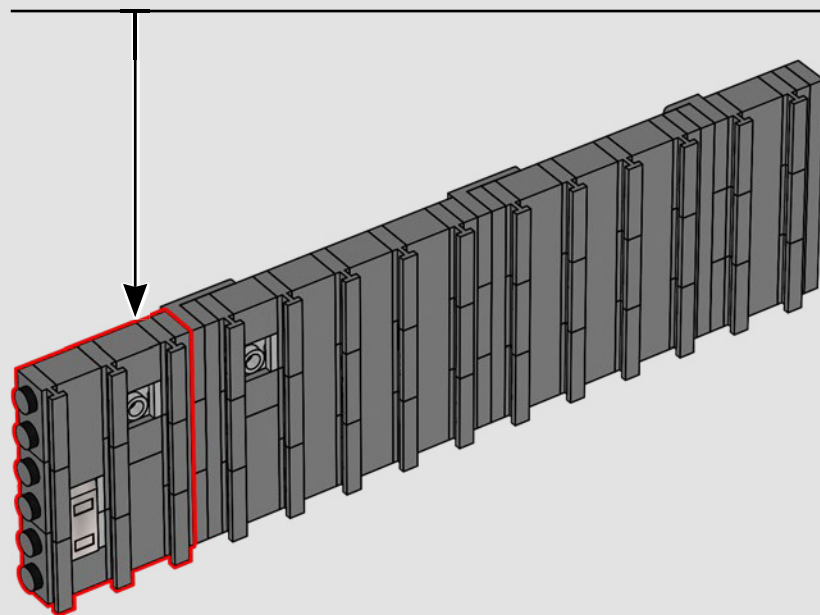
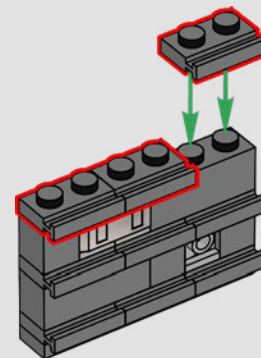
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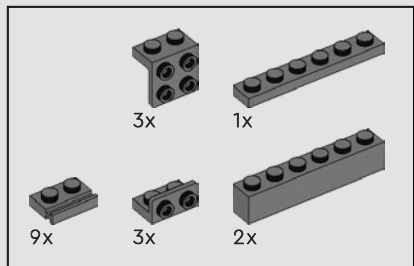


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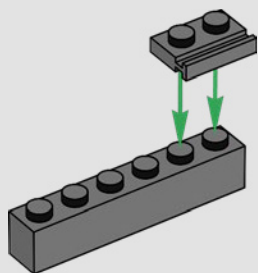
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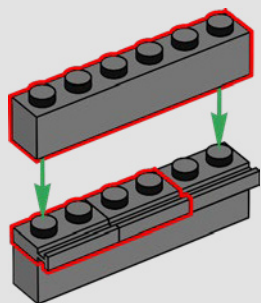


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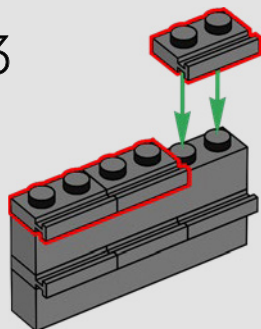
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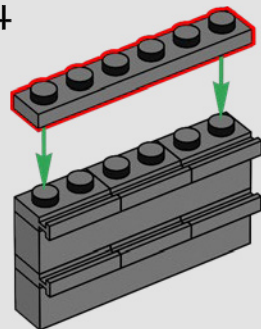
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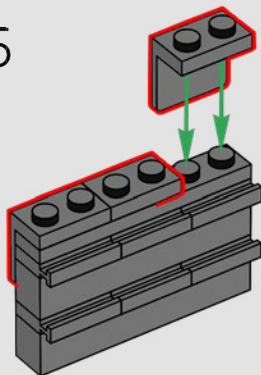
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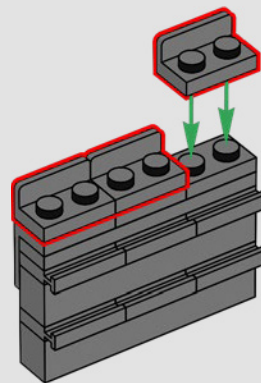
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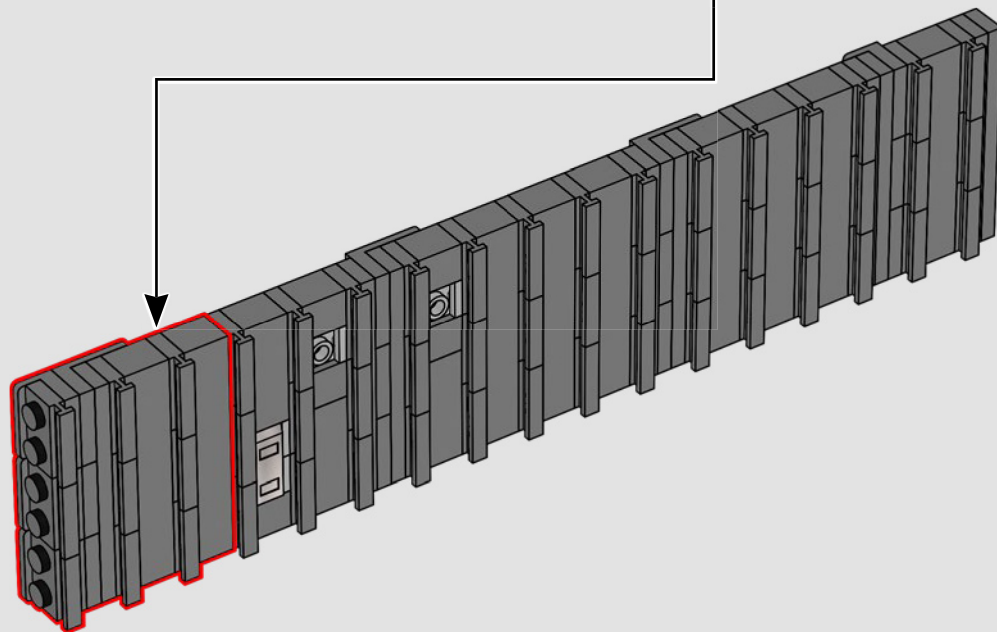
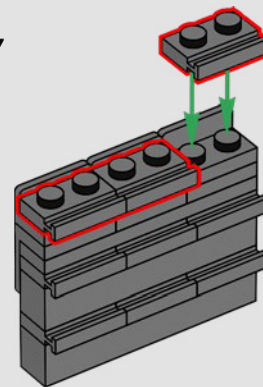
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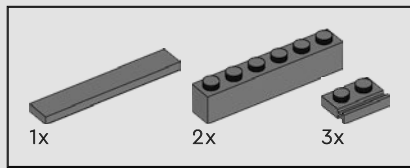


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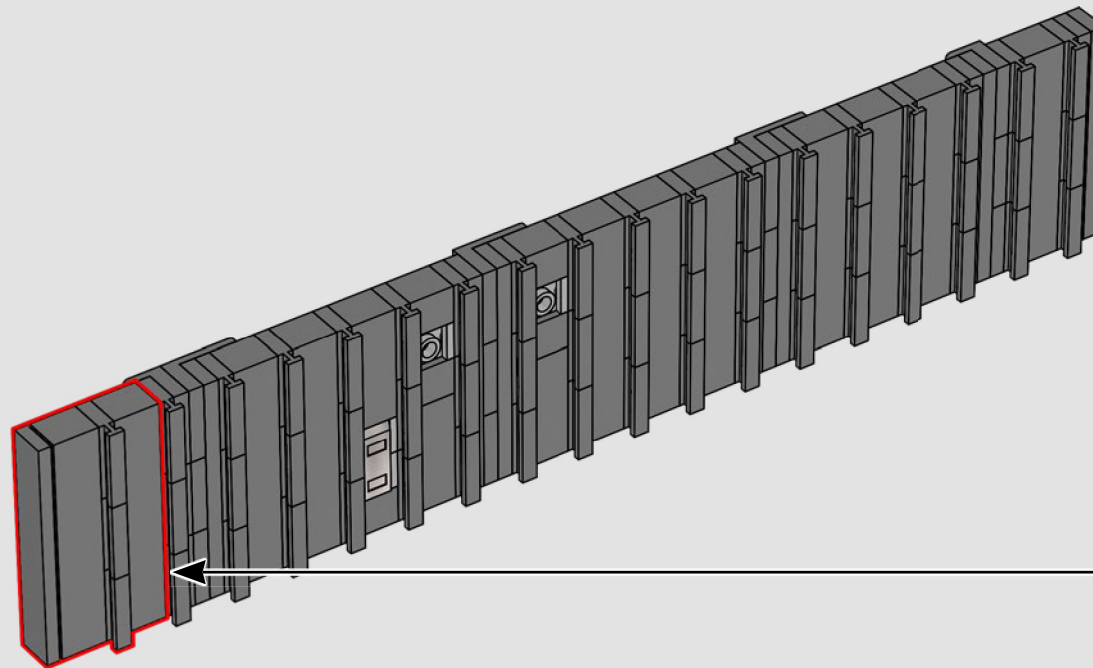
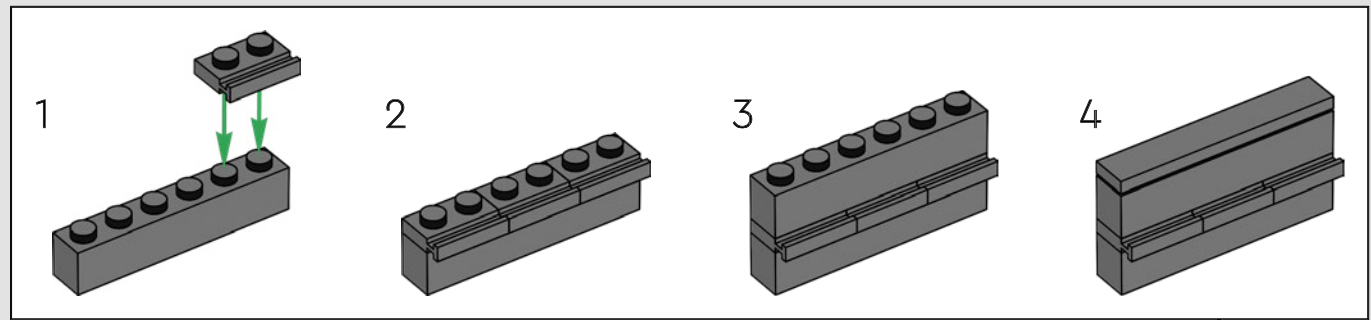


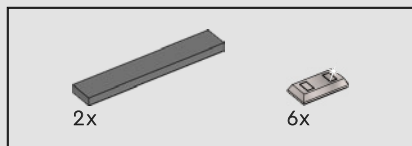
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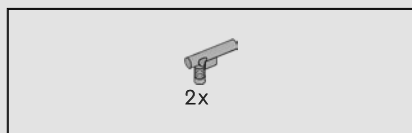
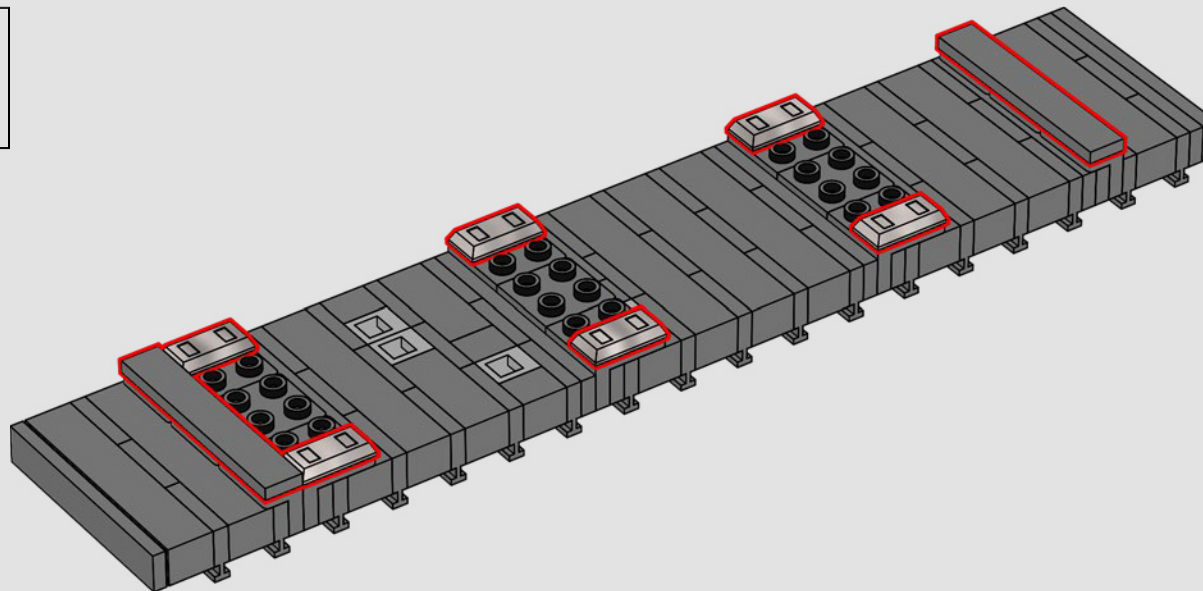


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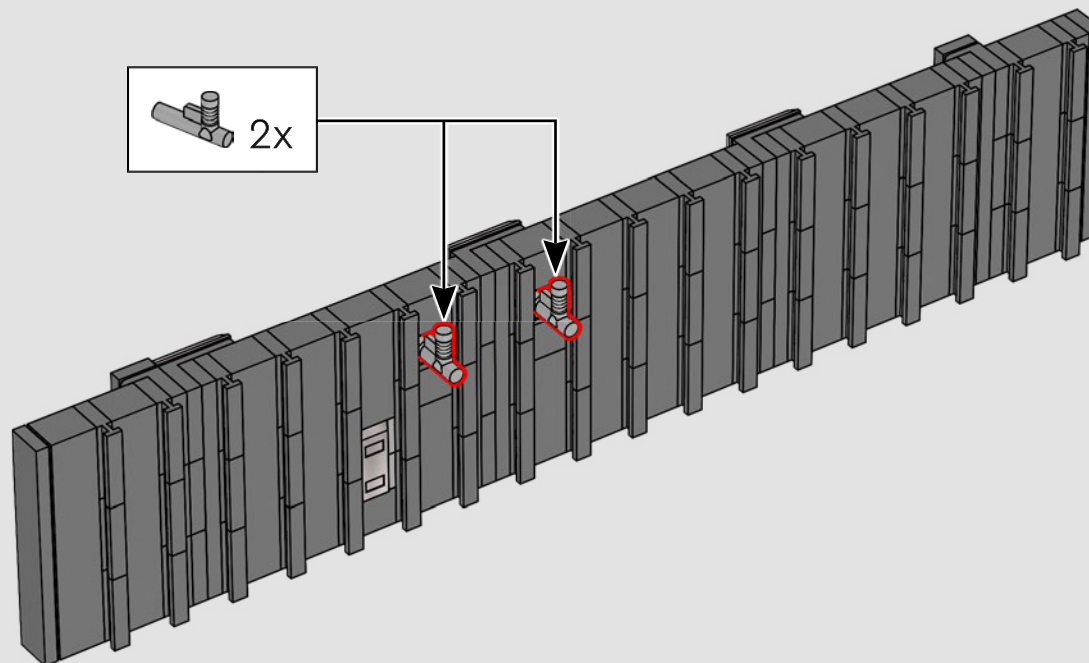
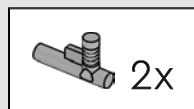




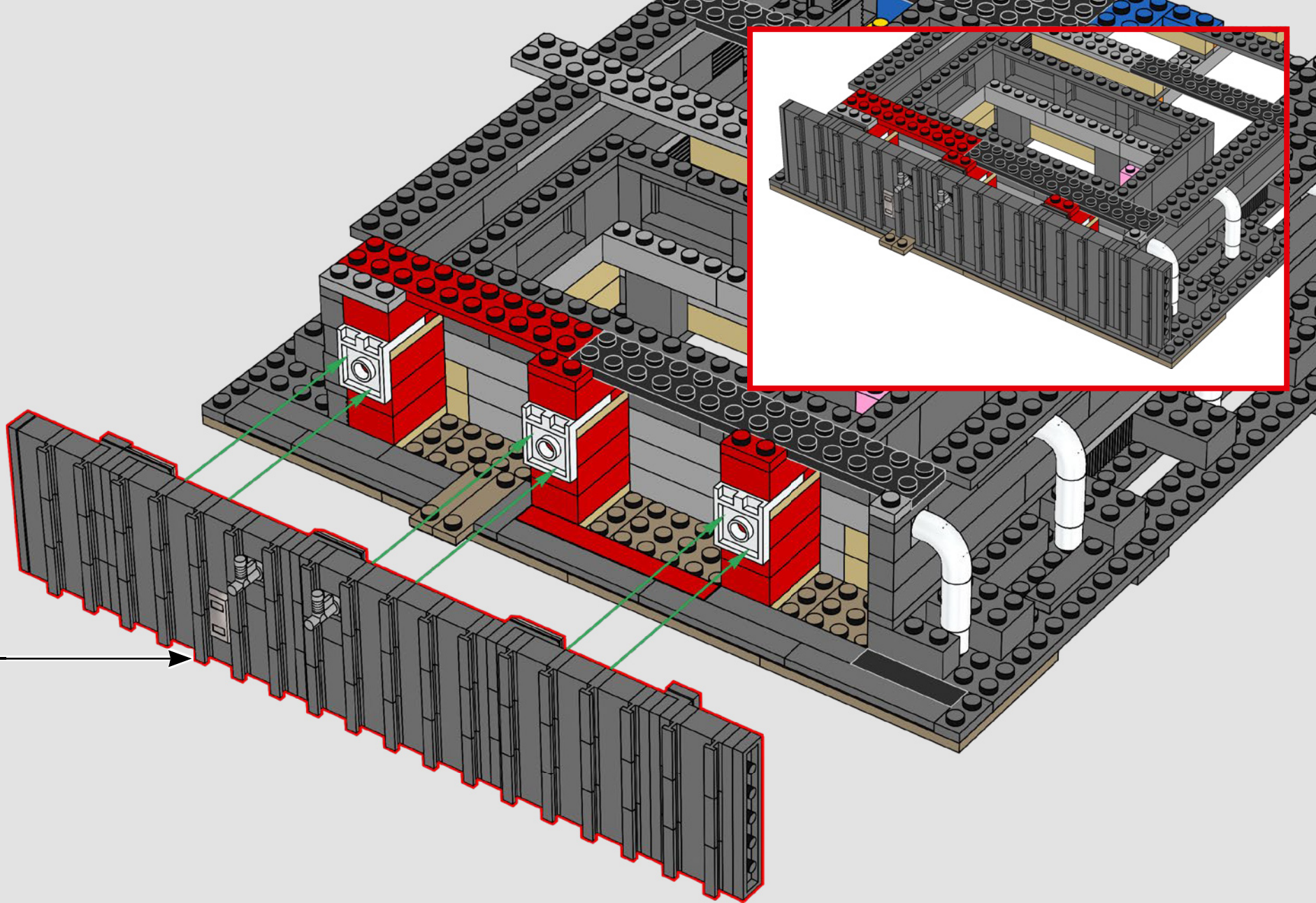
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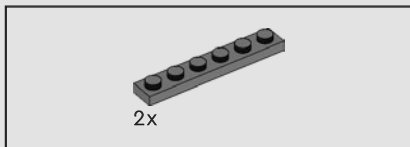
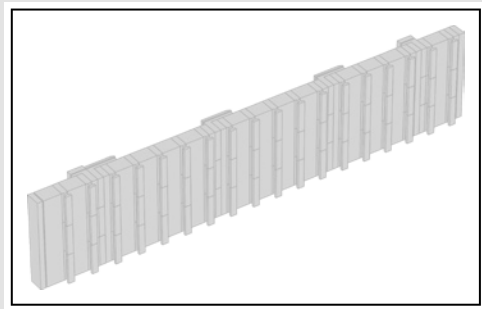


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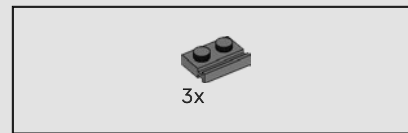
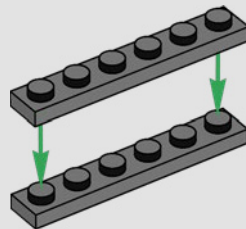


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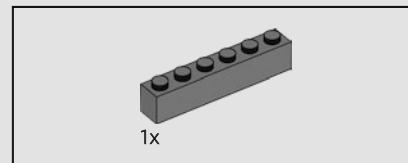
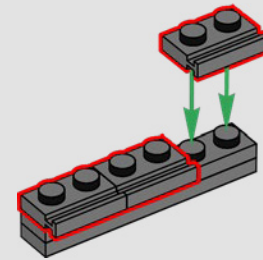




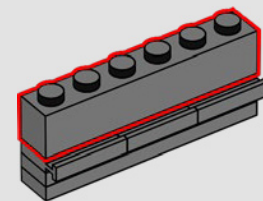
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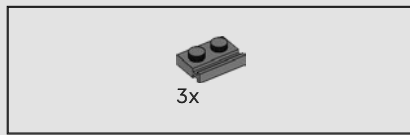


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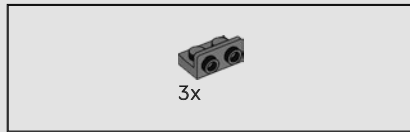
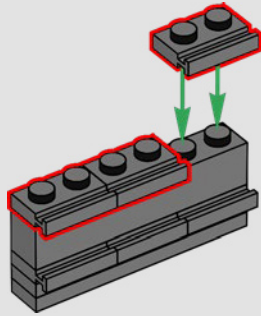


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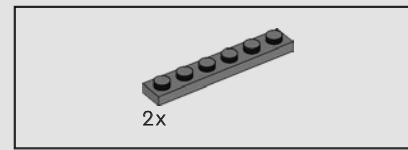
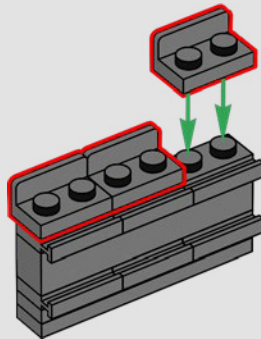




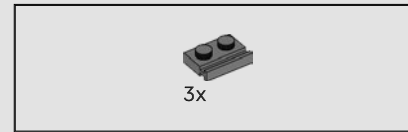
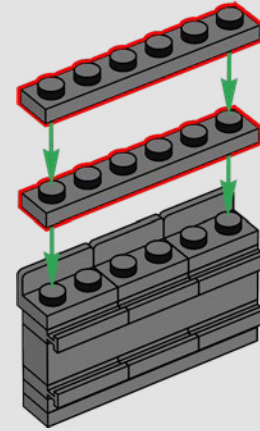
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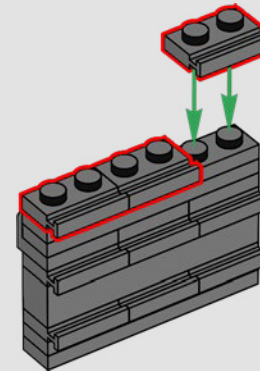
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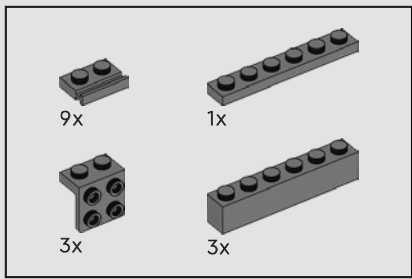


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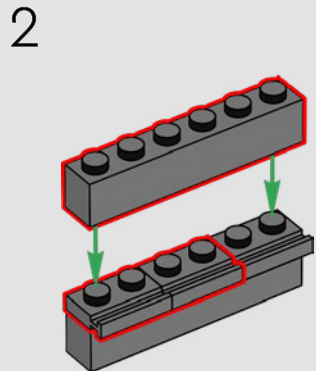
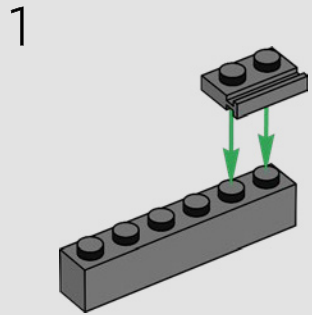


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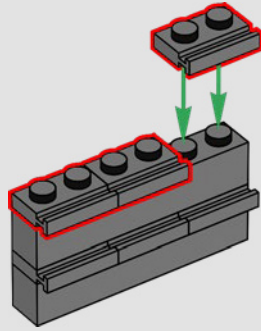




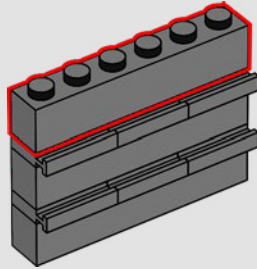
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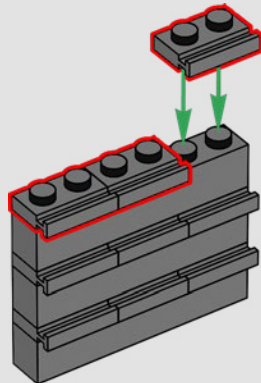
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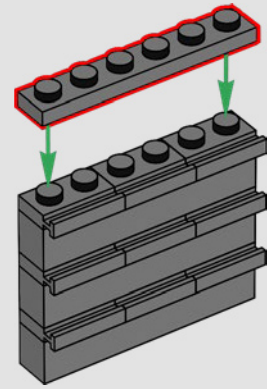
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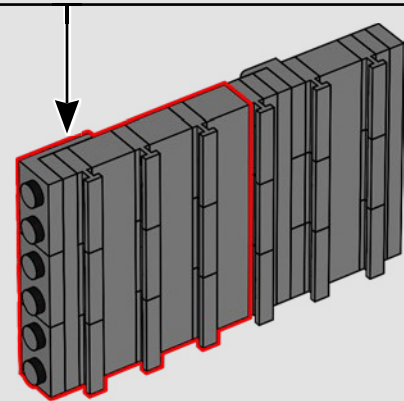
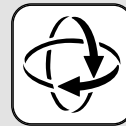
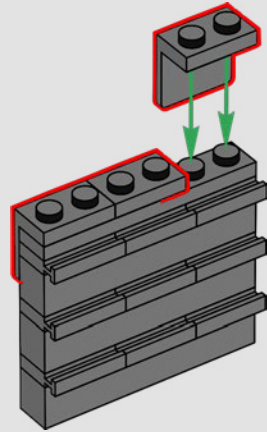
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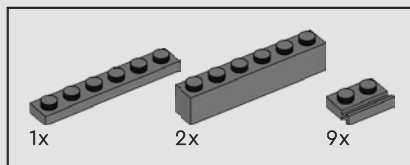


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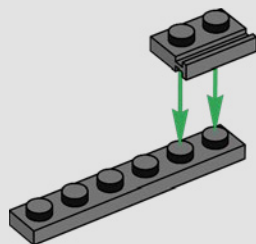
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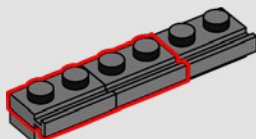


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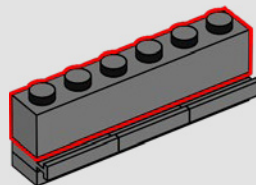
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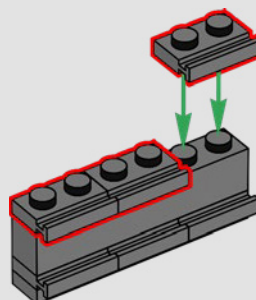
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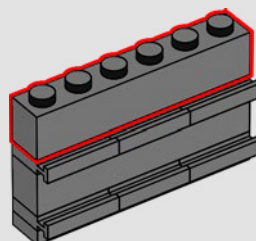
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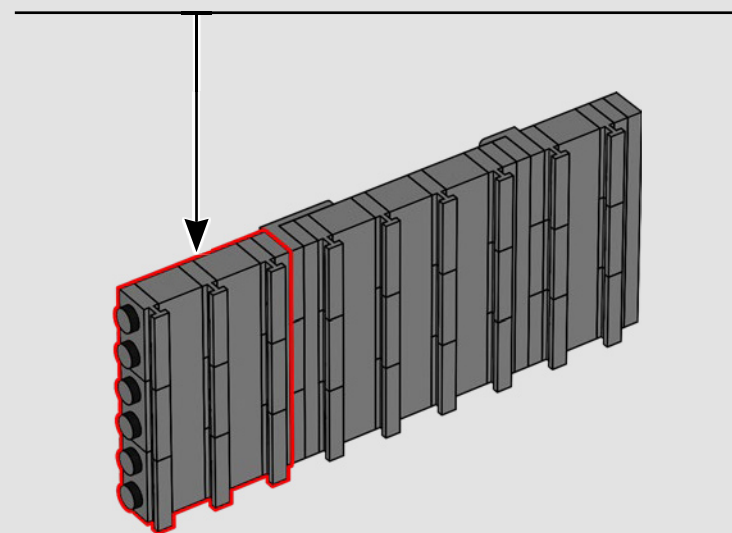
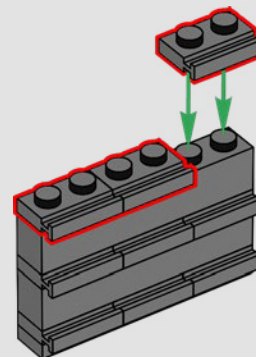
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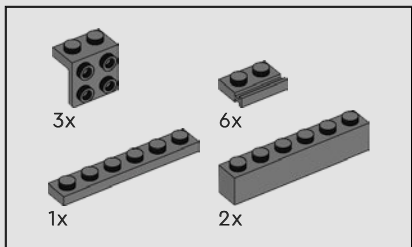


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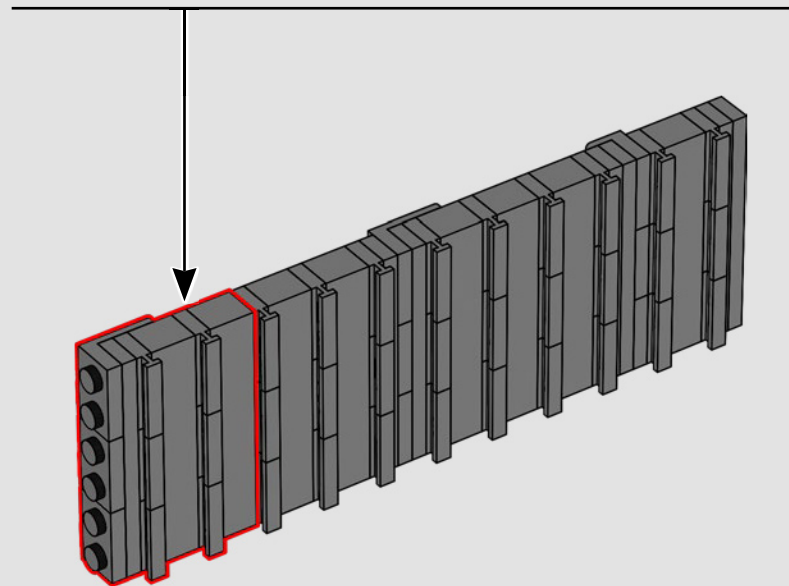
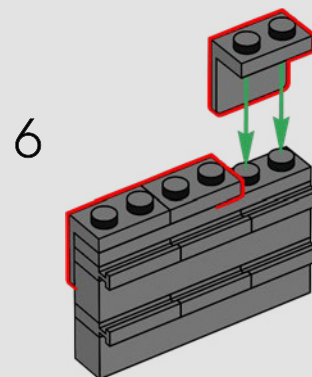
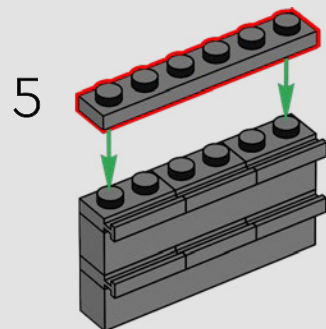
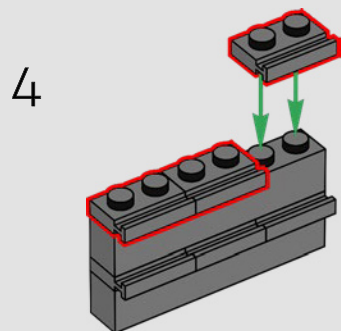
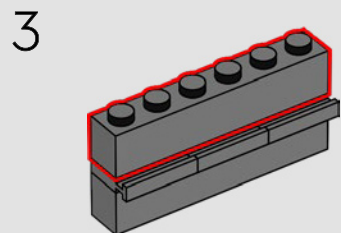
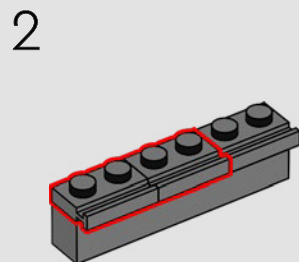
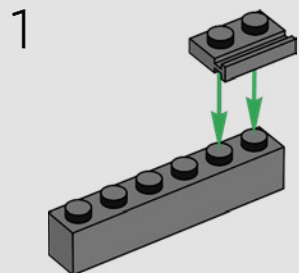


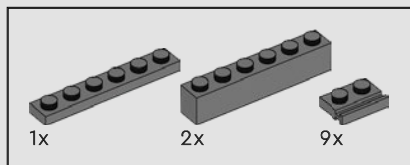
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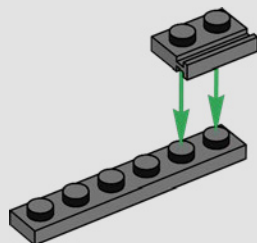
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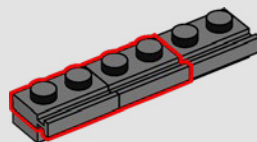


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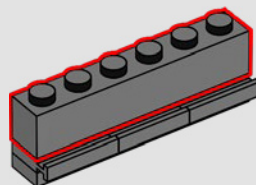
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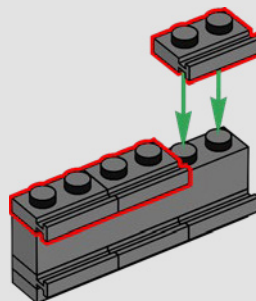
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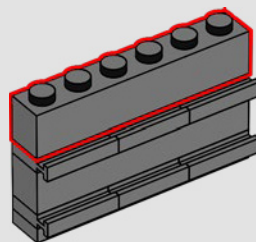
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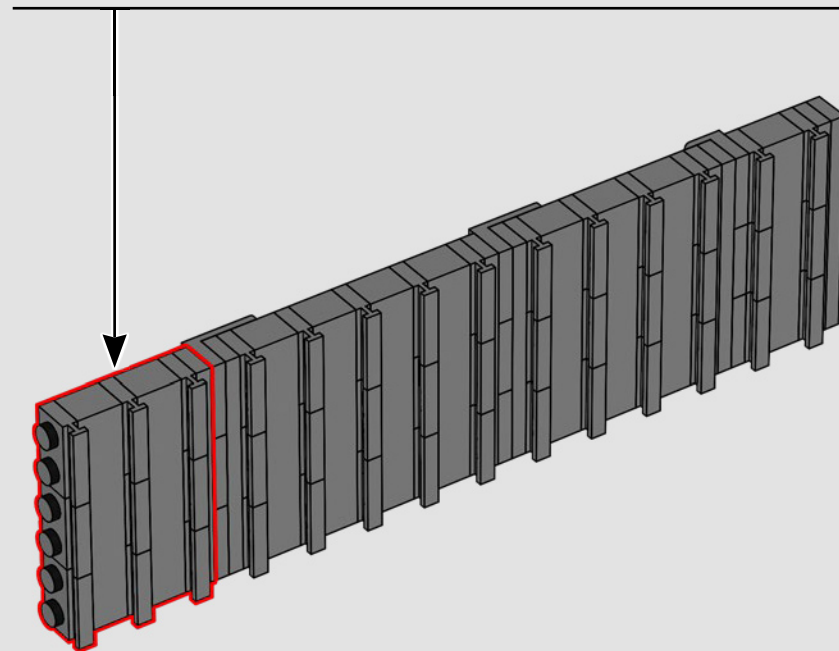
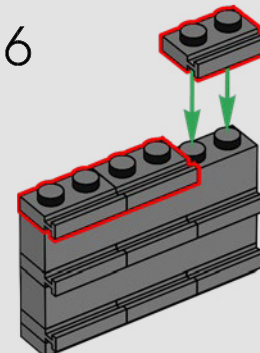
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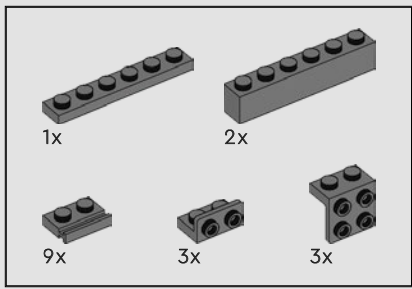


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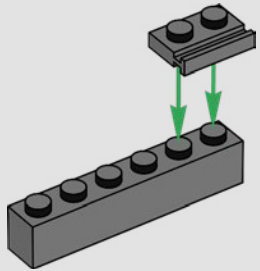
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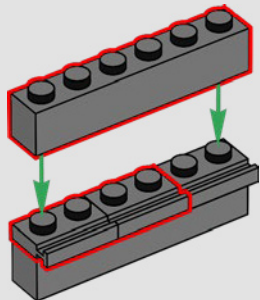


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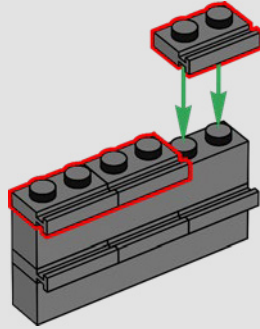
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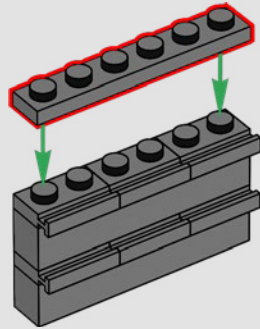
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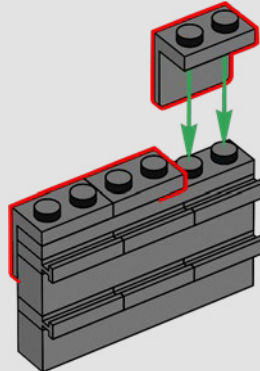
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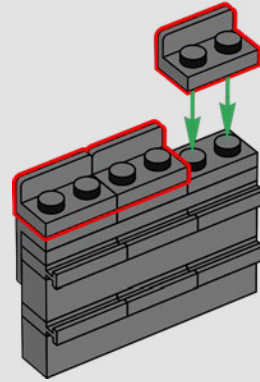
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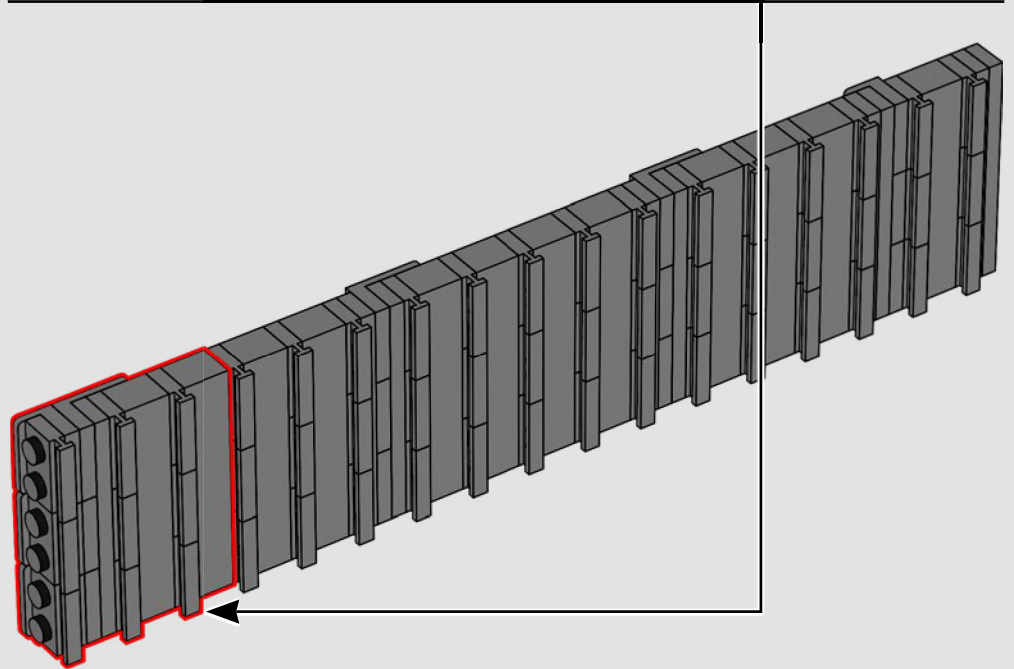
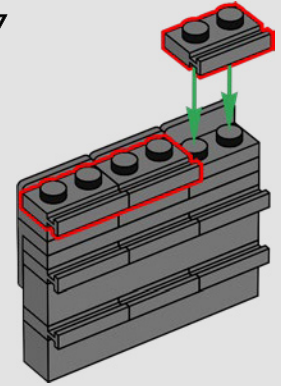
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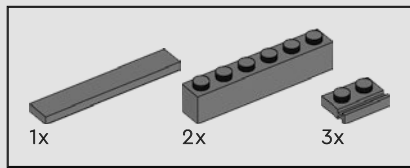


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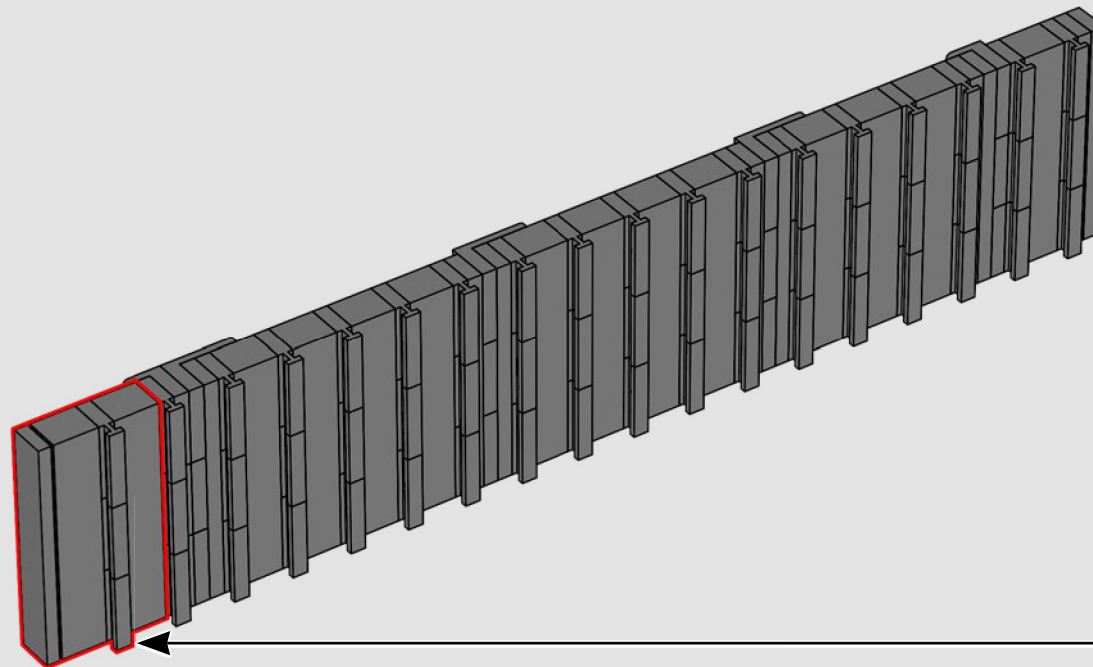
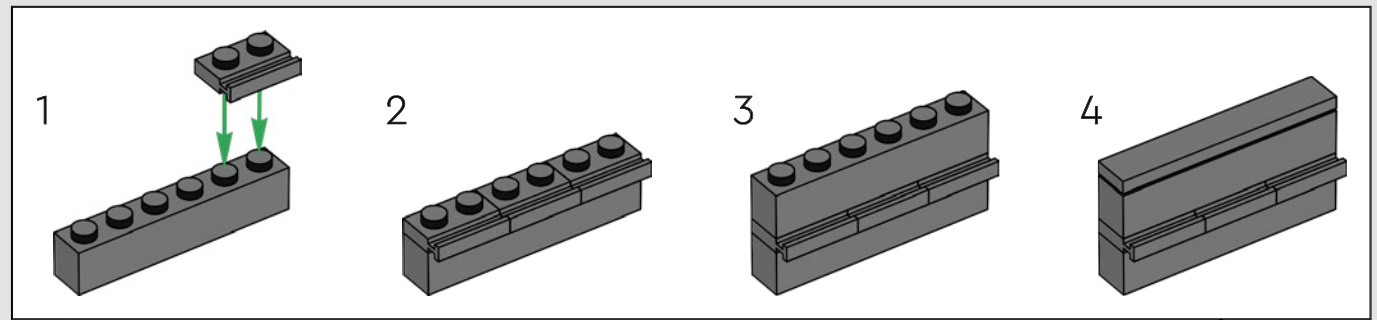


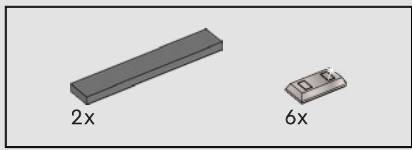
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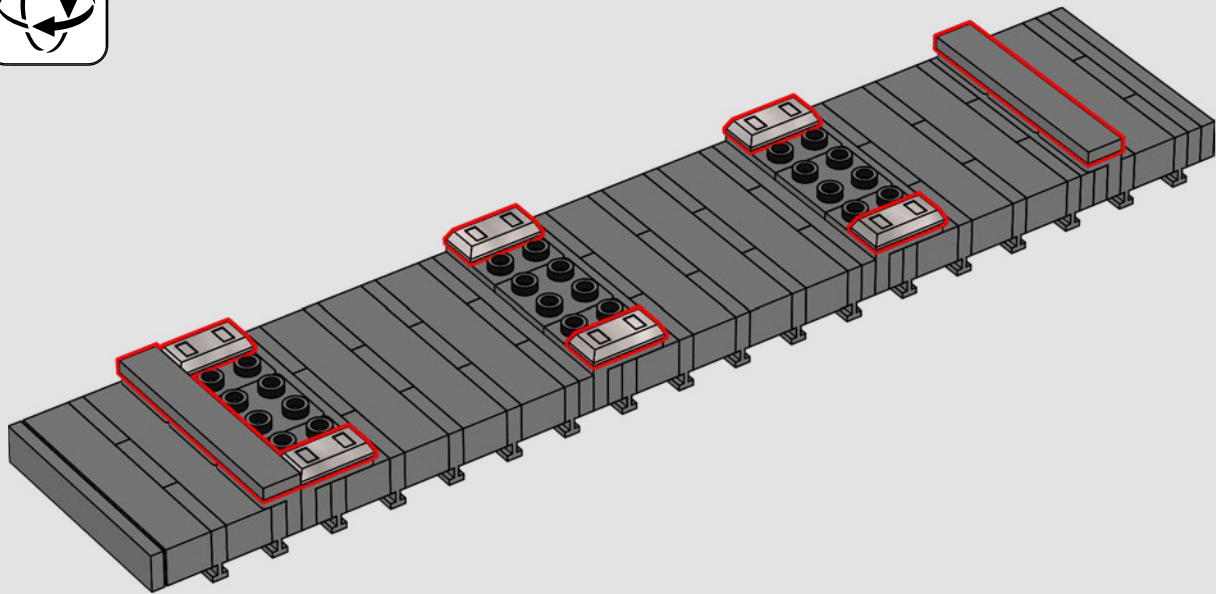


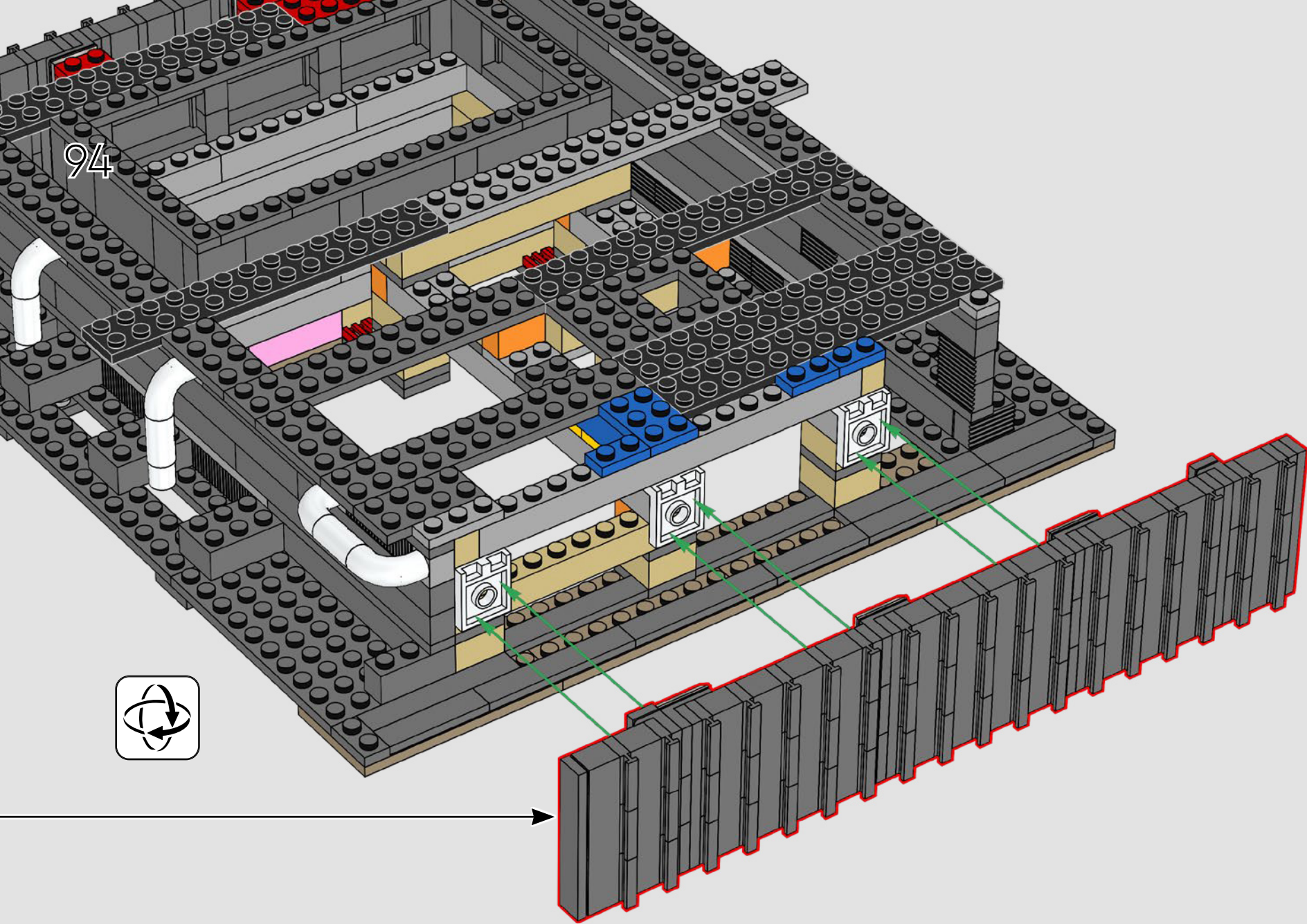
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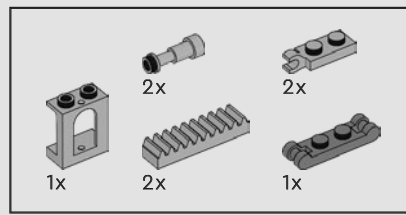




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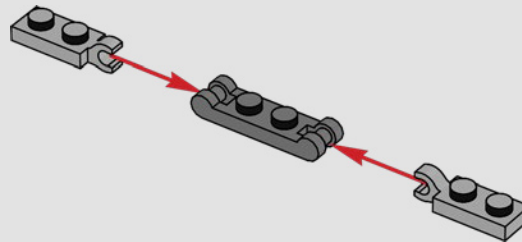




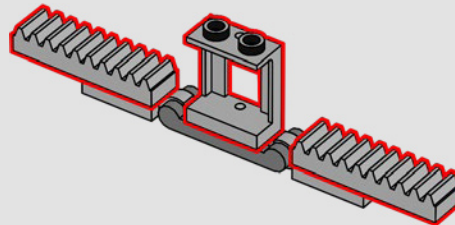


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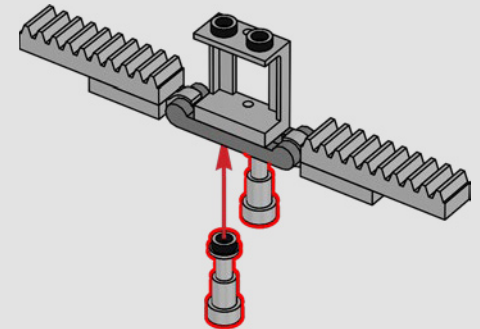
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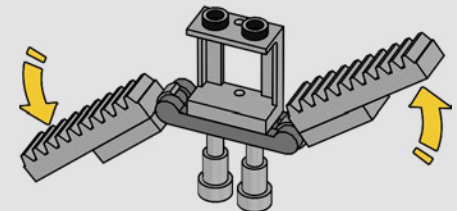
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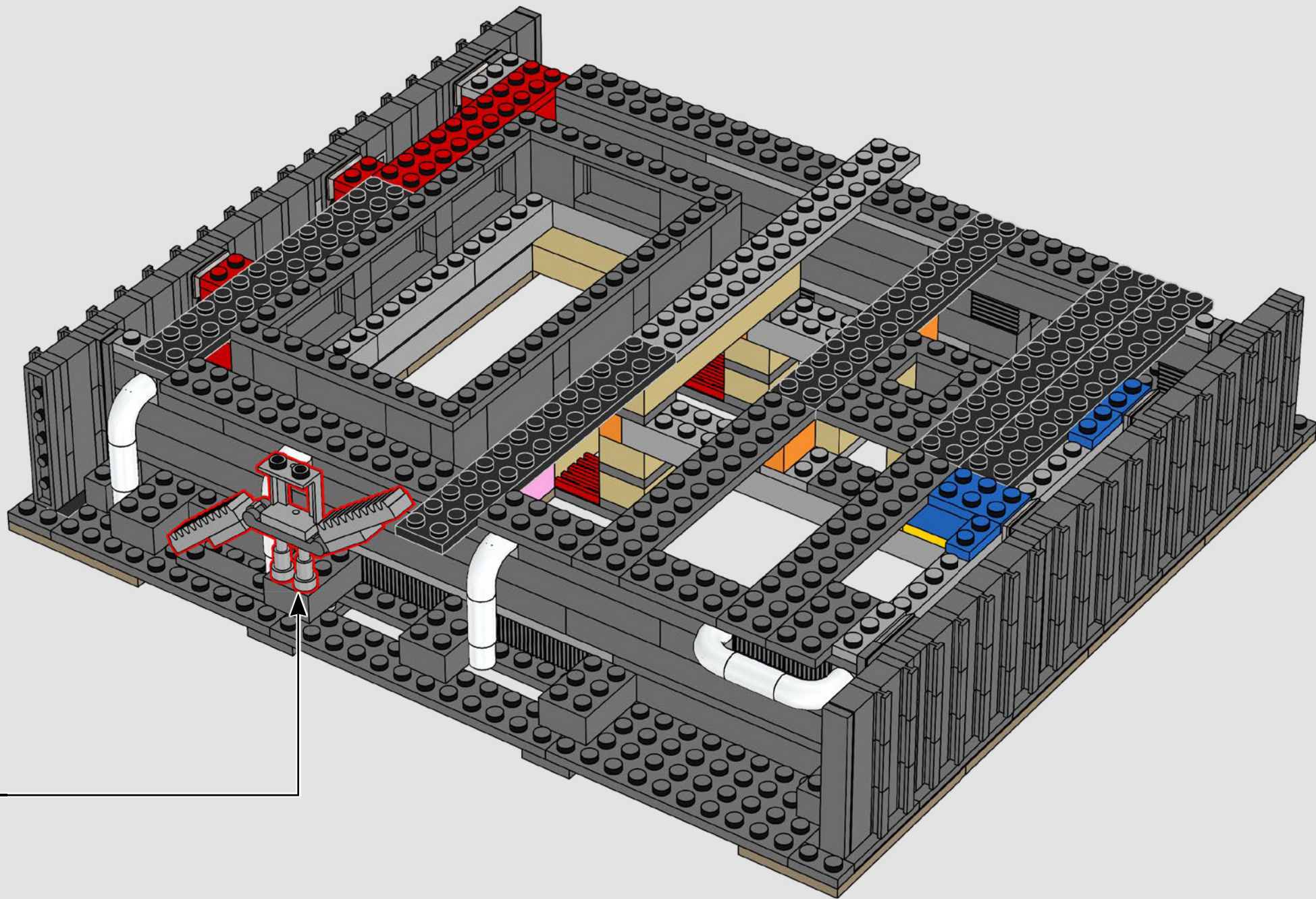


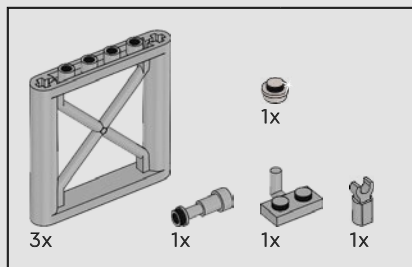
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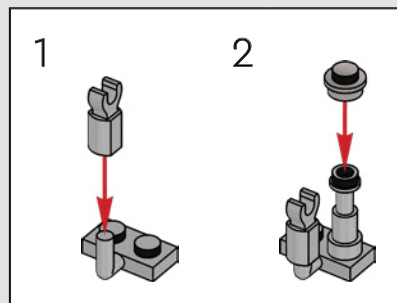
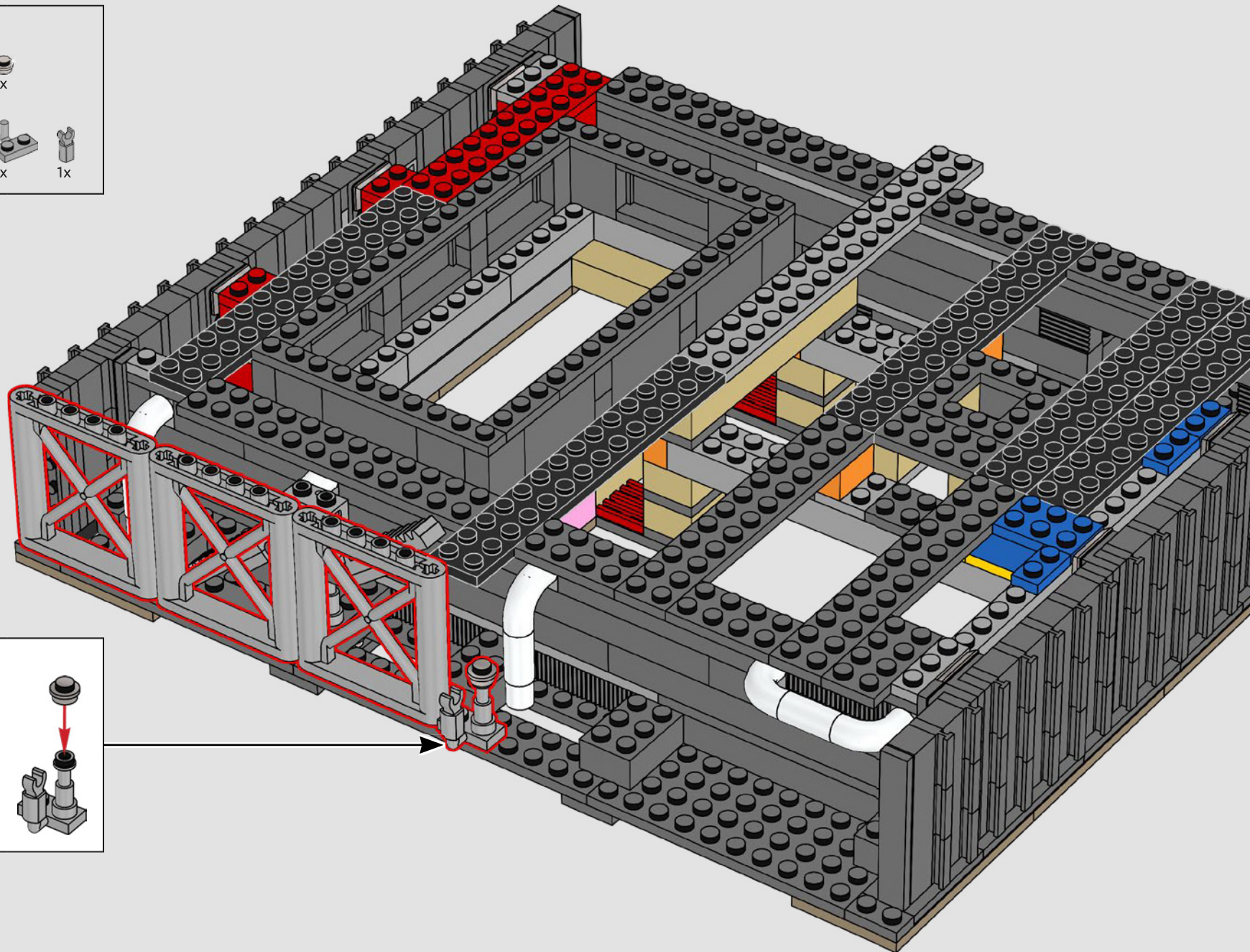
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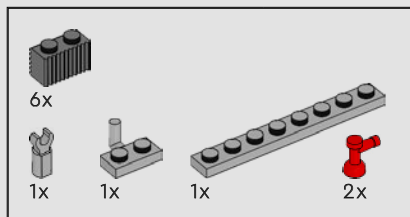




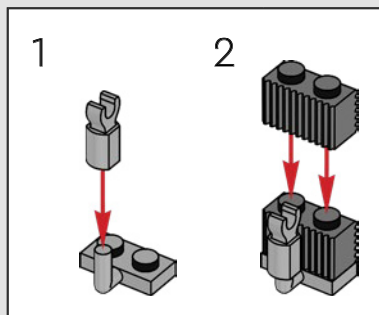
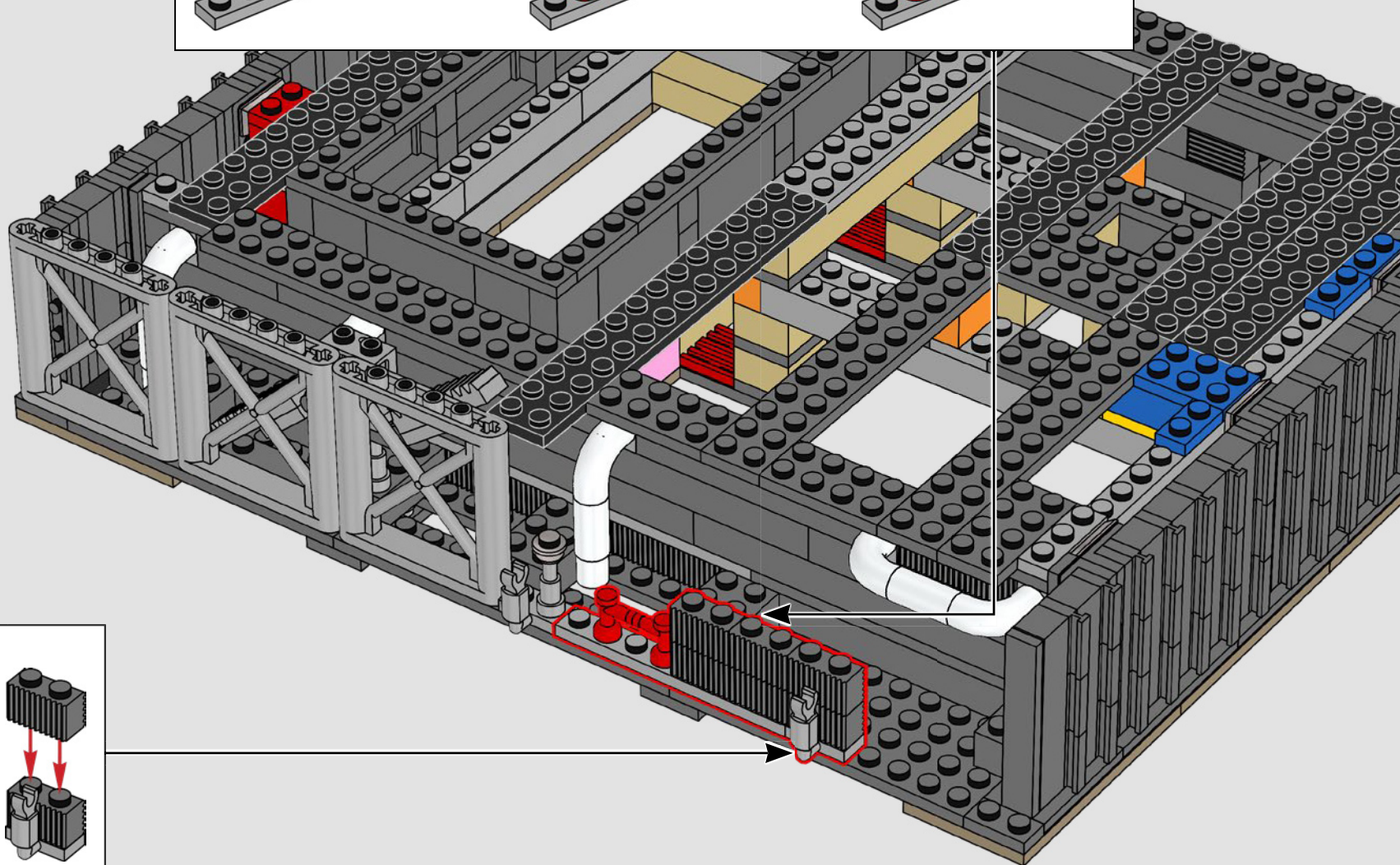
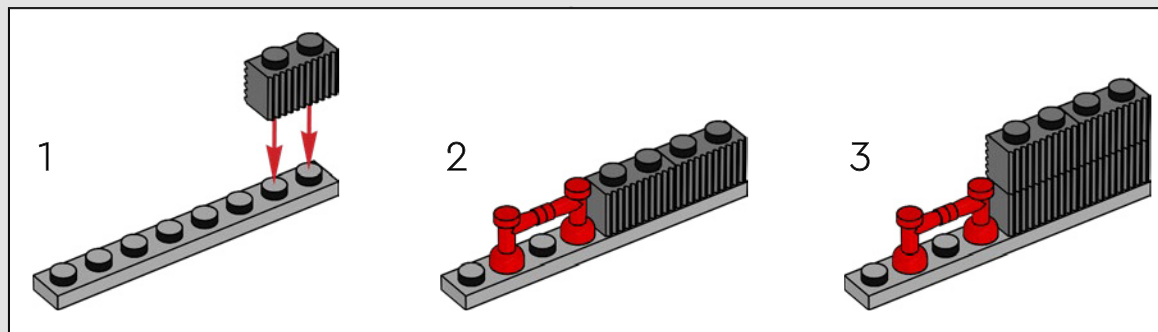


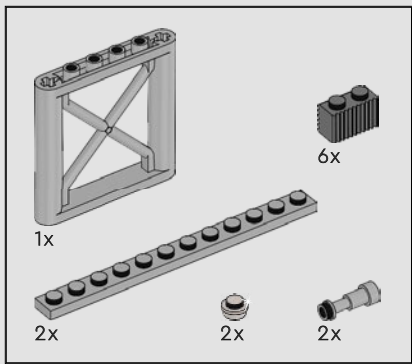
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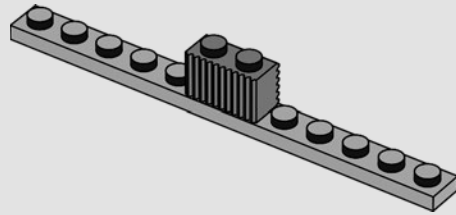
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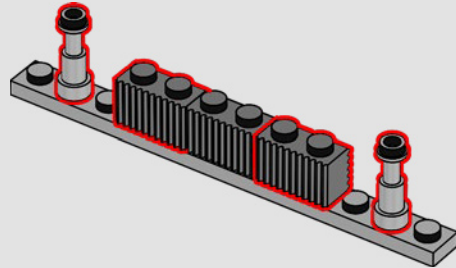


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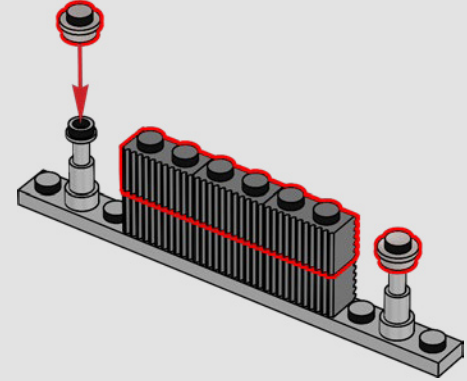
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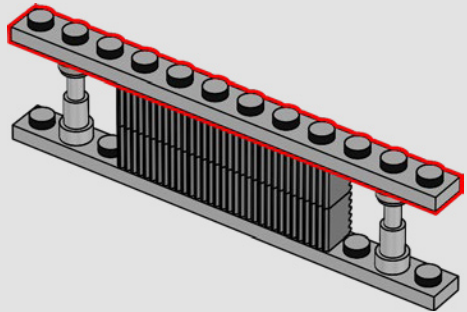
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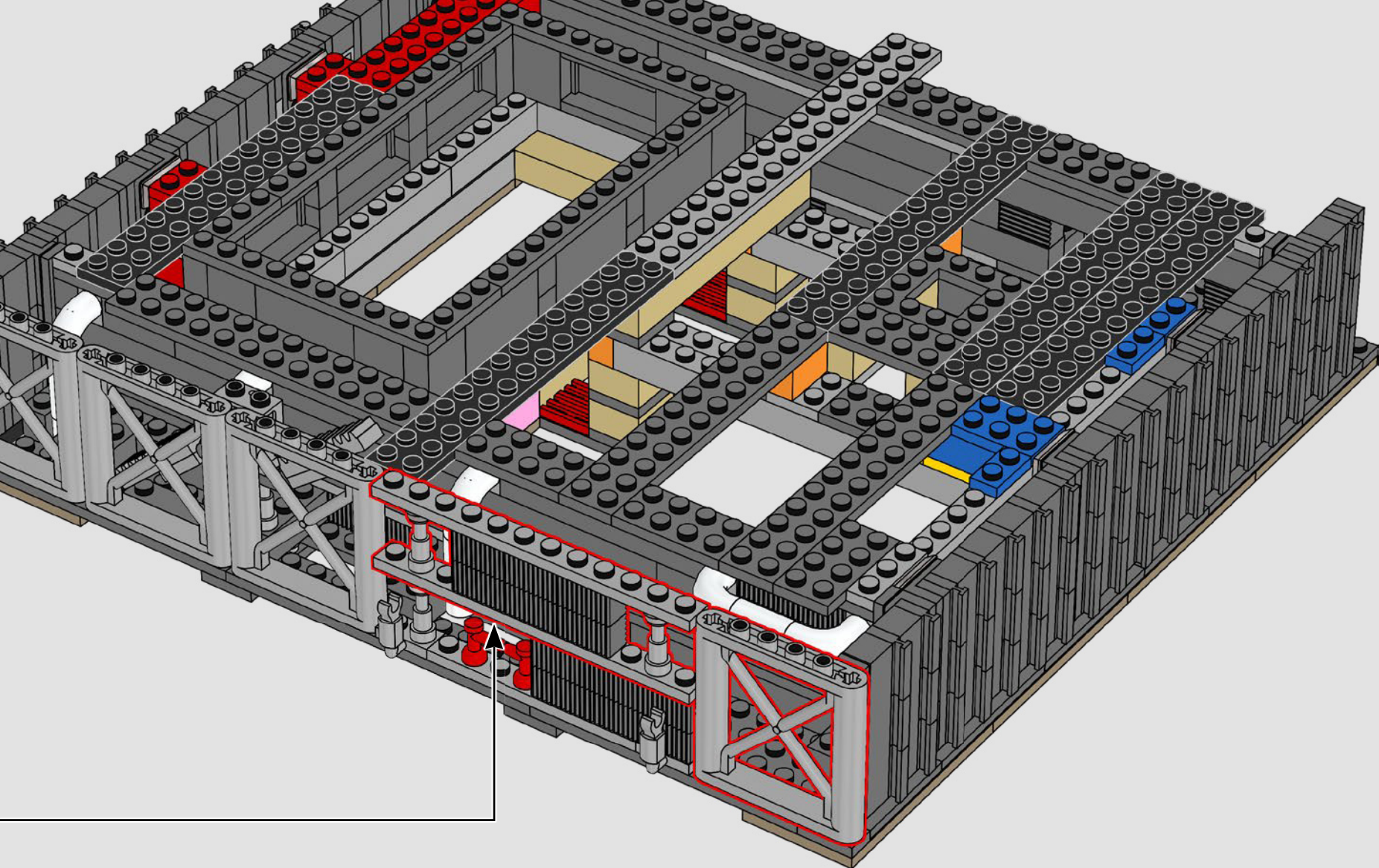


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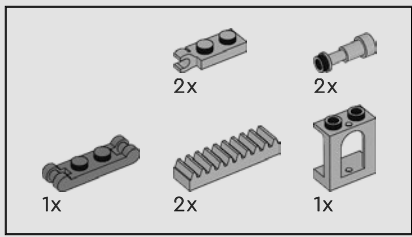


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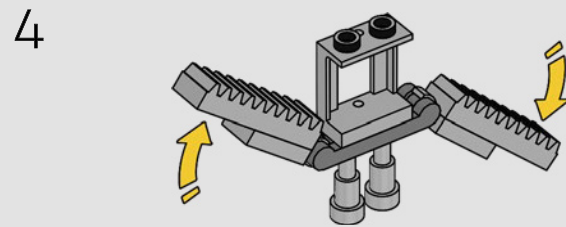
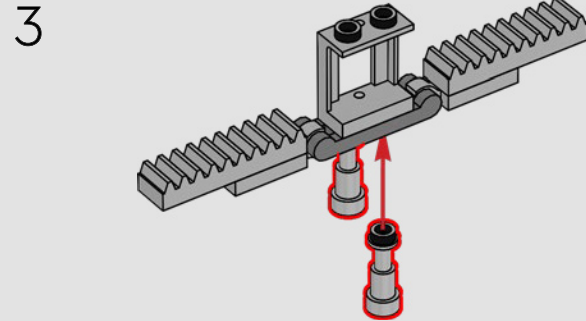
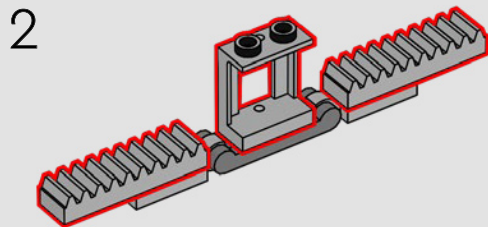
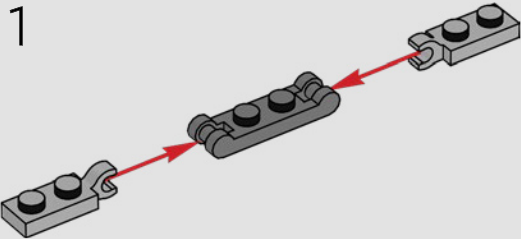


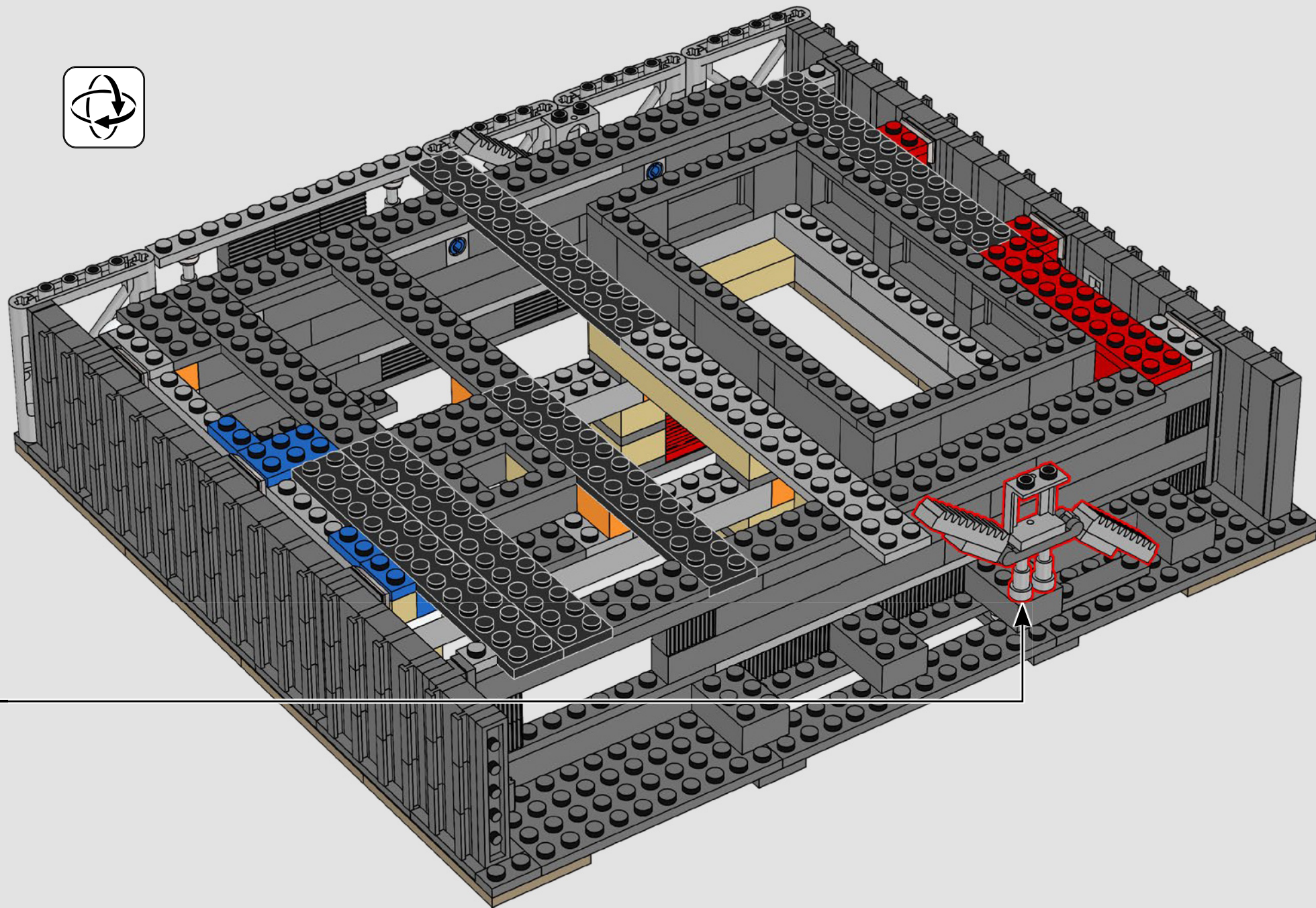


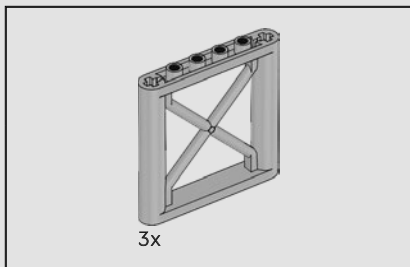
Im Gegensatz zum echten Spaceshuttle-Starttisch verfügt die LEGO® SLS-Plattform über teilweise offene Seiten, durch die Details wie Rohre und Treppen sichtbar sind.



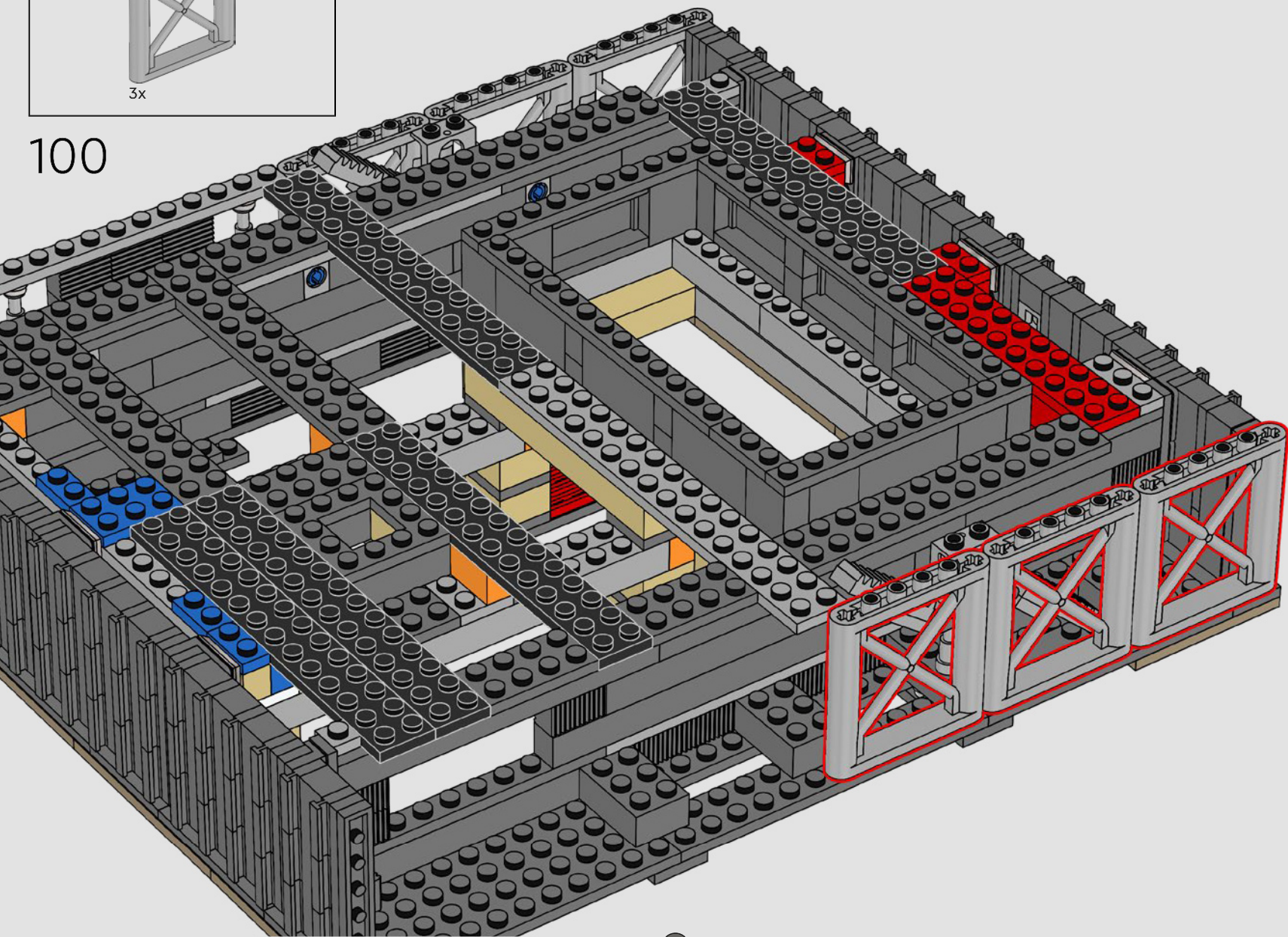
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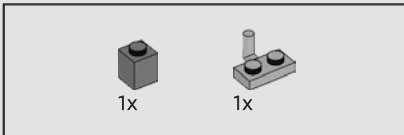
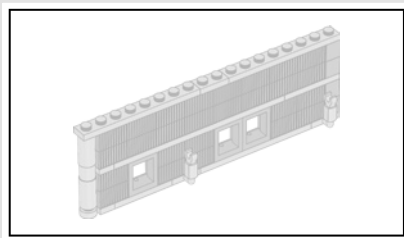




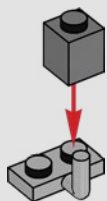


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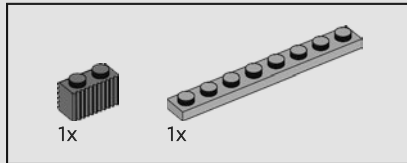
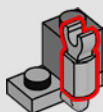




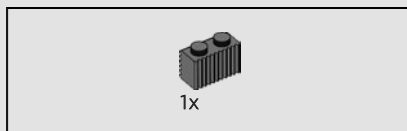
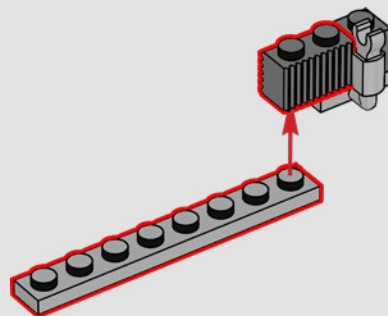
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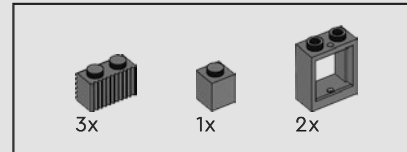
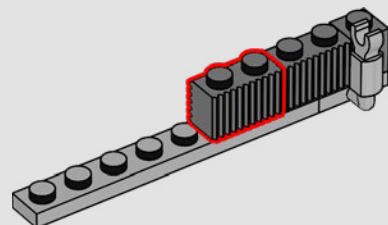
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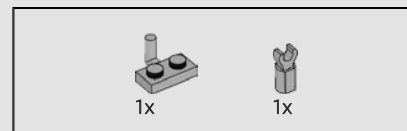
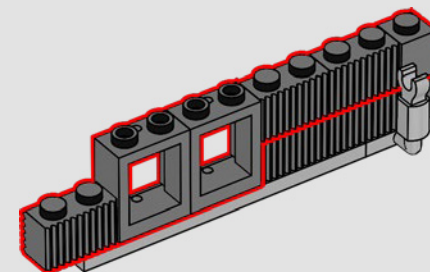
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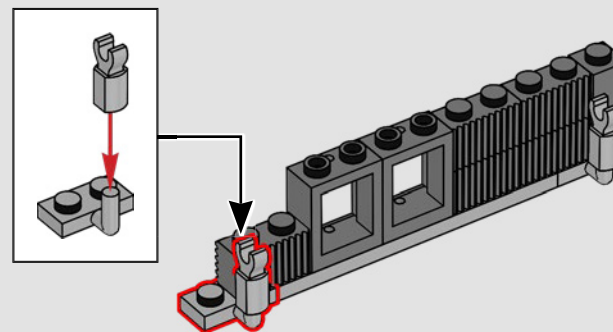
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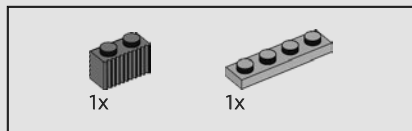


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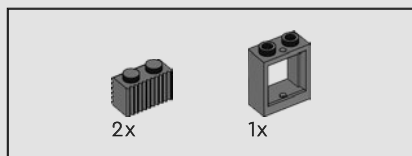
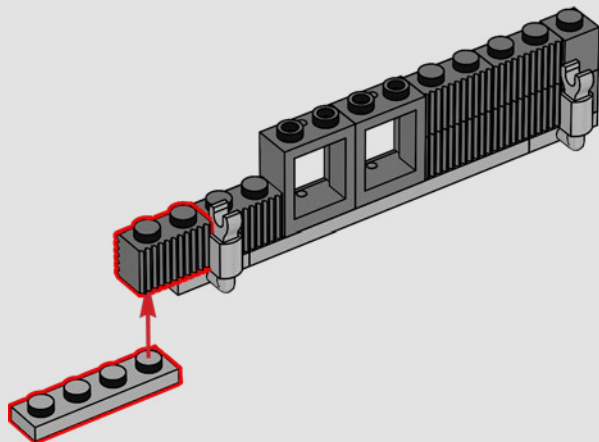


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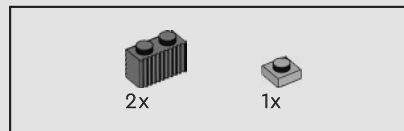
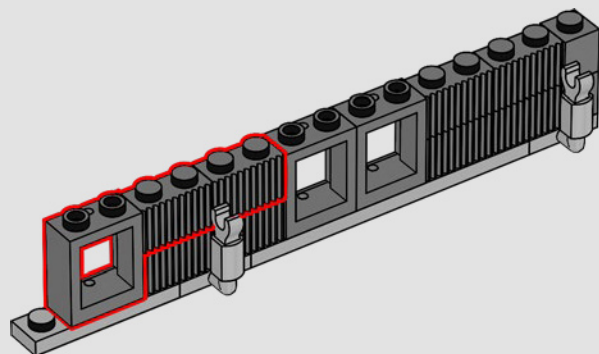




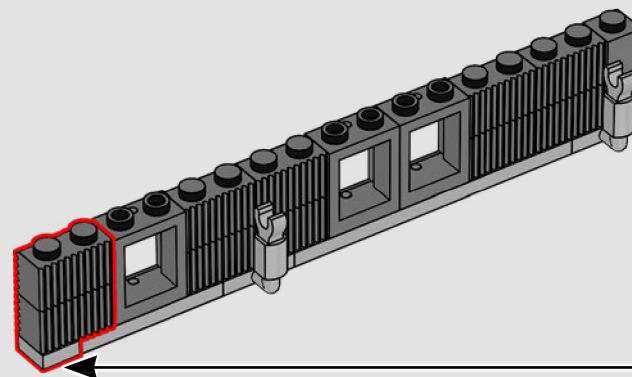
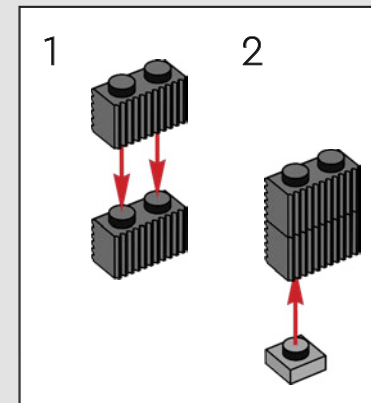
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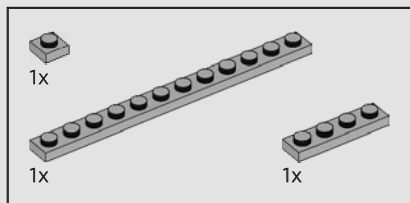


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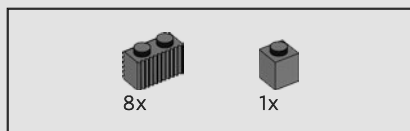
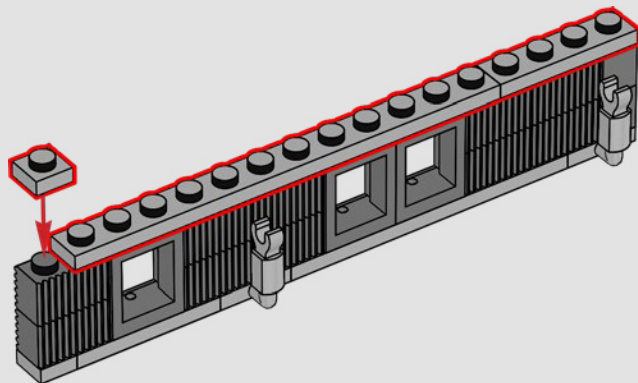


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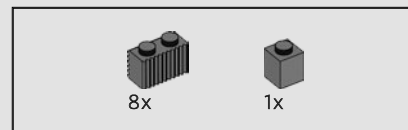
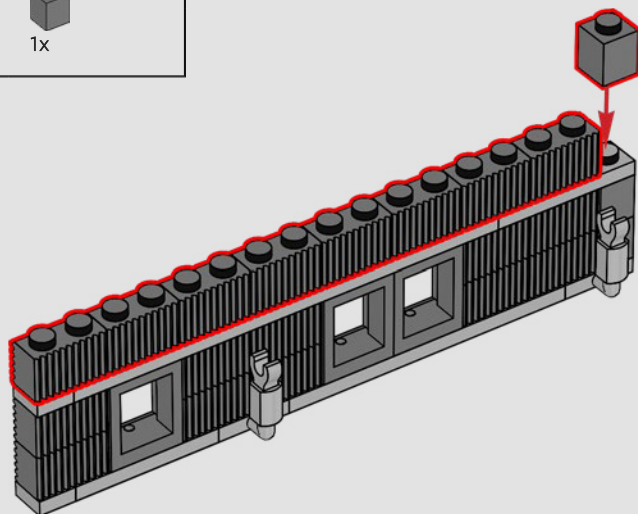




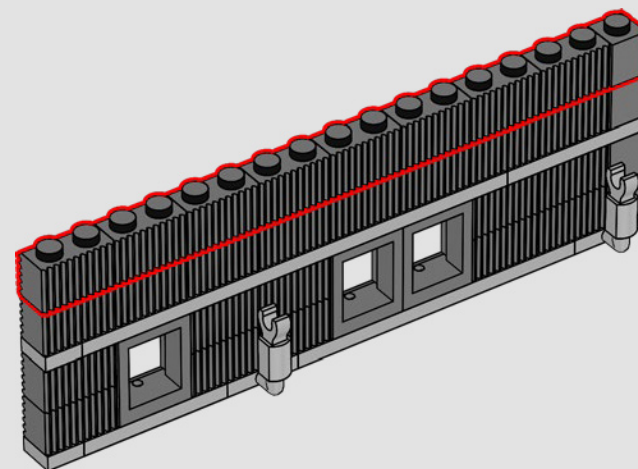
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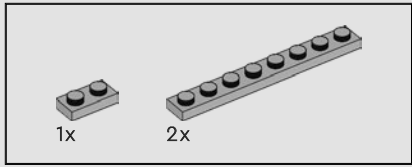


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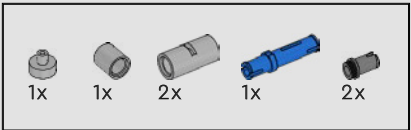
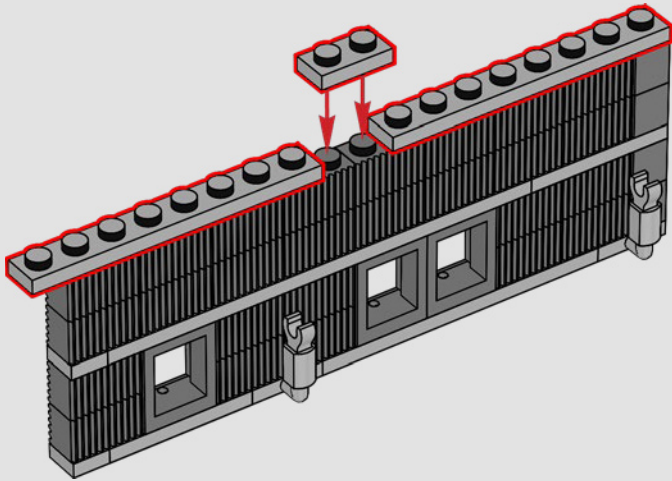


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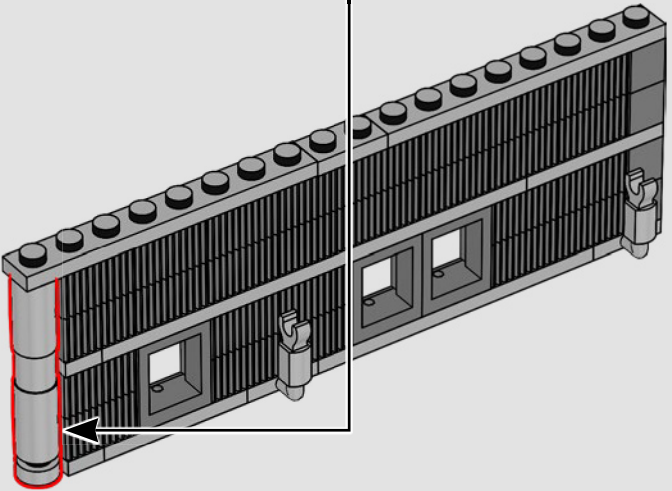
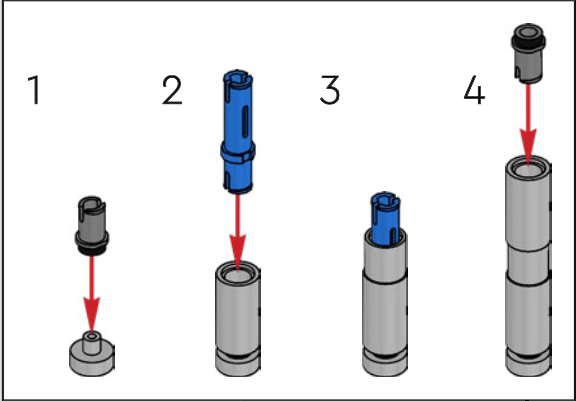




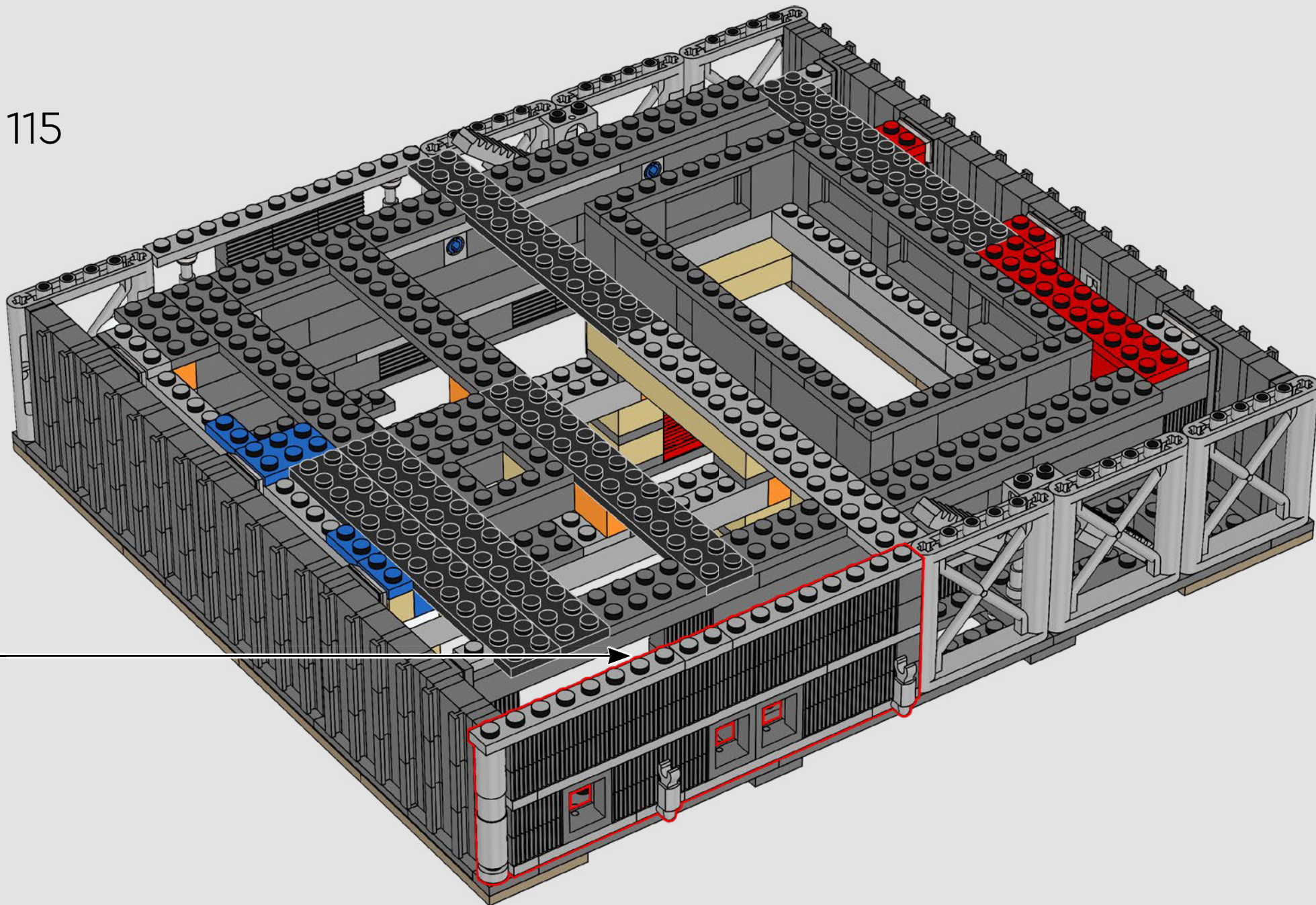
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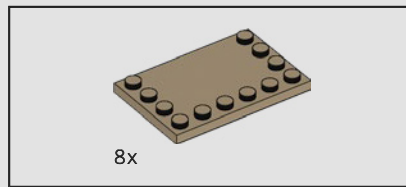


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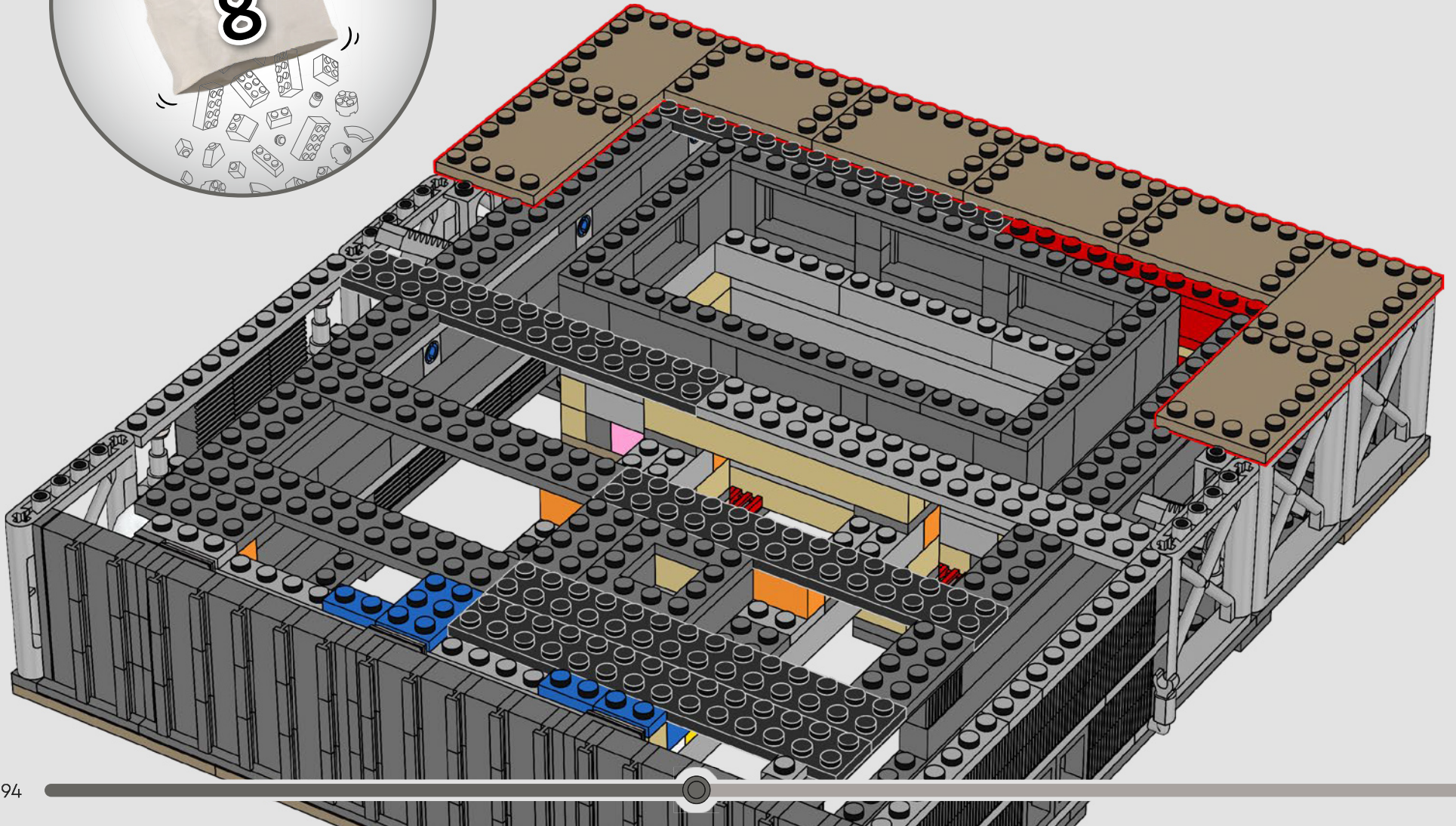


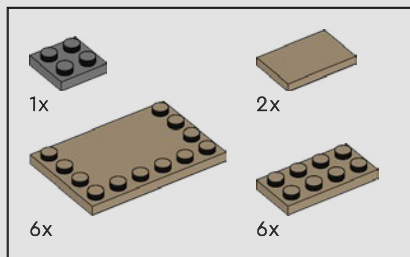
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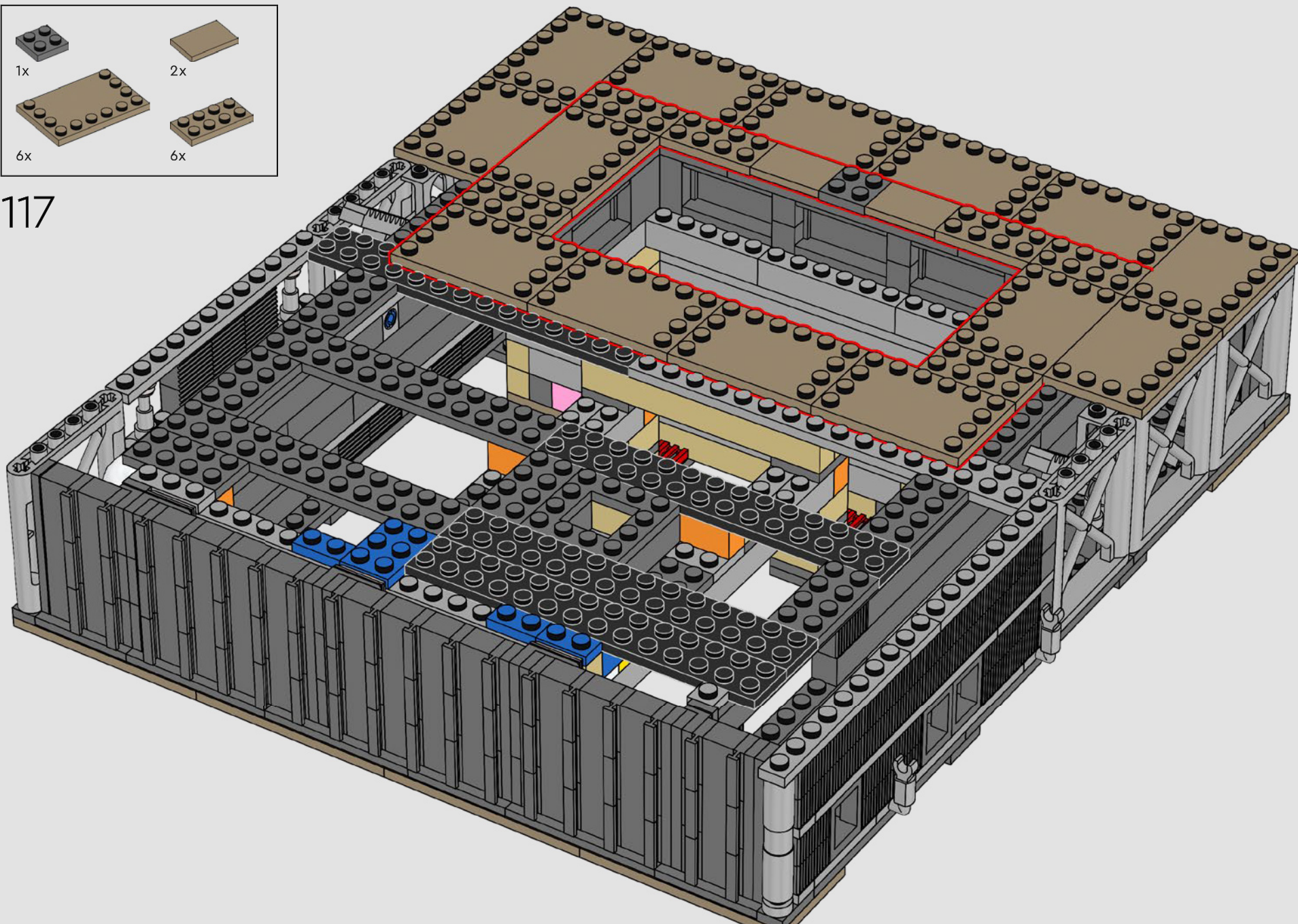


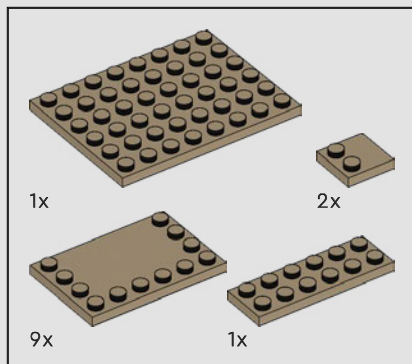
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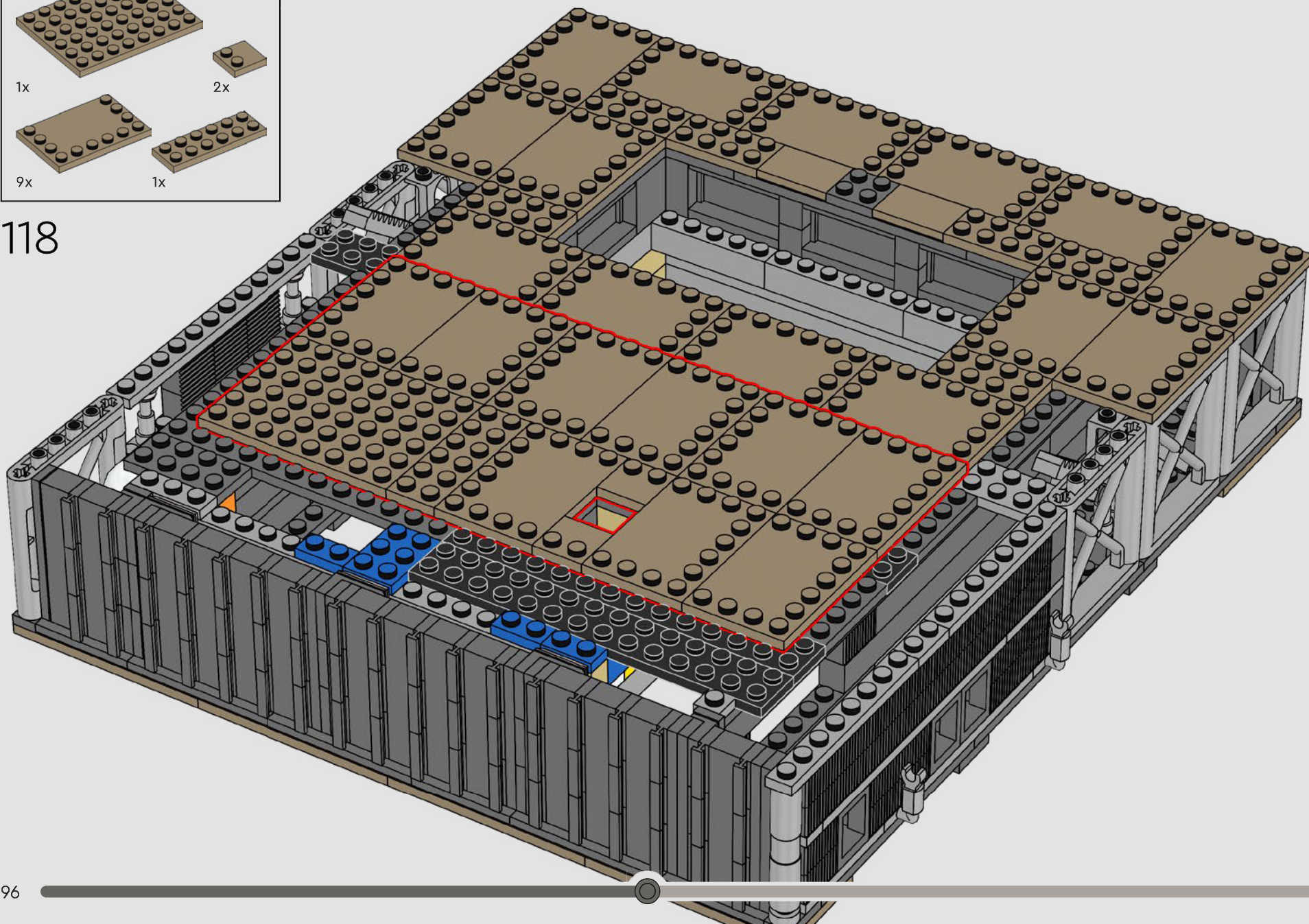


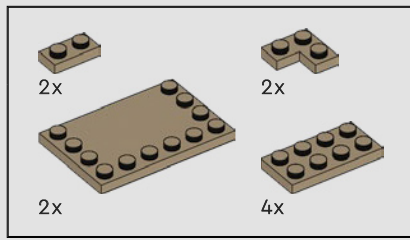
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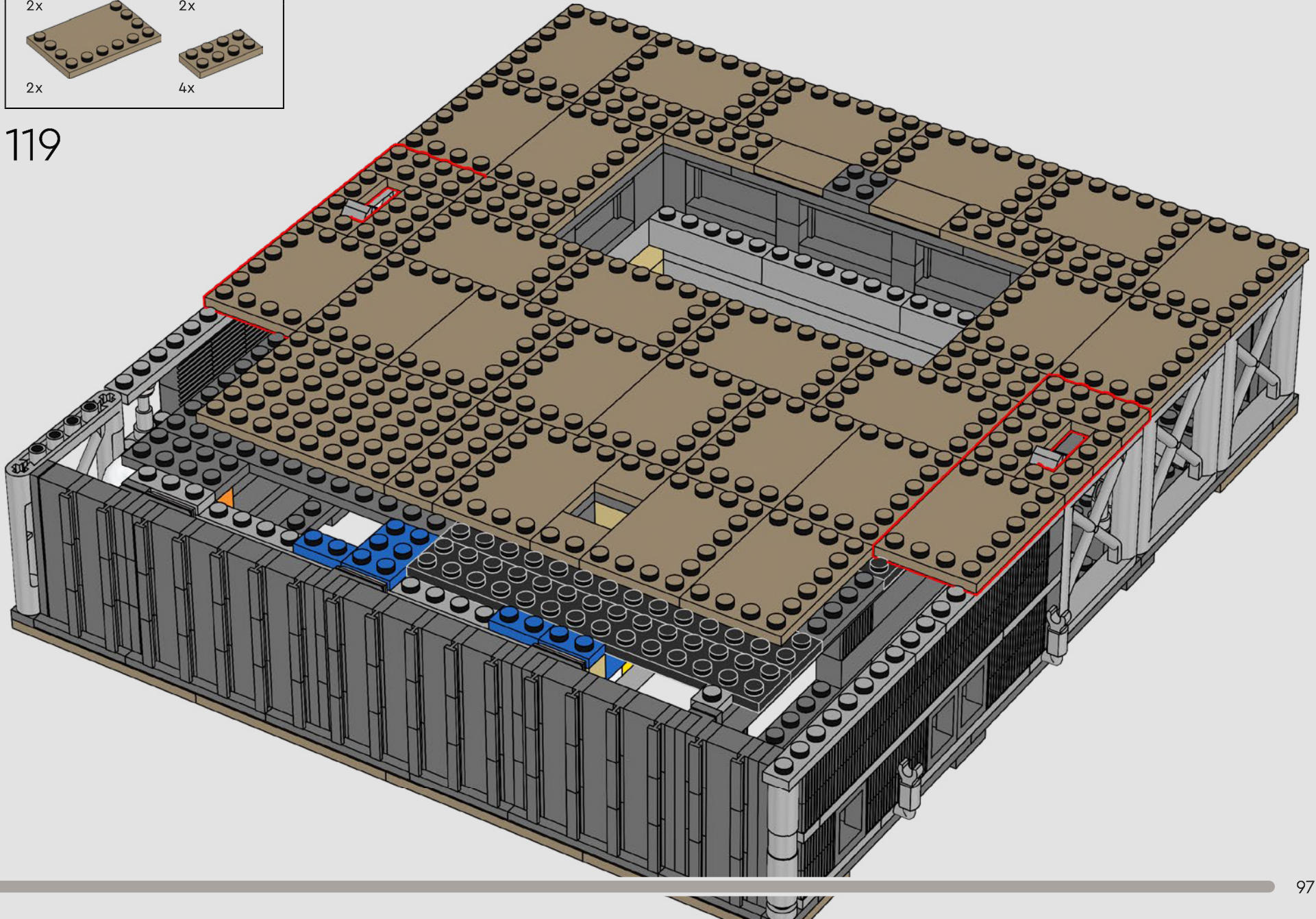


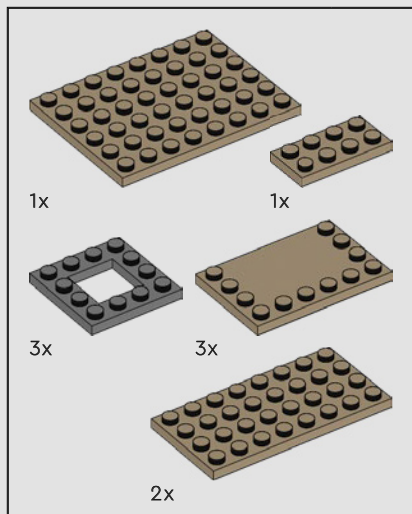
118



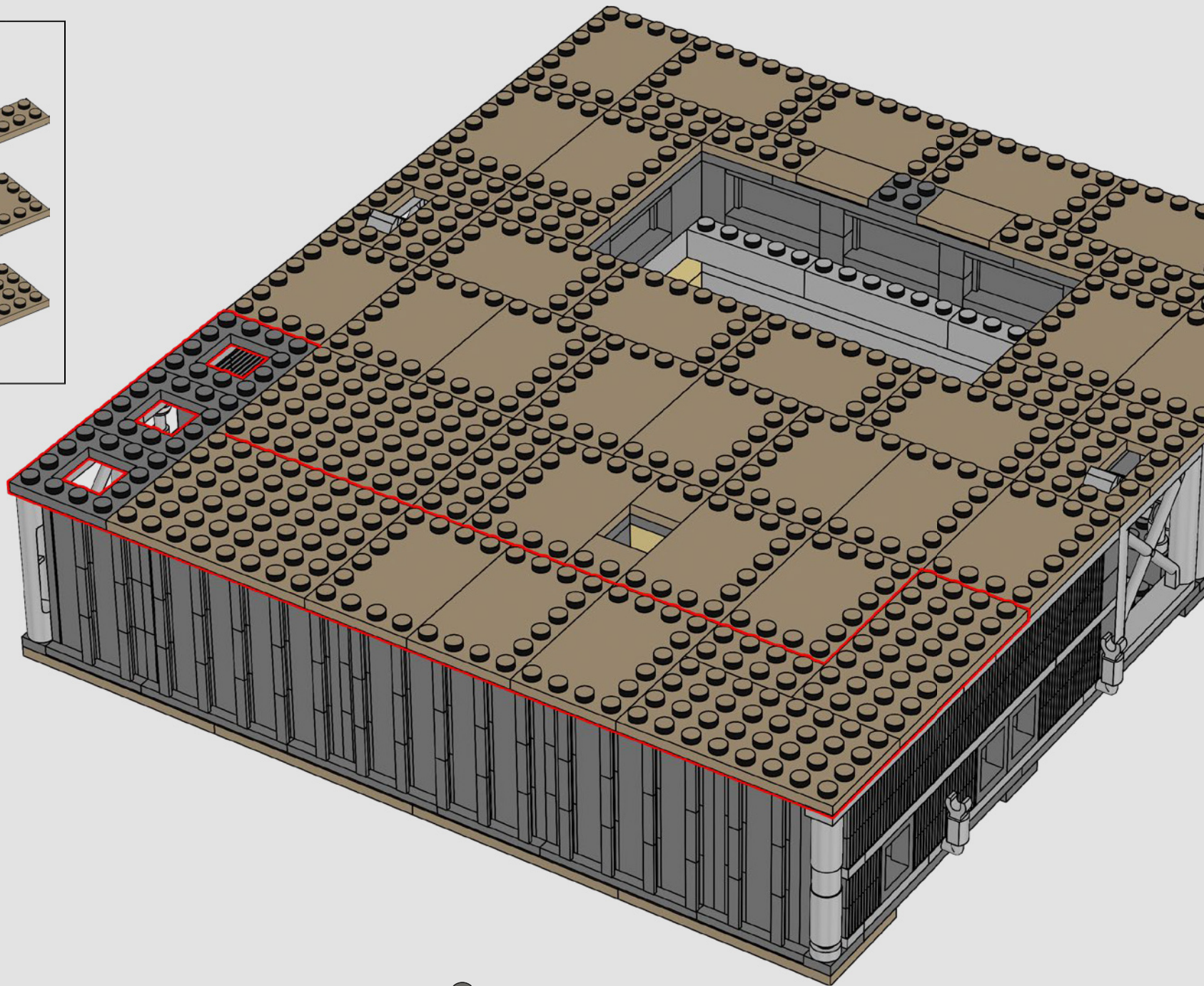


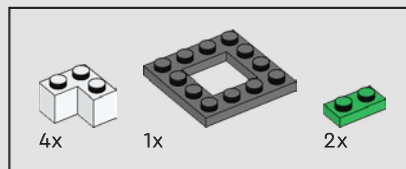
119



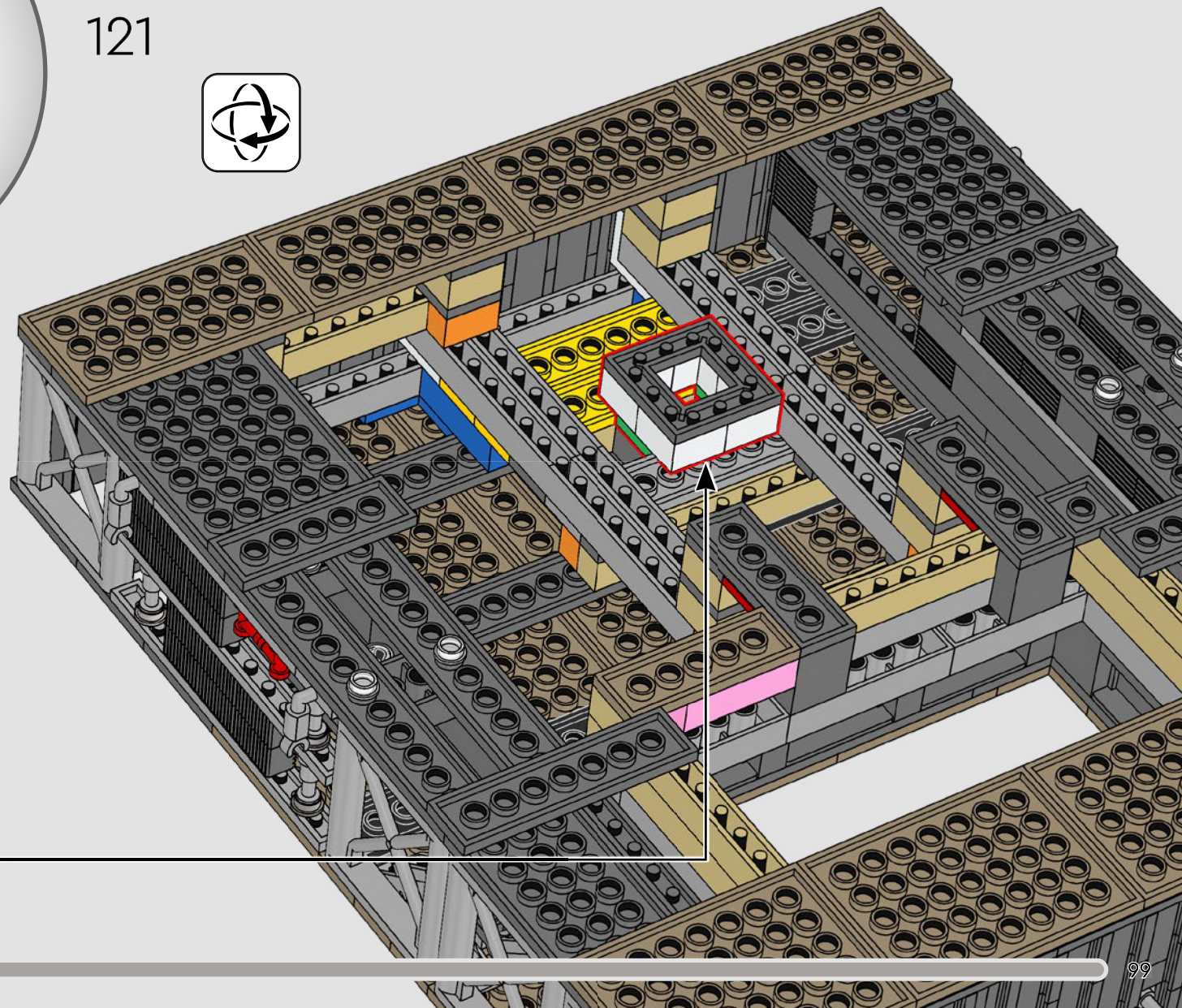
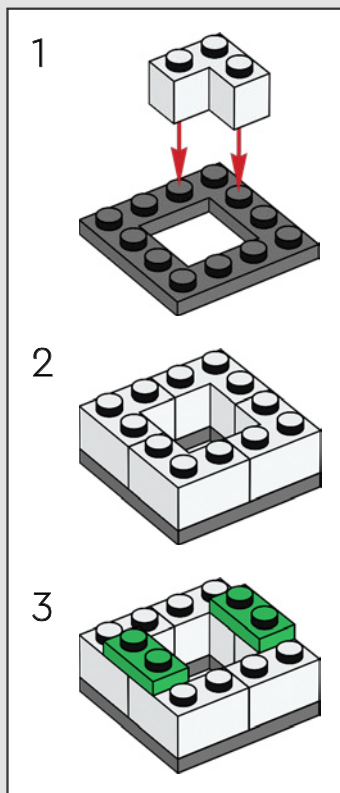


120



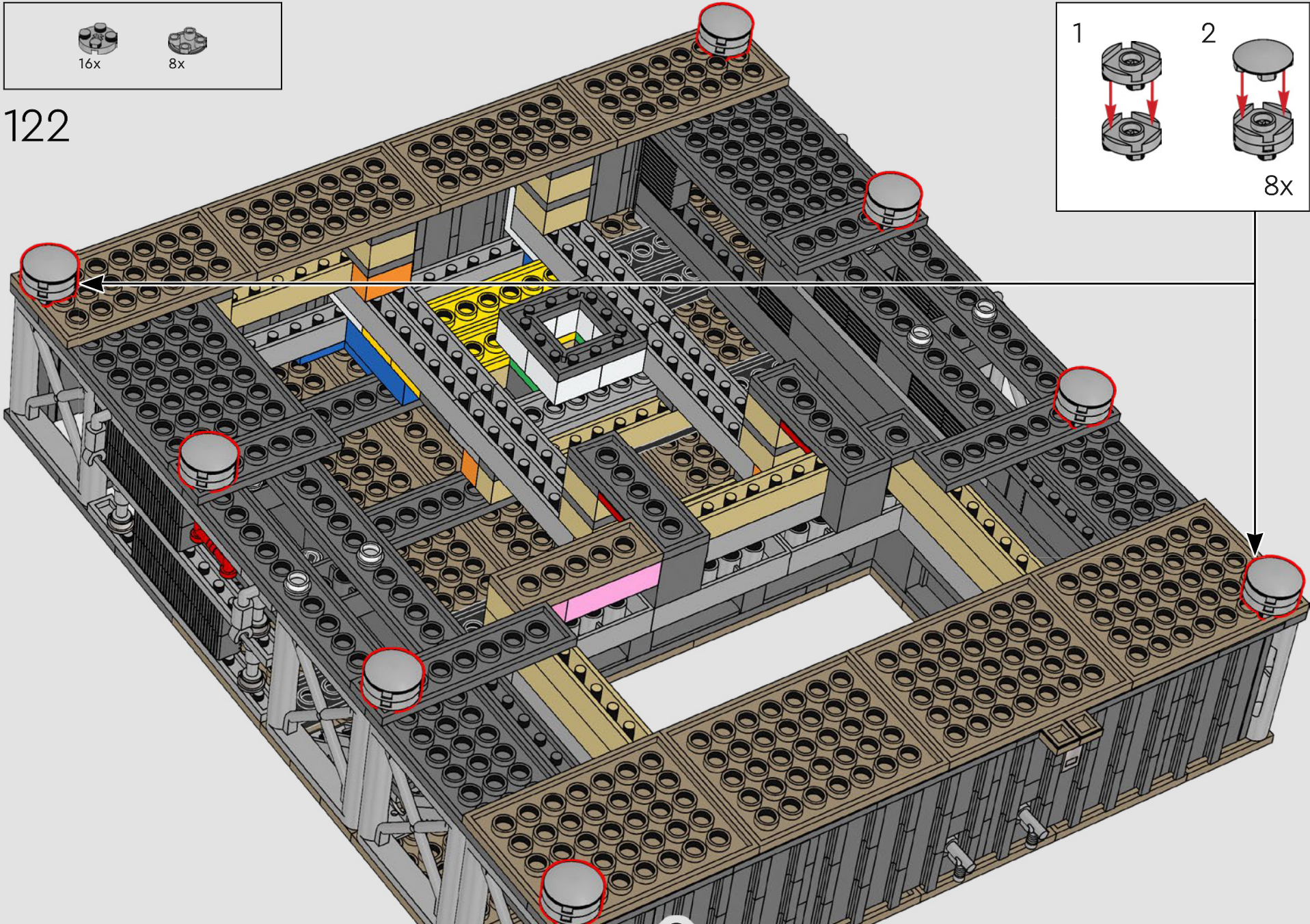
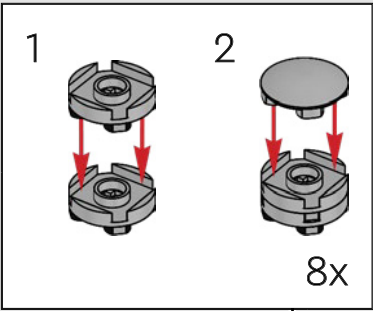


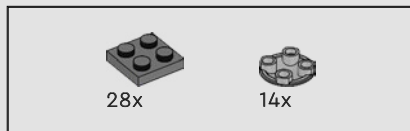
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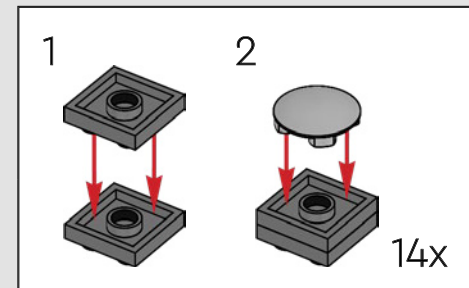
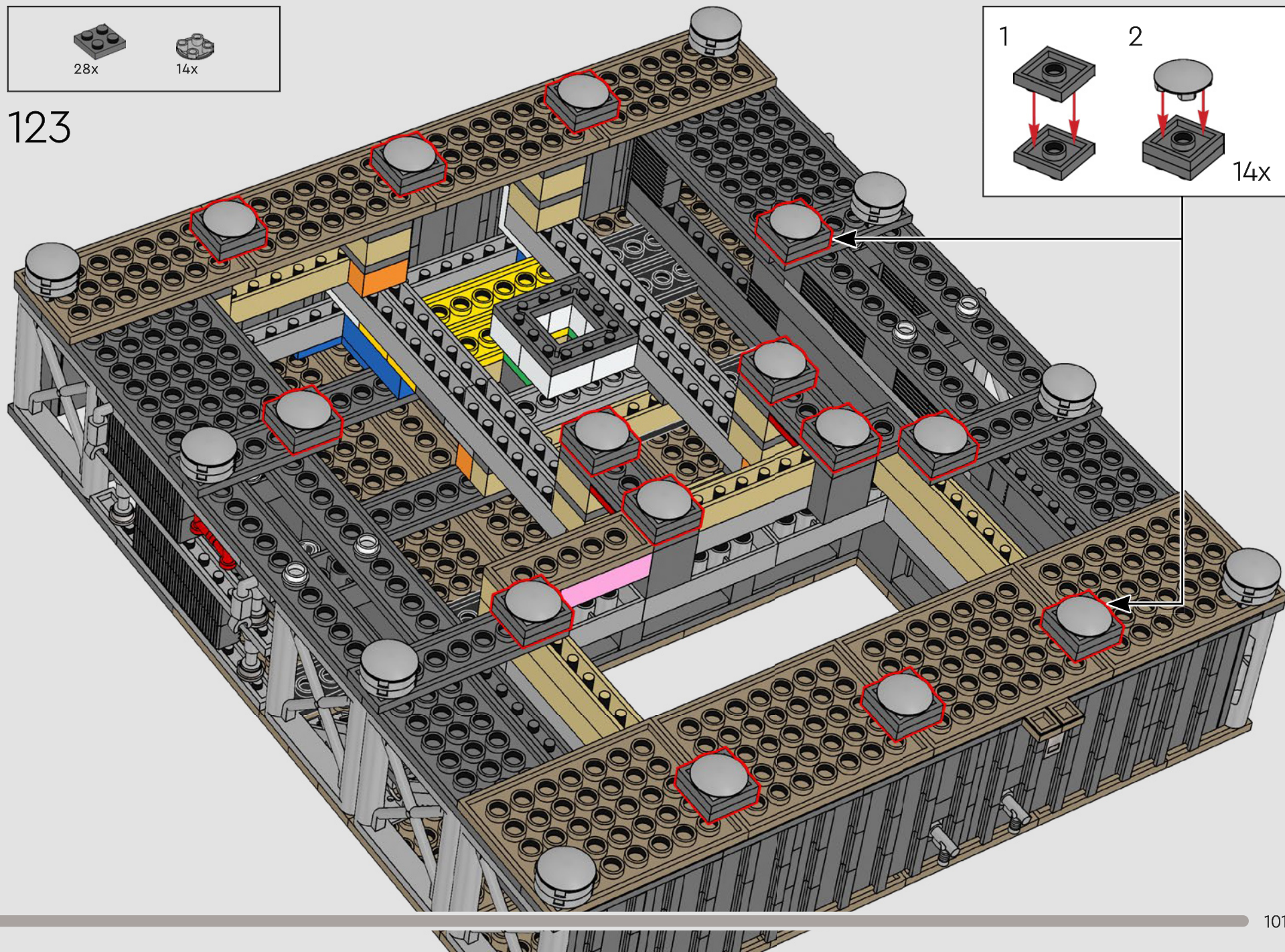


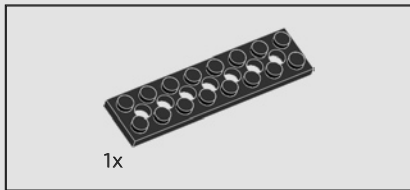
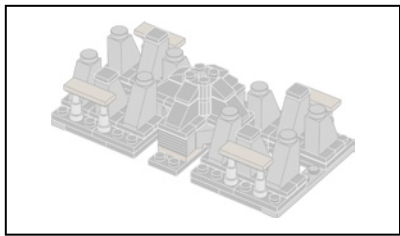
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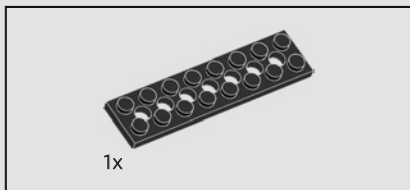


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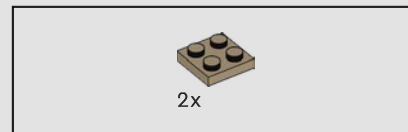
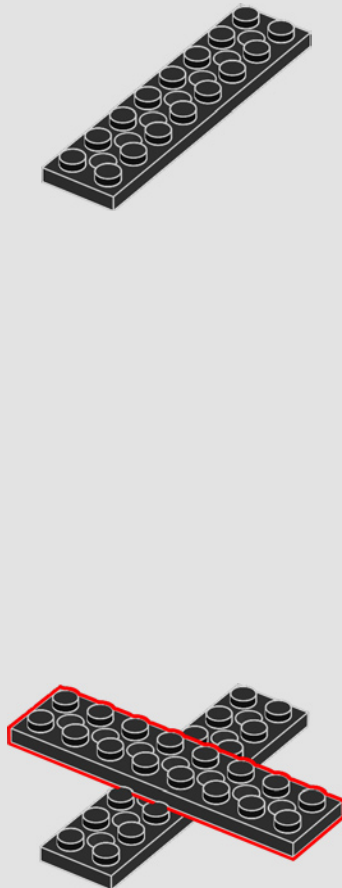




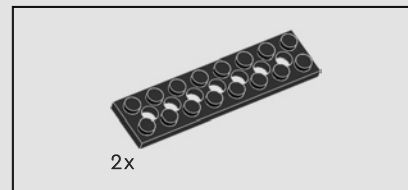
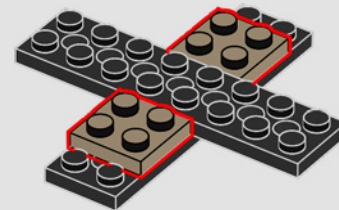
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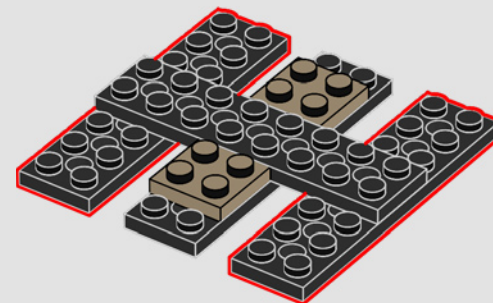
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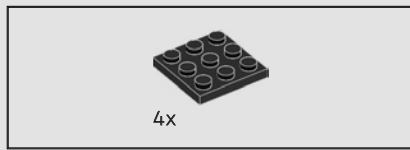


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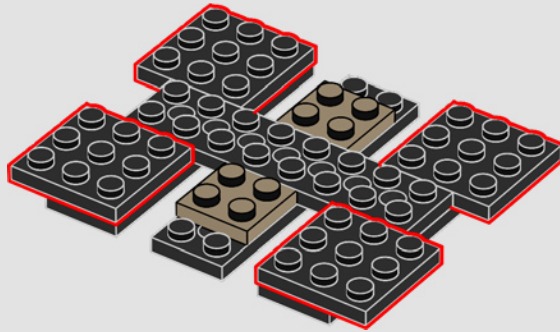


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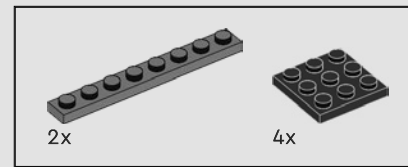
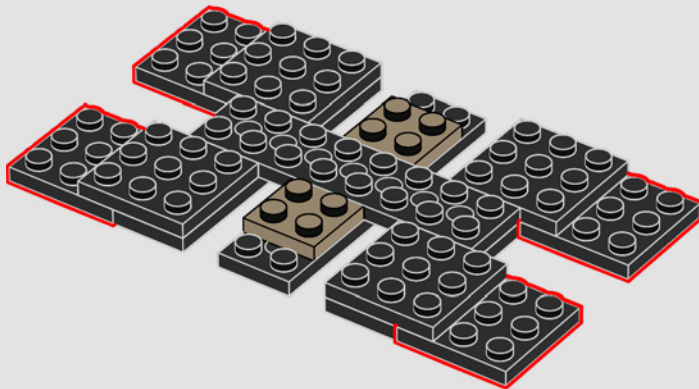




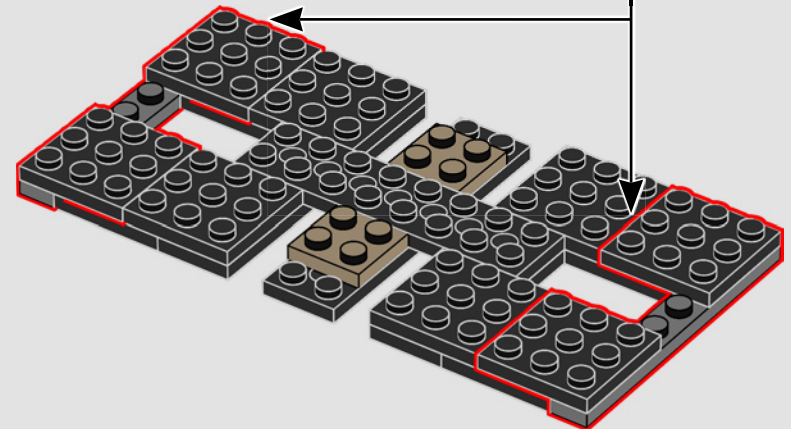
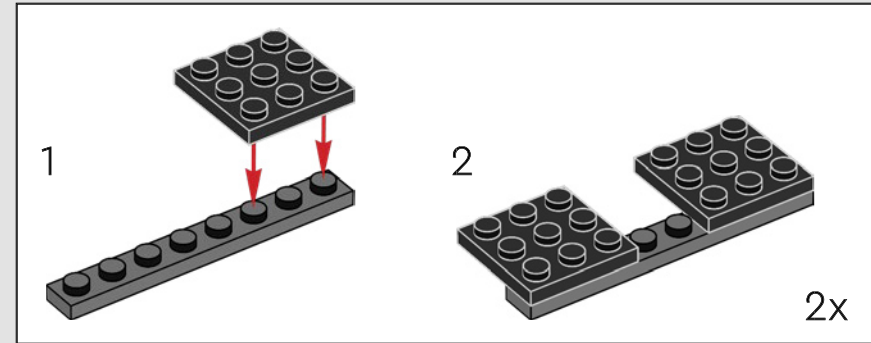
128



129



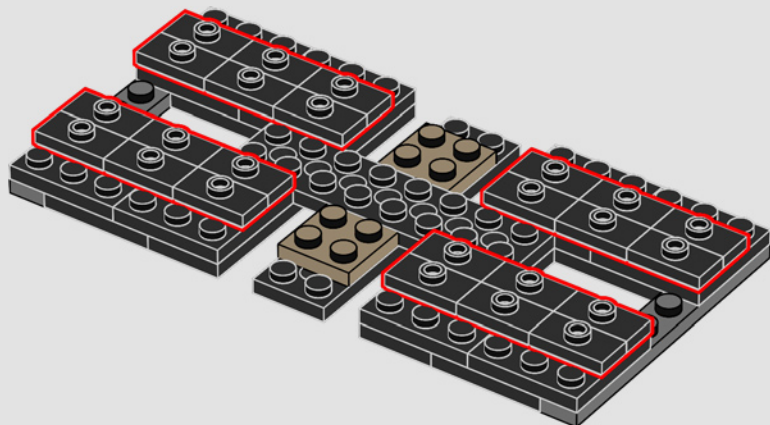
130





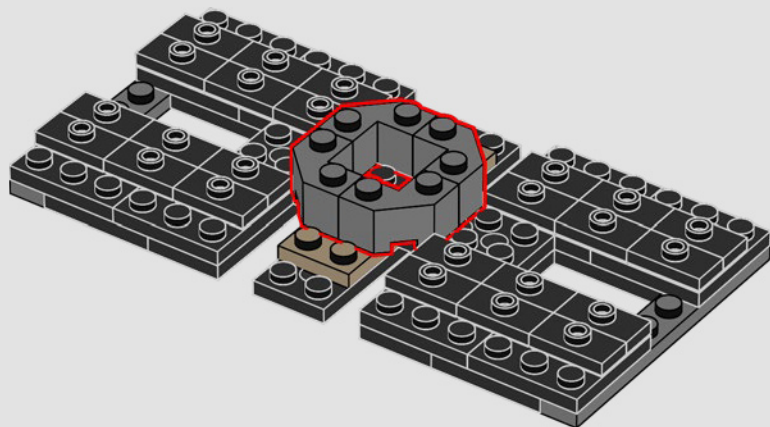
24x

131



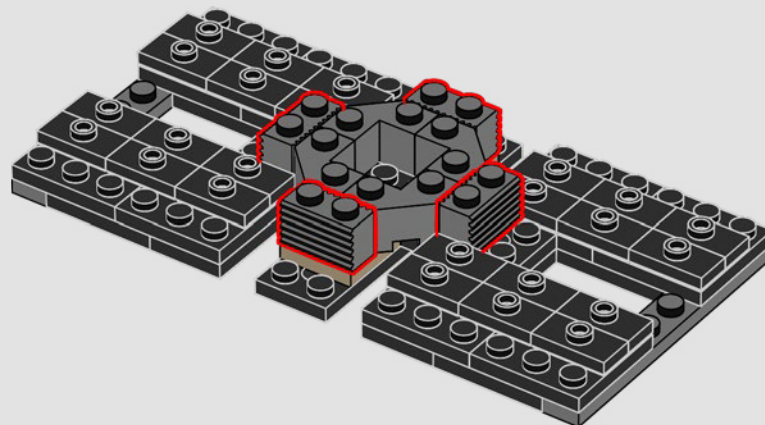
4x

132



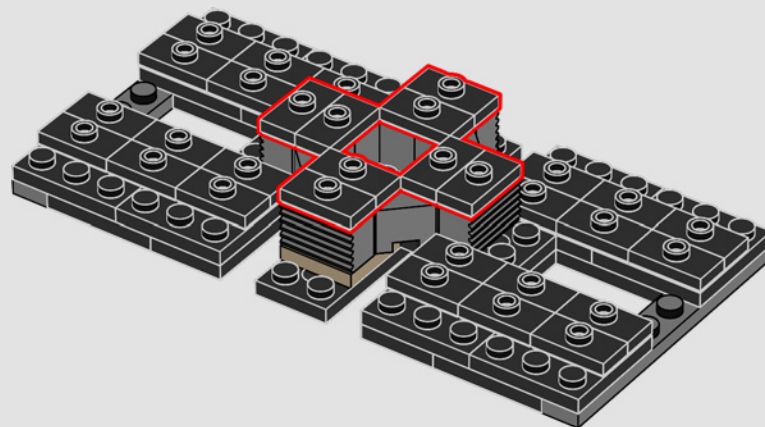
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133



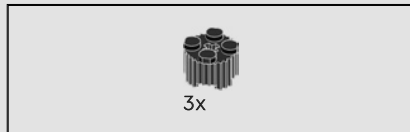
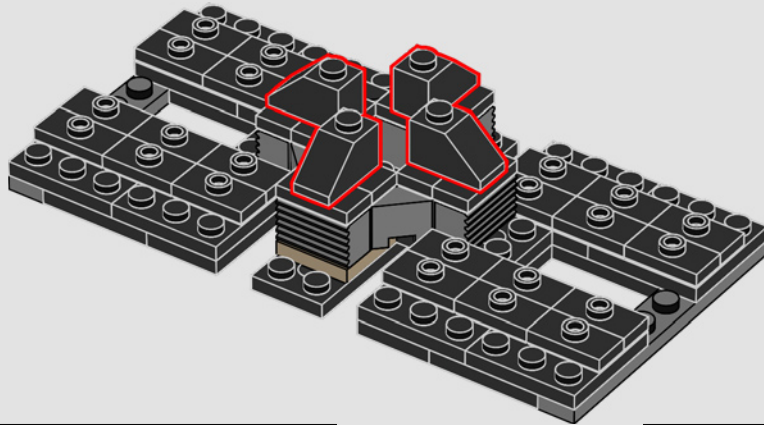
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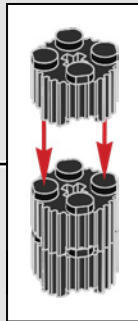
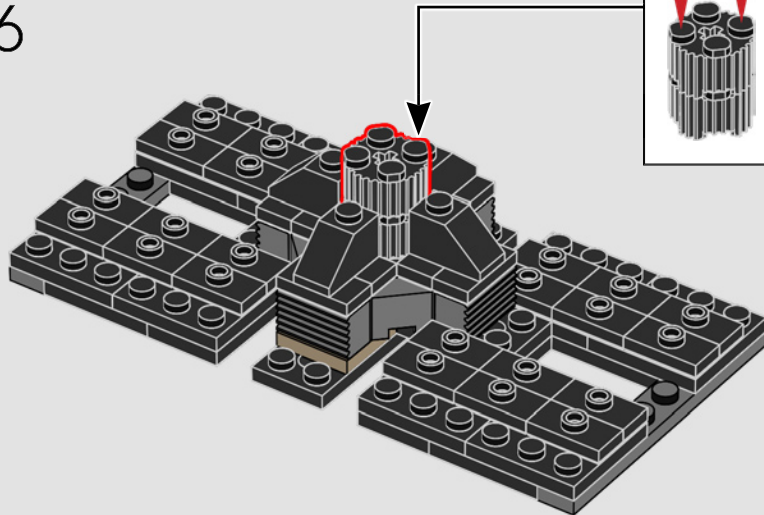




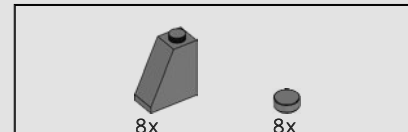
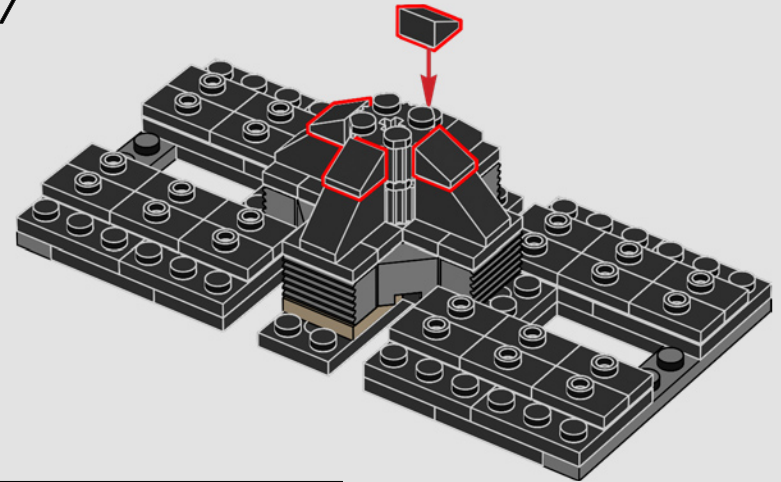
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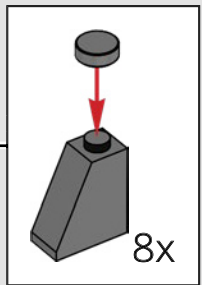
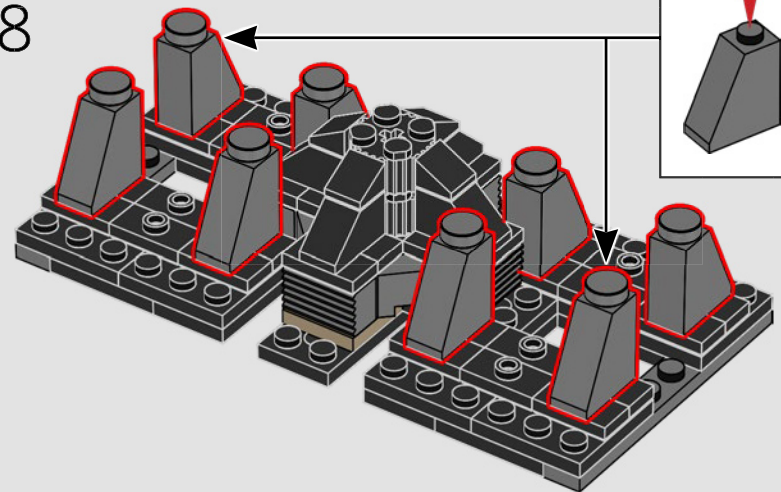
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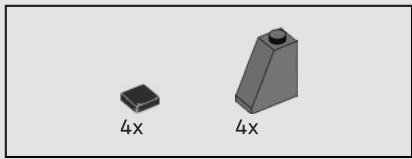


137

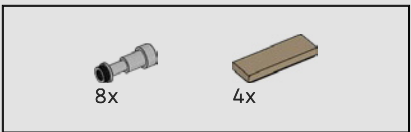
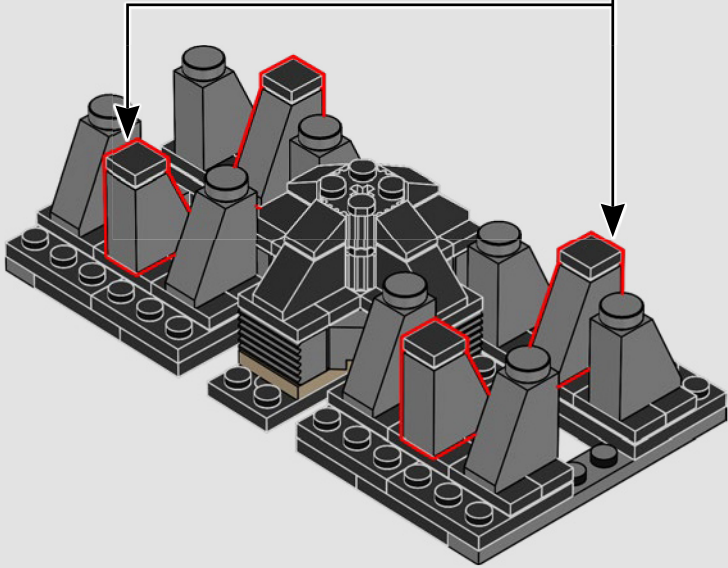
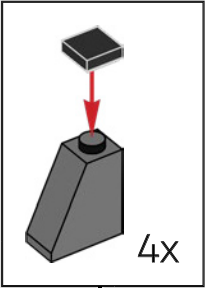


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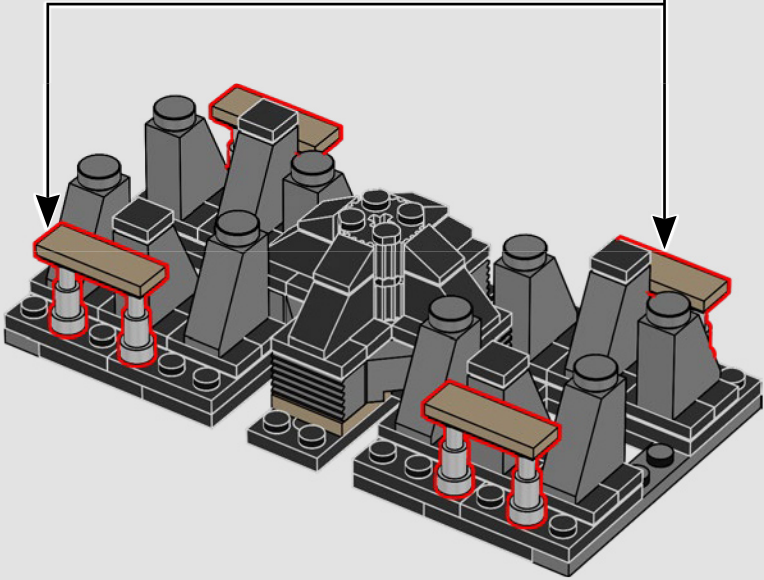
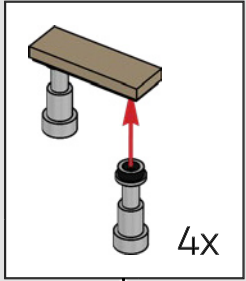




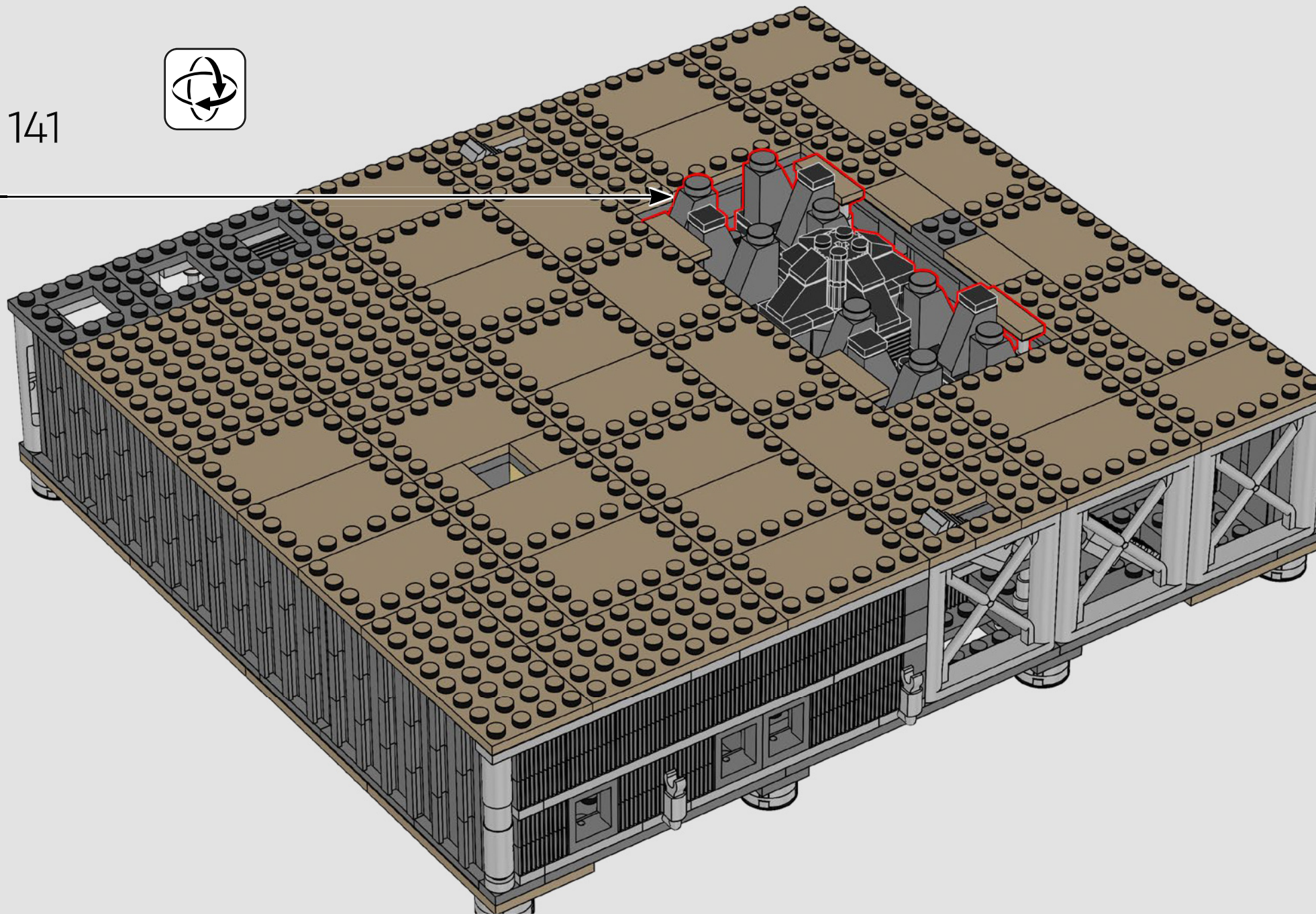
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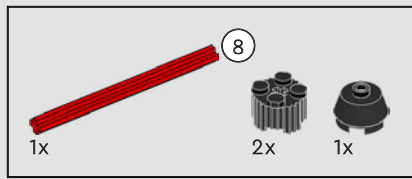


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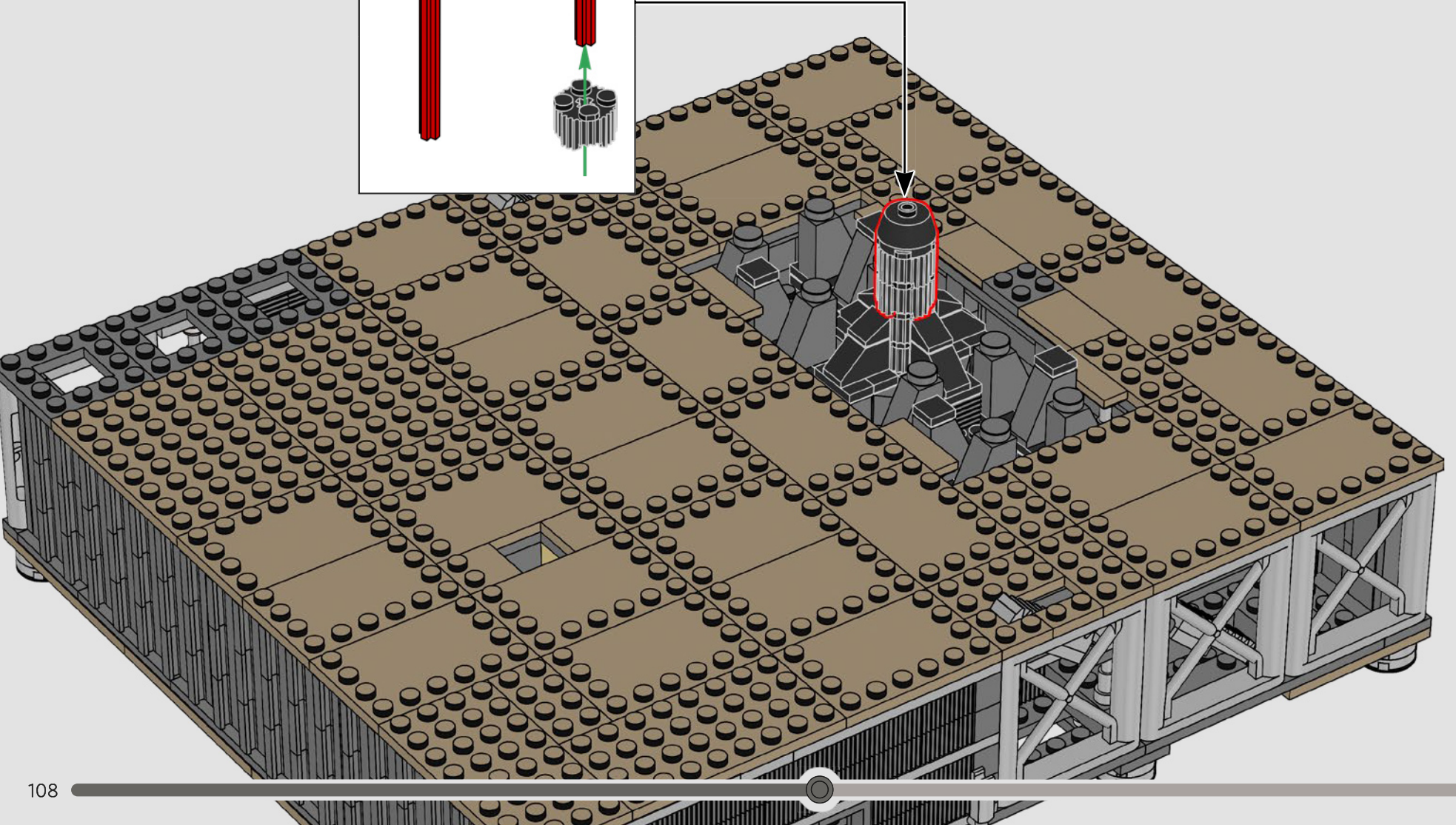
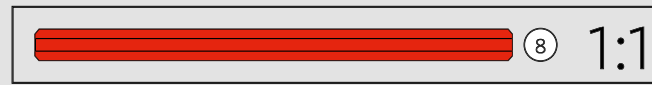
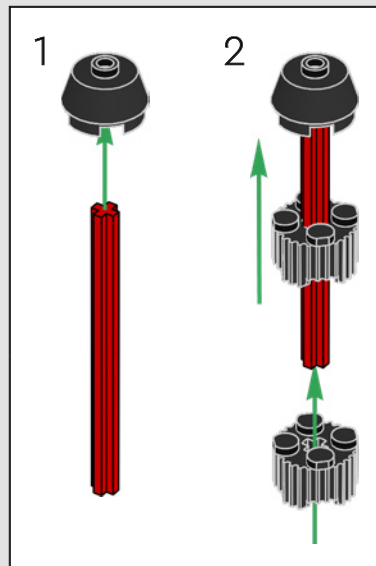


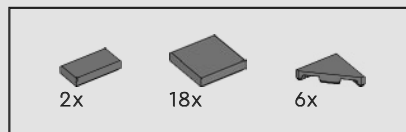
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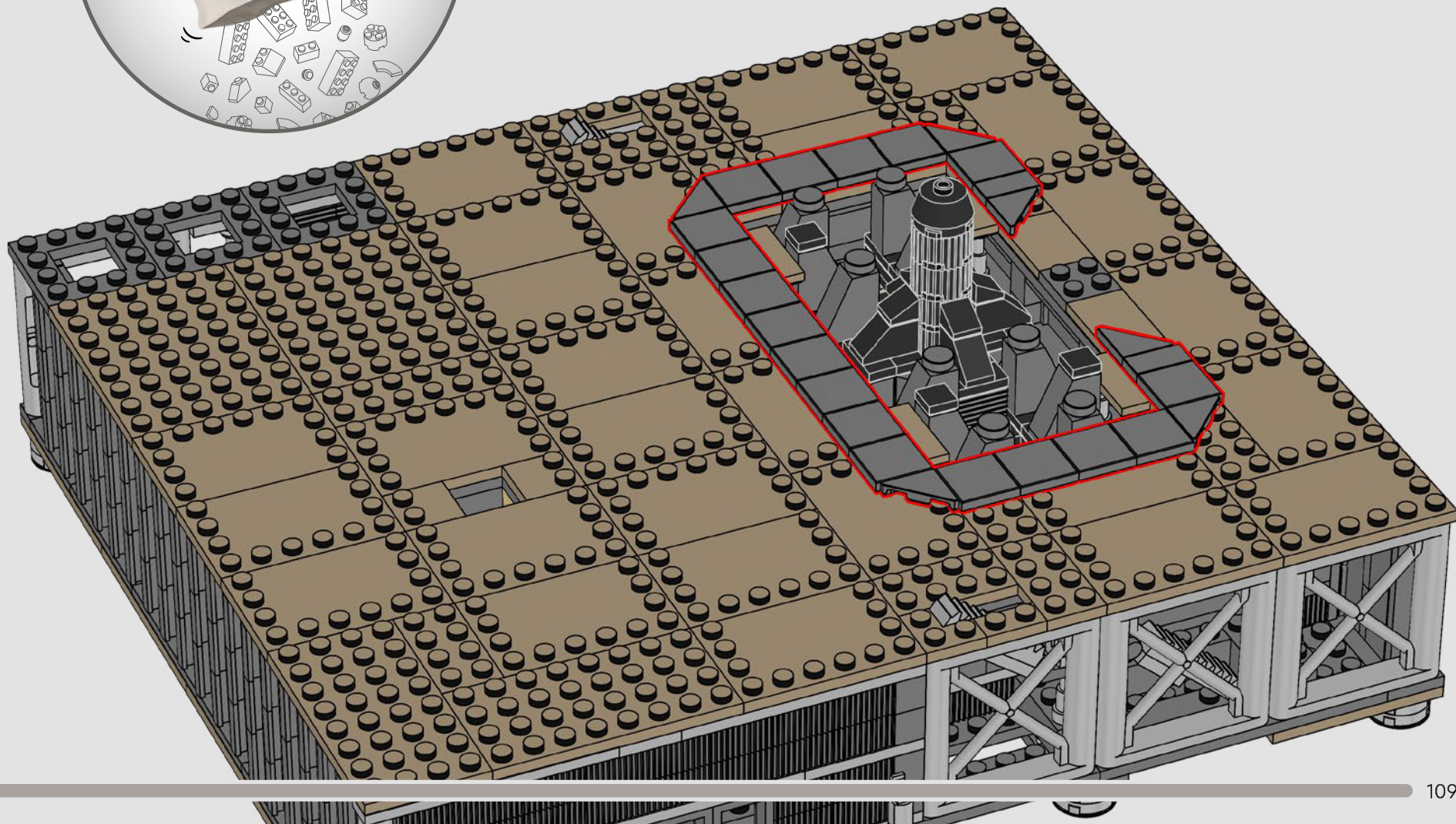


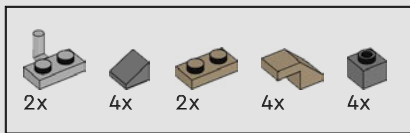
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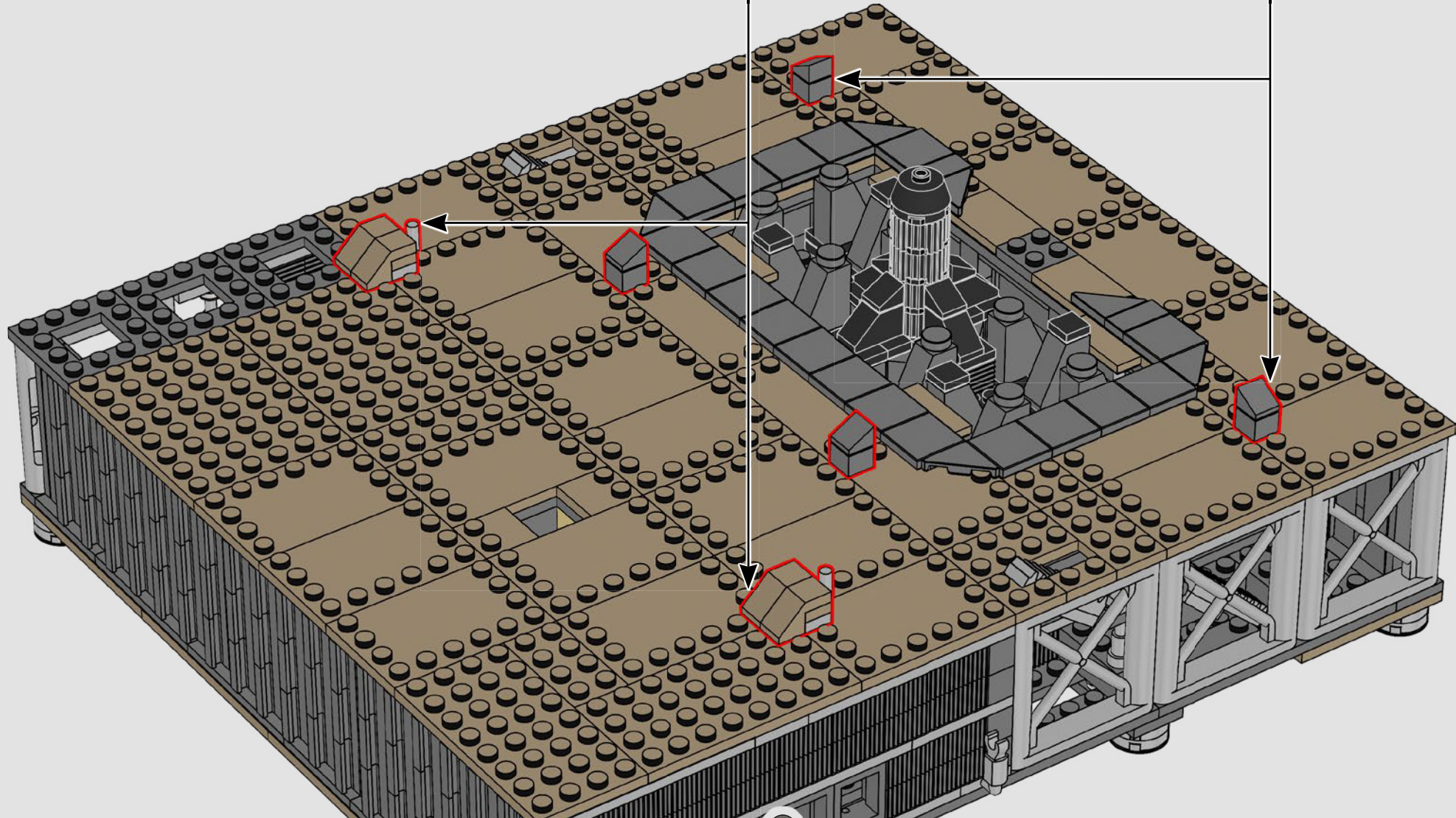
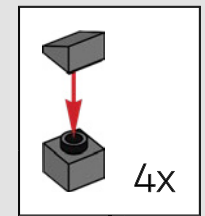
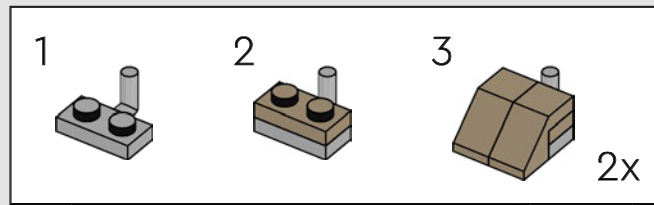


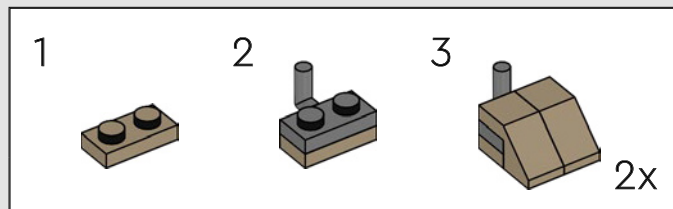
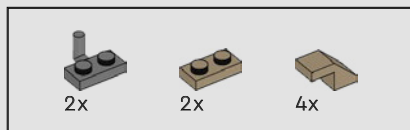
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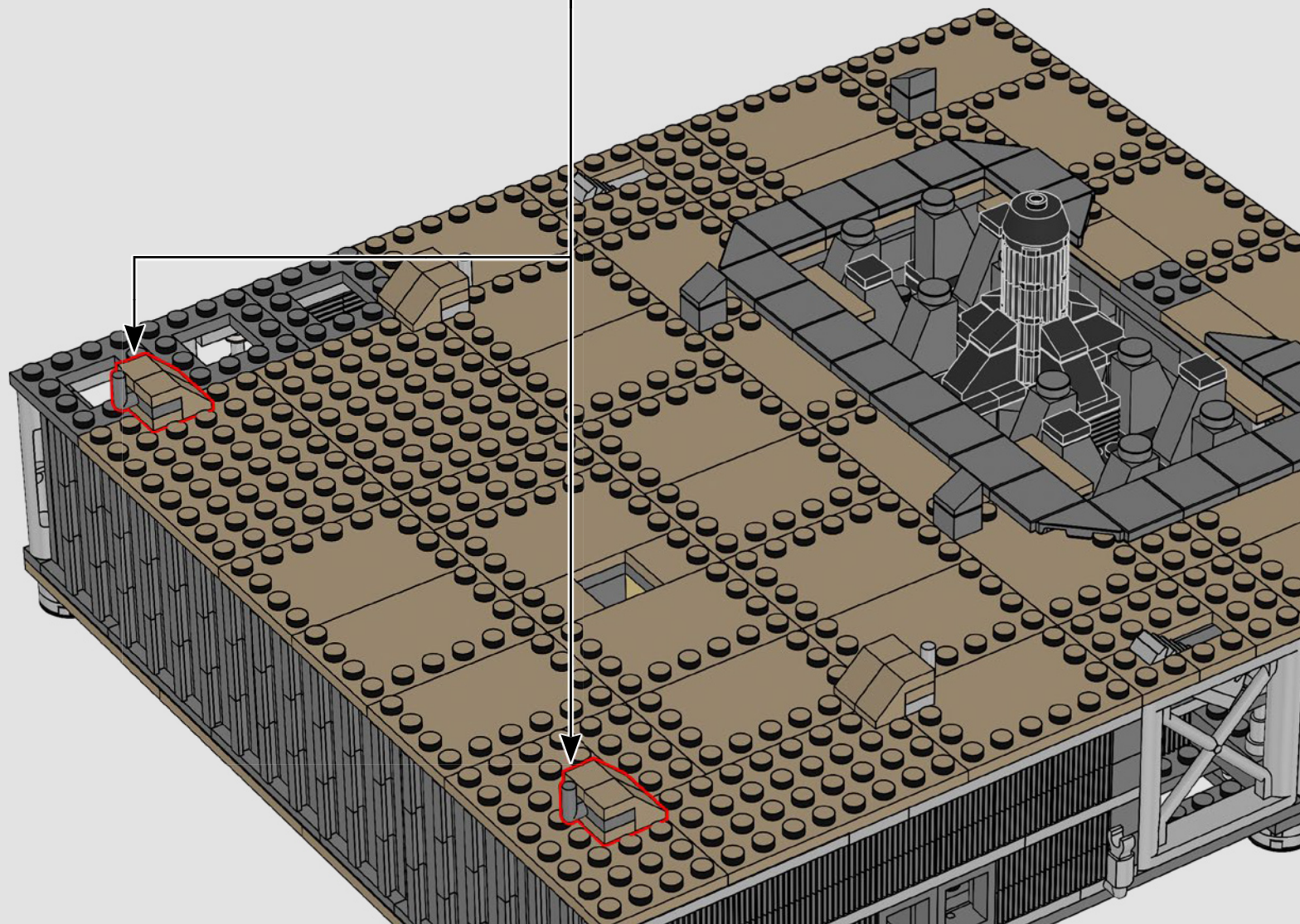


144





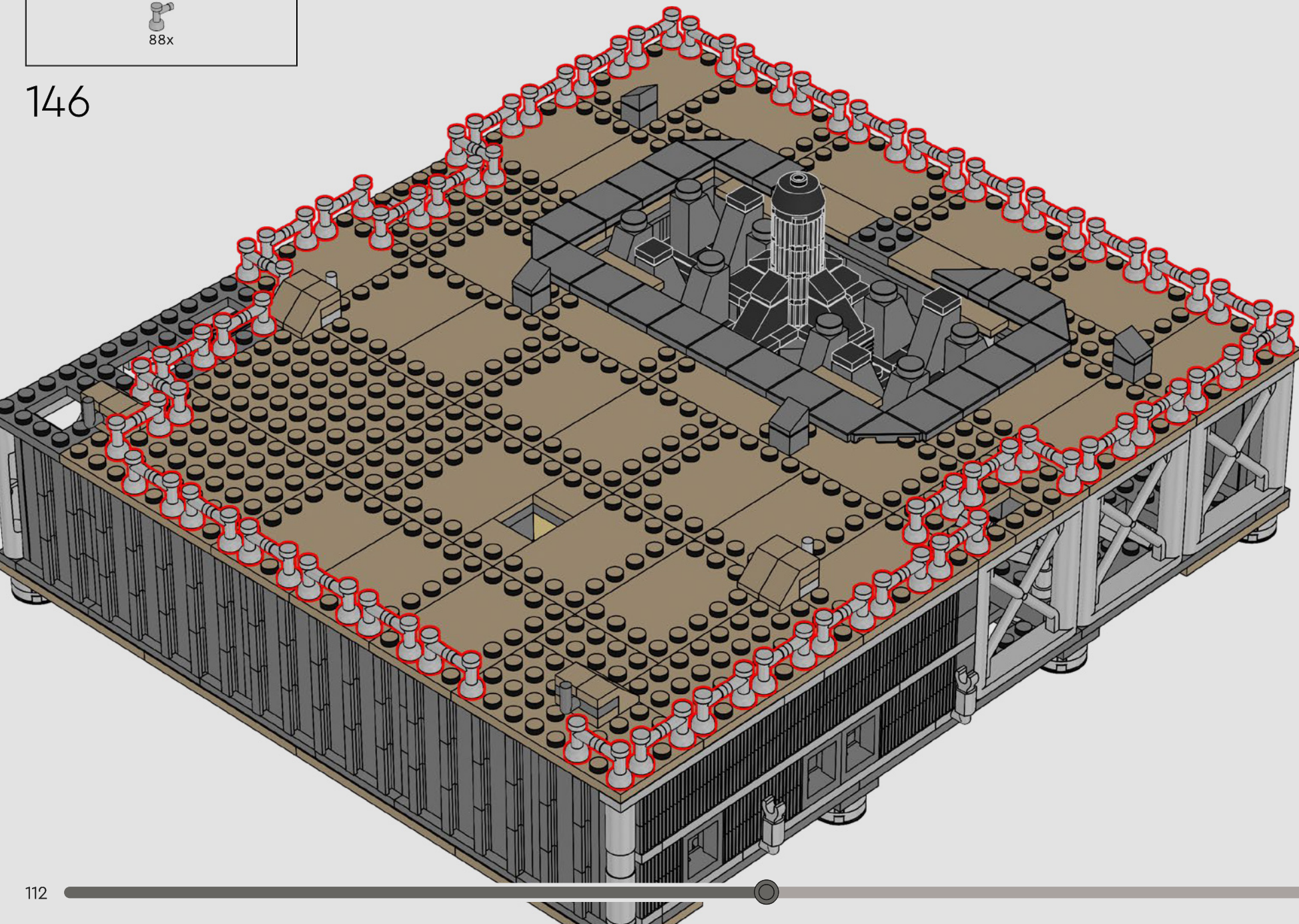
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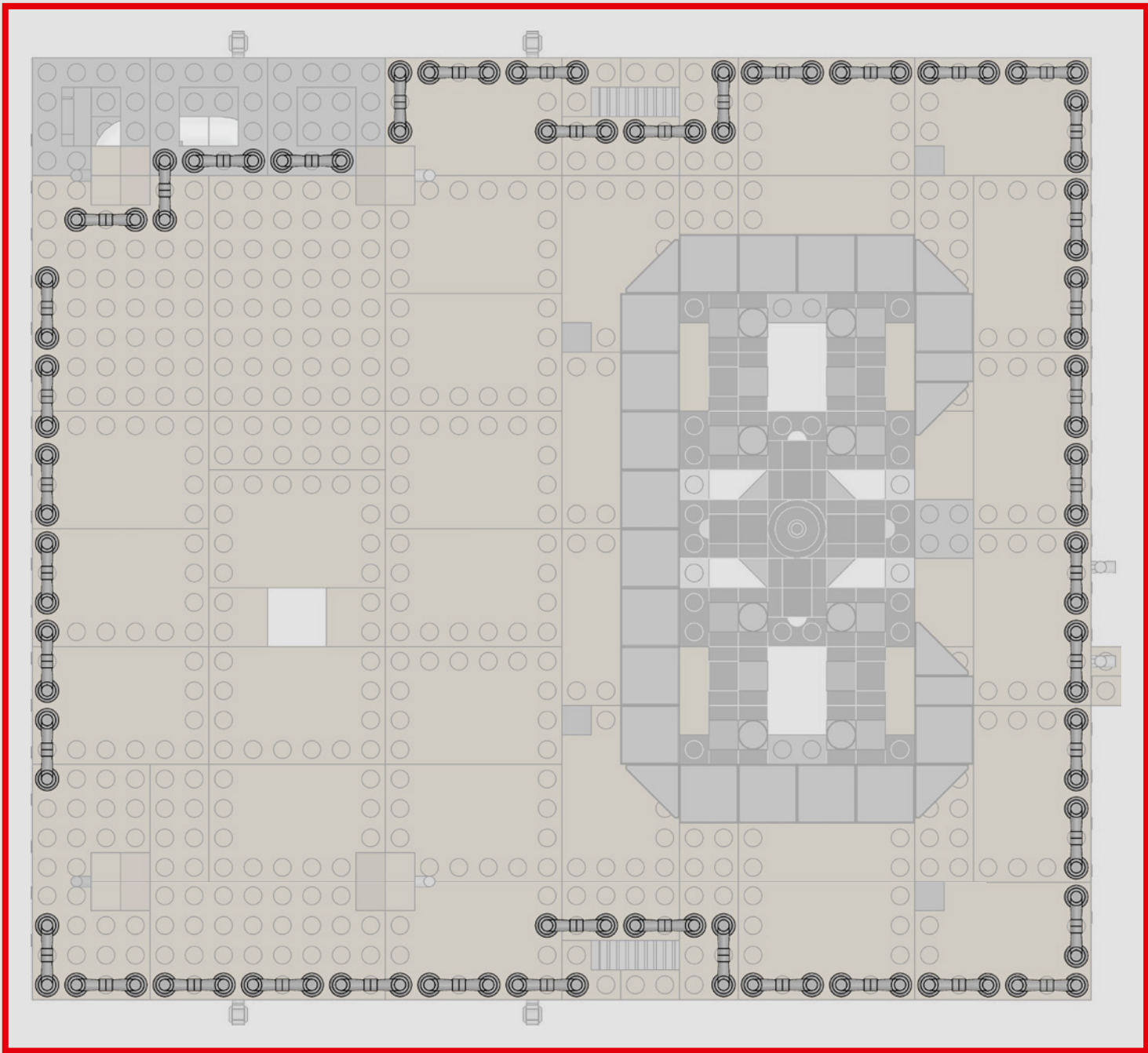


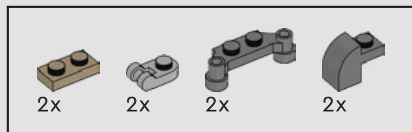


88x

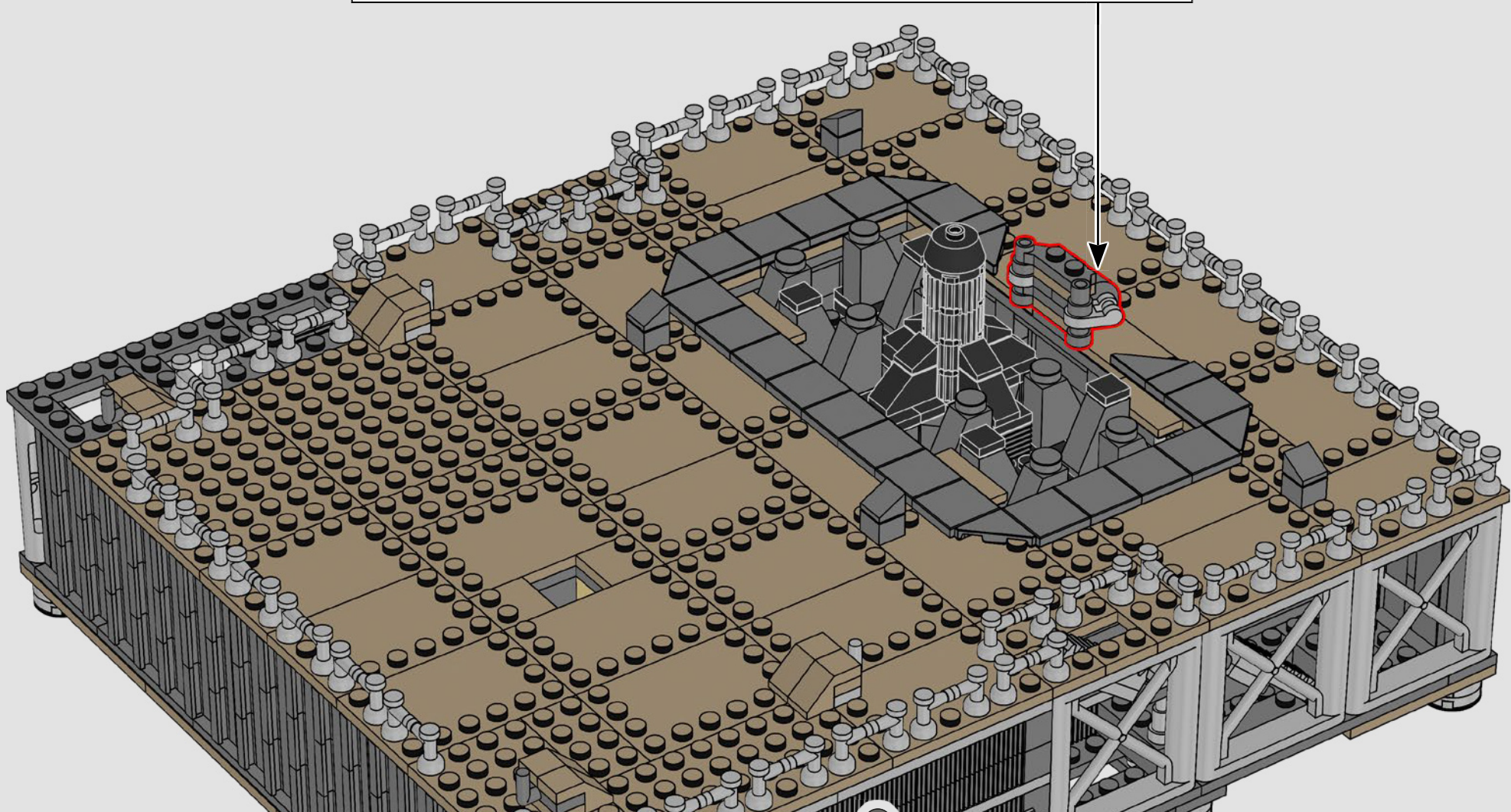
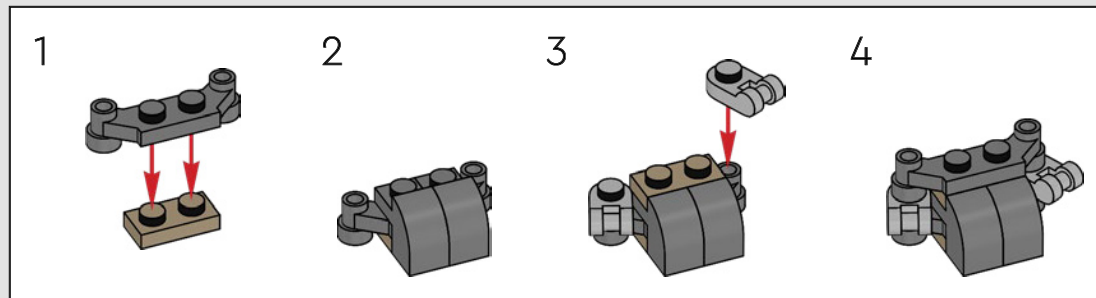
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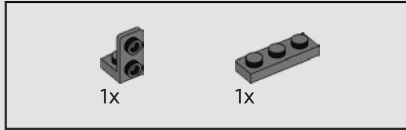
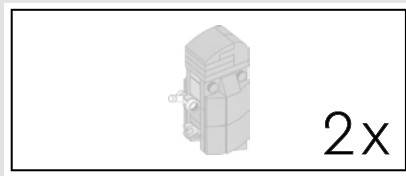




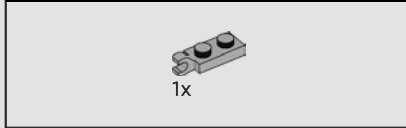
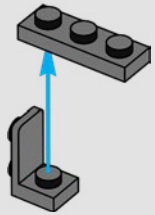


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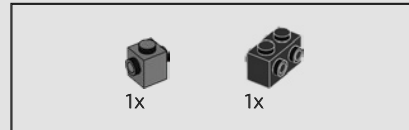
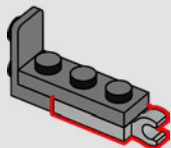




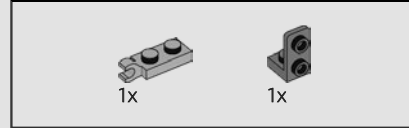
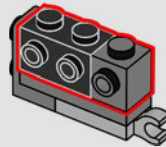
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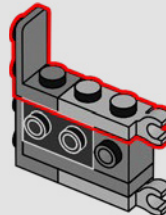
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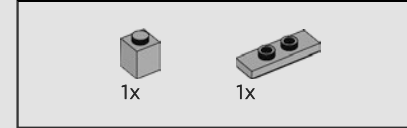
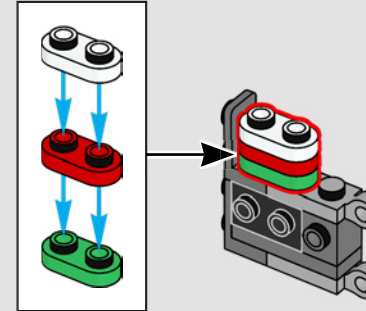
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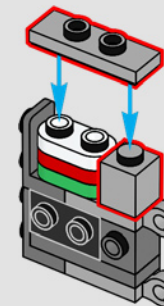
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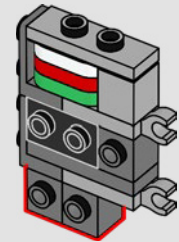
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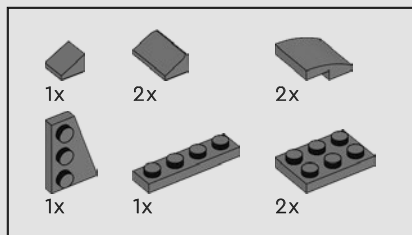
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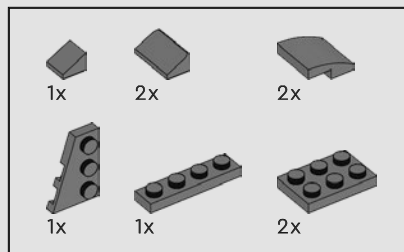
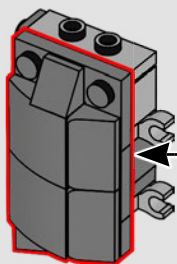
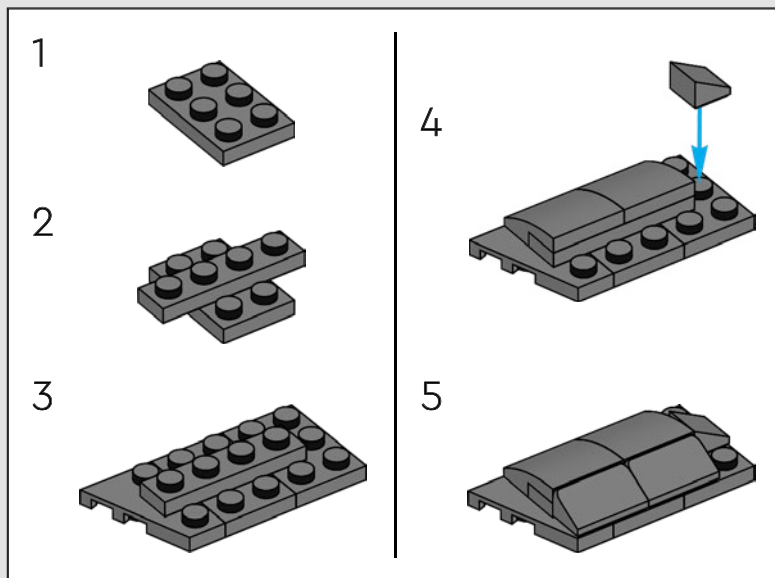
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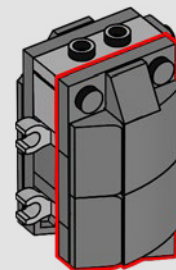
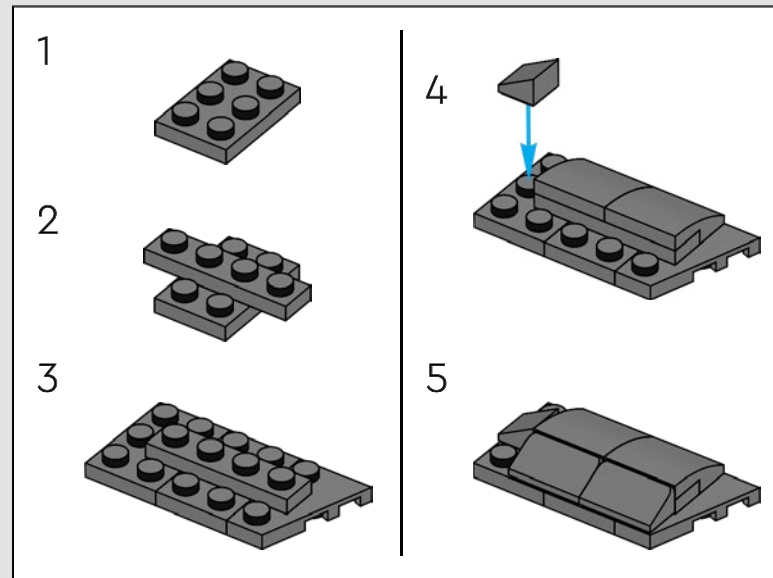
Eine LEGO® Rakete muss natürlich nach LEGO Art angetrieben werden. Die aufeinandergesteckten runden 1x2 Platten in der „Tanksäule“ vor der Rakete blicken auf eine lange LEGO Geschichte zurück!

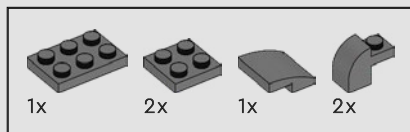


155

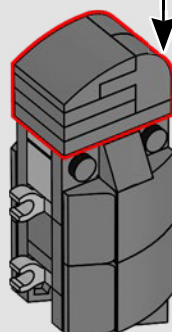
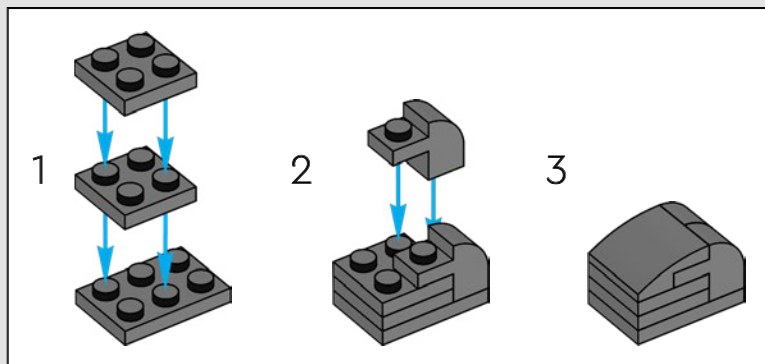


156

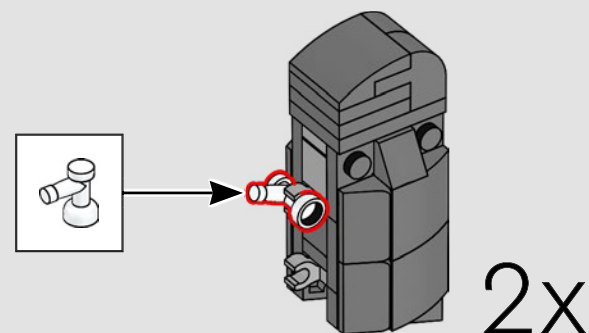




157

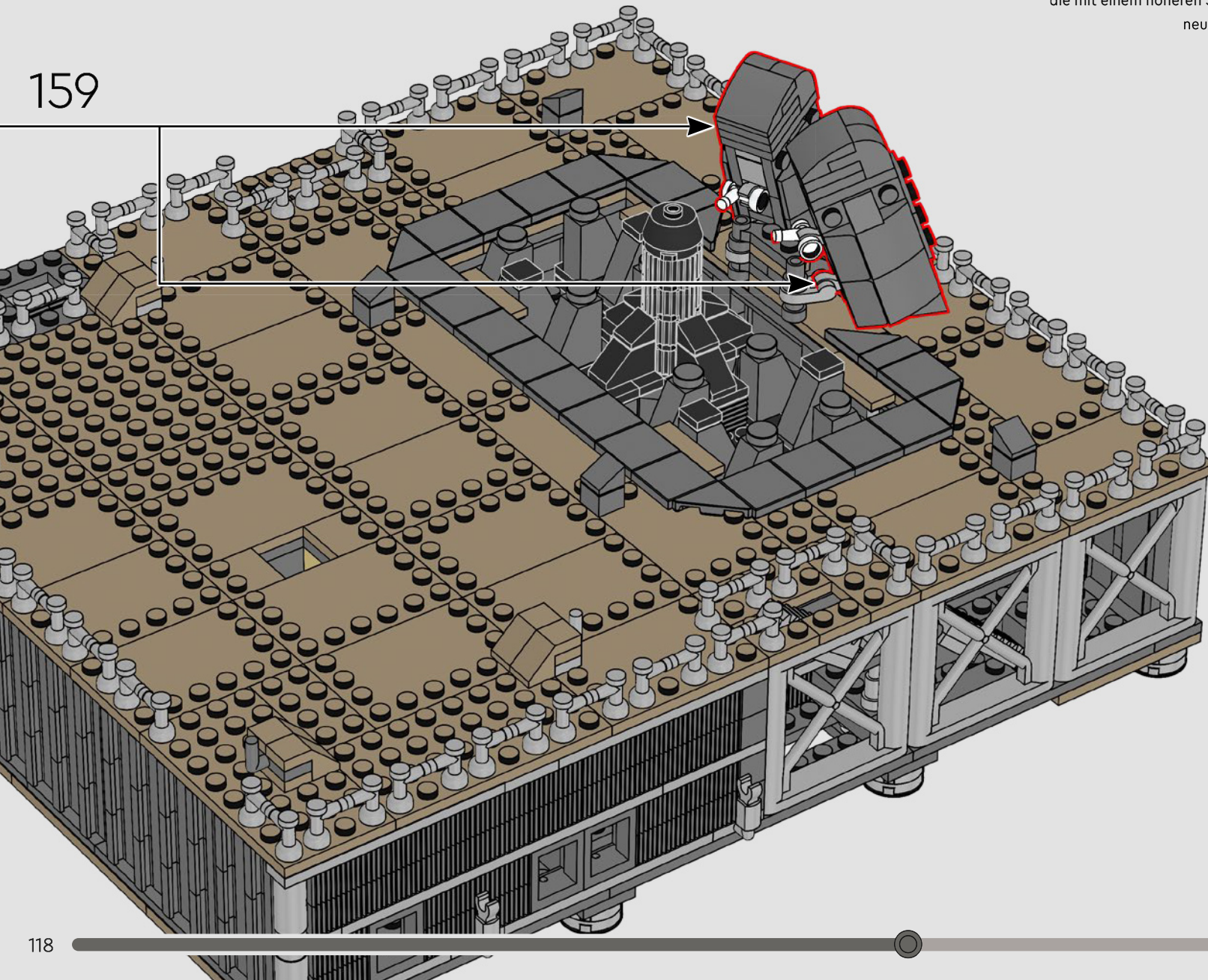


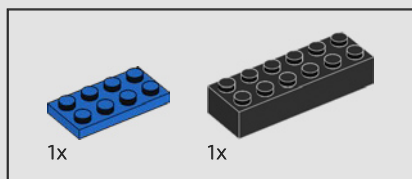
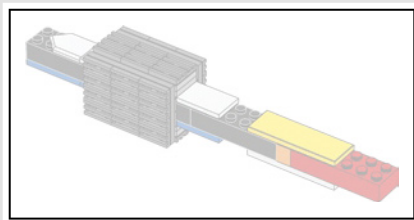
158



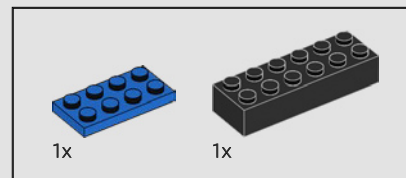
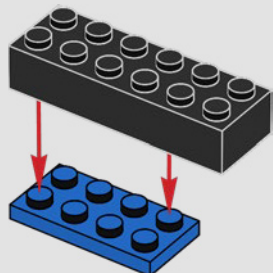
Das SLS nutzt größere Feststoffbooster als die NASA
Spaceshuttles. Flüssiger Wasserstoff und flüssiger
Sauerstoff werden den RS-25-Triebwerken zugeführt,
die mit einem höheren Schubniveau arbeiten und von
neuen Reglern gesteuert werden.

159

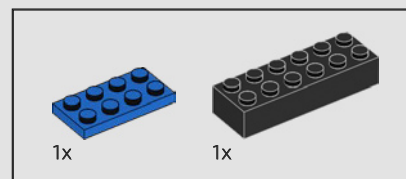
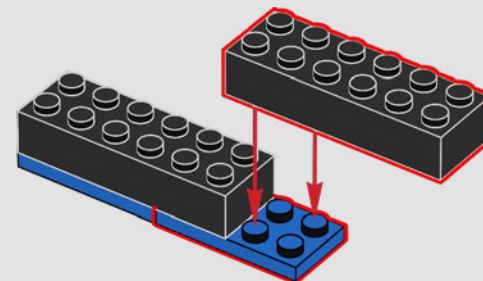




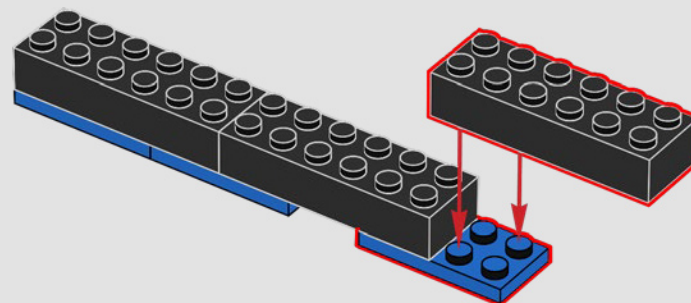
160

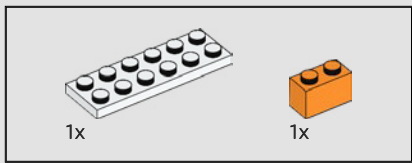


161

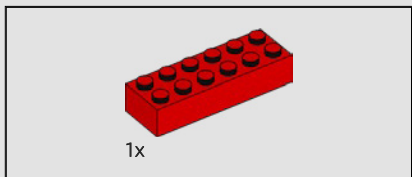
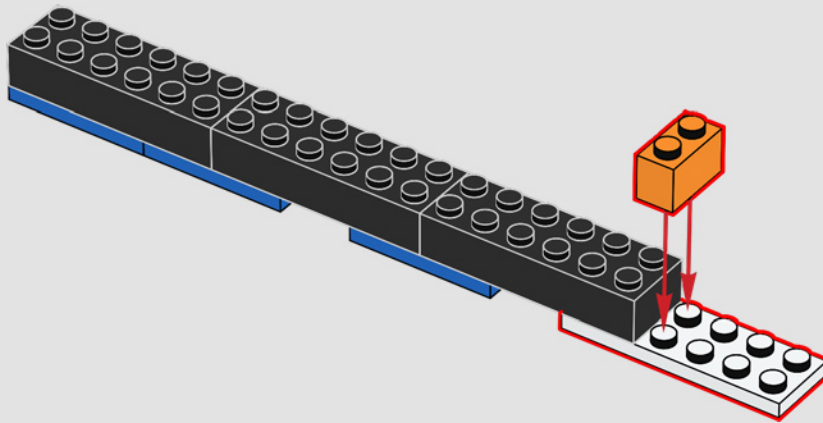


162

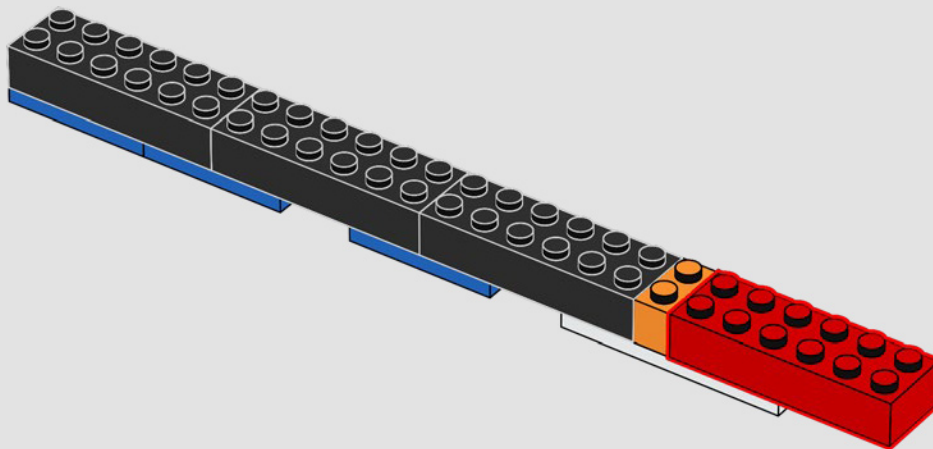


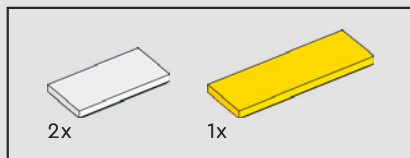


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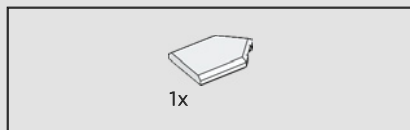
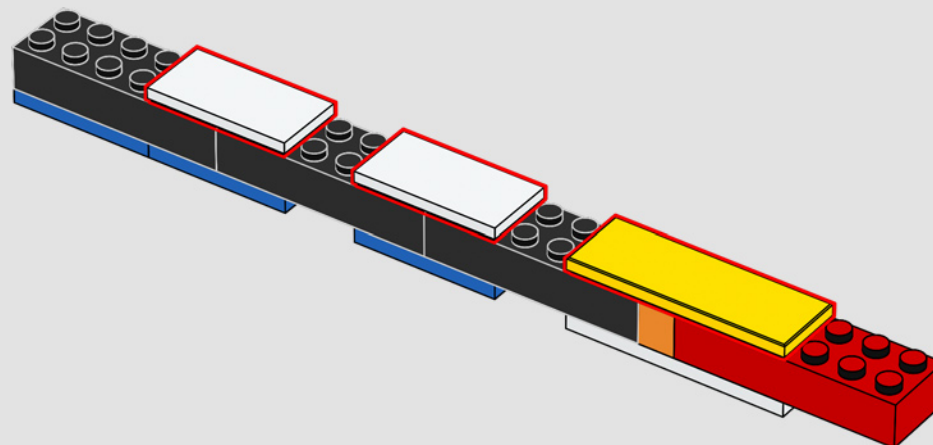


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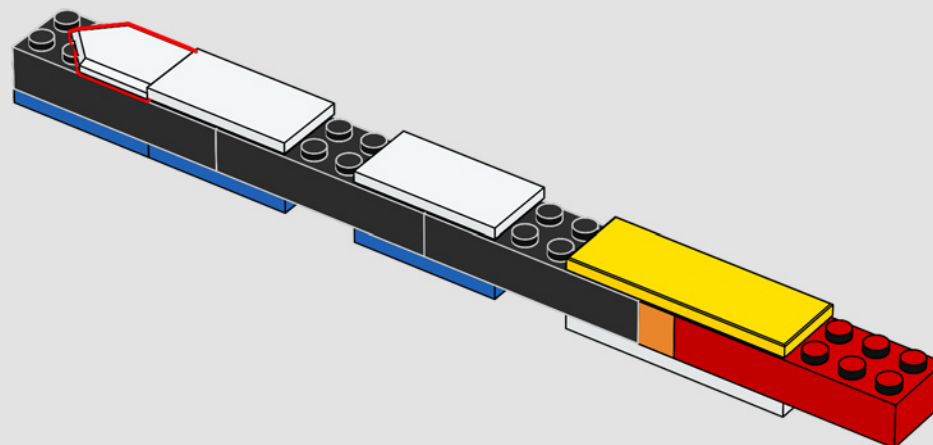


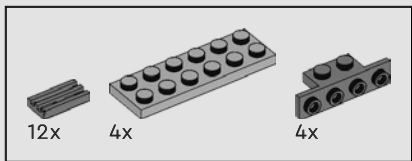


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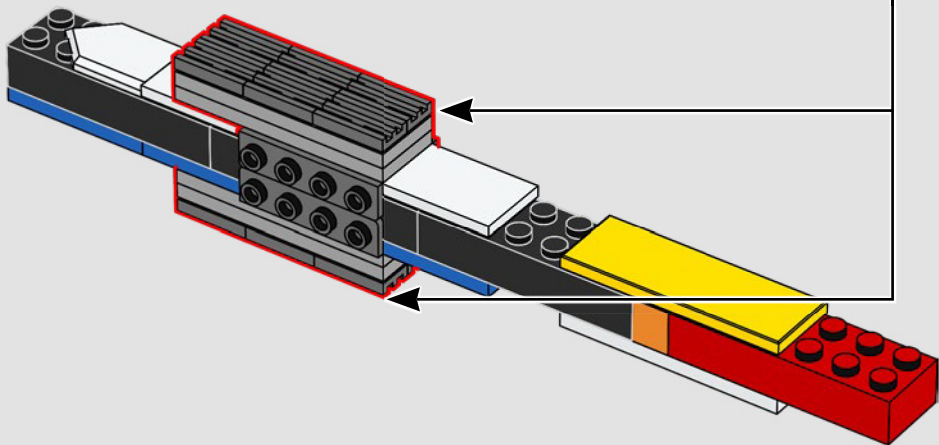
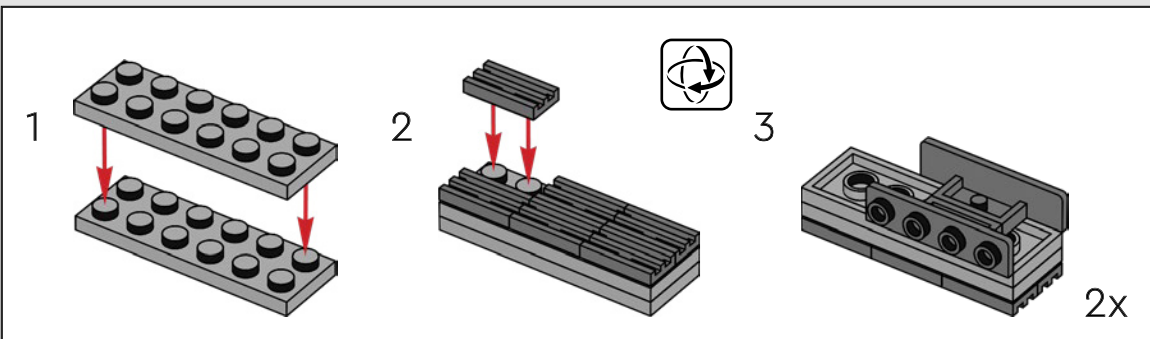


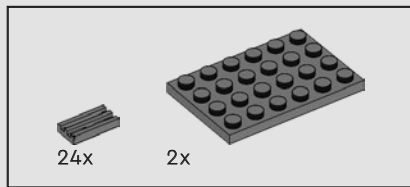
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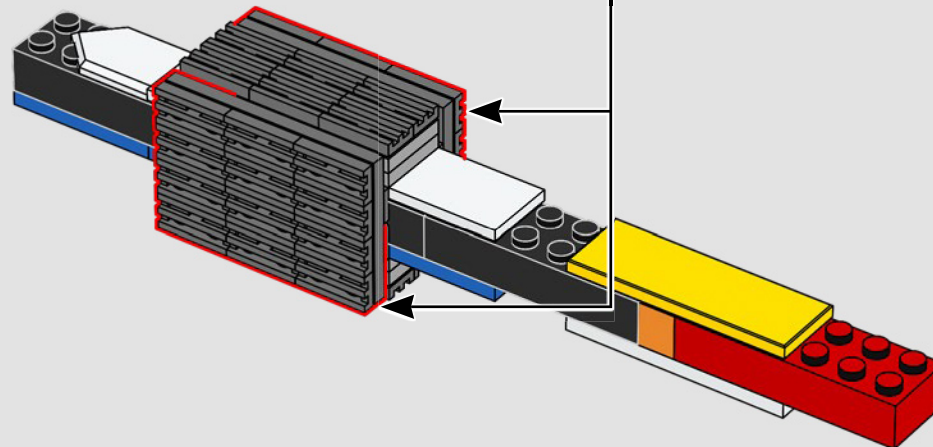
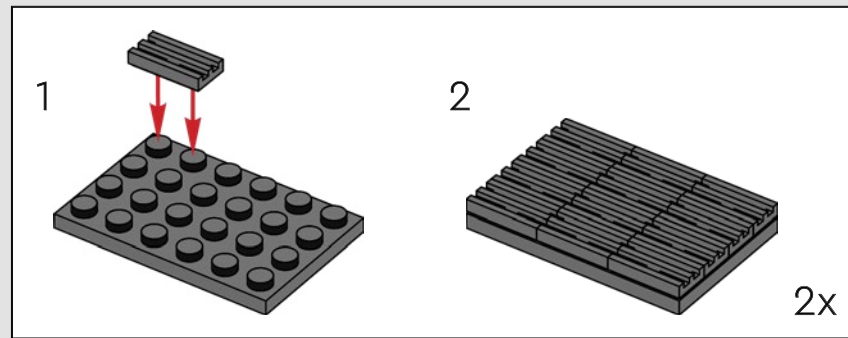


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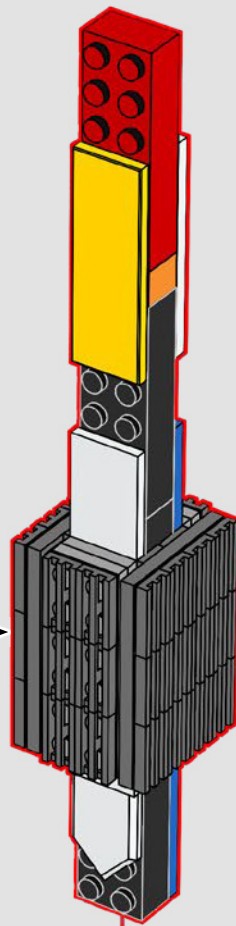


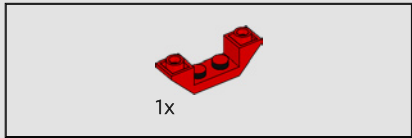


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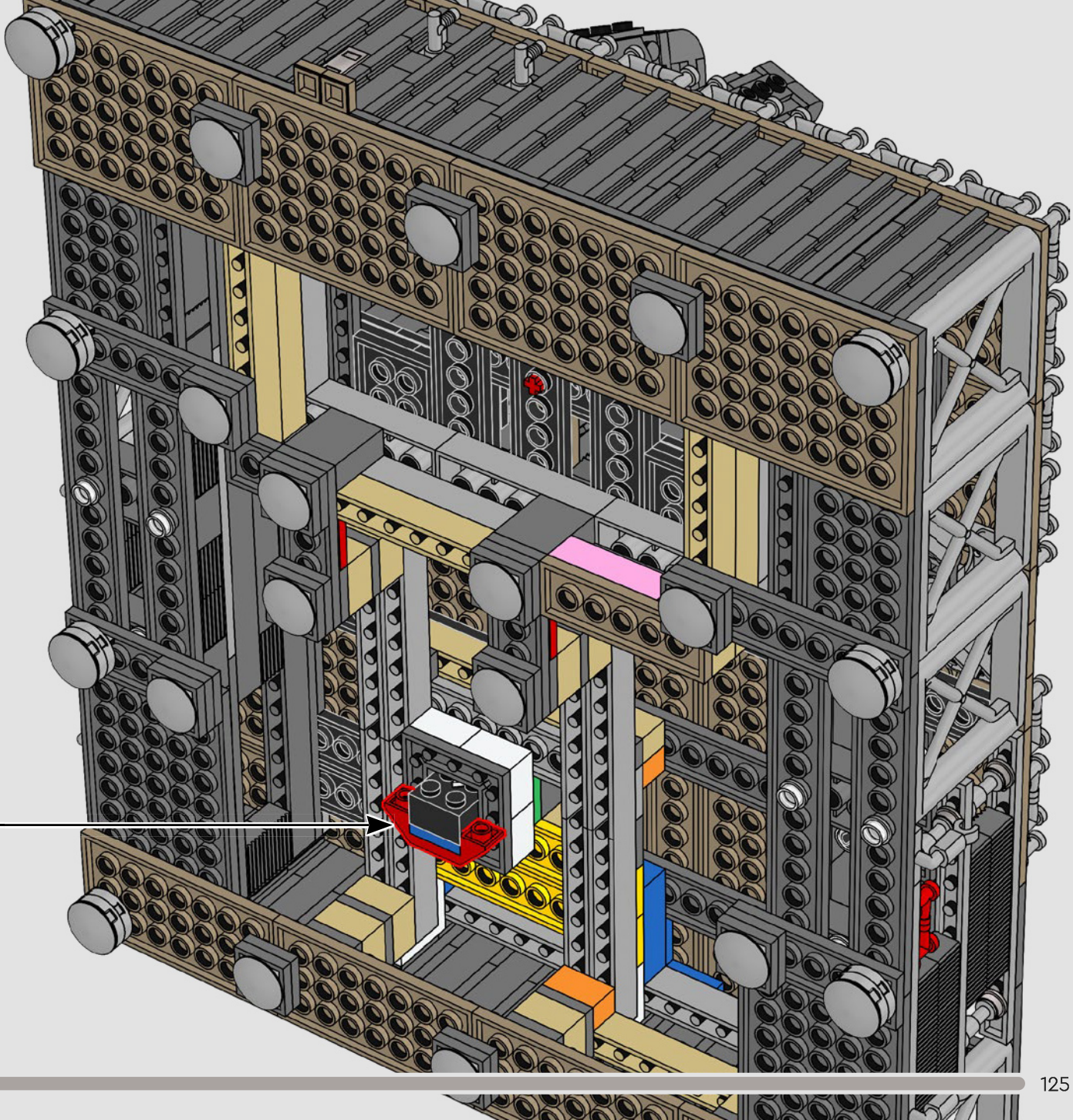
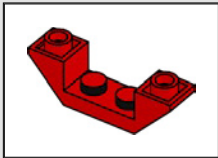


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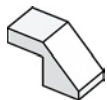
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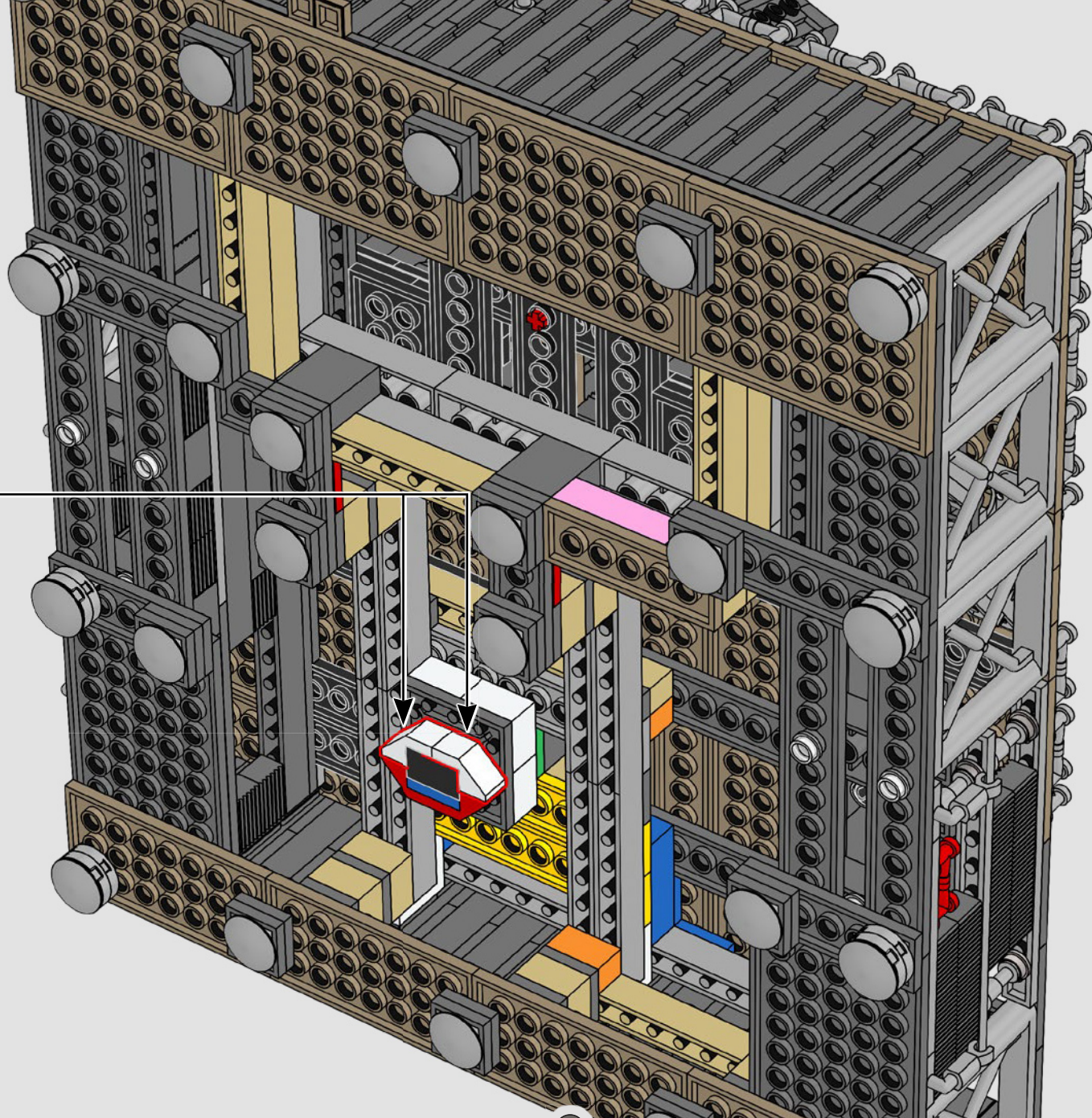


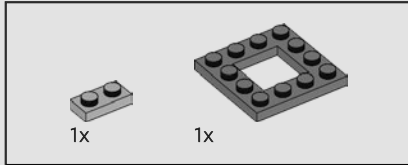
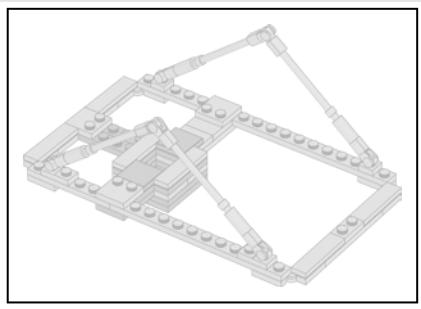
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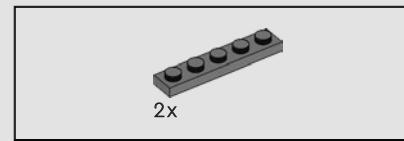
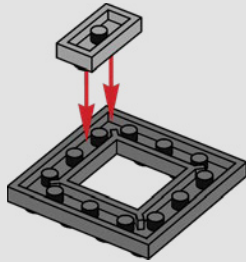


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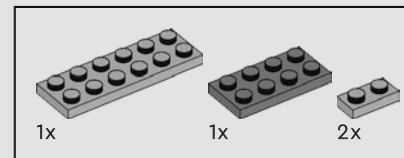
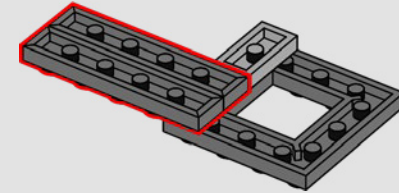




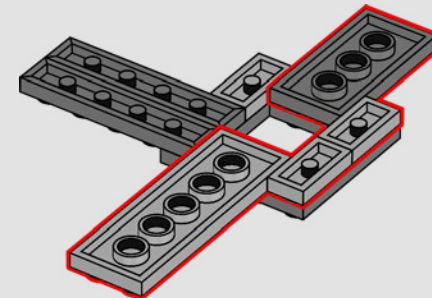
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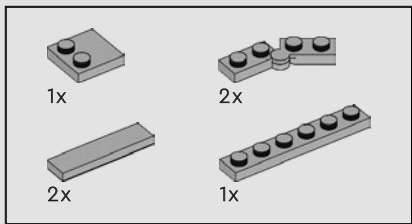


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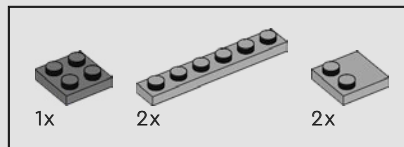
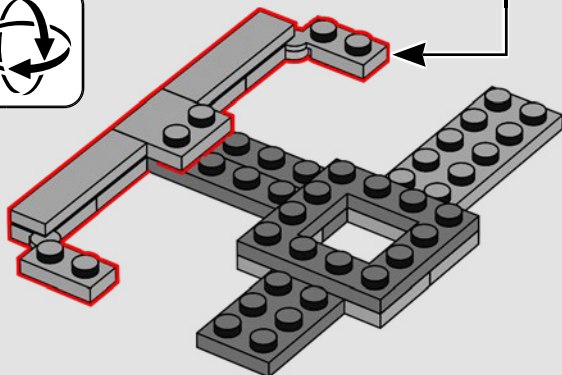
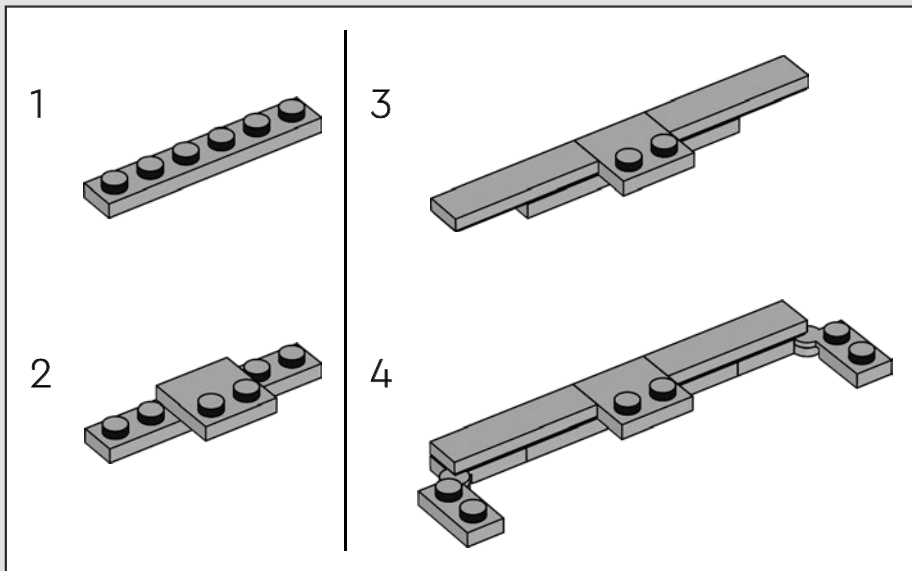


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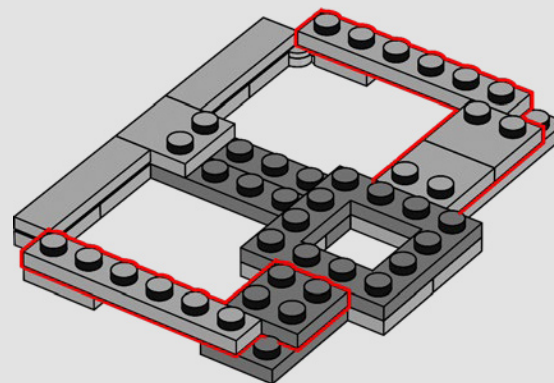


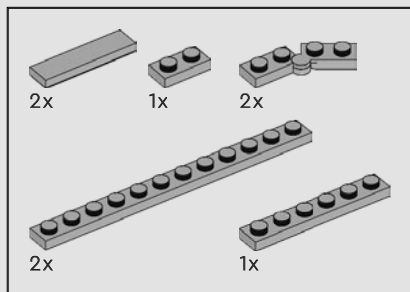


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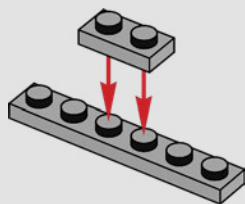
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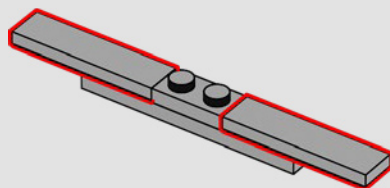


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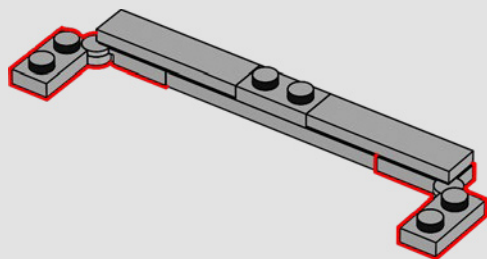
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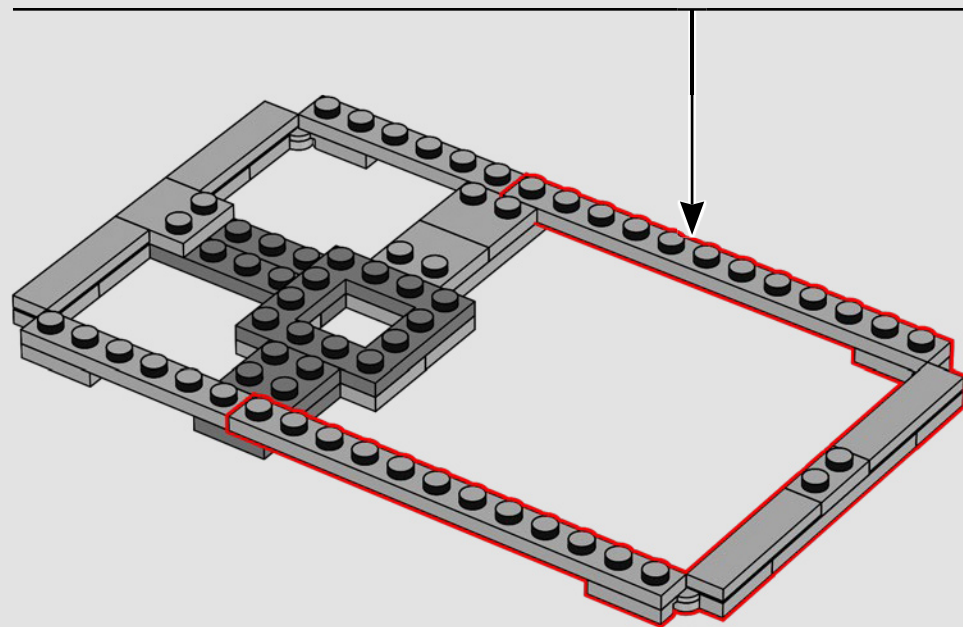
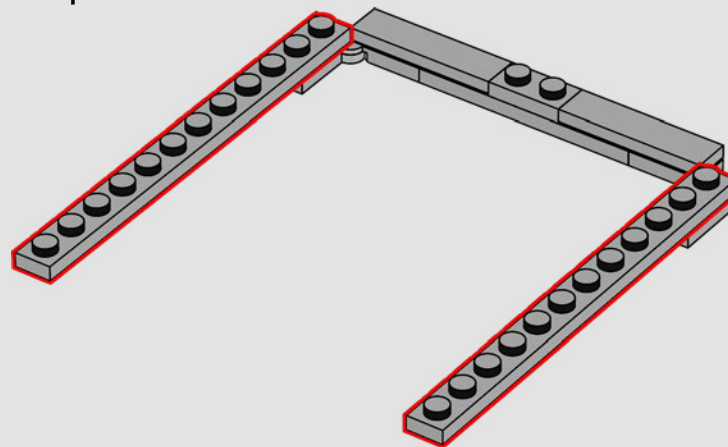
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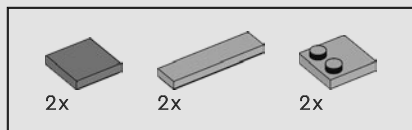


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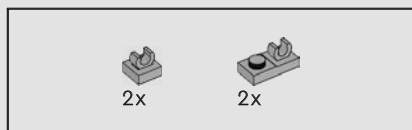
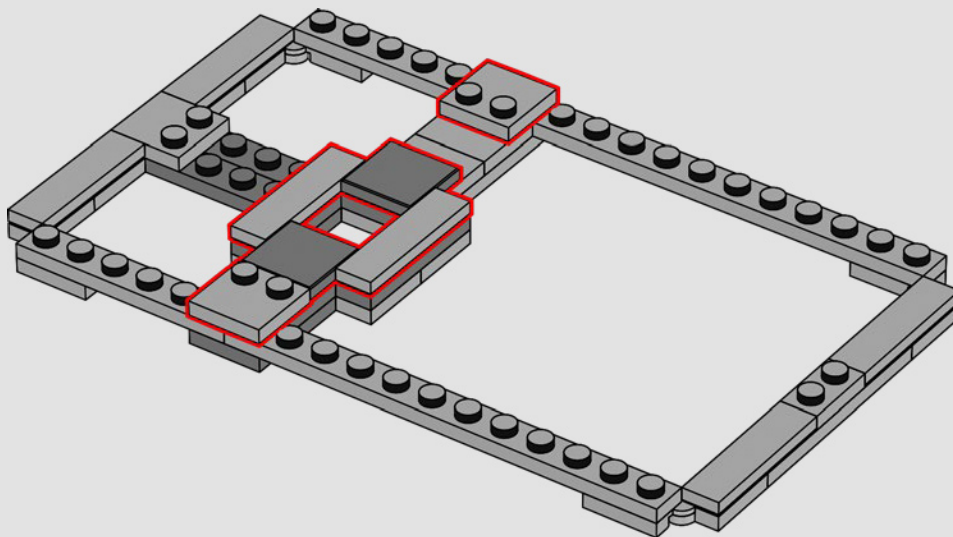


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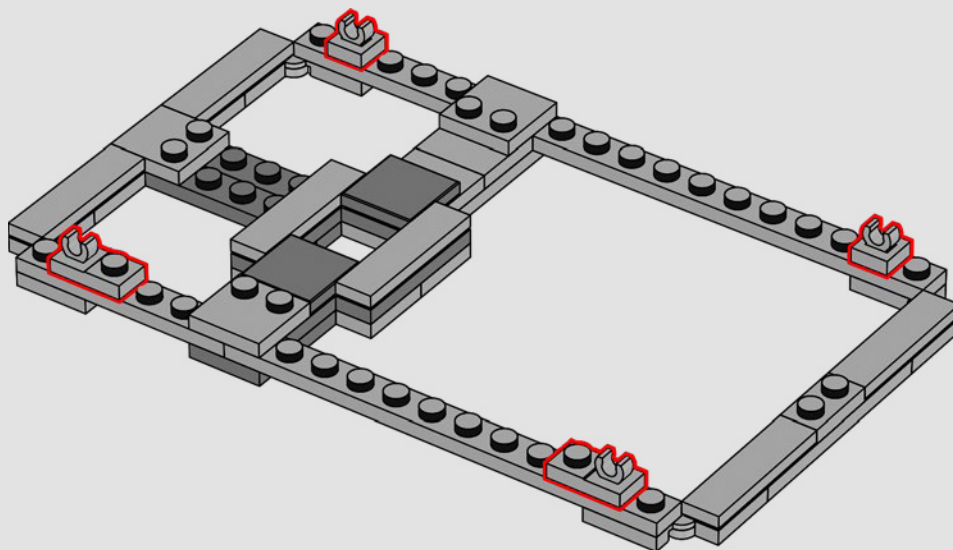


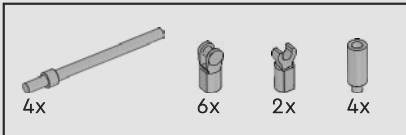
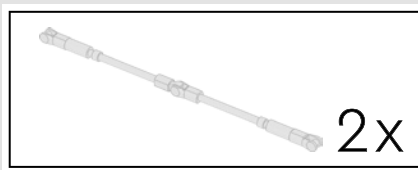


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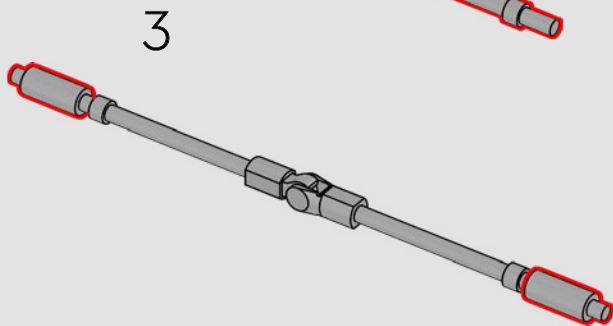
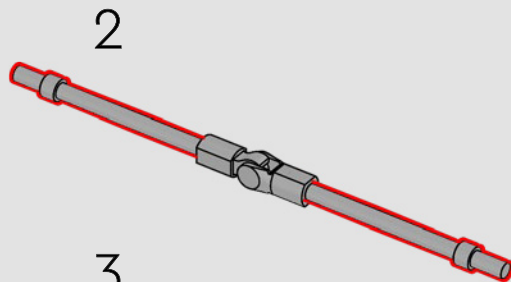
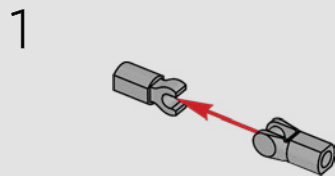


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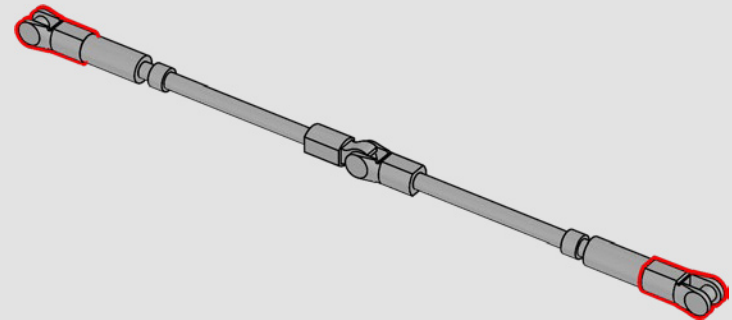




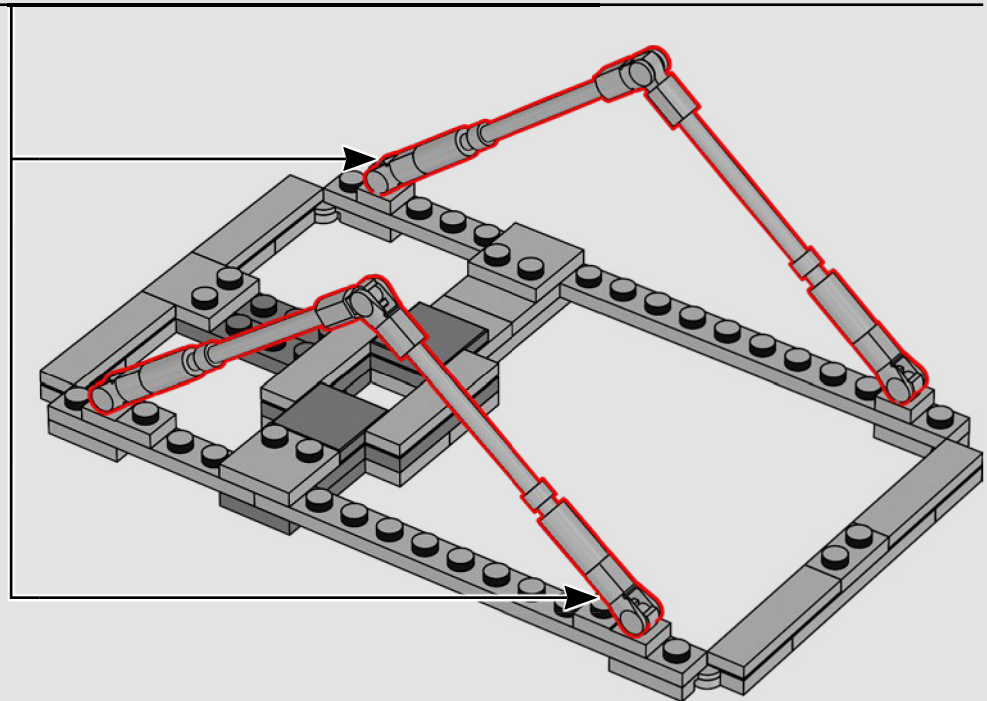
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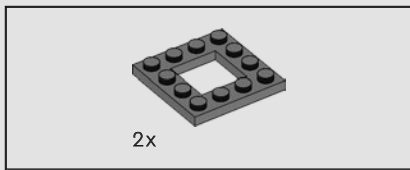


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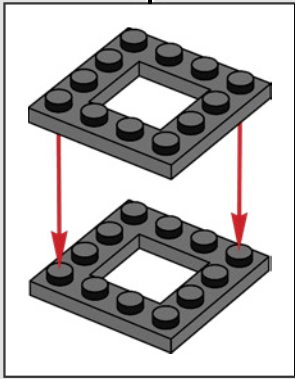
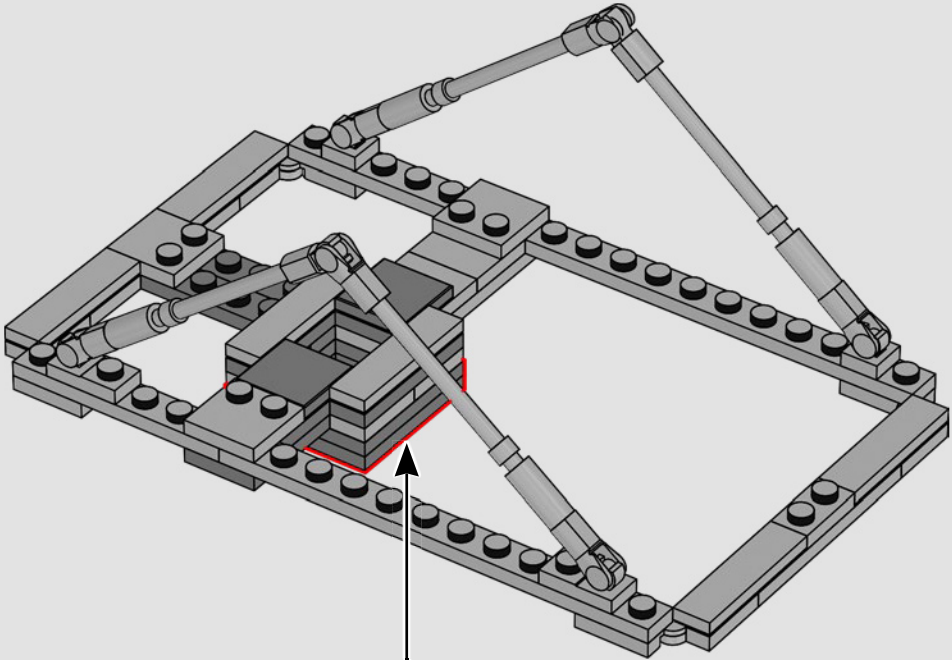


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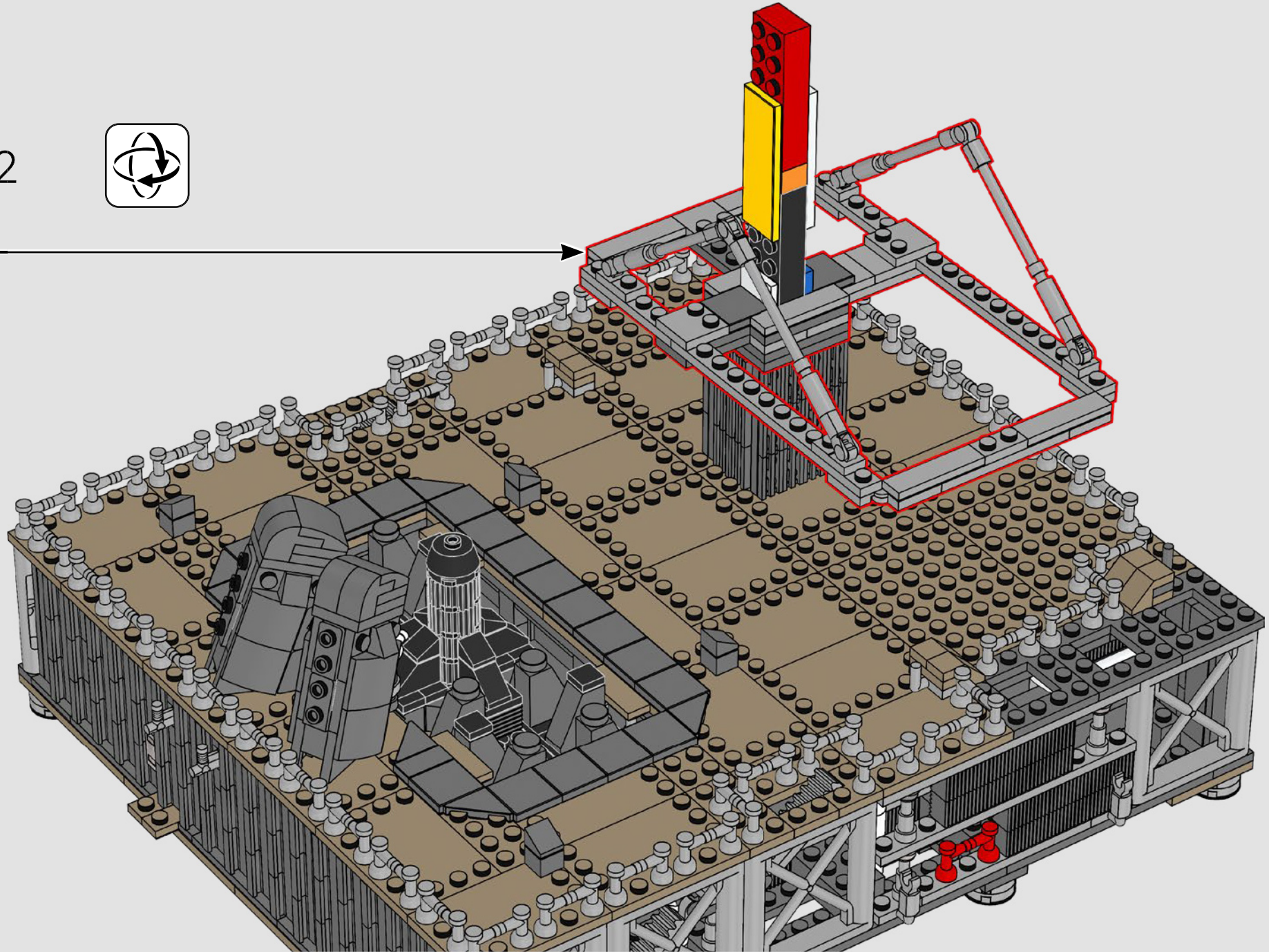


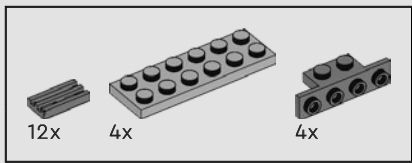


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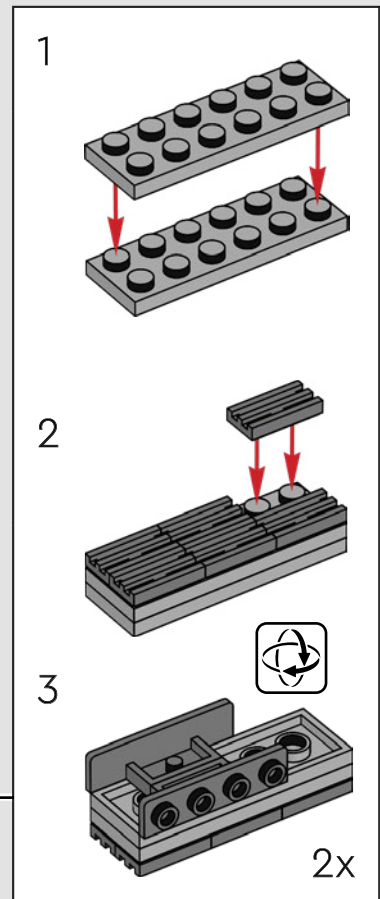
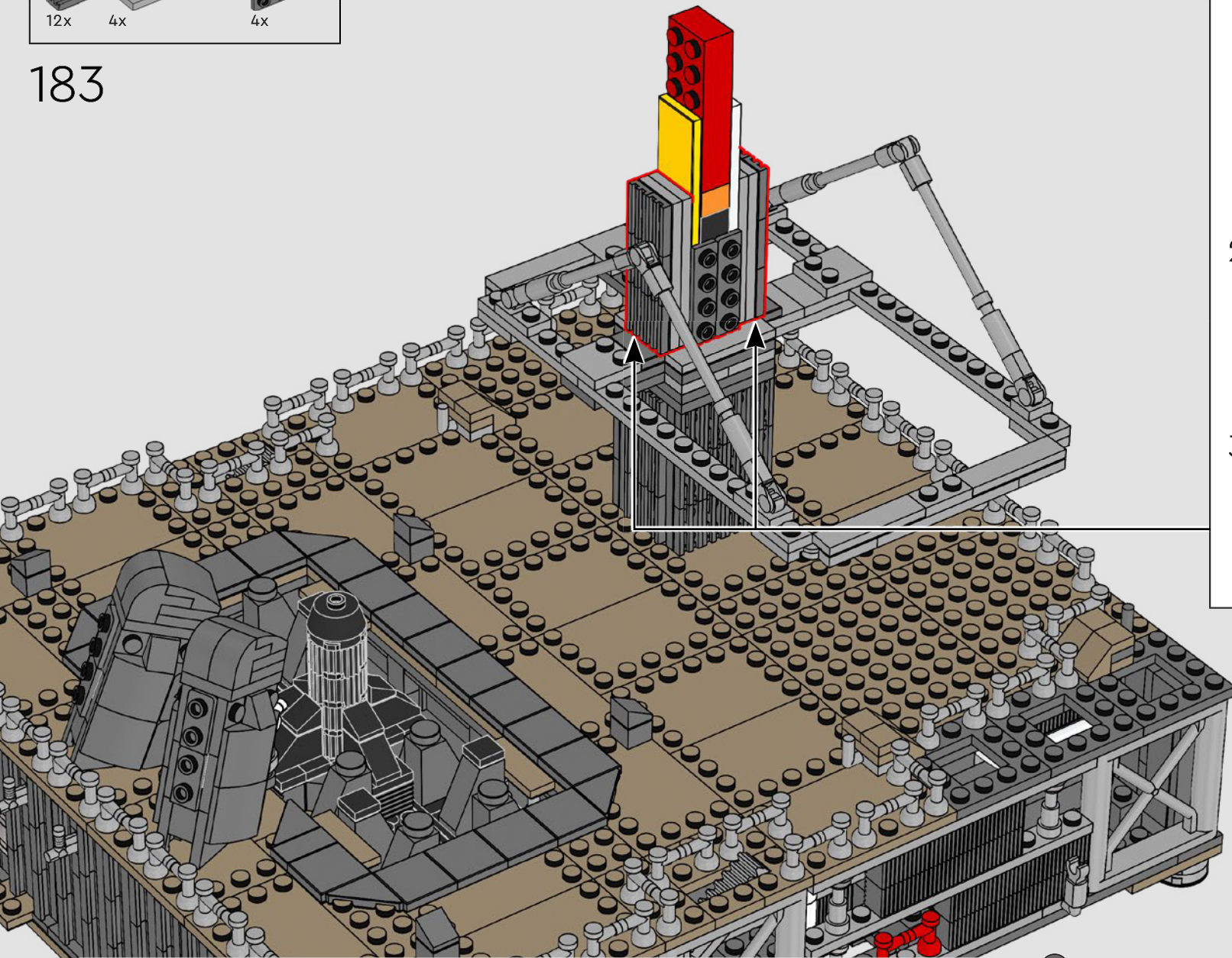


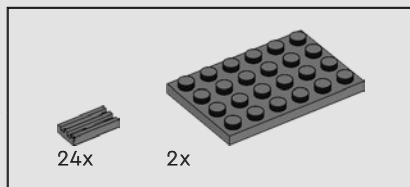
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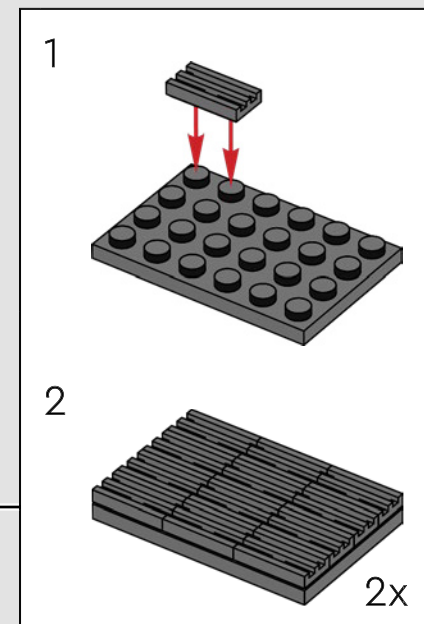
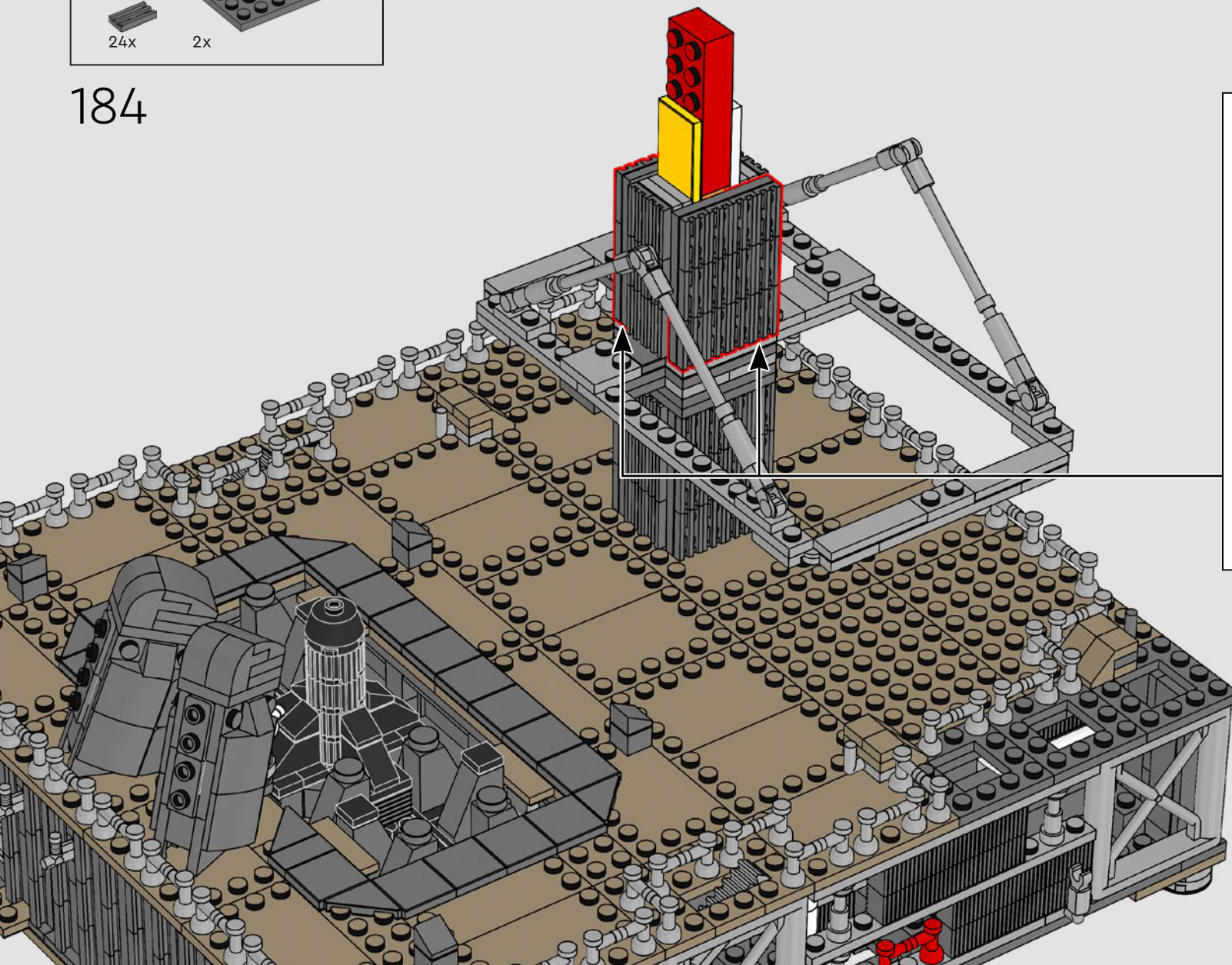


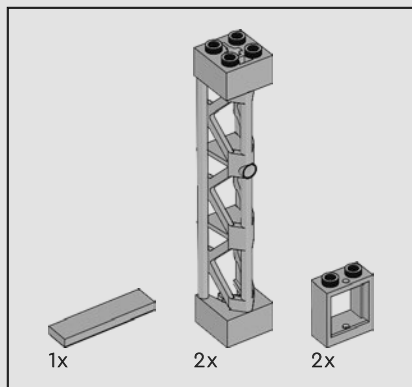
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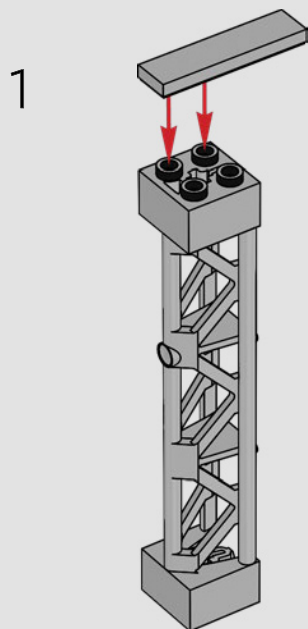


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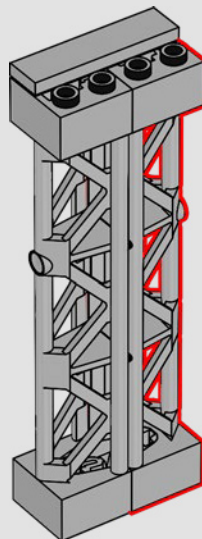




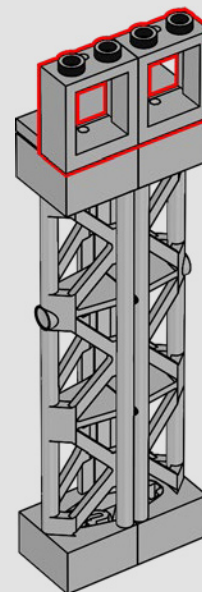
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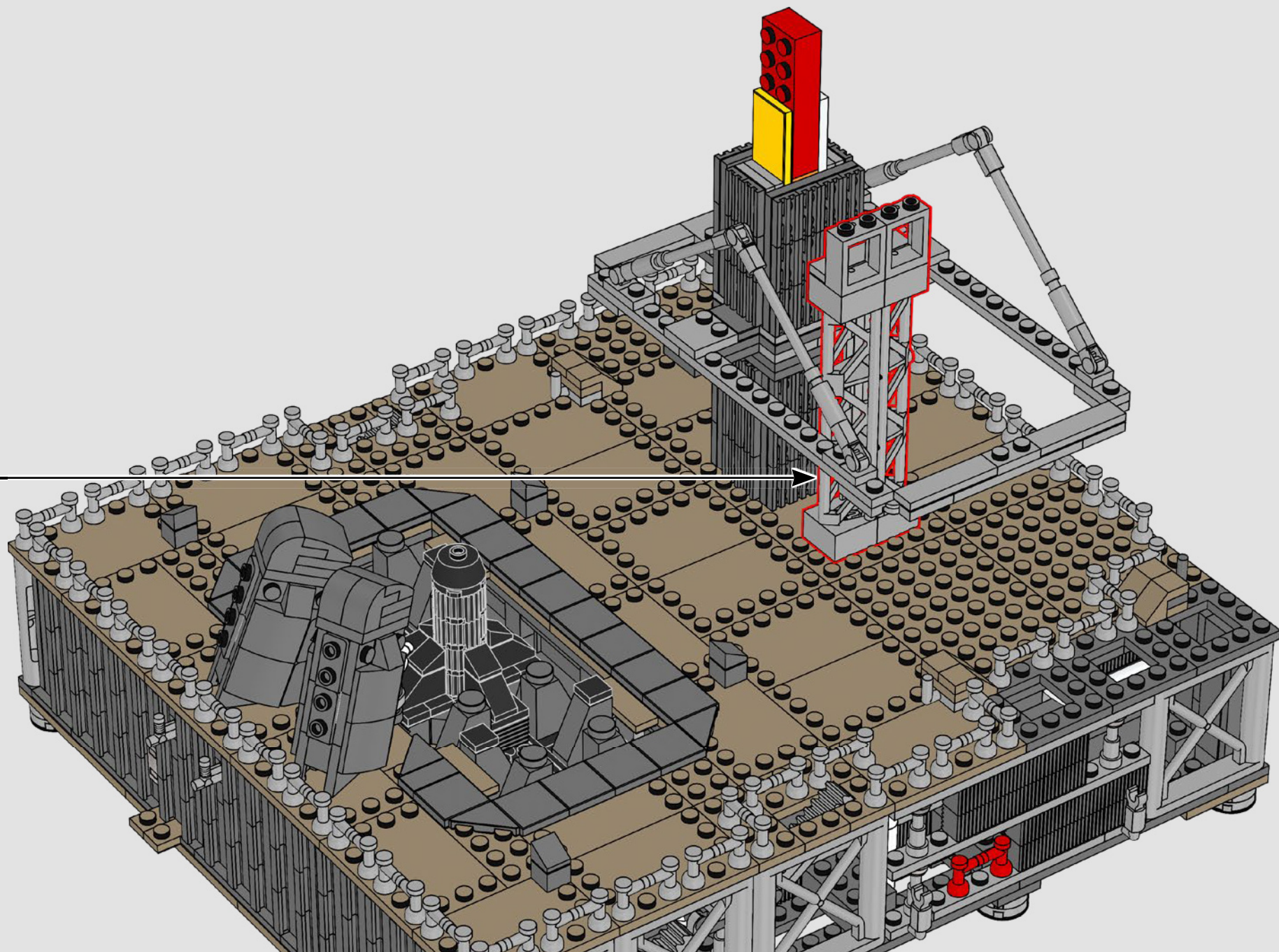


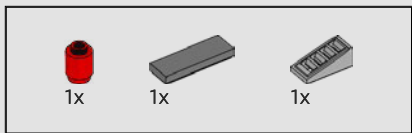
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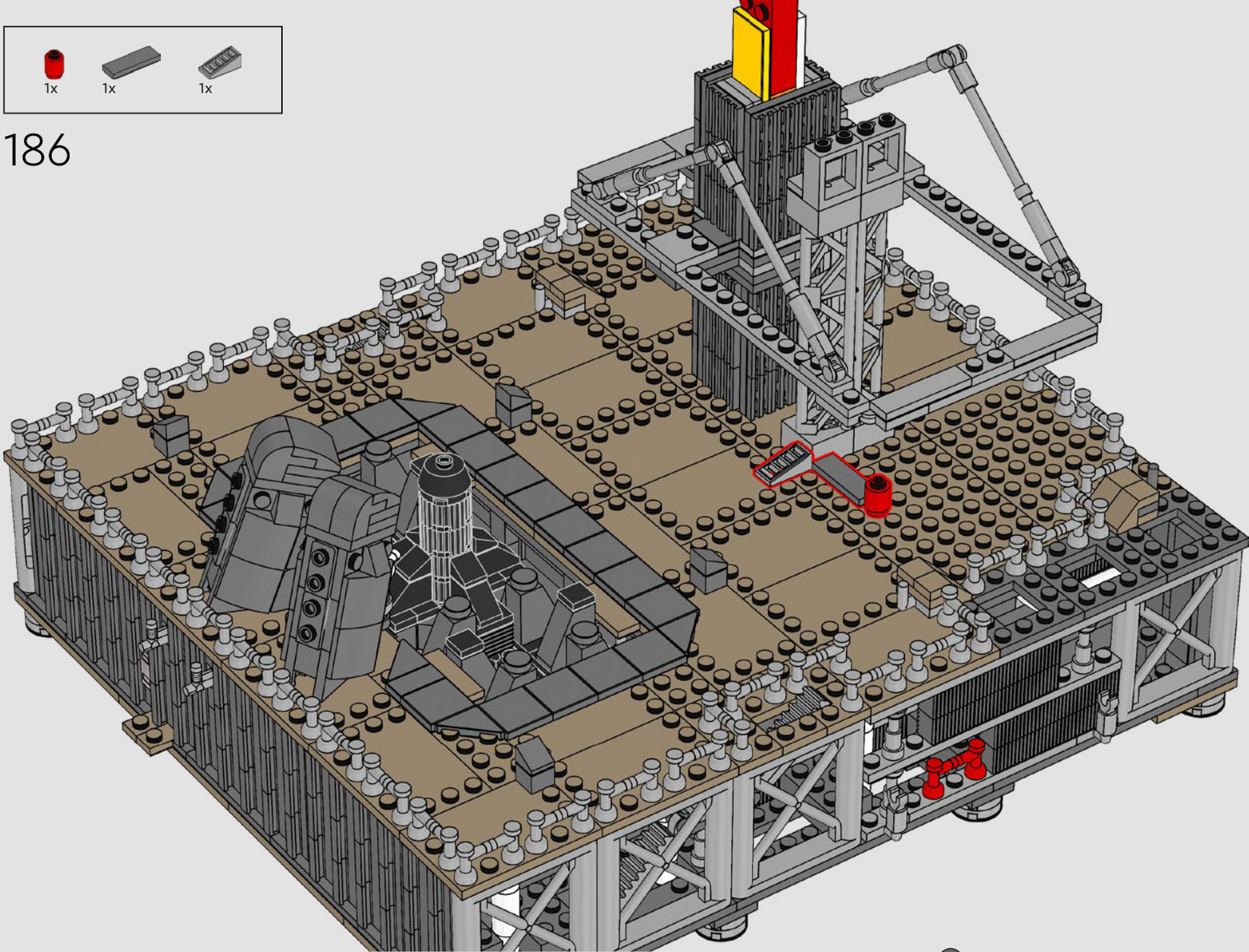
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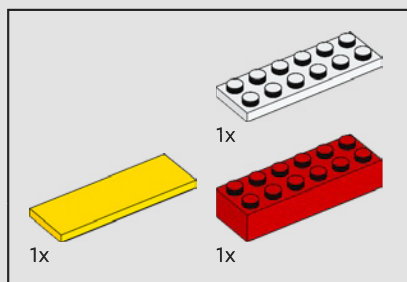




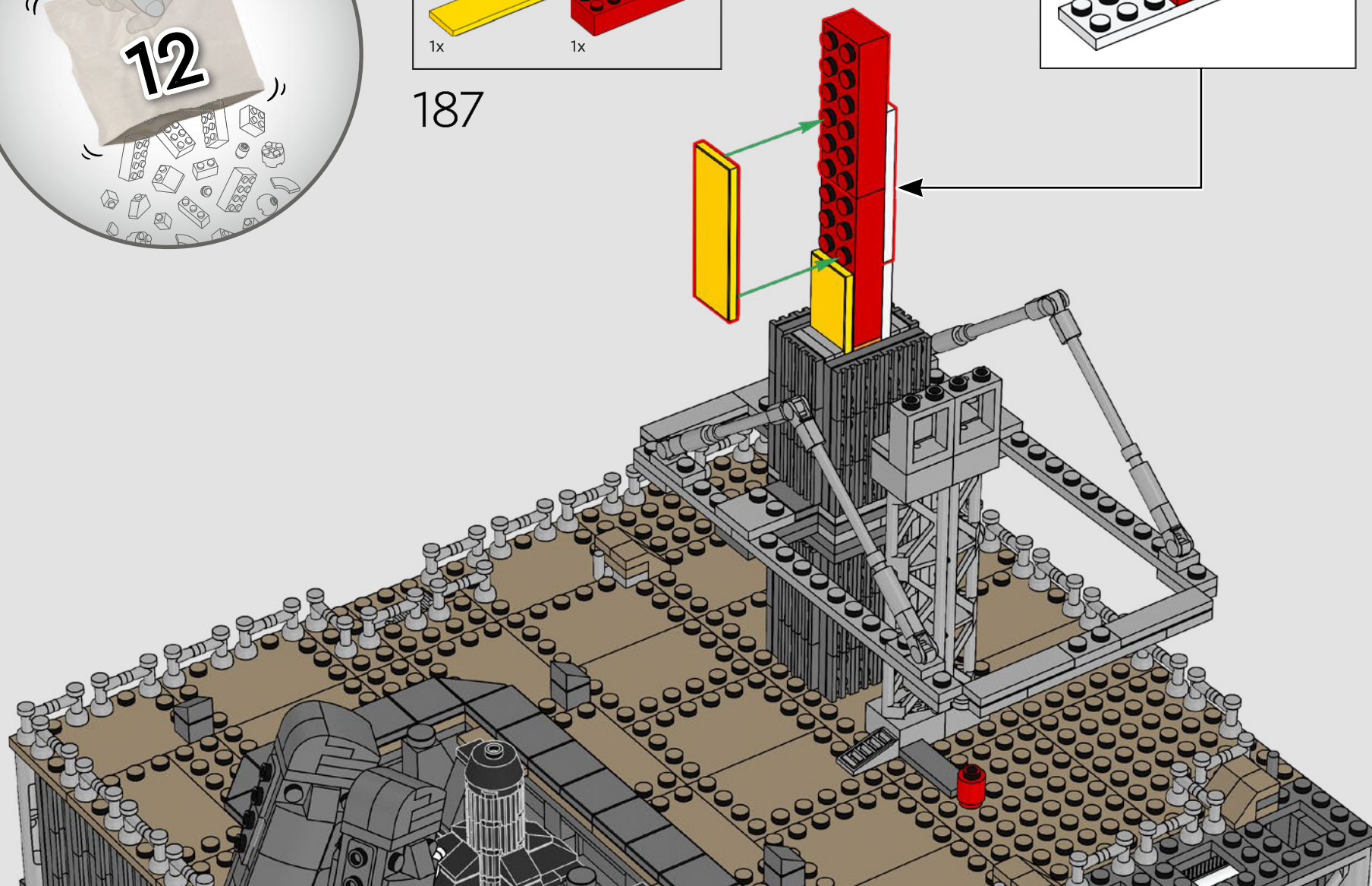
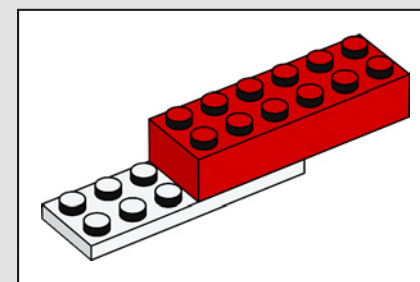


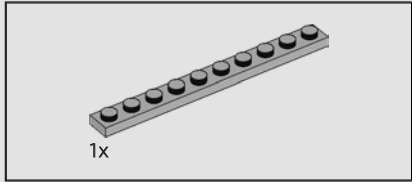
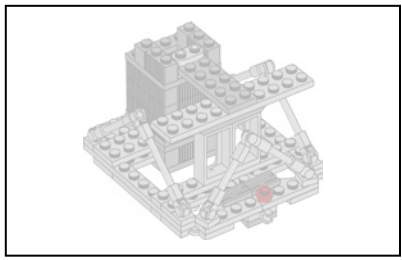
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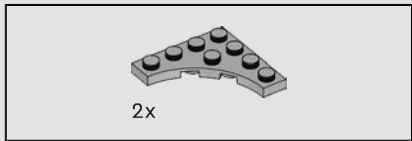
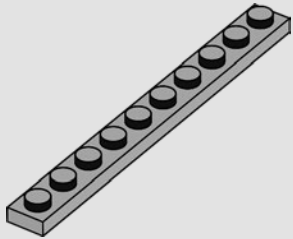


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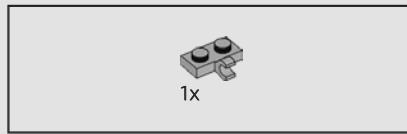
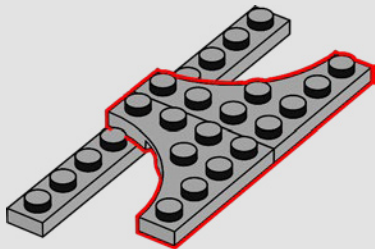




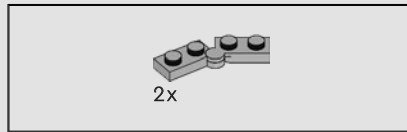
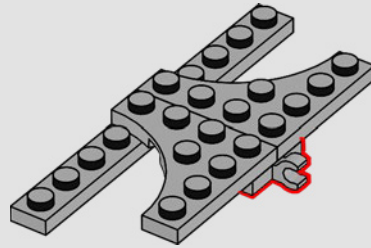
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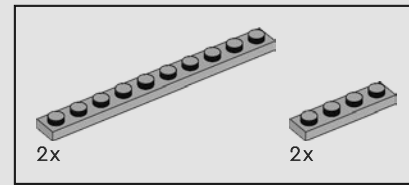
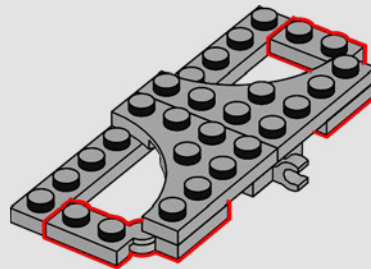
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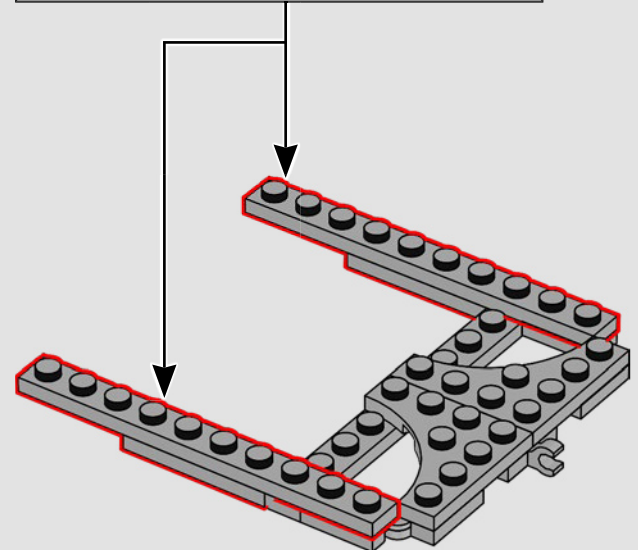
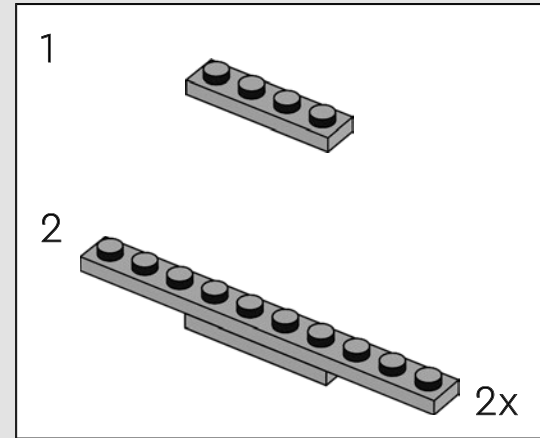
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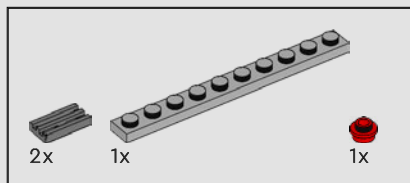


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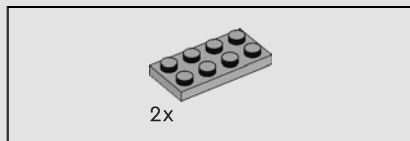
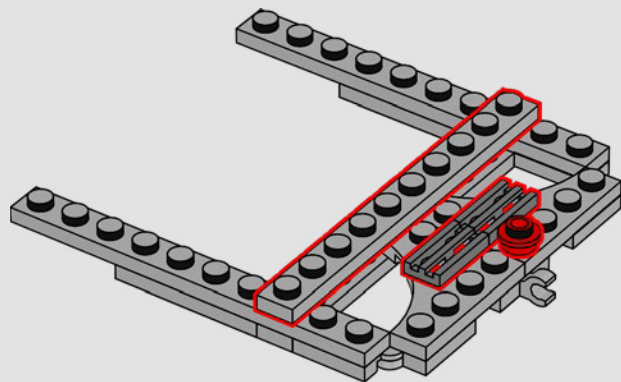


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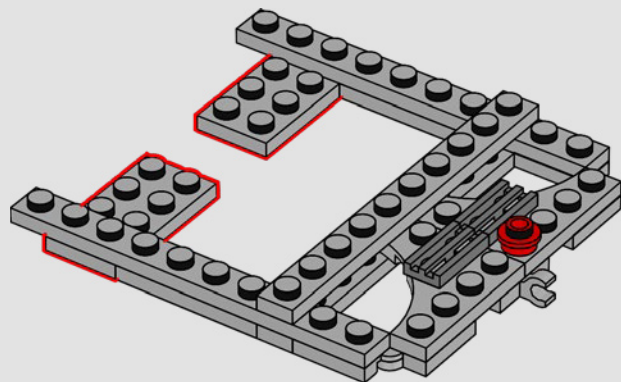




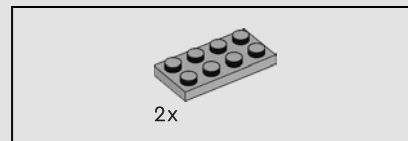
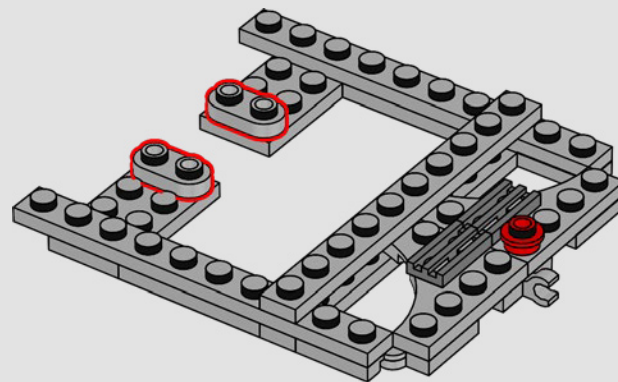
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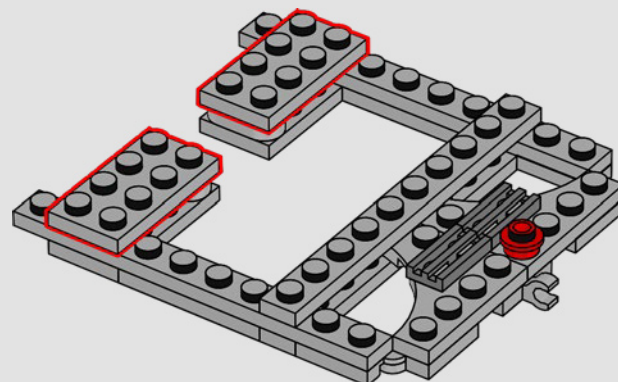
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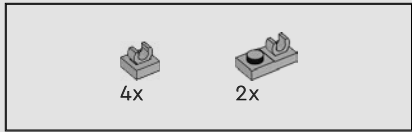


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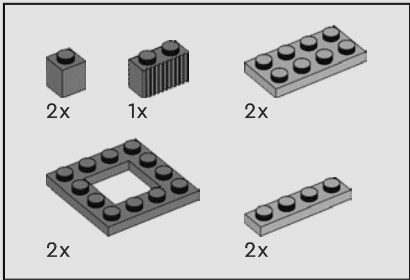
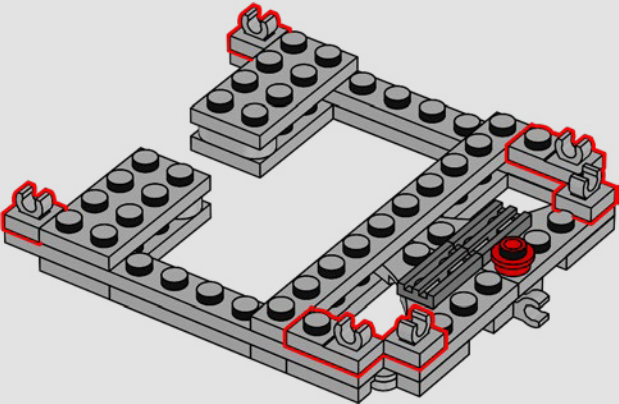


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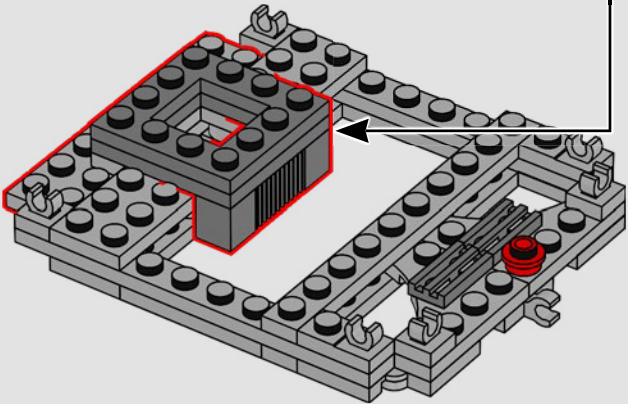
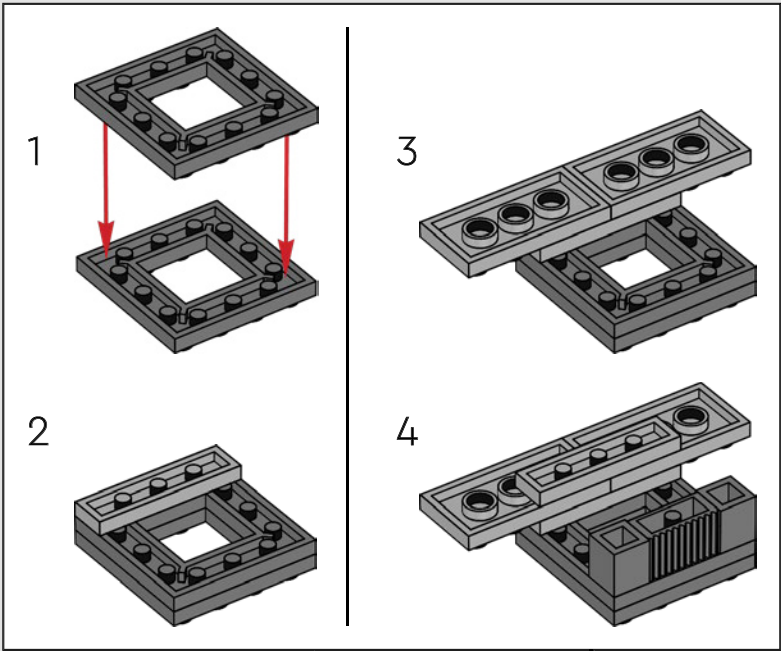


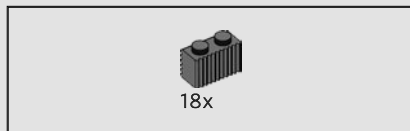


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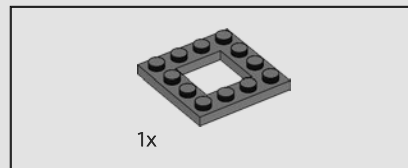
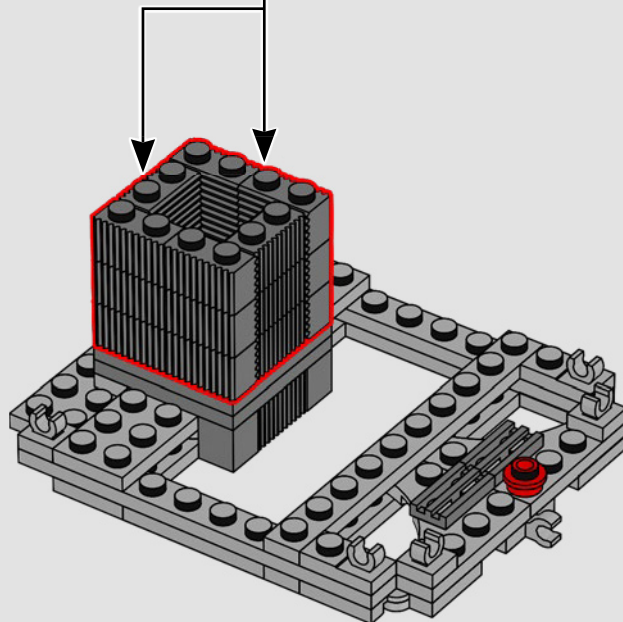
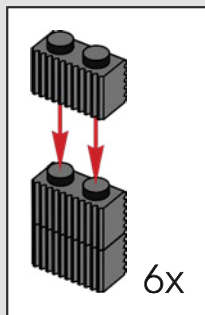


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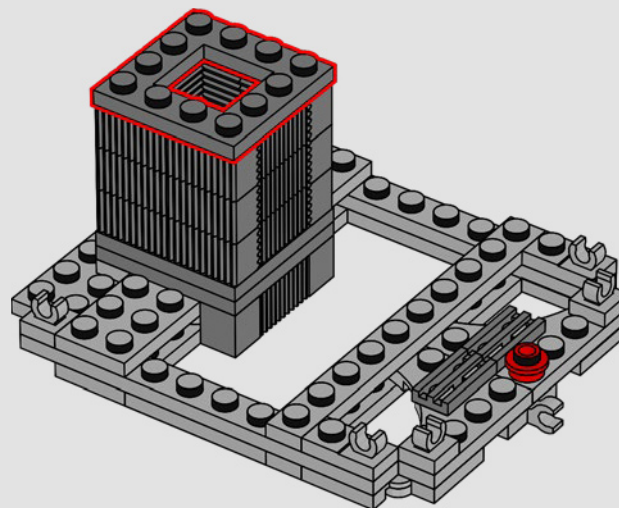


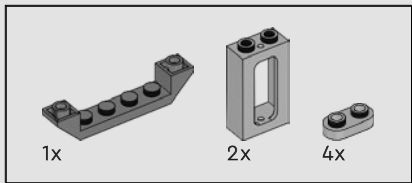


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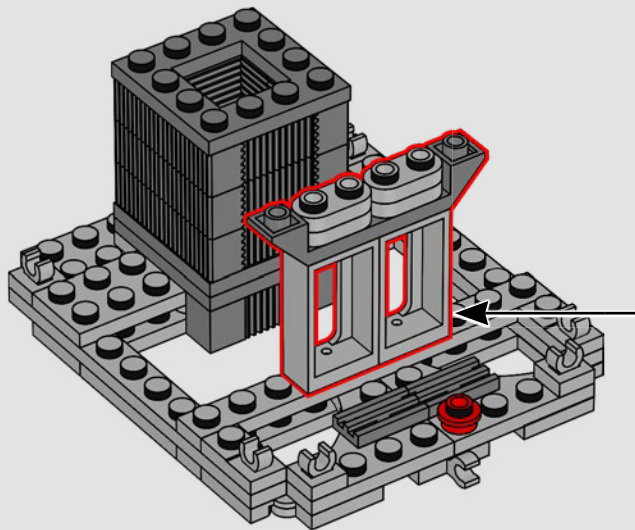
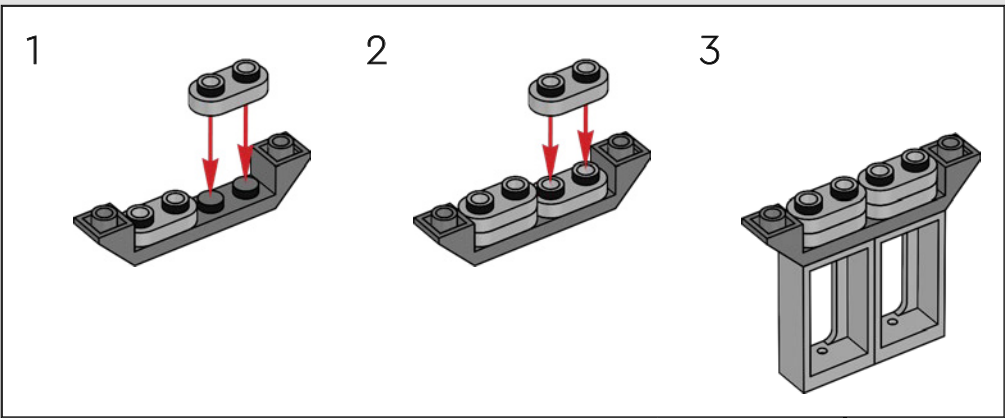


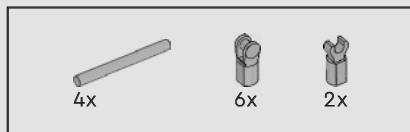
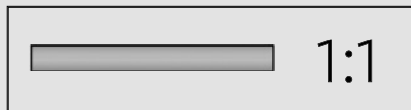
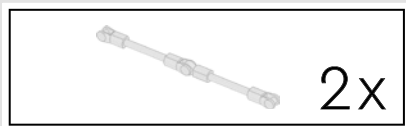
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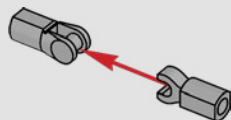
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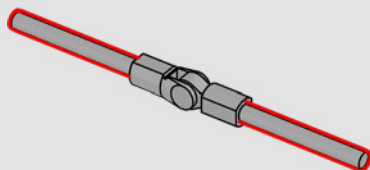


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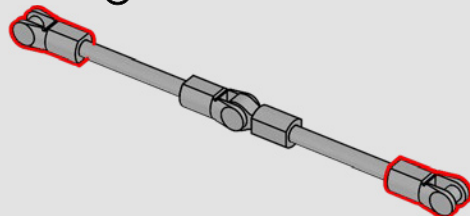
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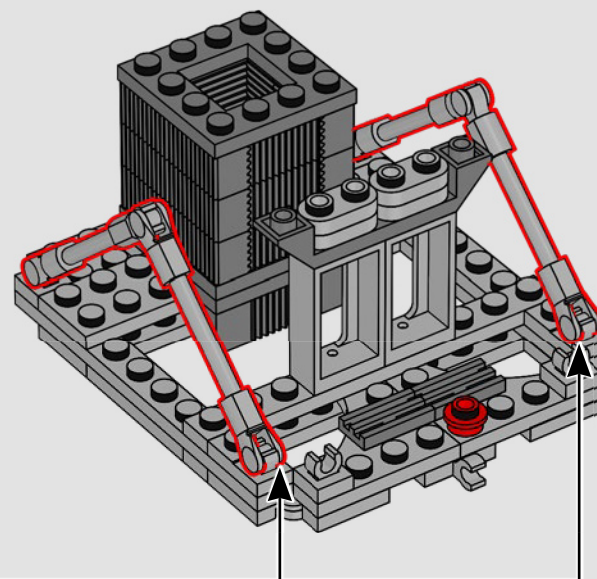
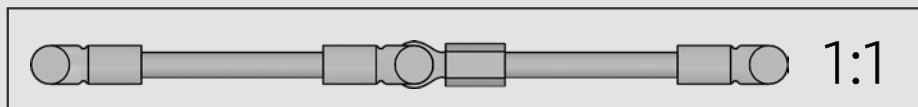
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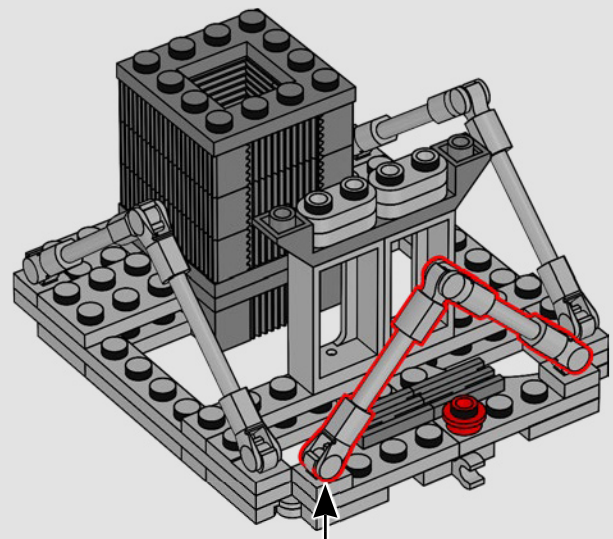
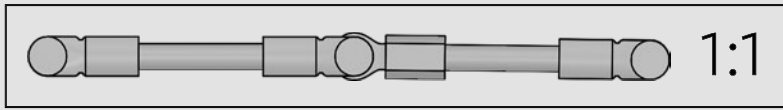
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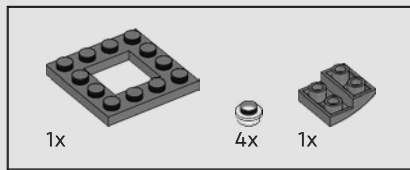




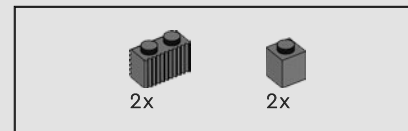
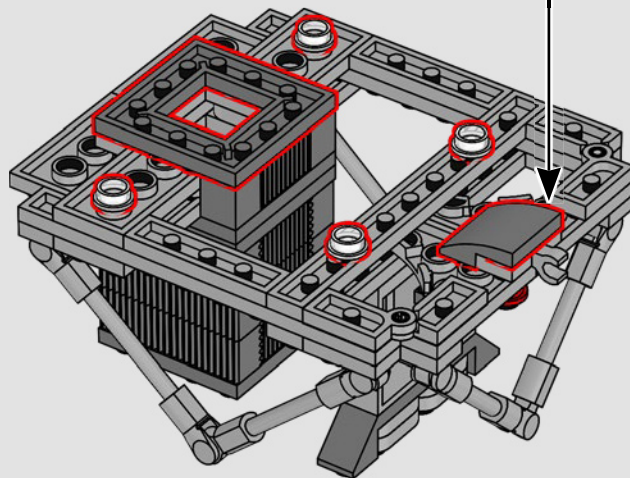
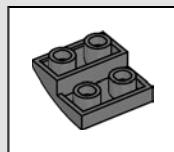
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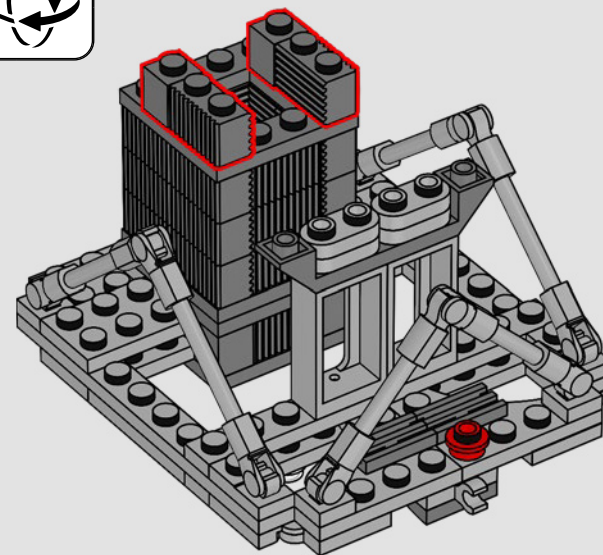


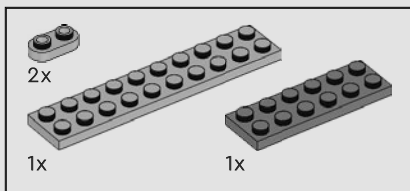


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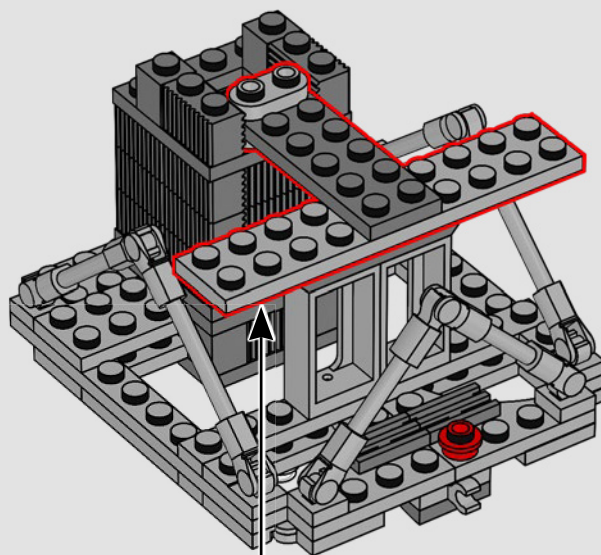
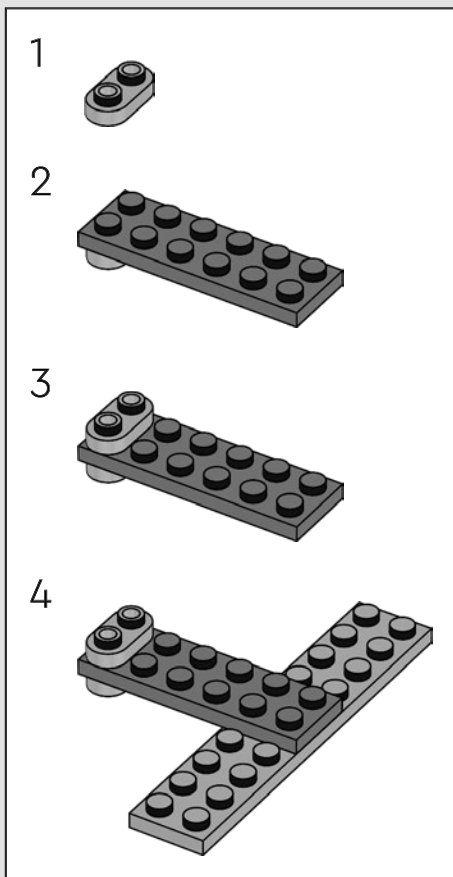


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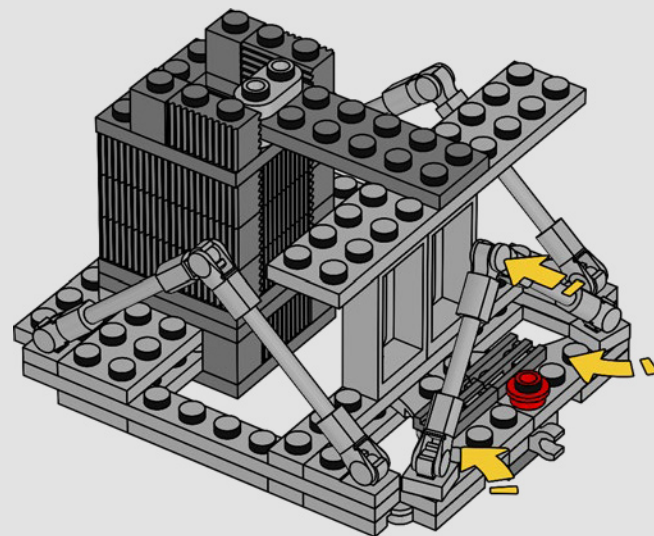




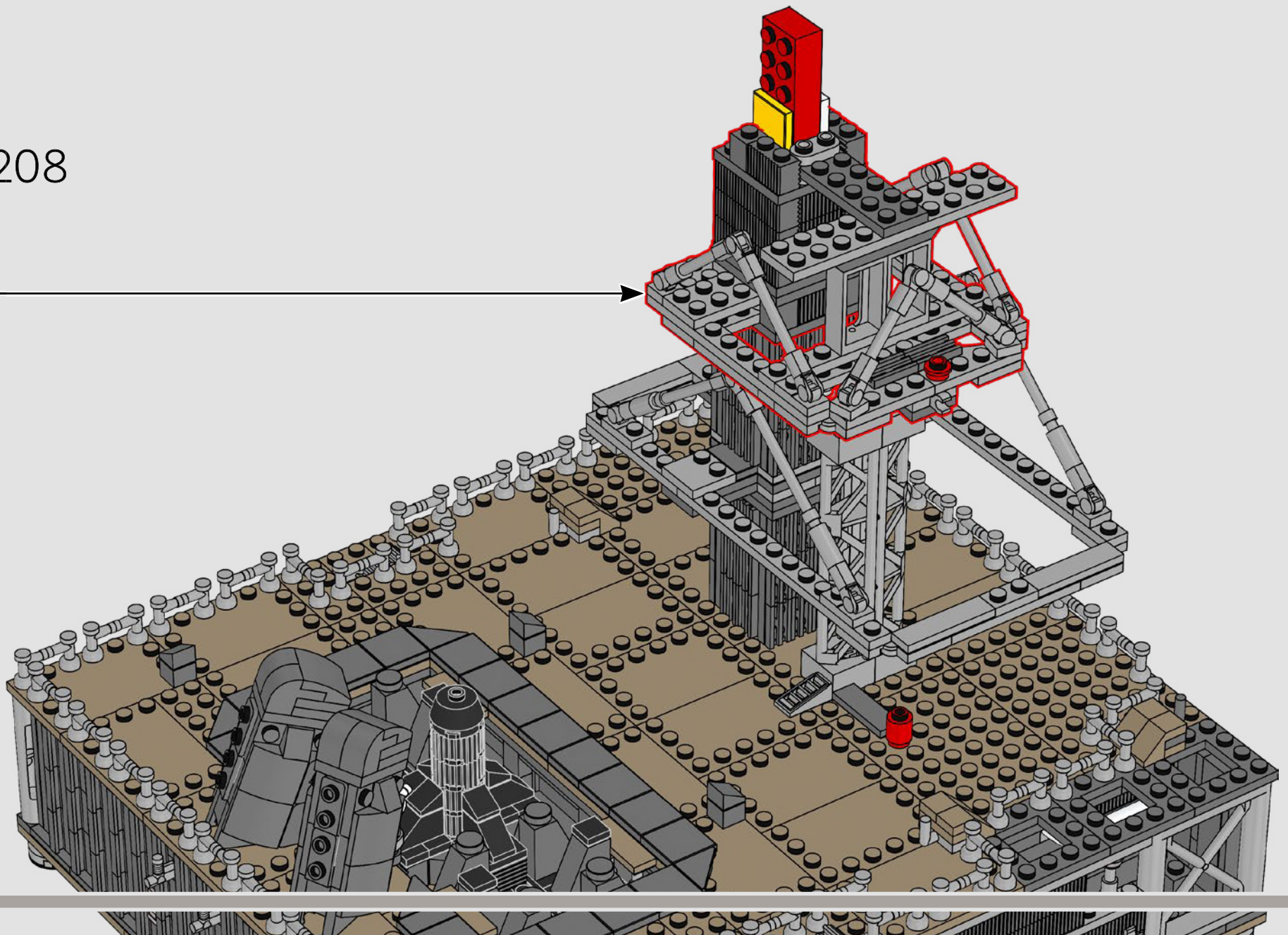
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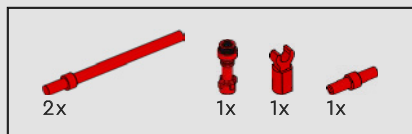


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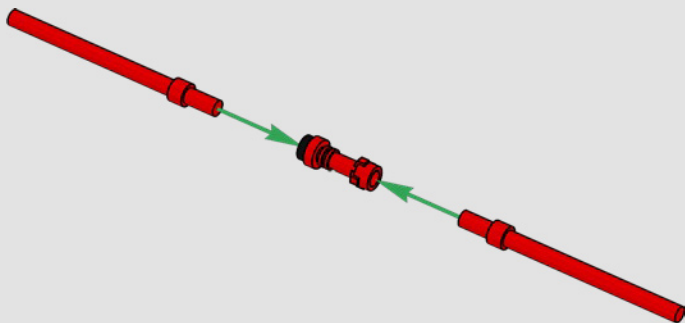
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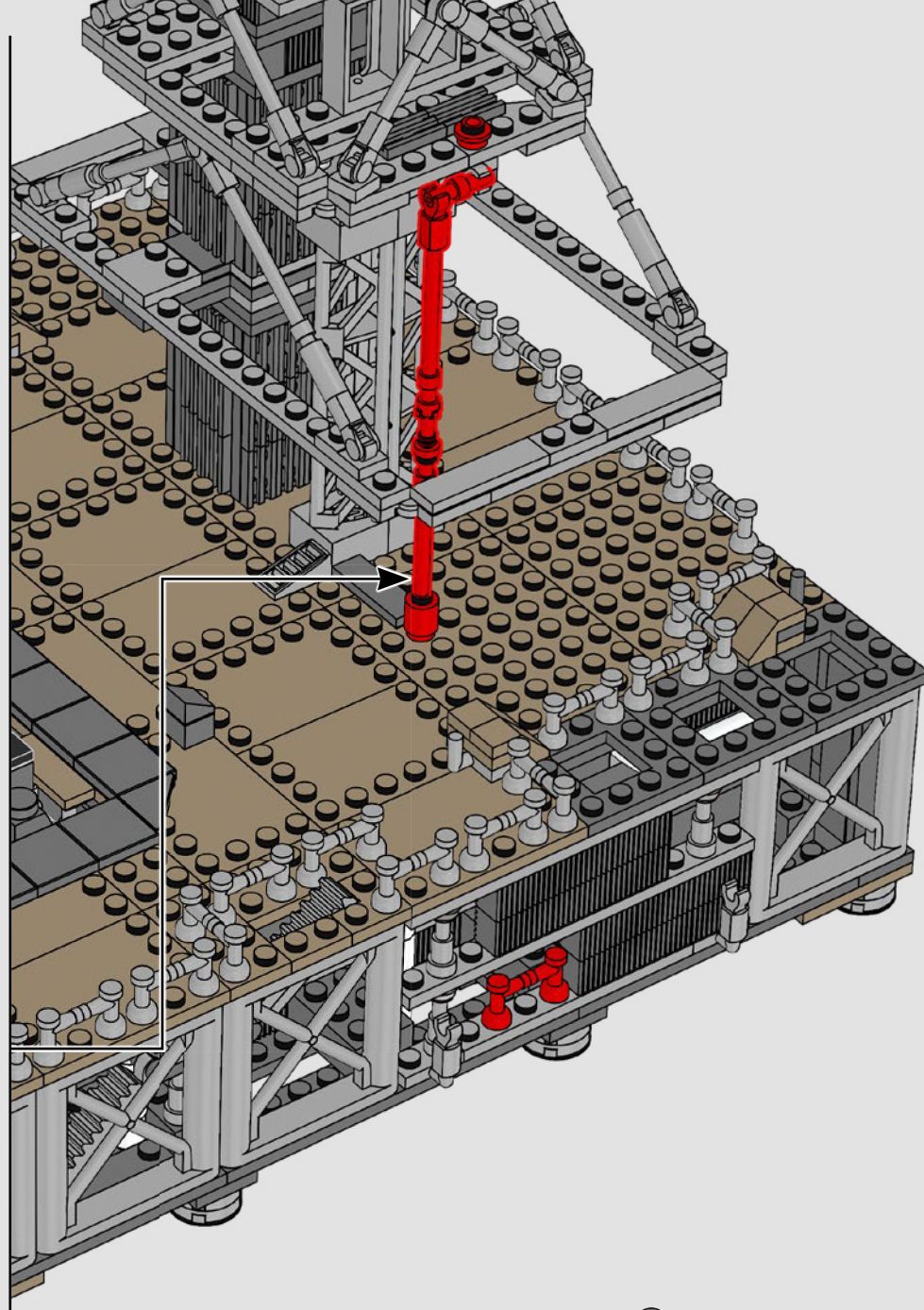
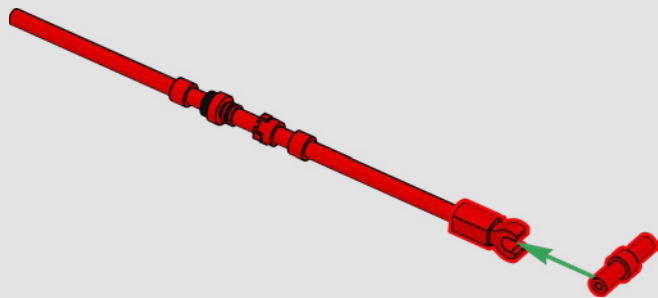


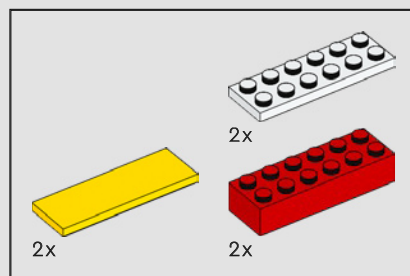
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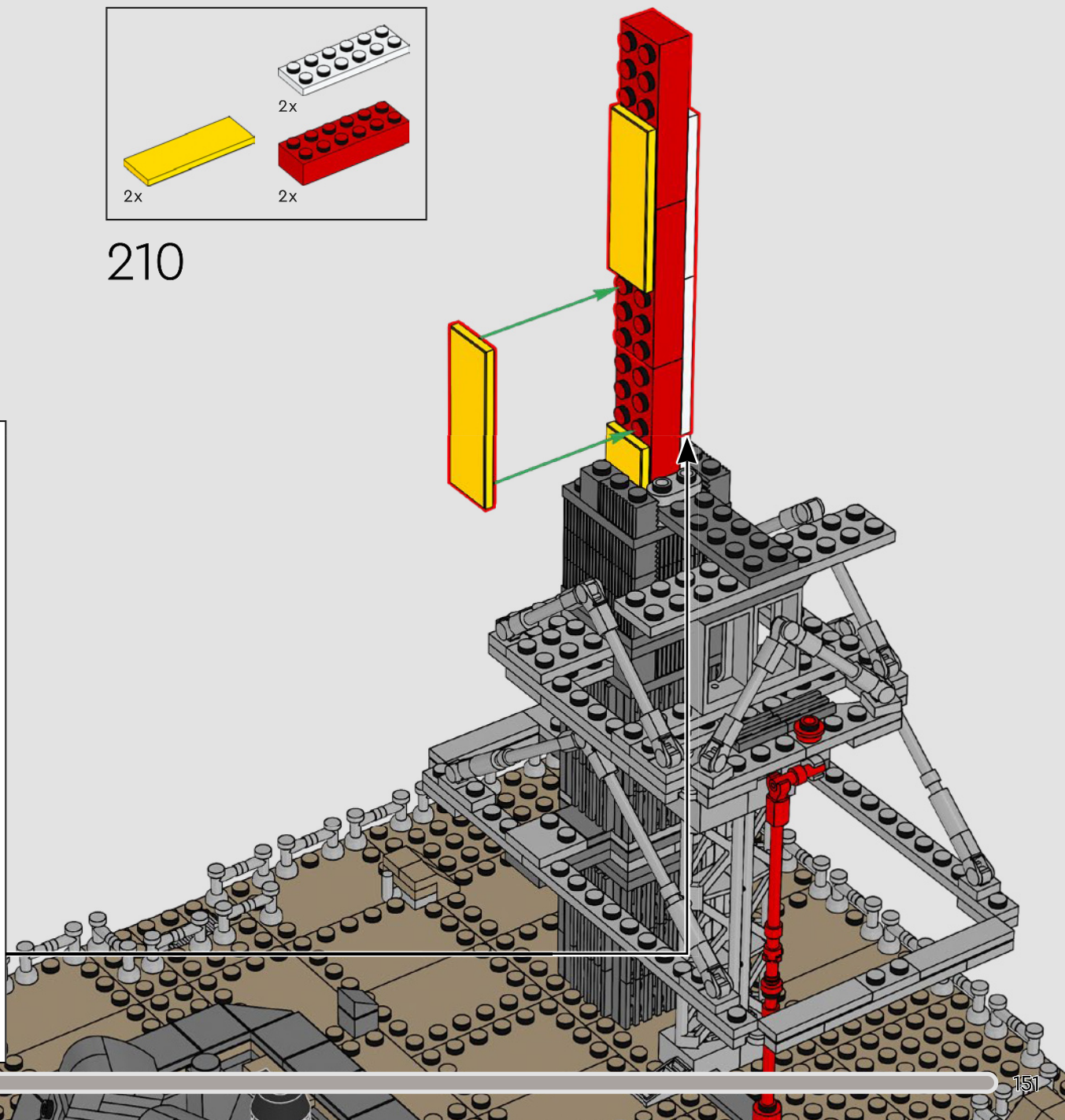
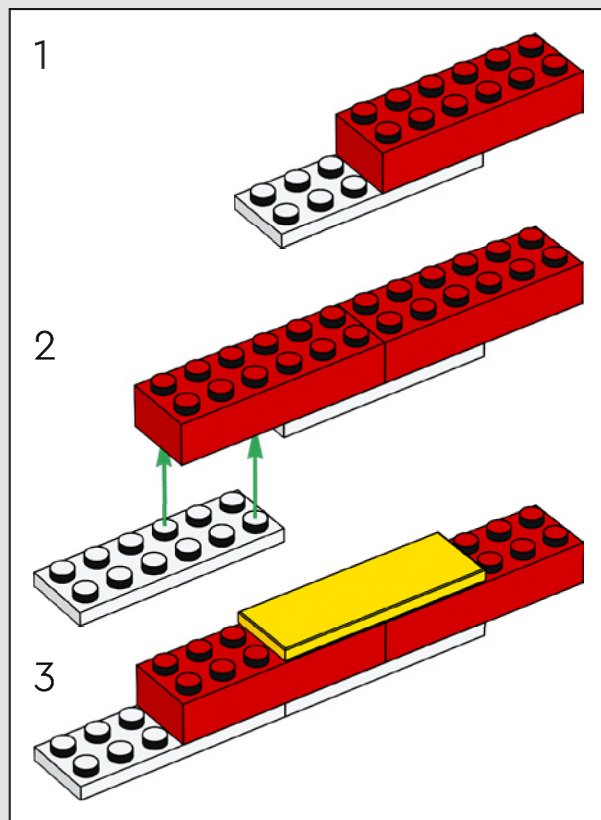


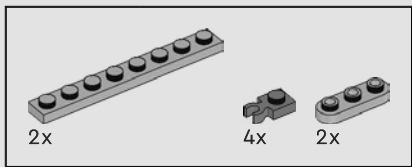
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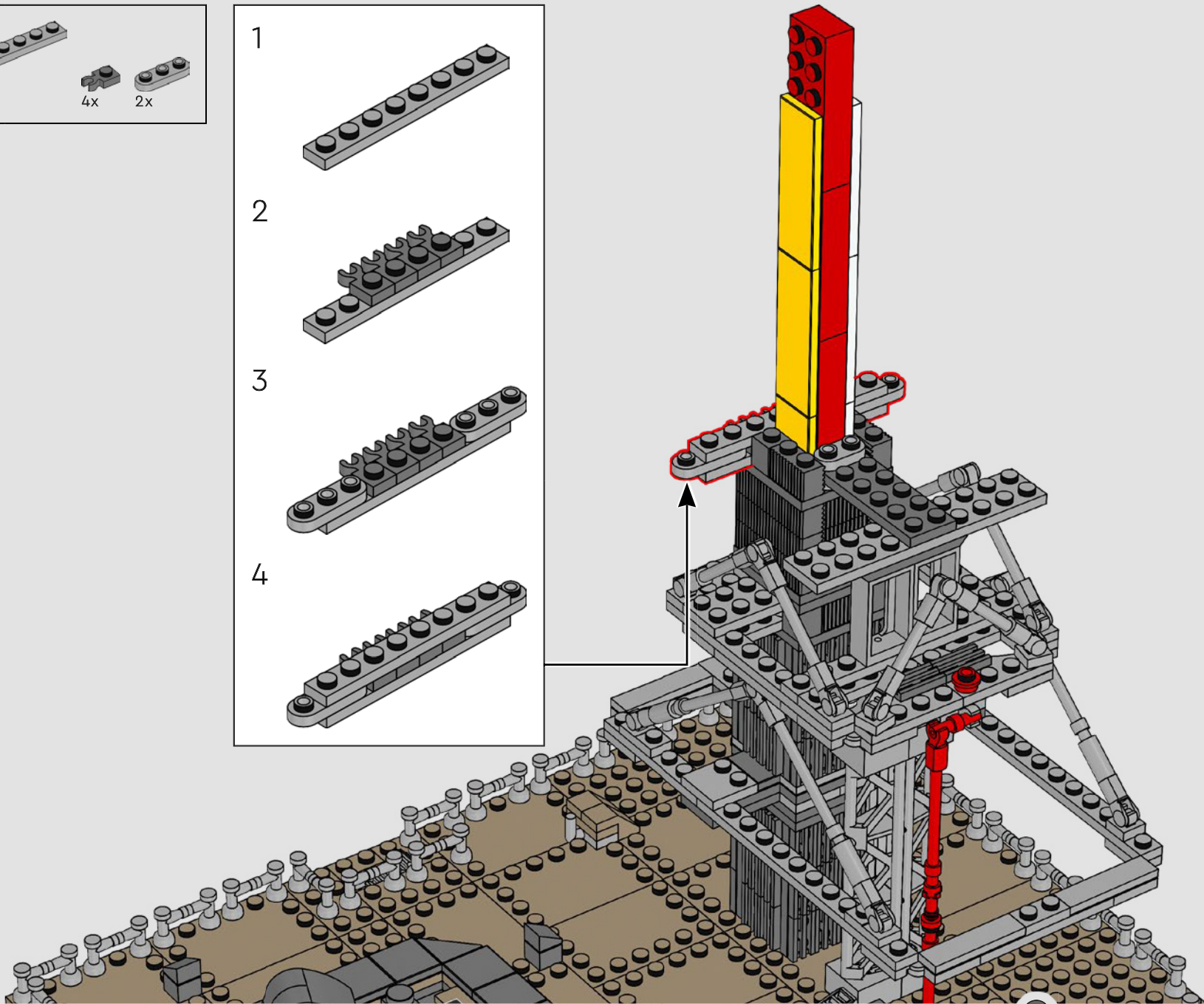
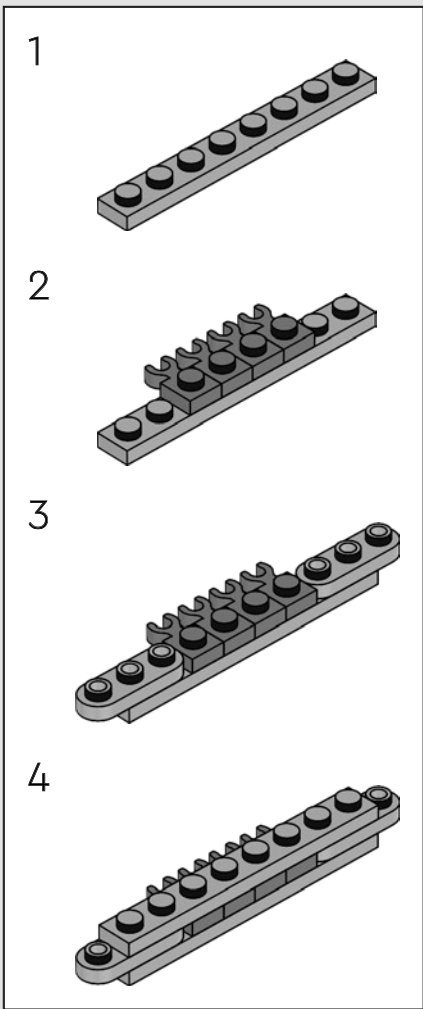


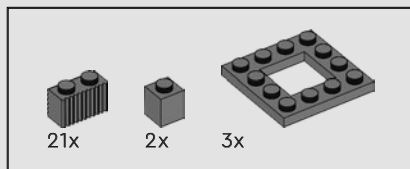
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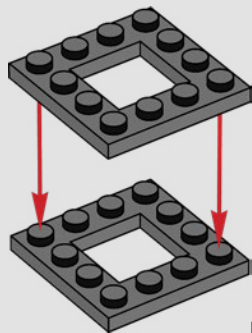
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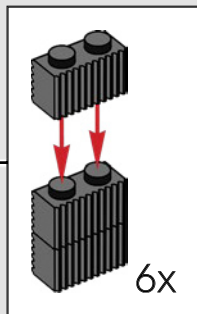
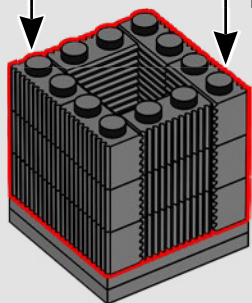


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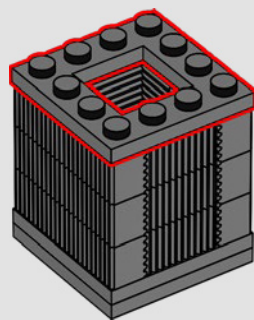
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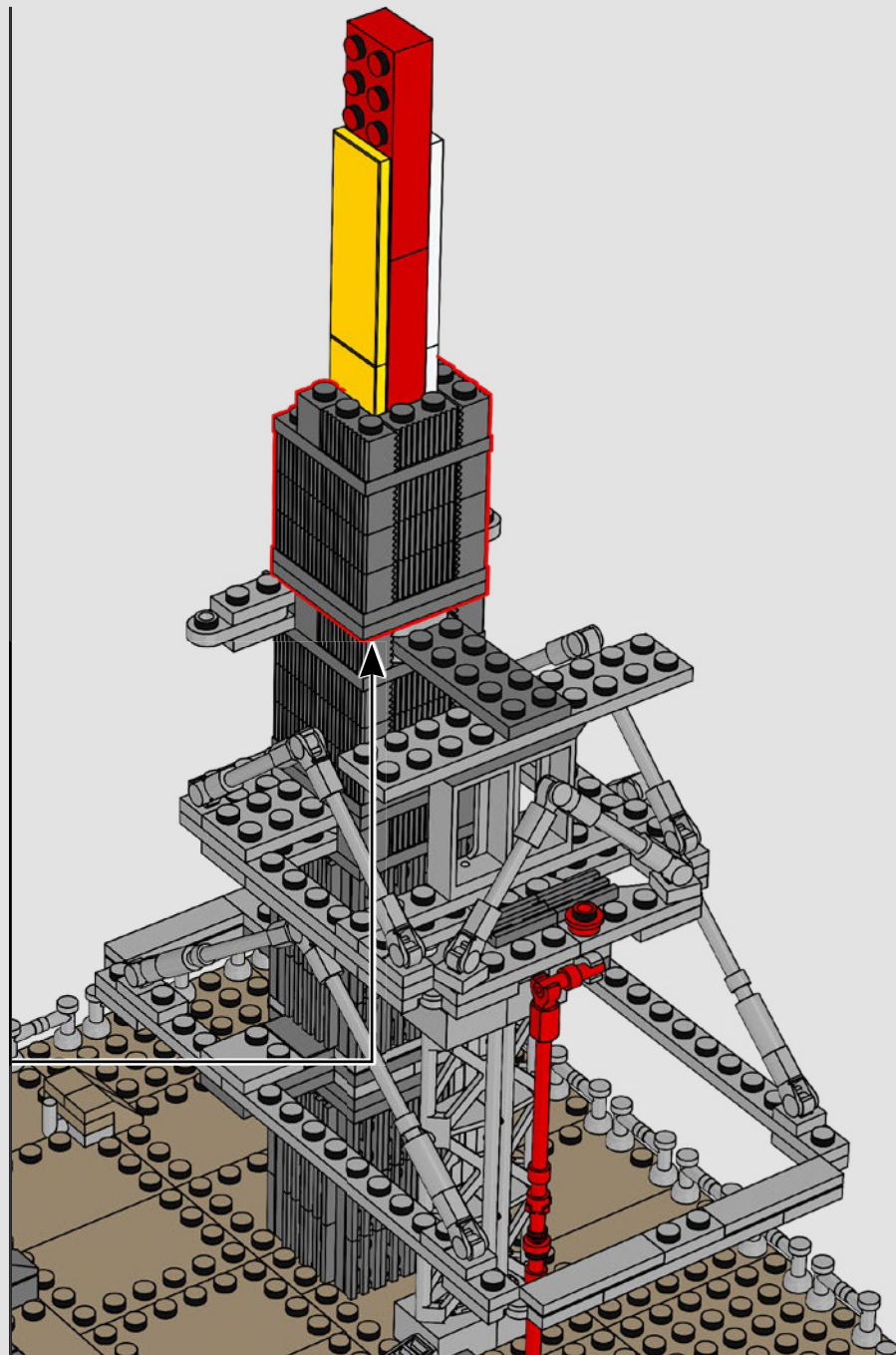
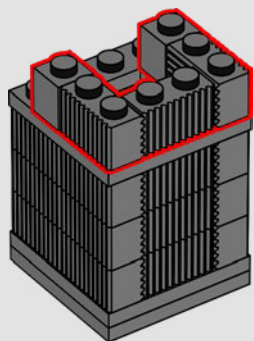
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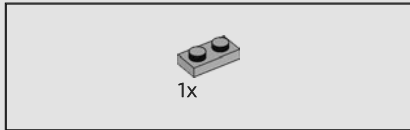
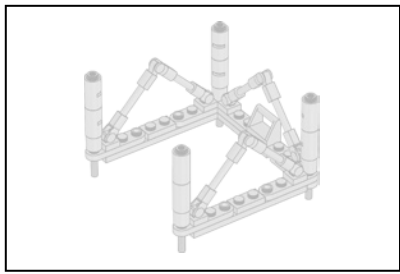


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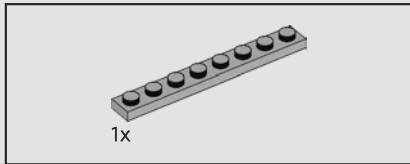
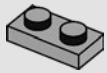


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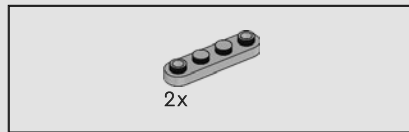
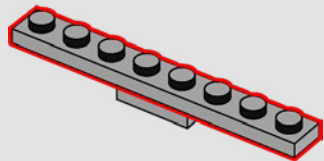




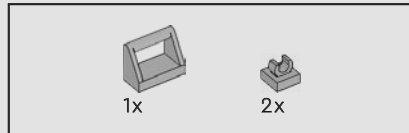
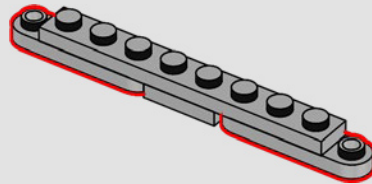
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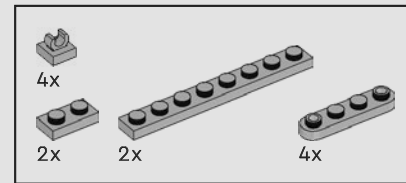
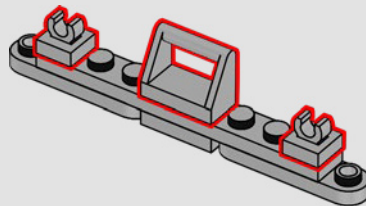
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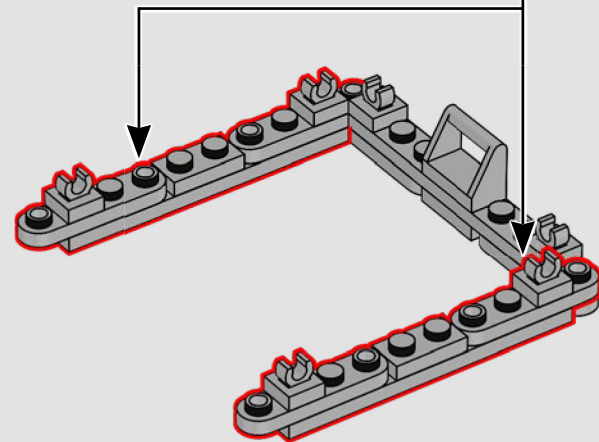
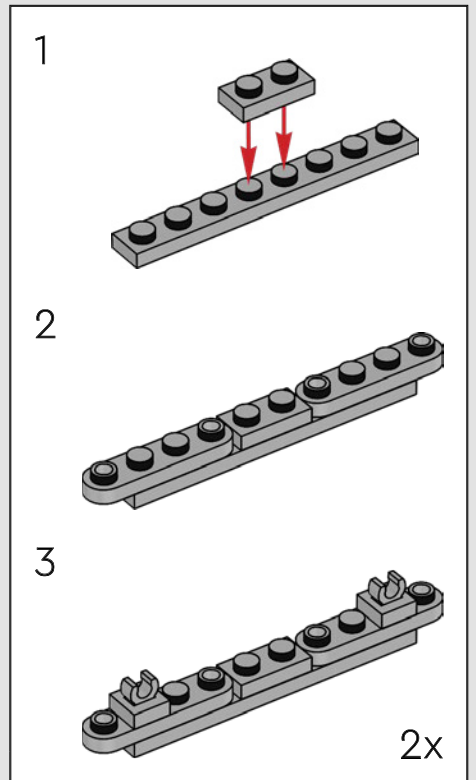
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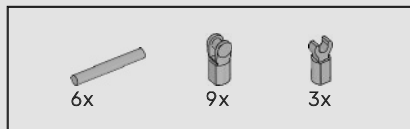


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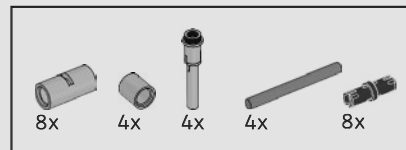
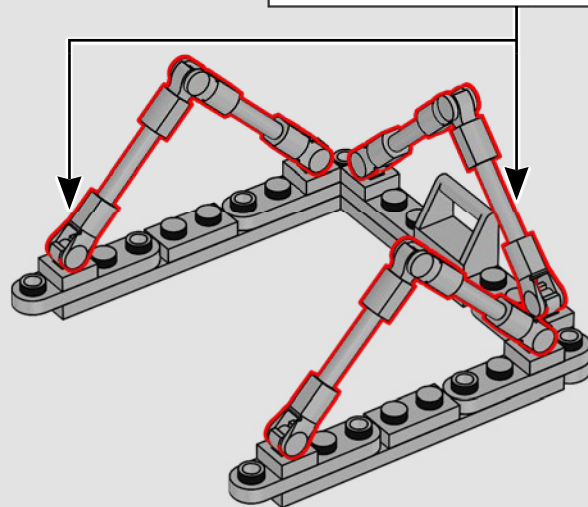
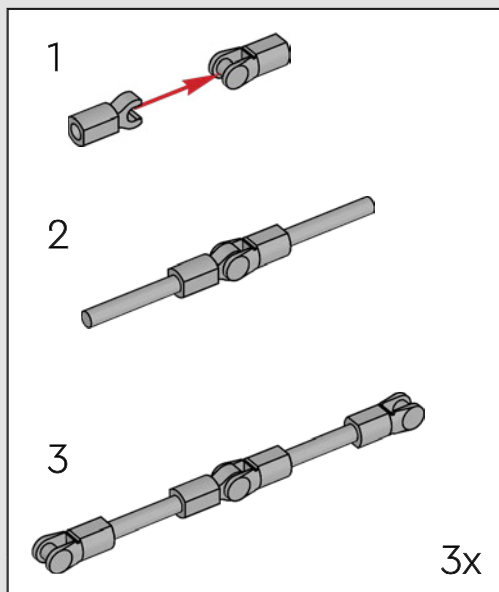


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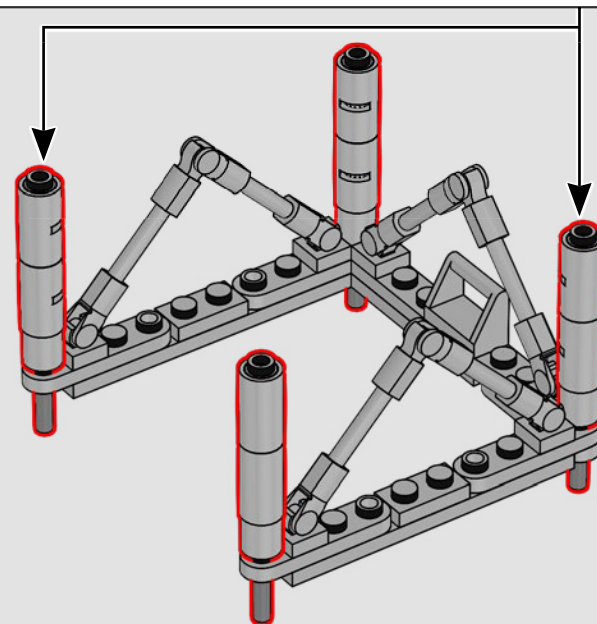
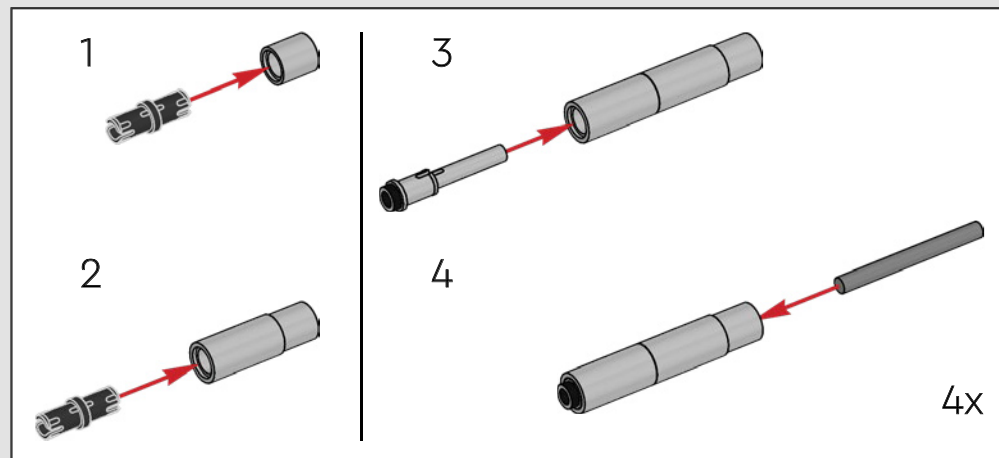




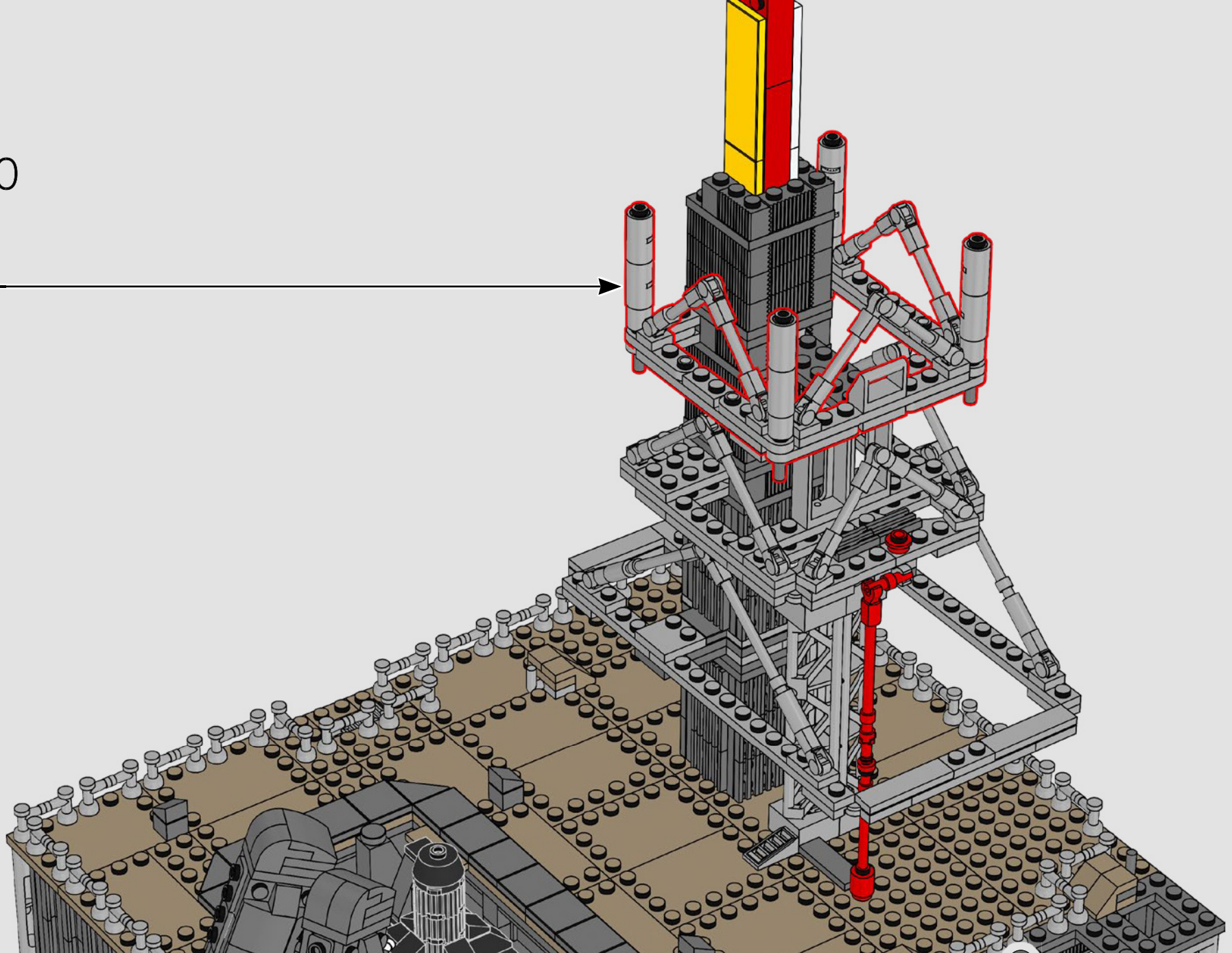
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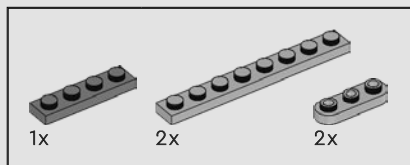


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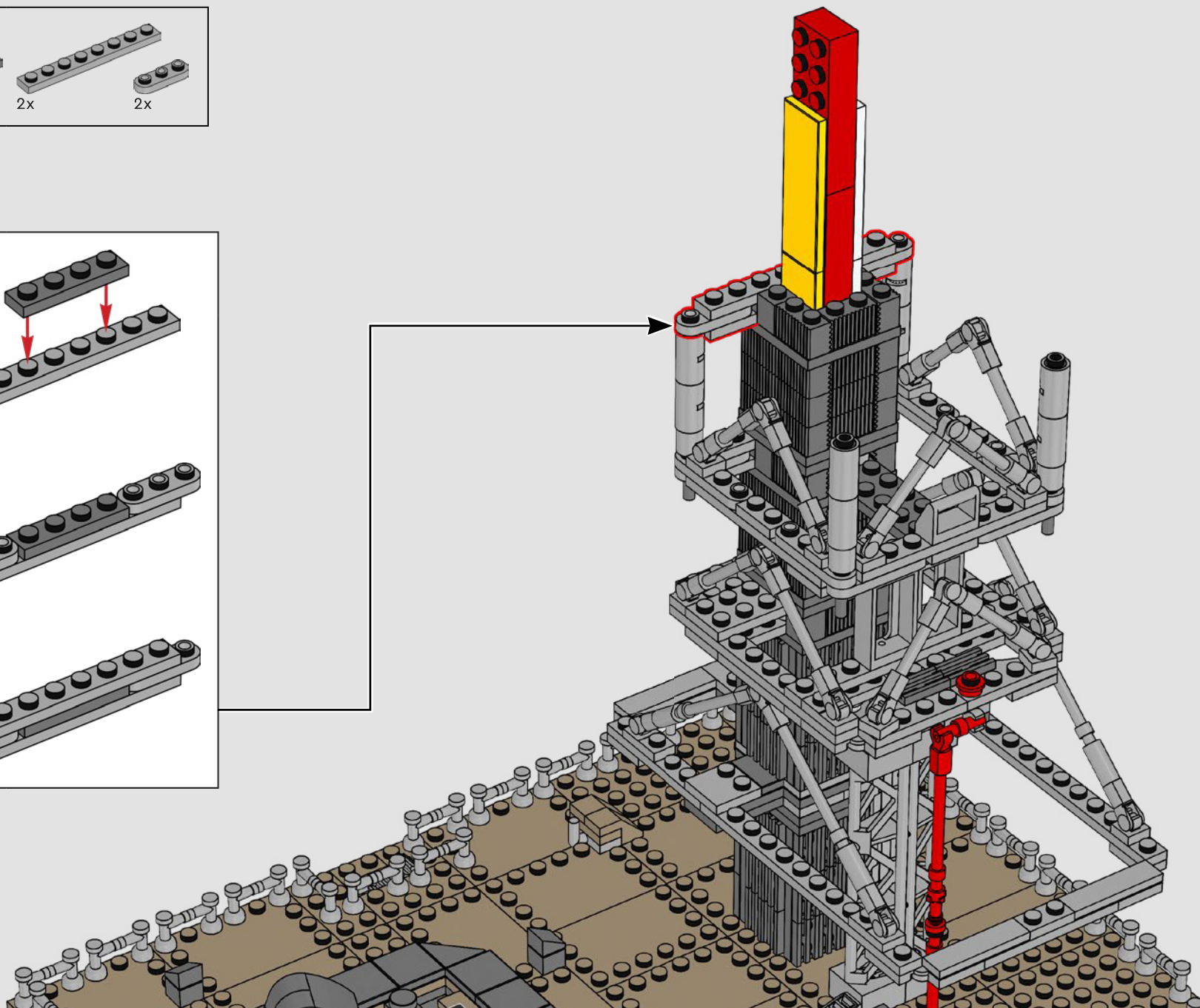
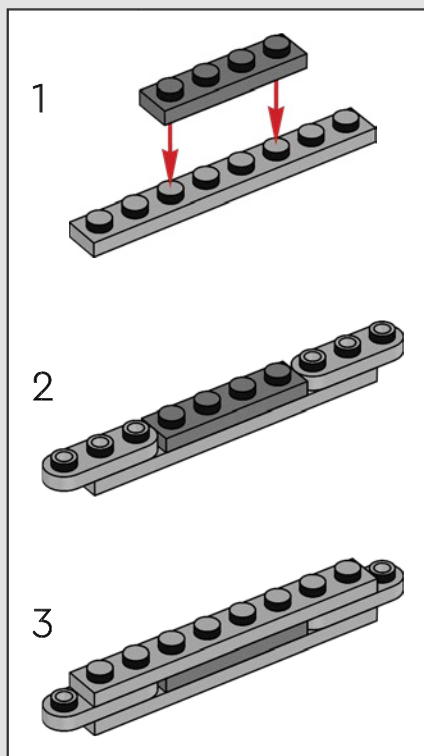


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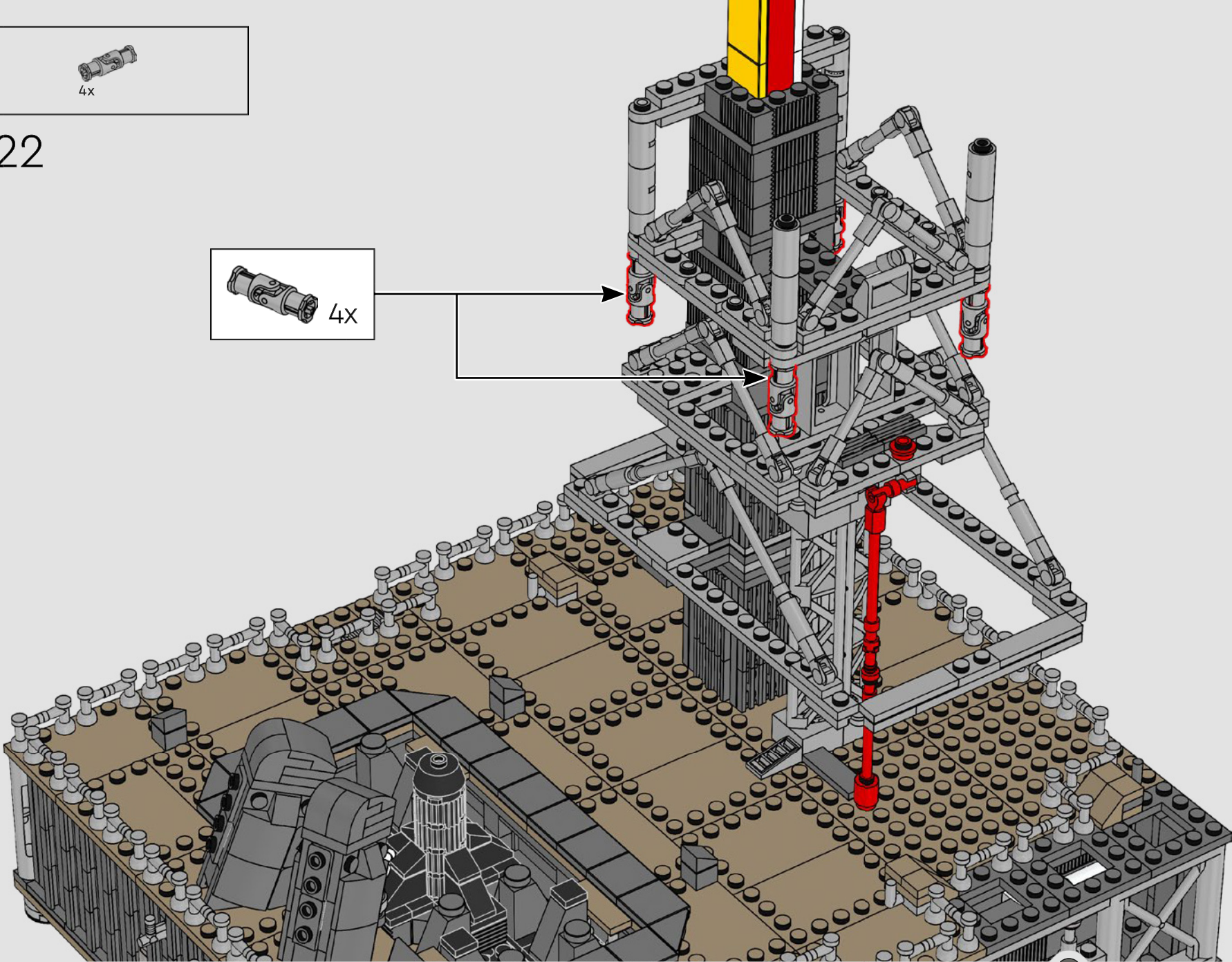
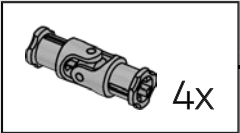


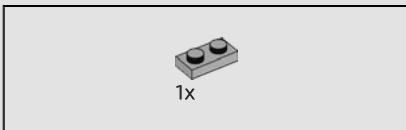
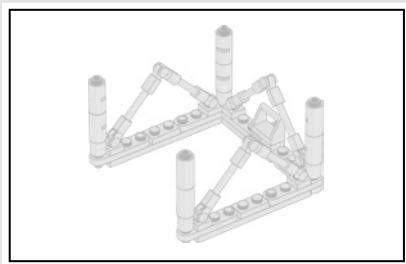
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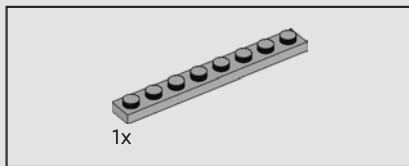
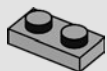


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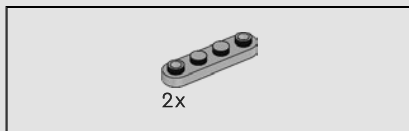
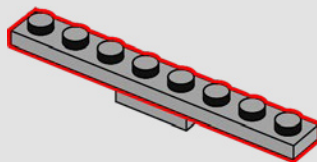




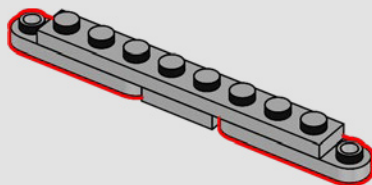
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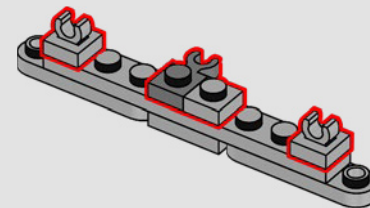
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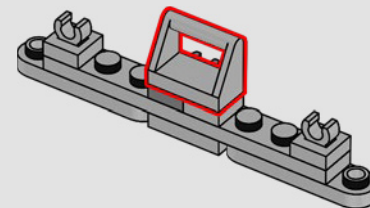
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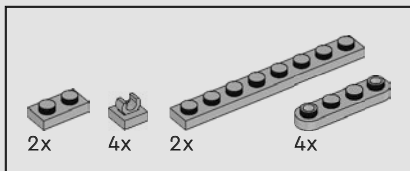


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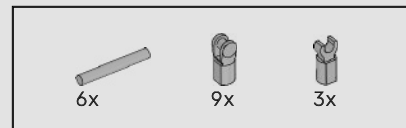
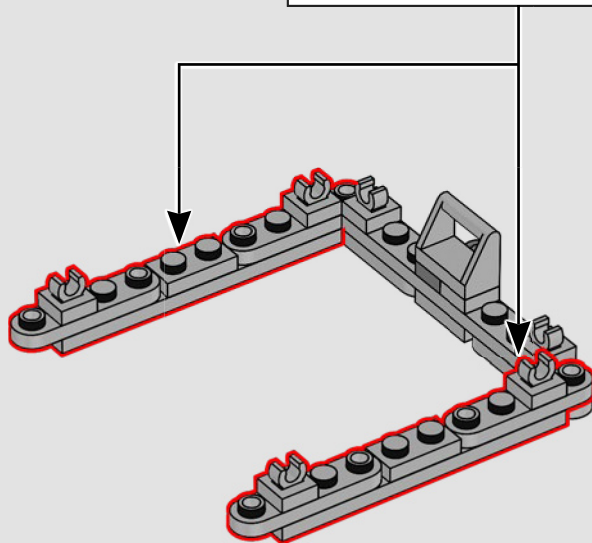
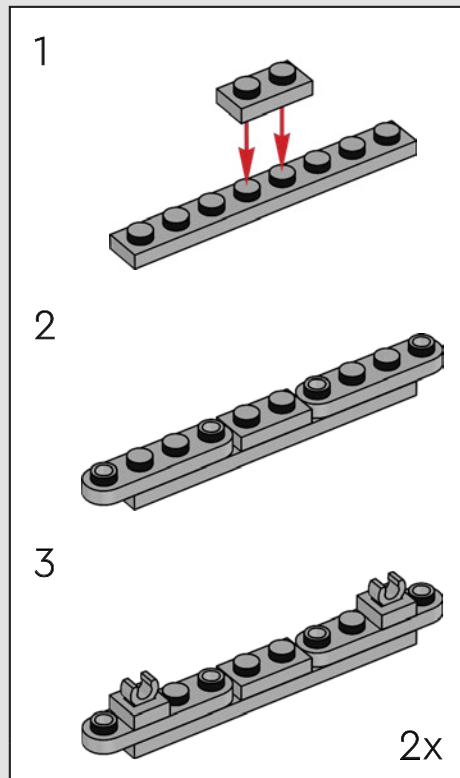


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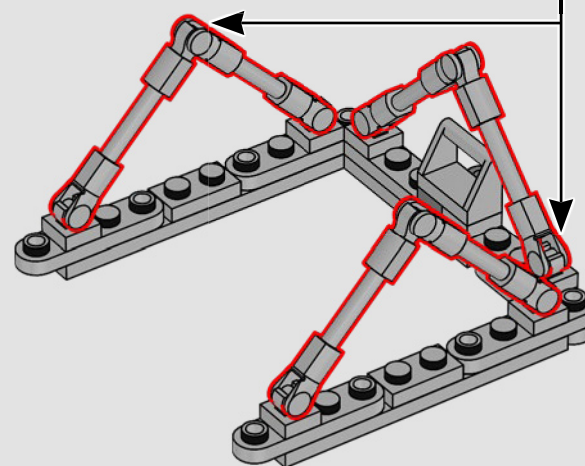
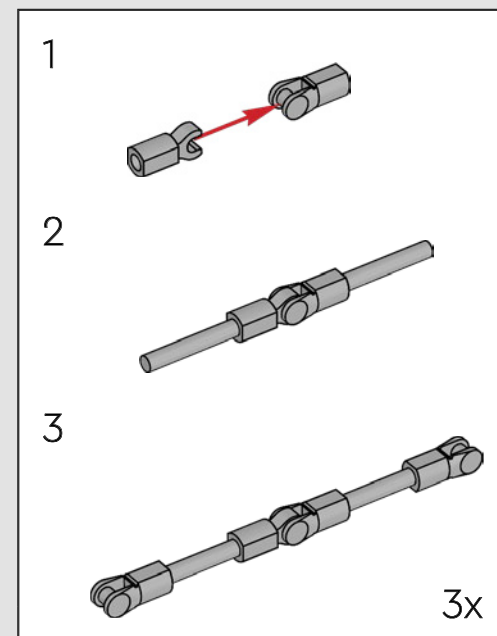


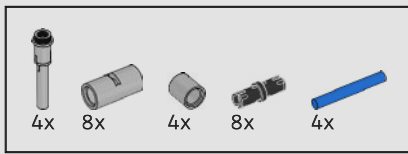


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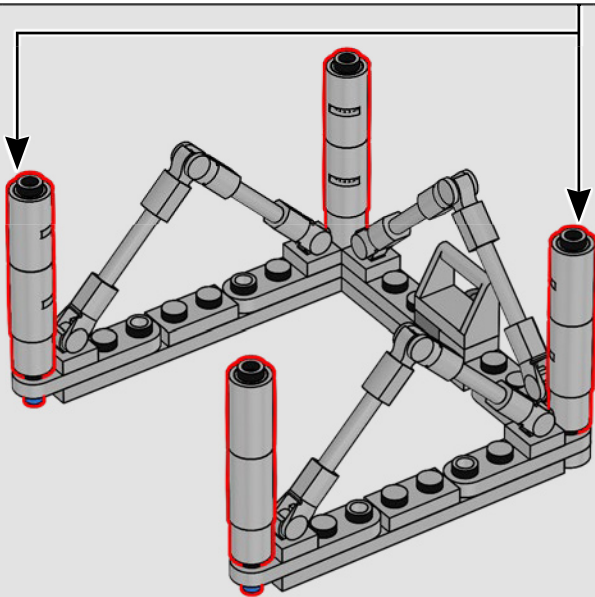
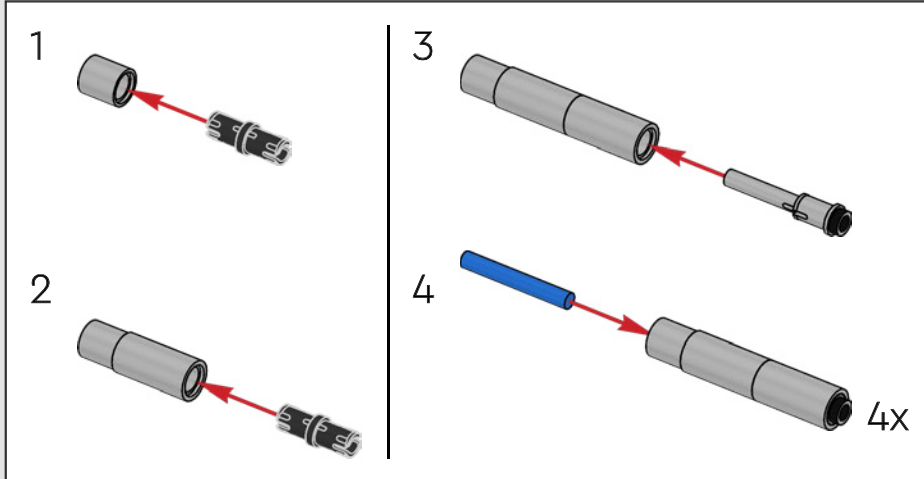


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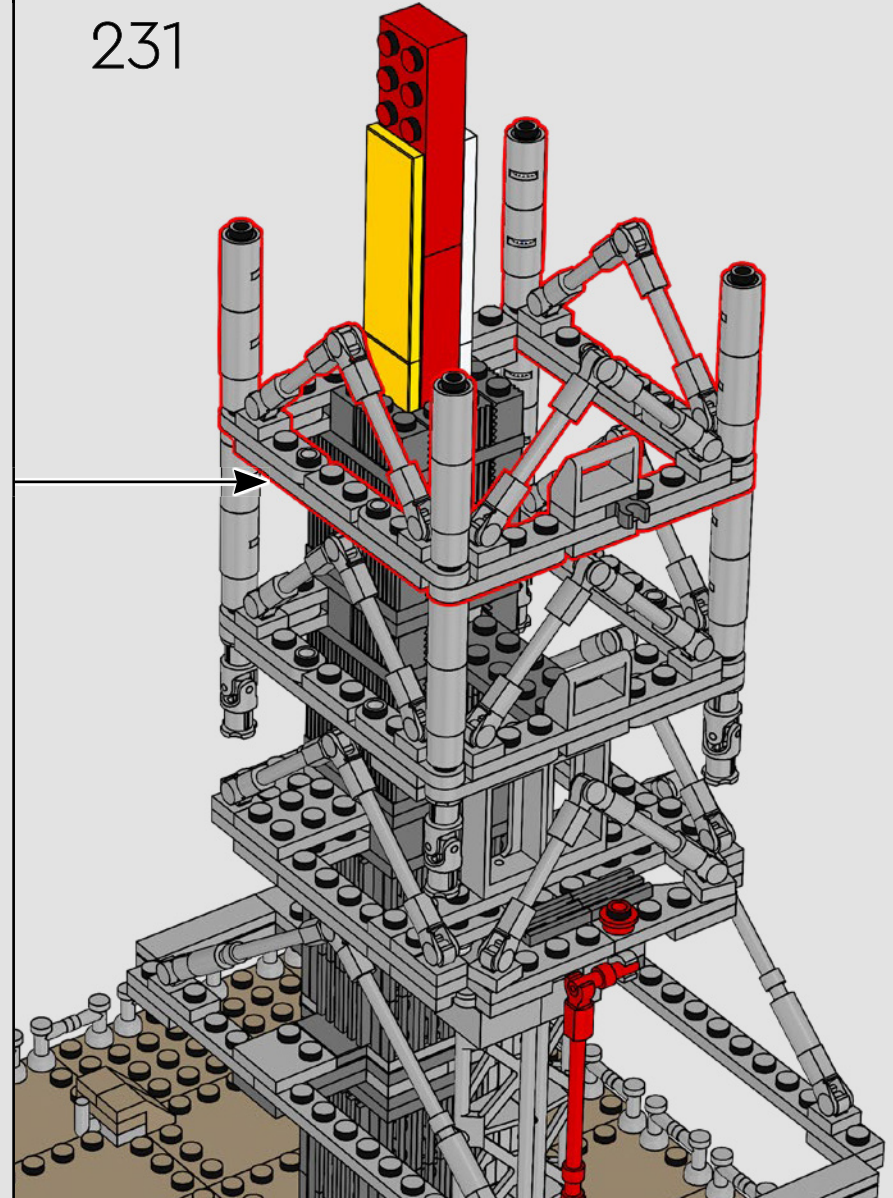


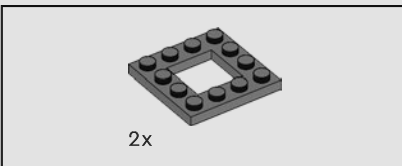
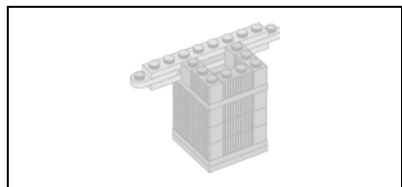


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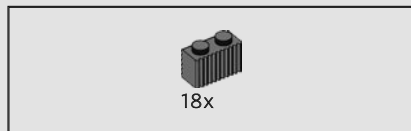
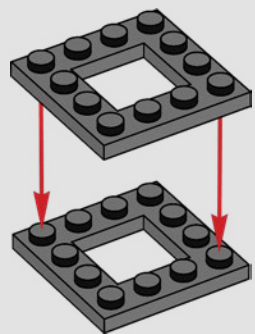


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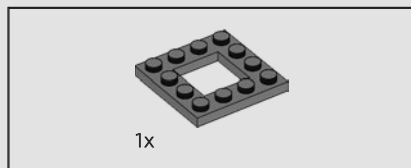
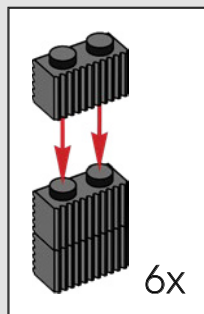




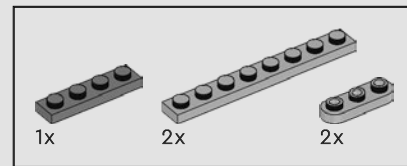
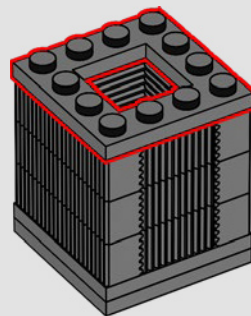
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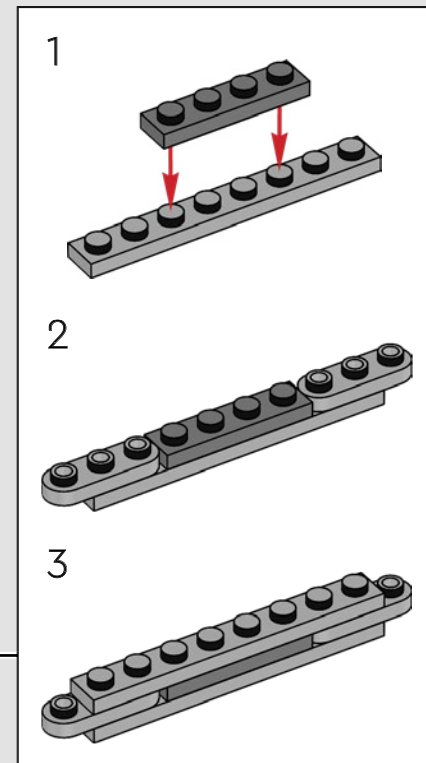
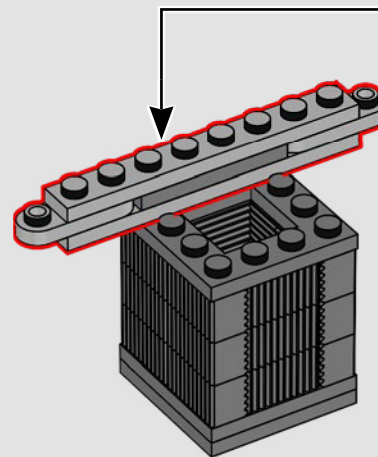
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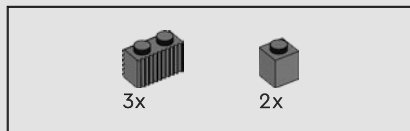


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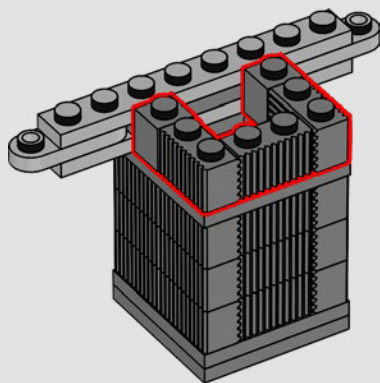


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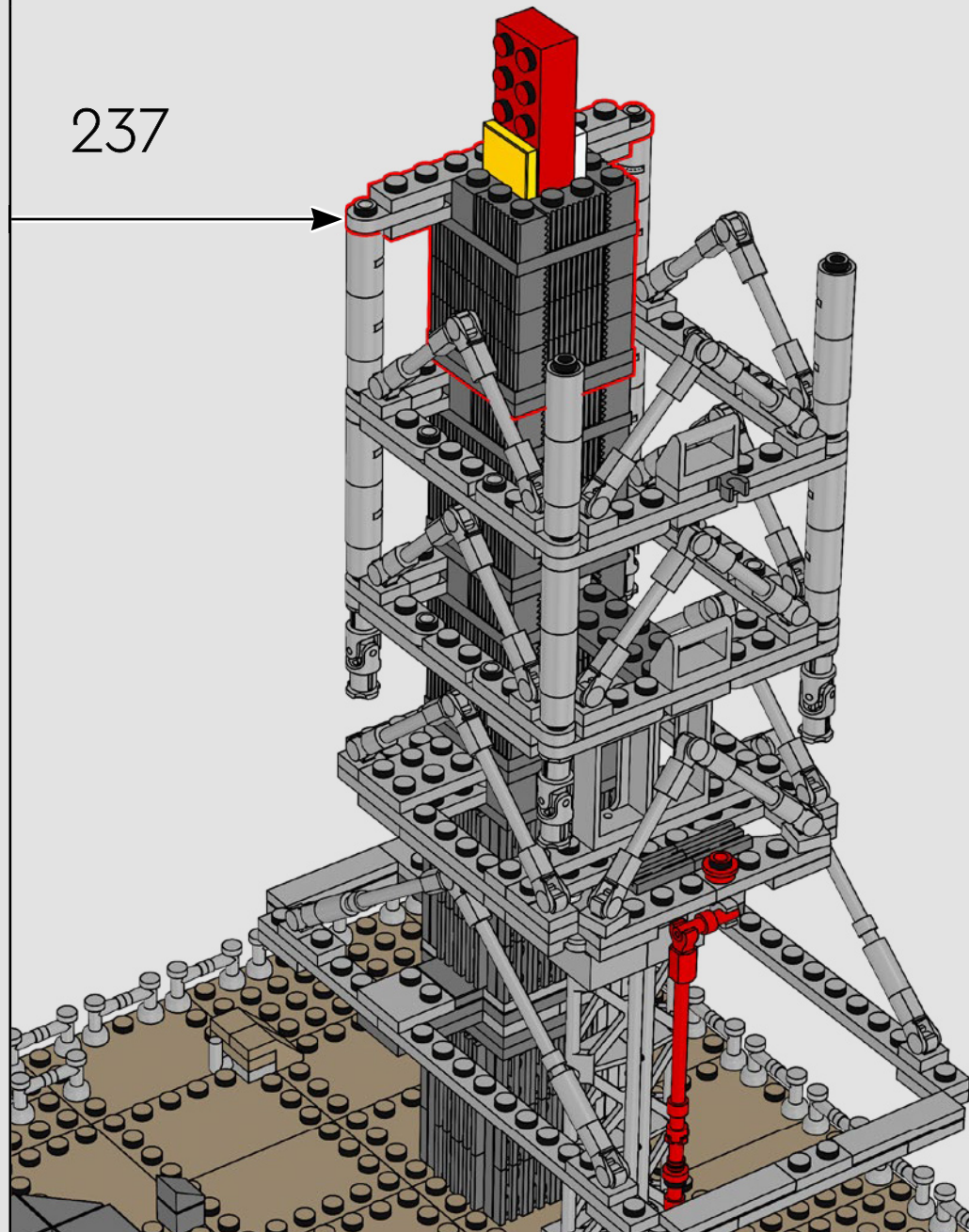


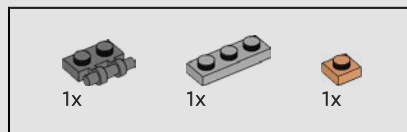


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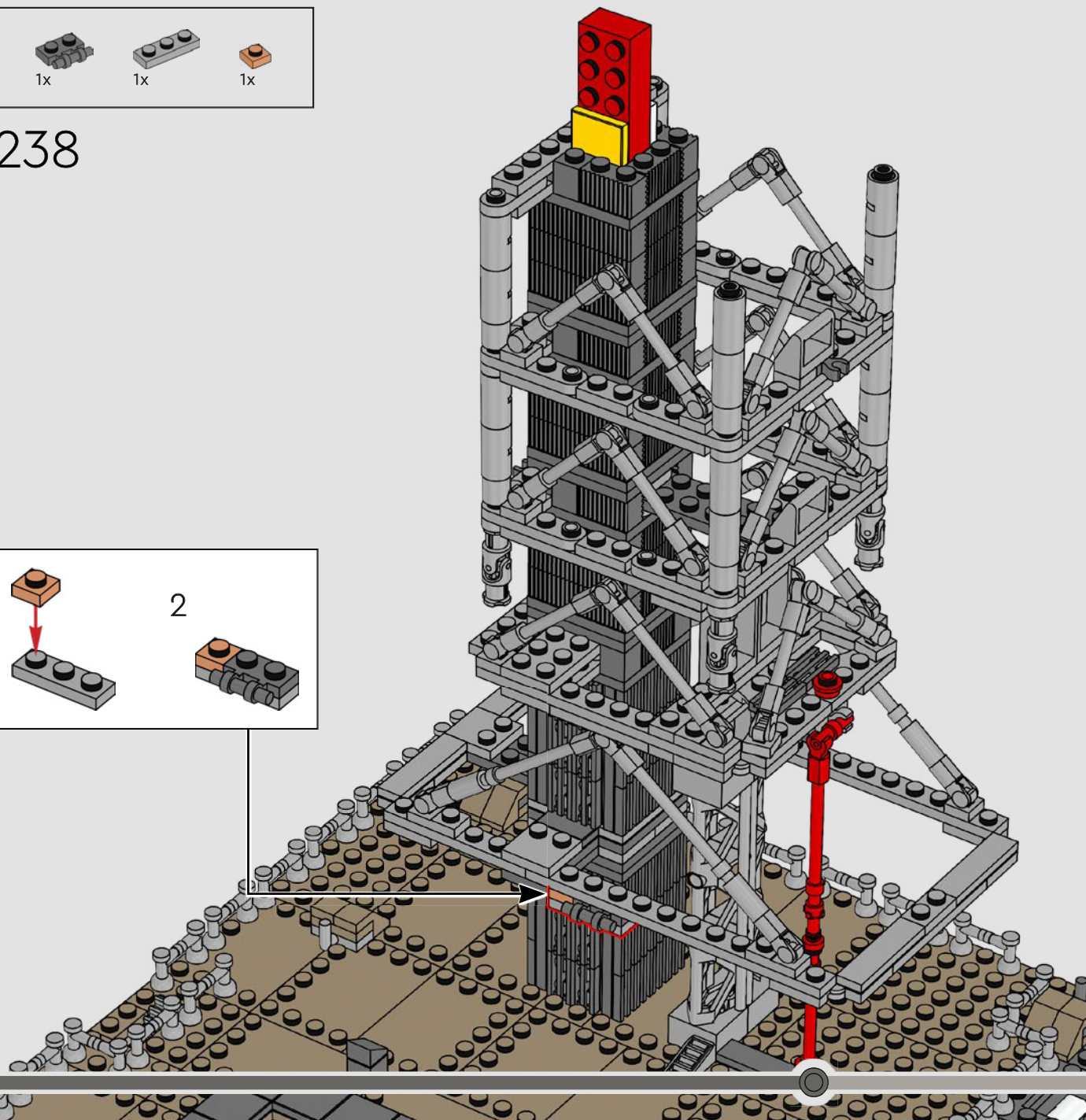
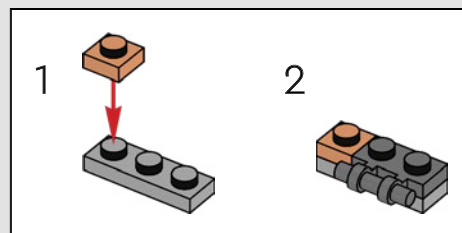


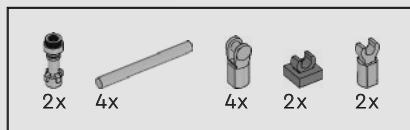
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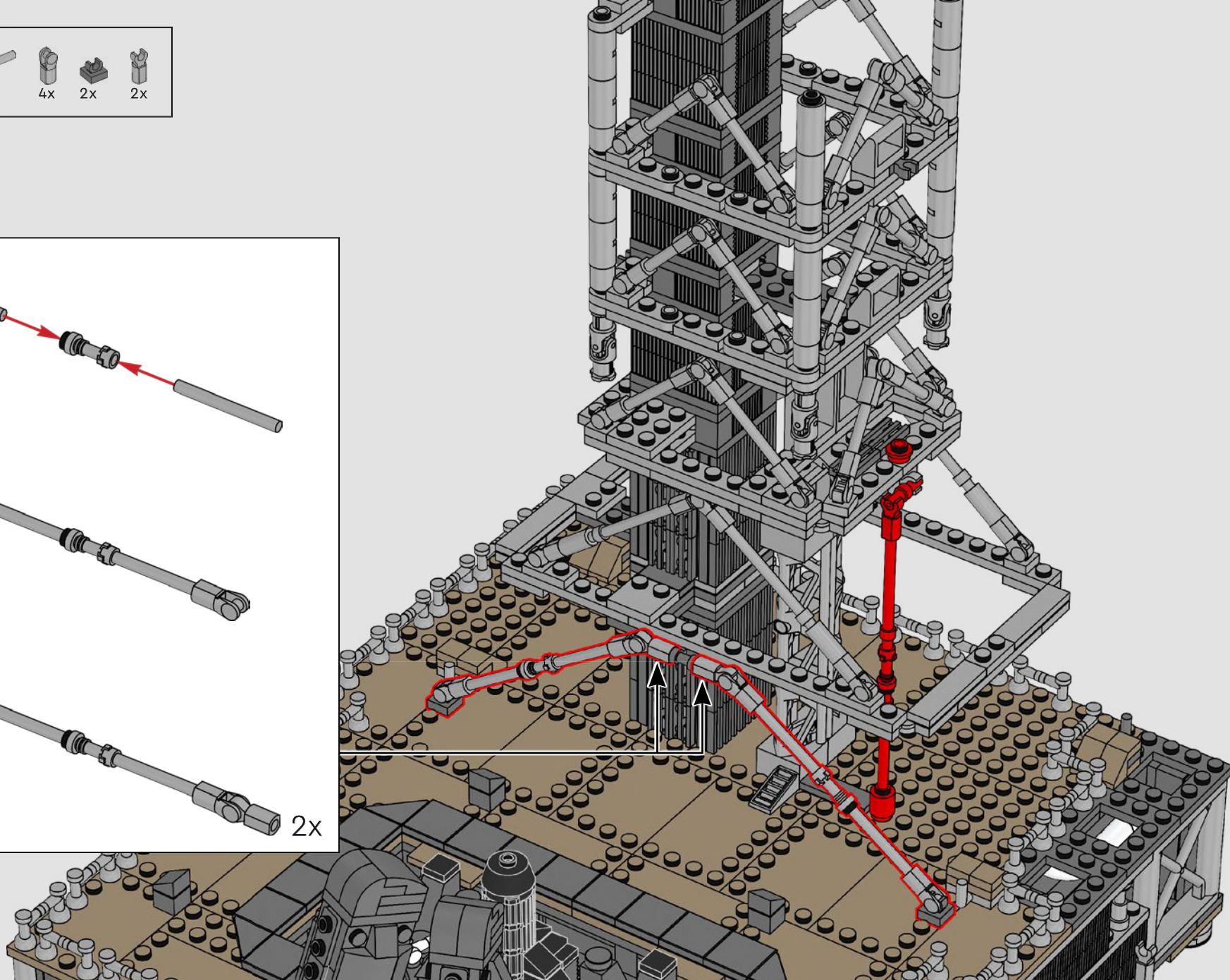
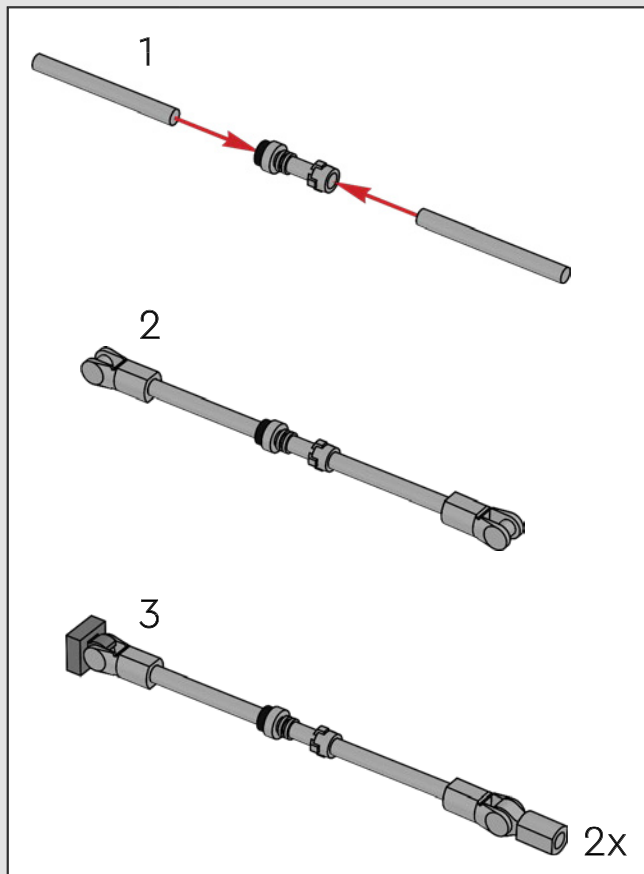


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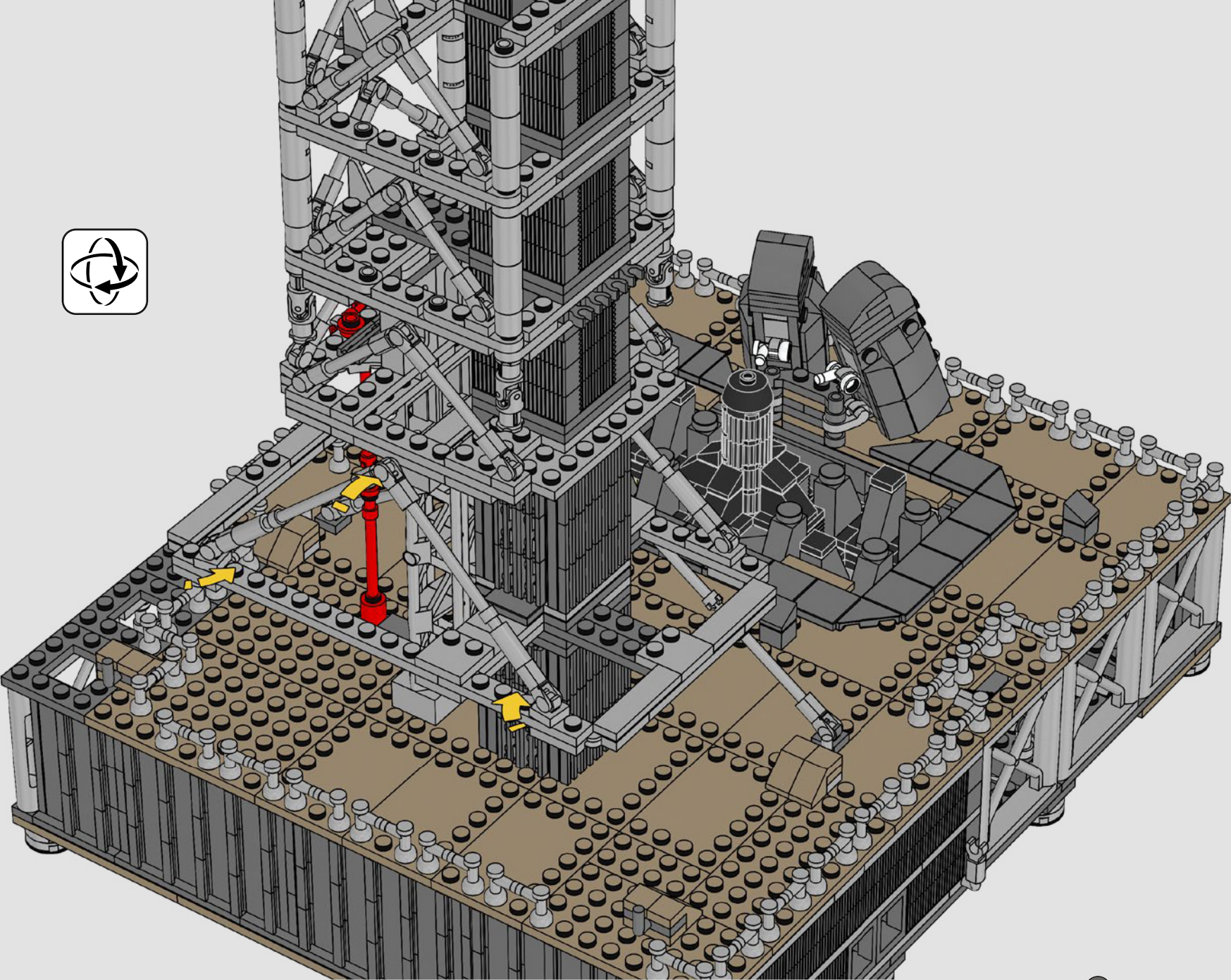


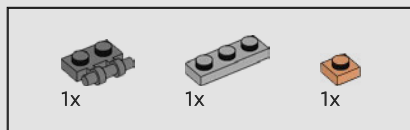


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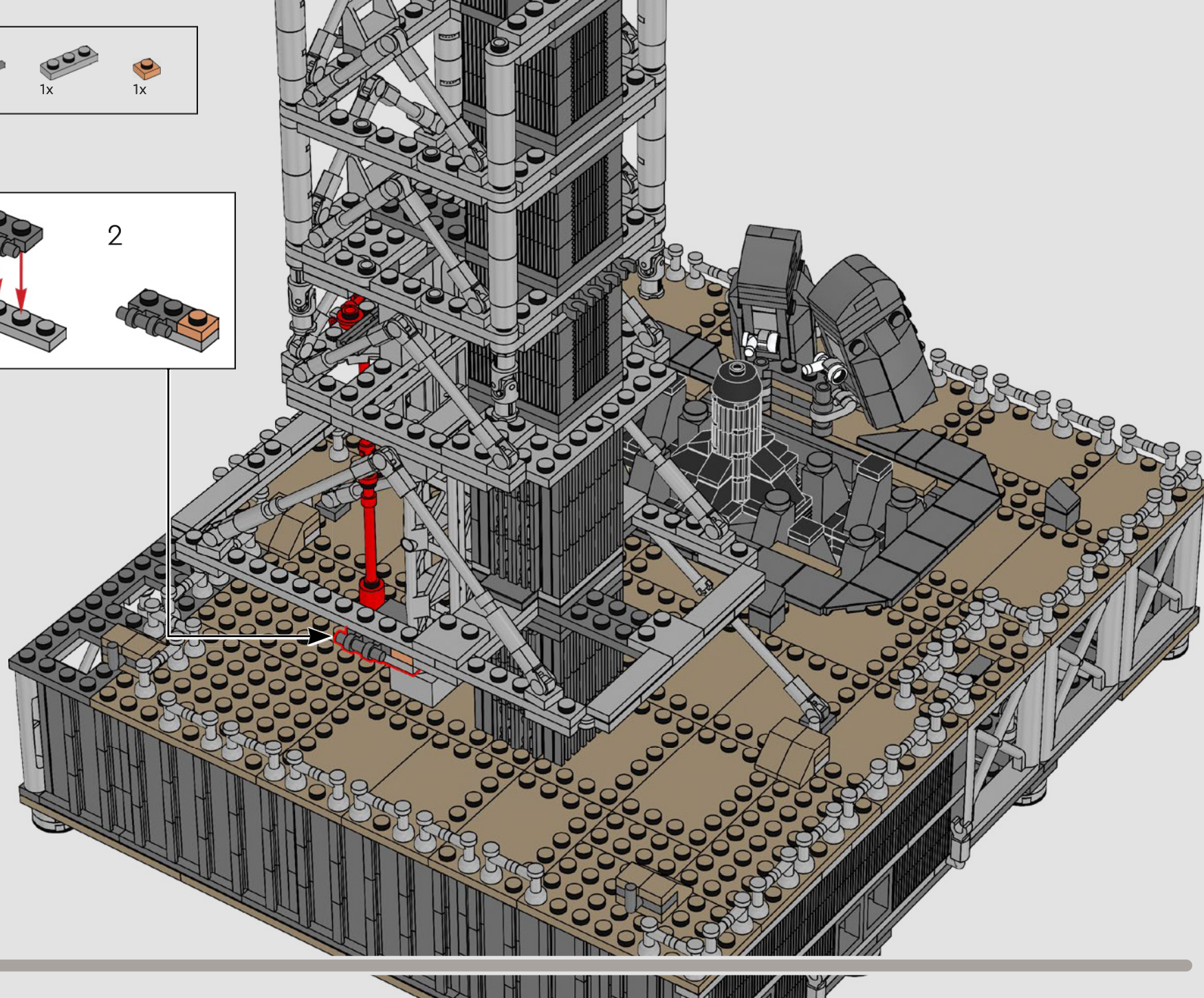
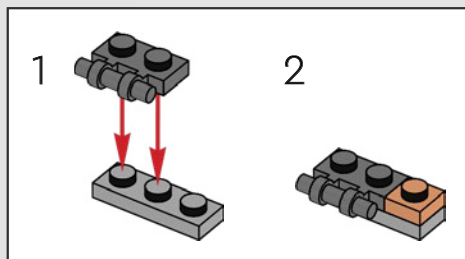


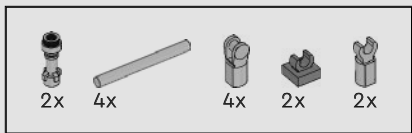
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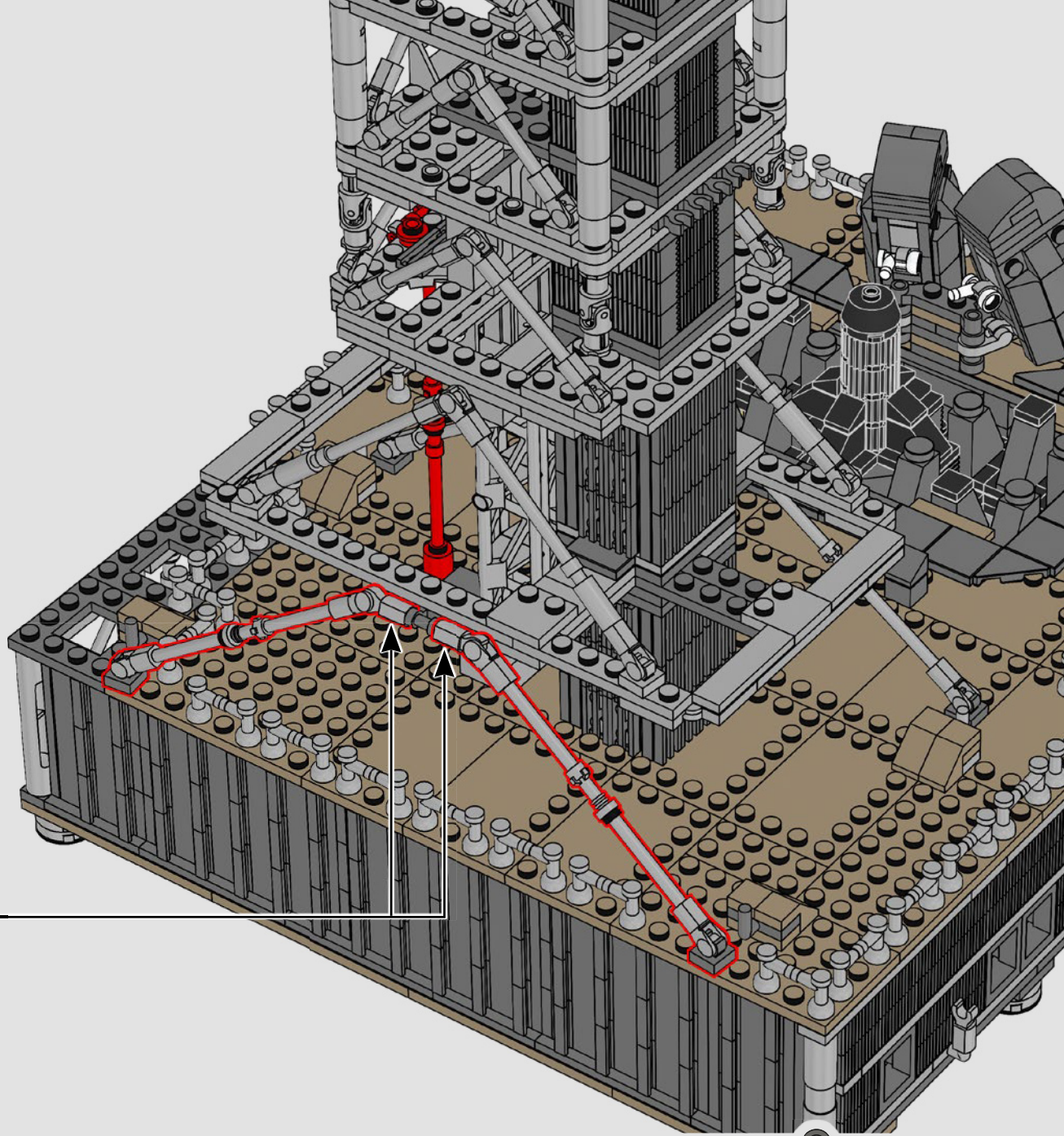
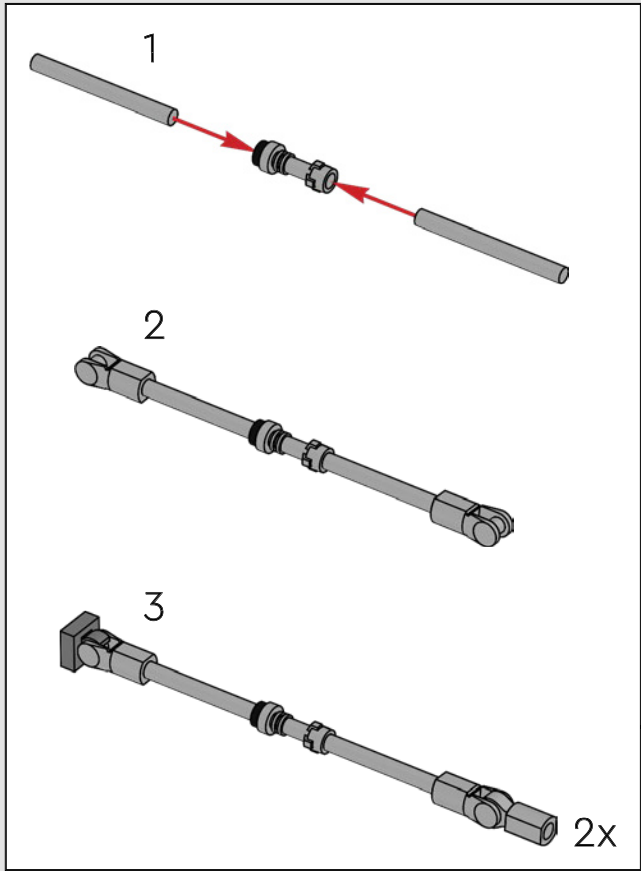


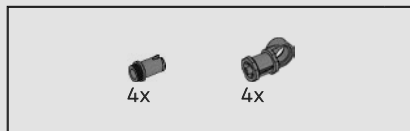
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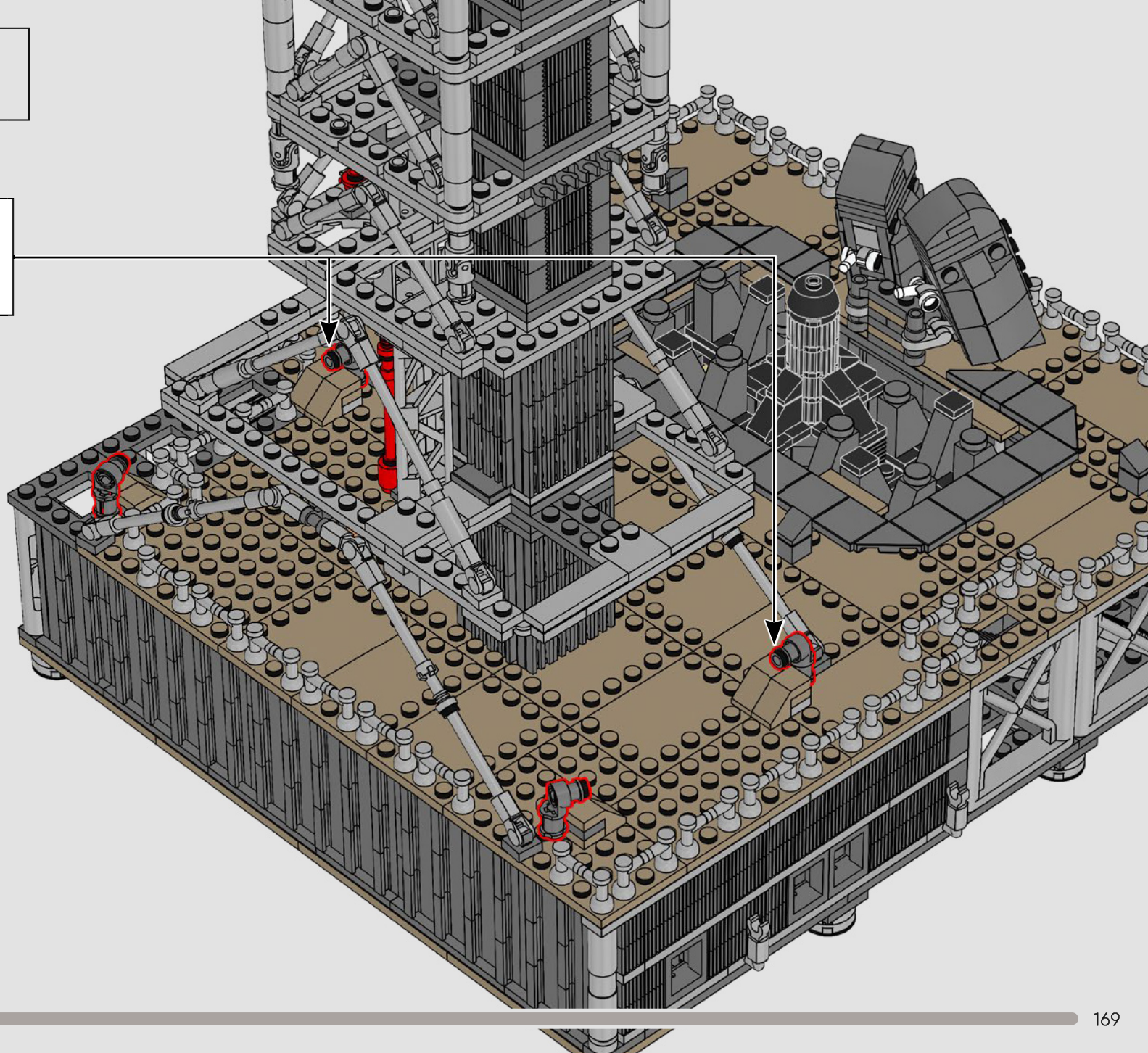
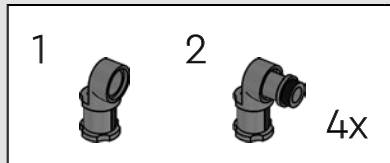


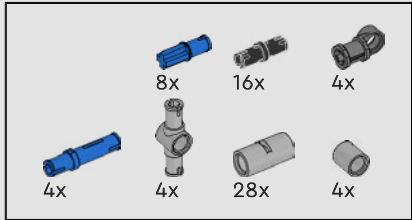
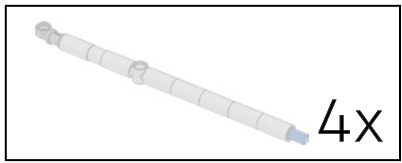
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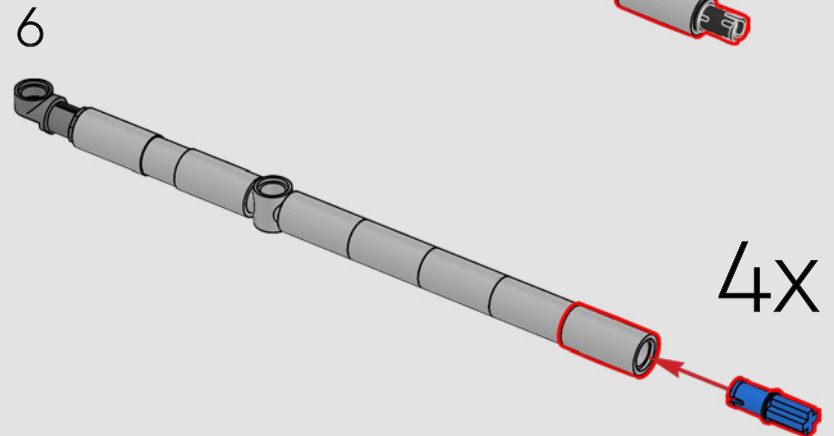
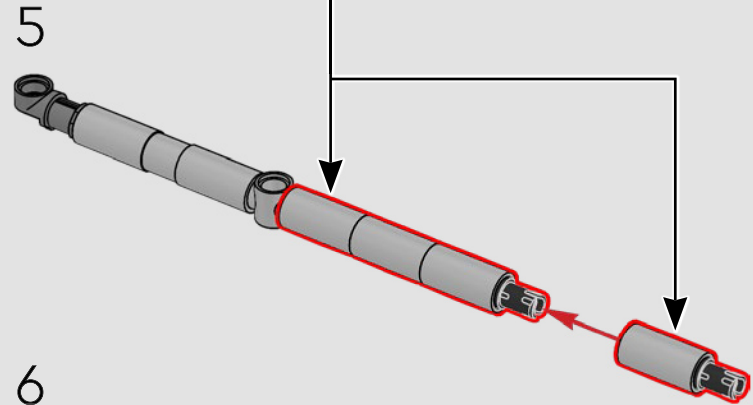
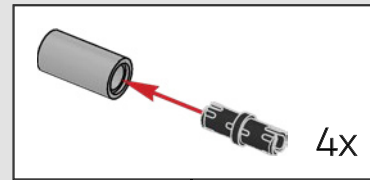
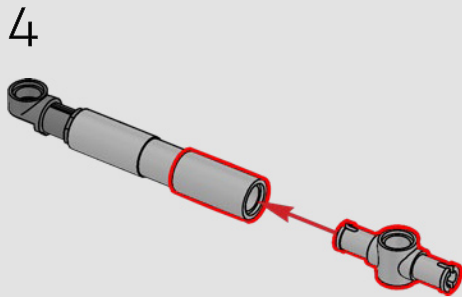
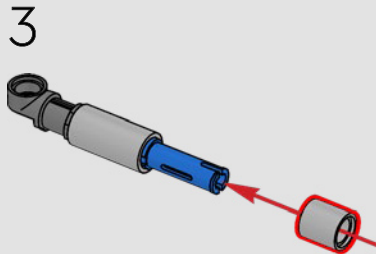
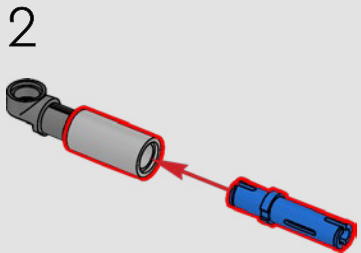
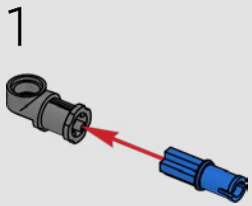


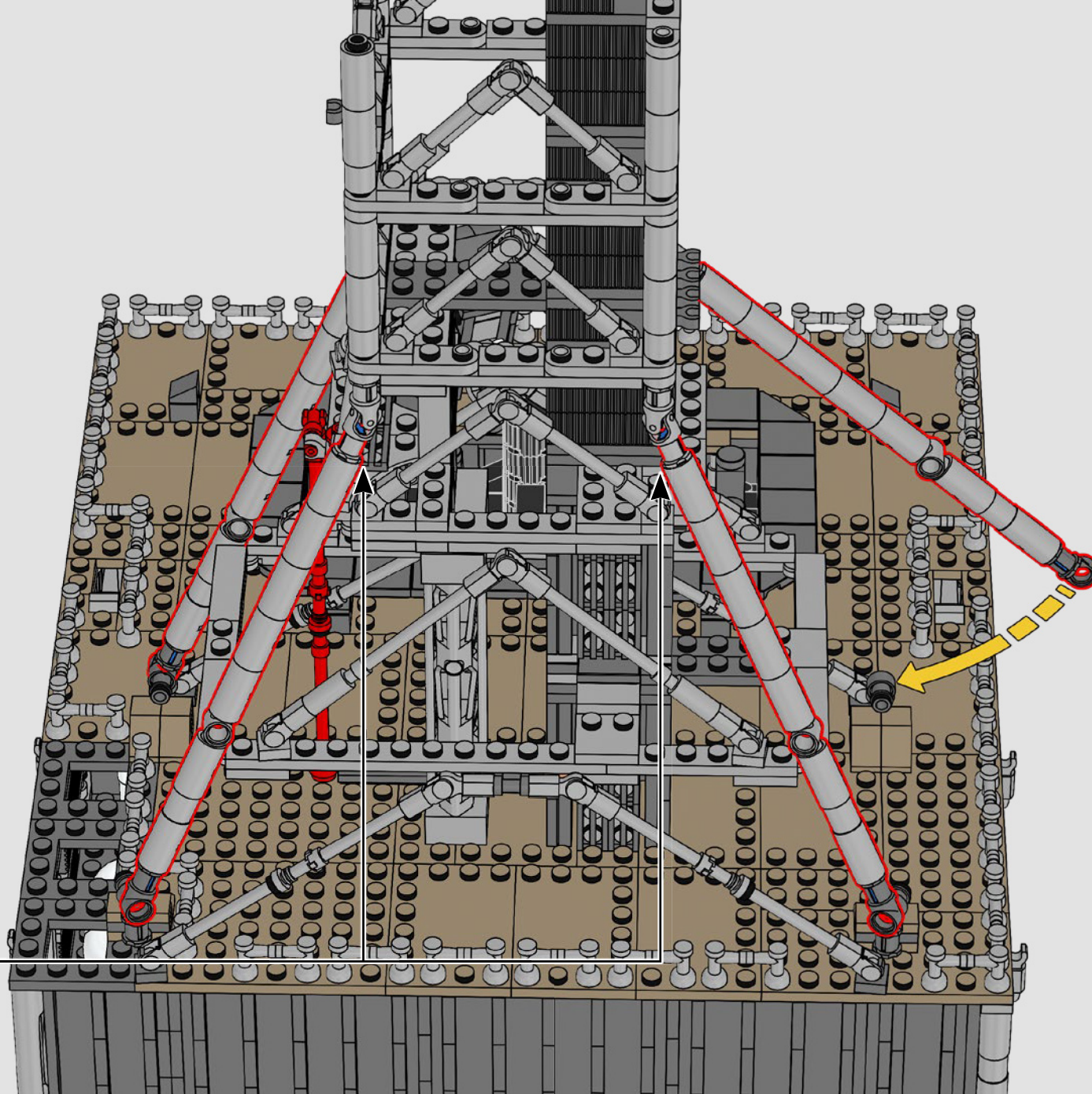
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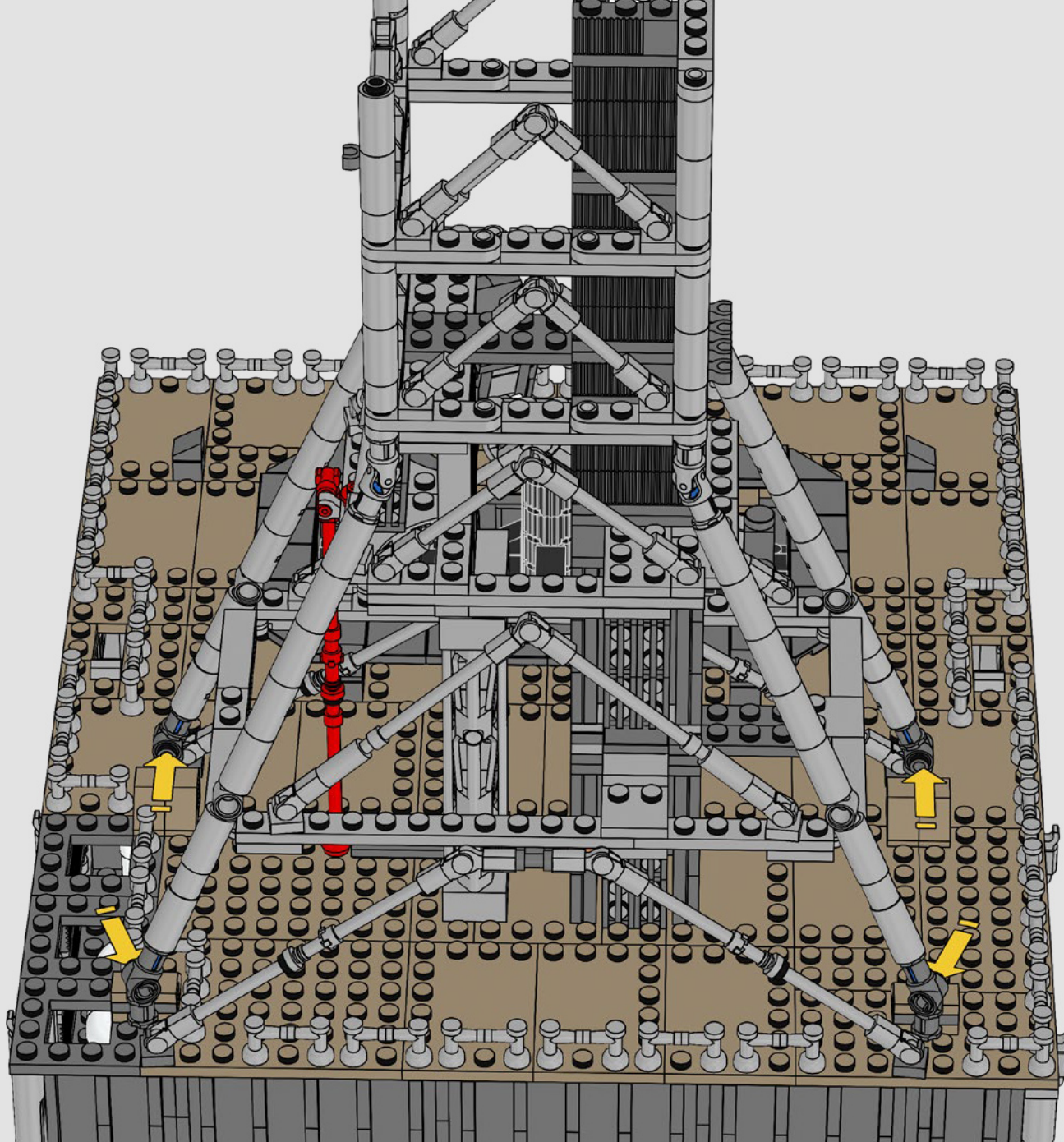


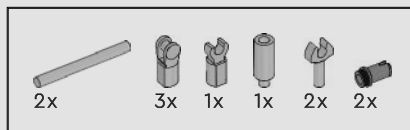
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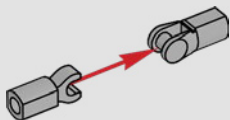
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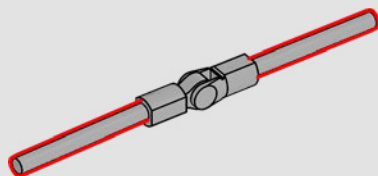


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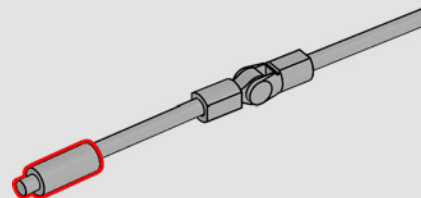
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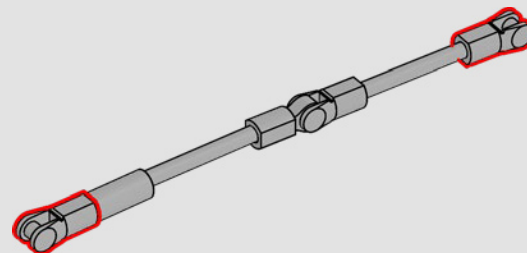
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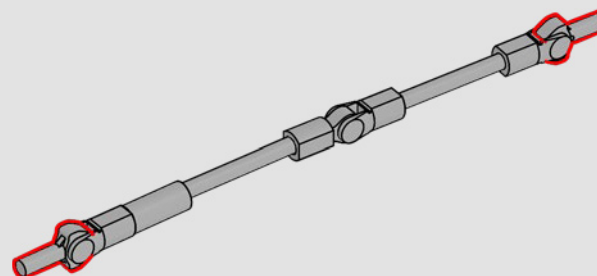
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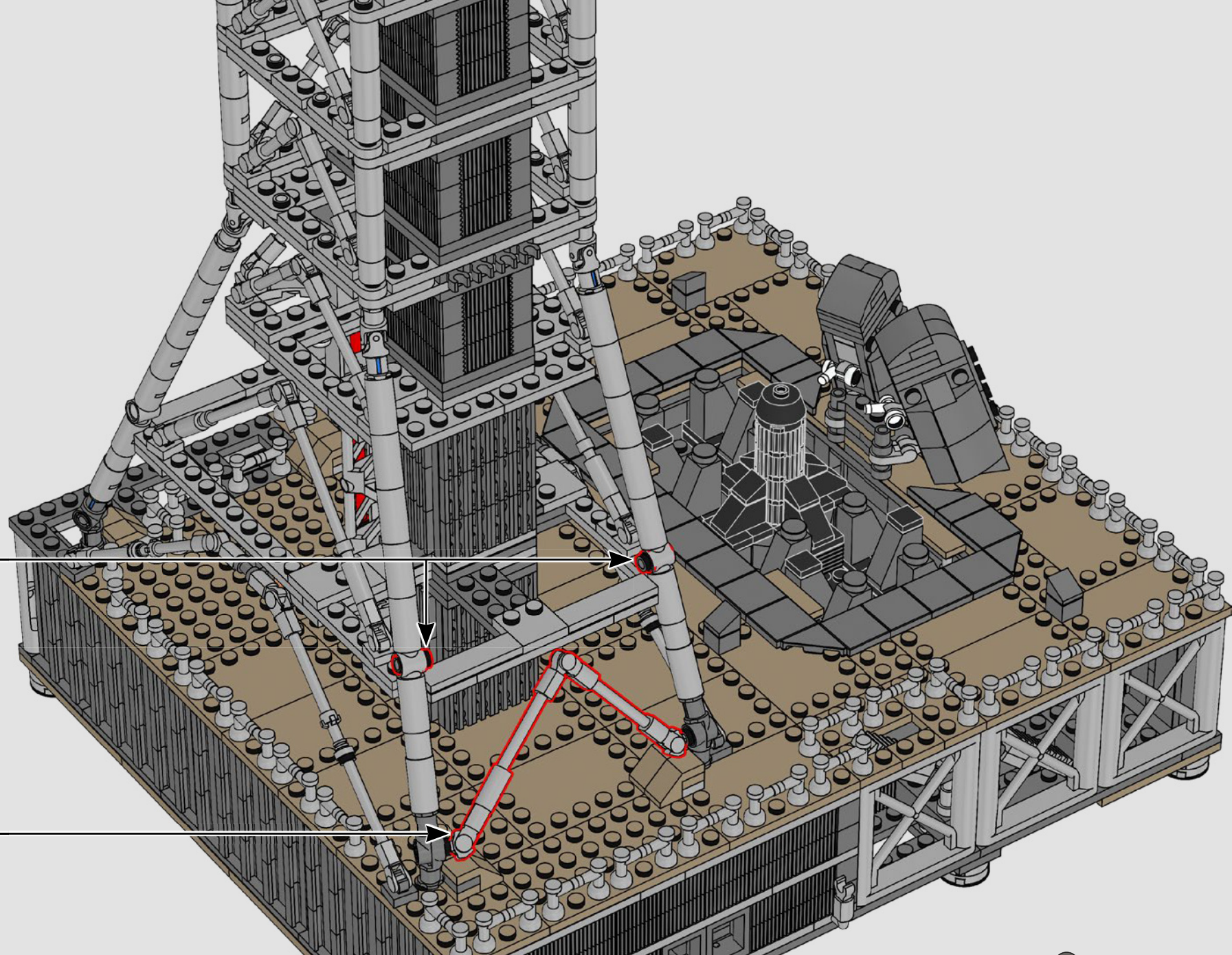


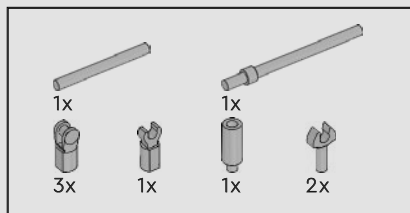
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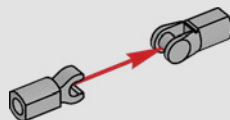




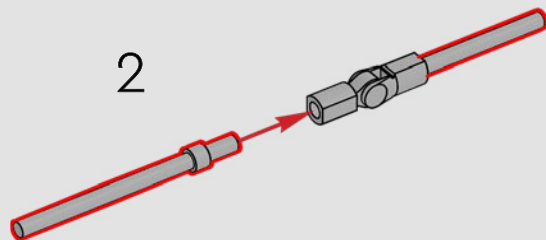


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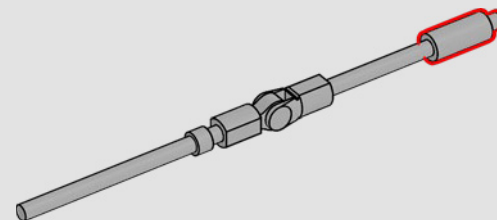
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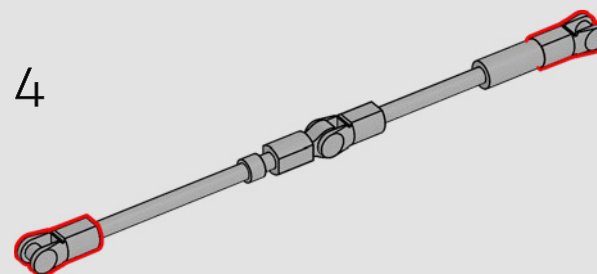
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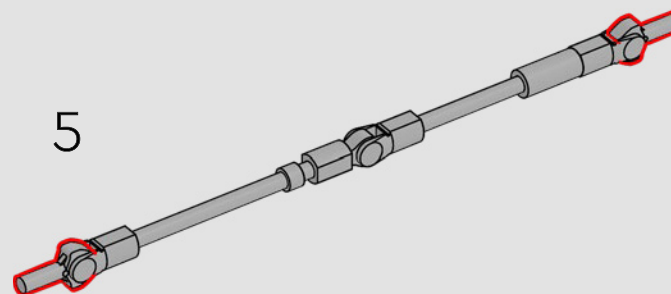
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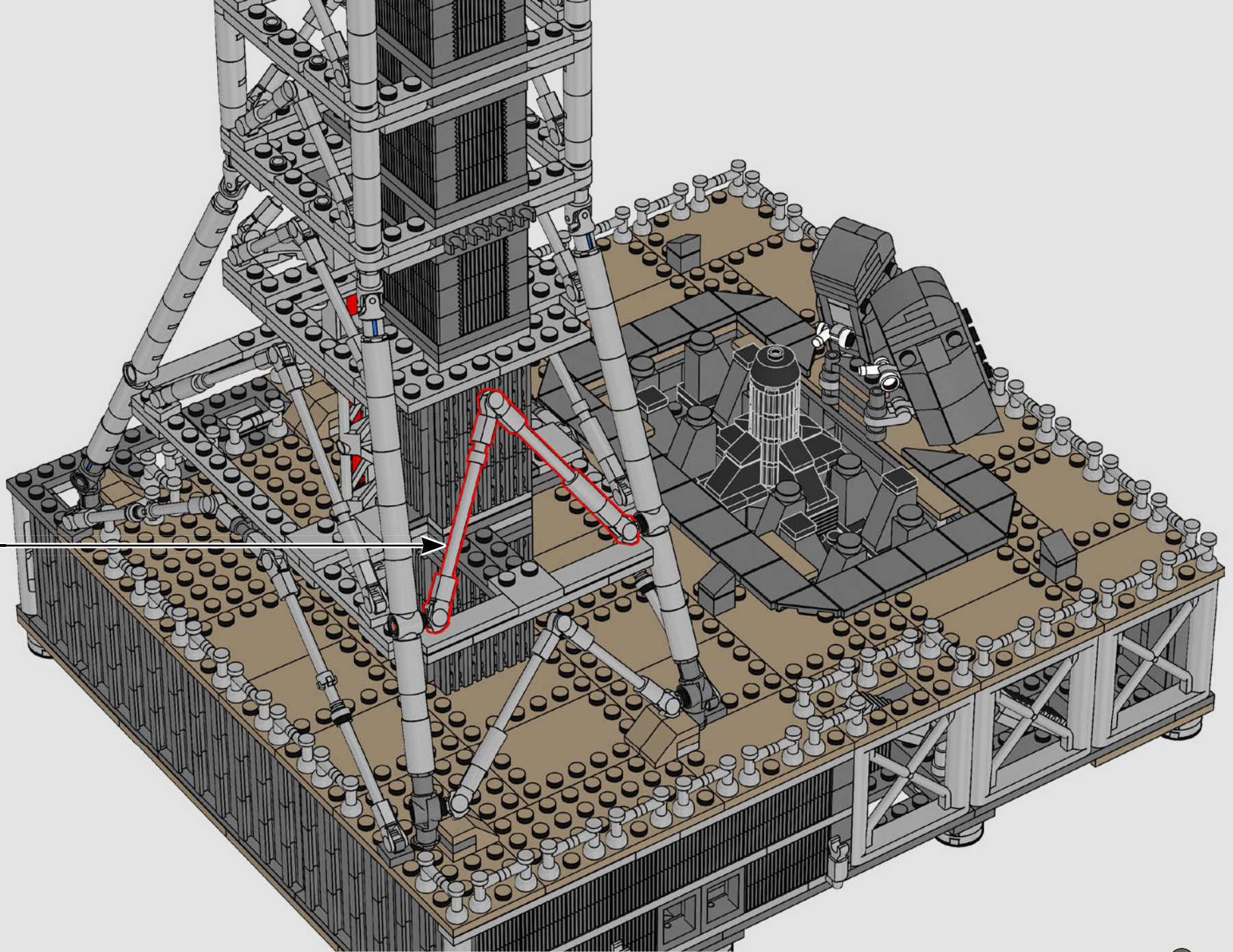


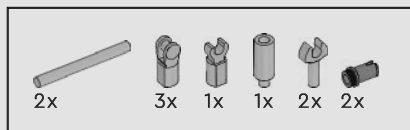
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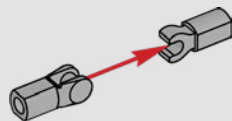




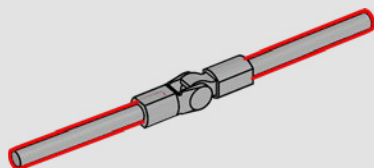


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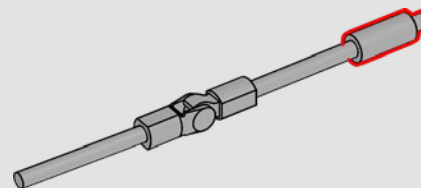
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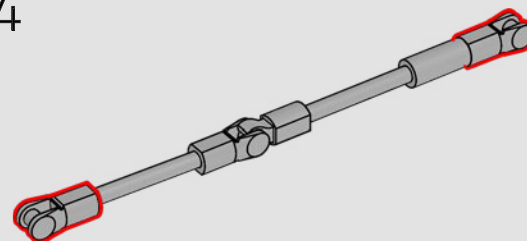
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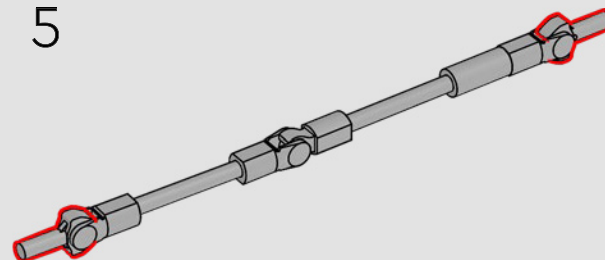
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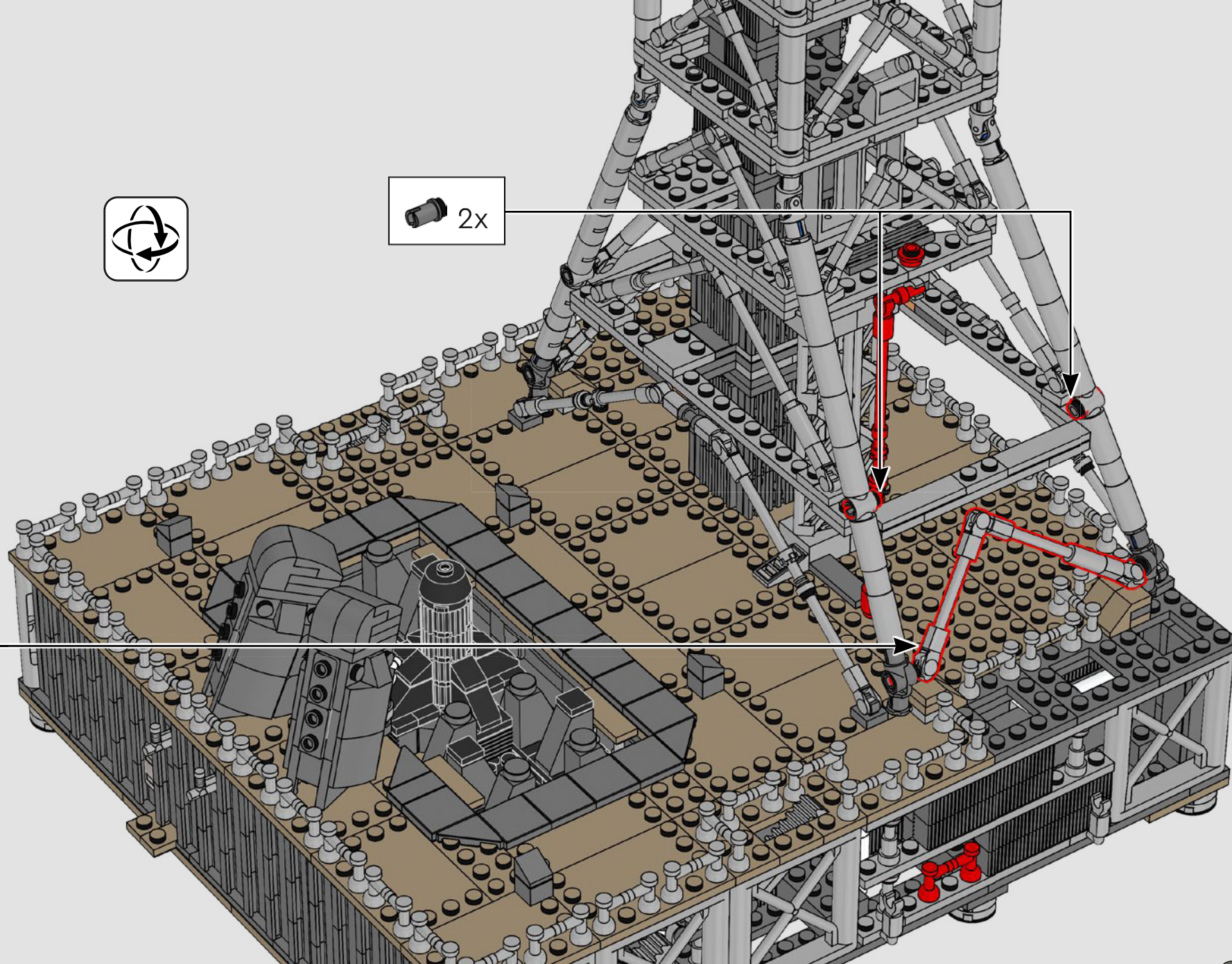


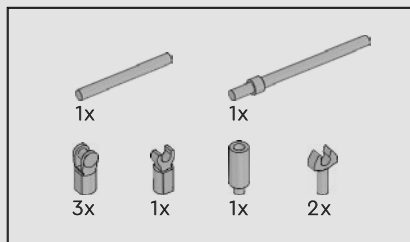
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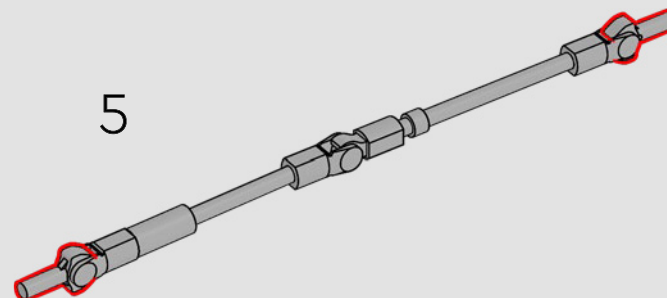
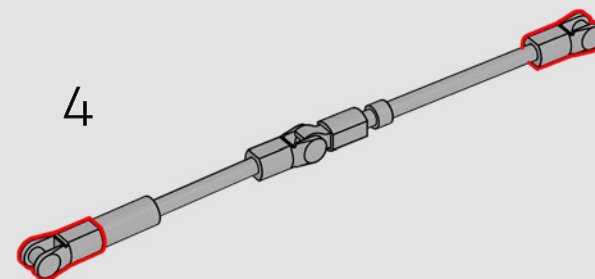
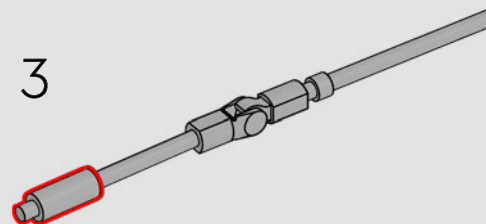
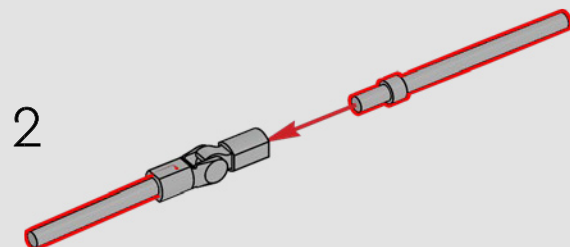
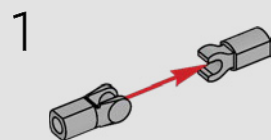
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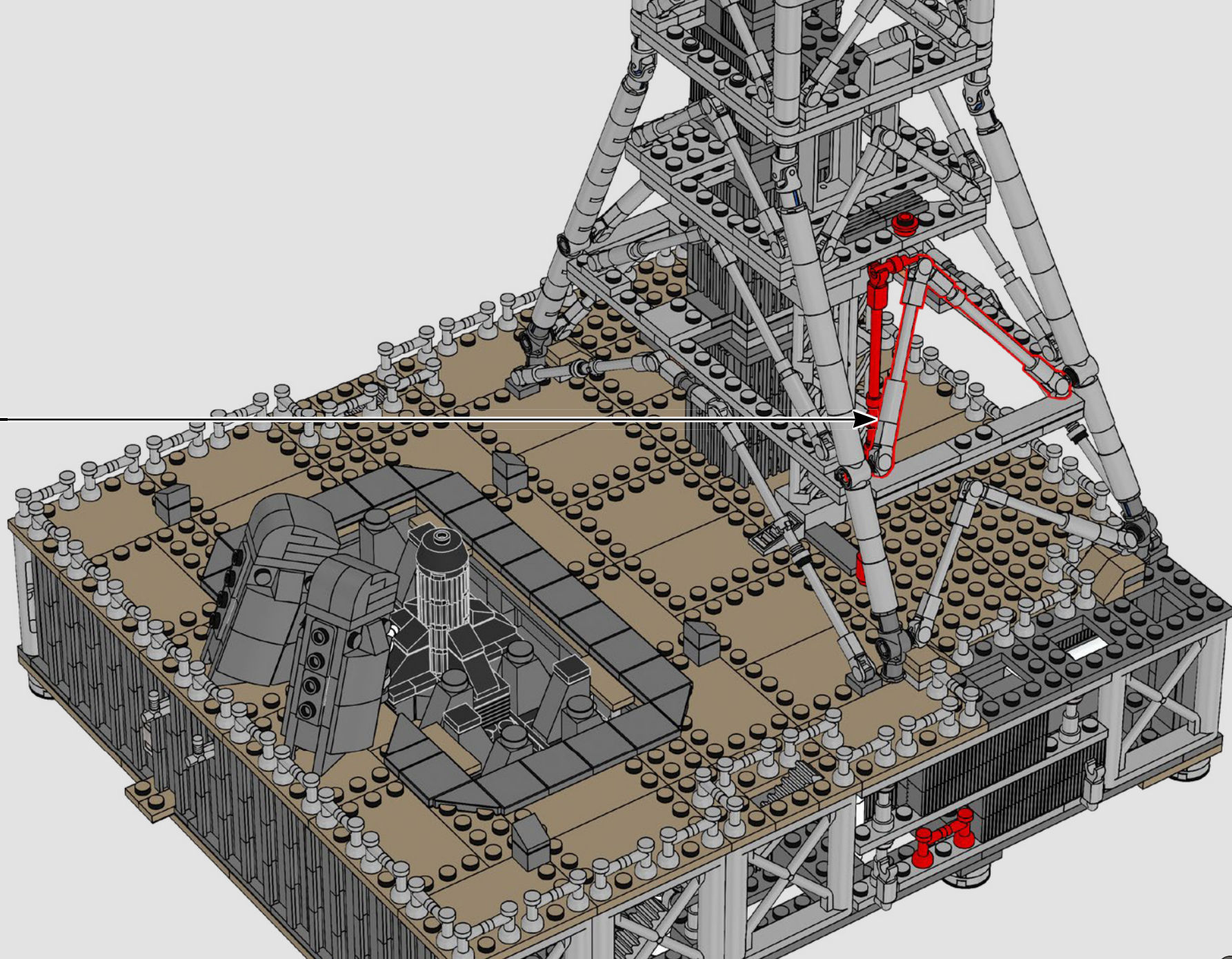


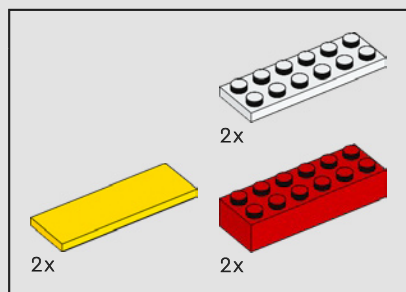




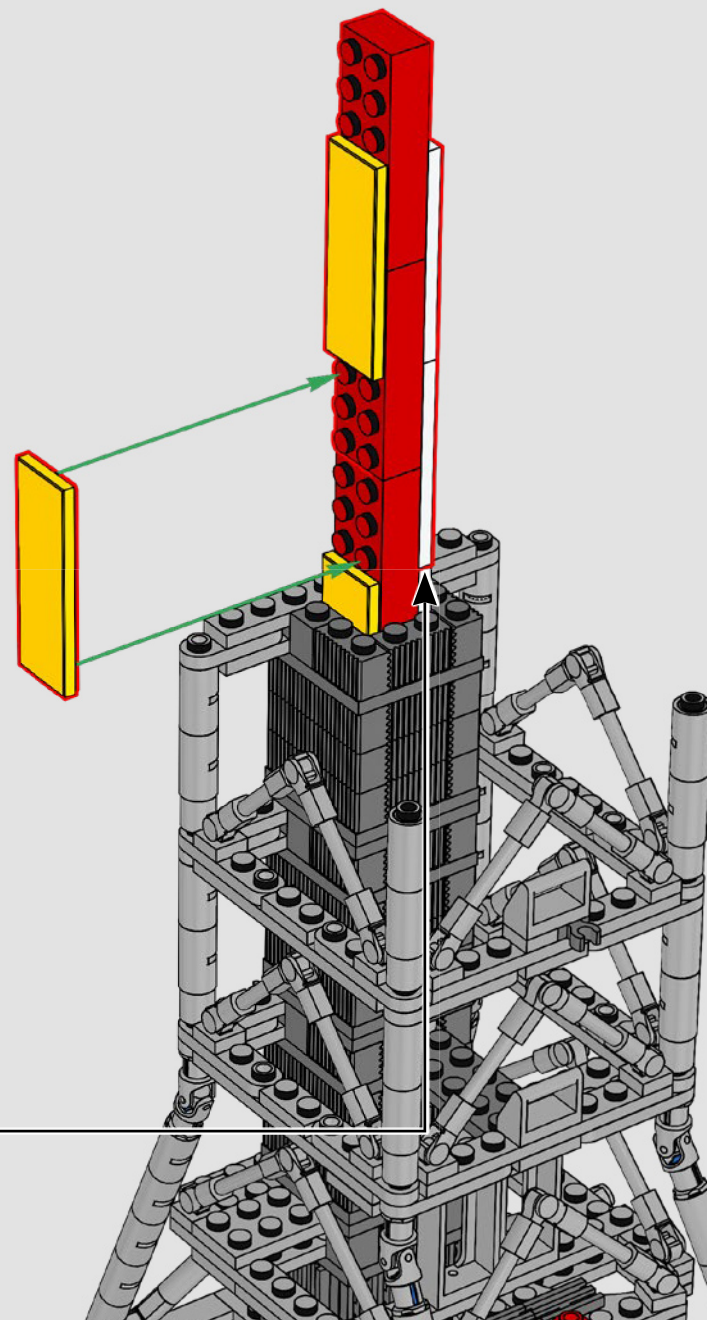
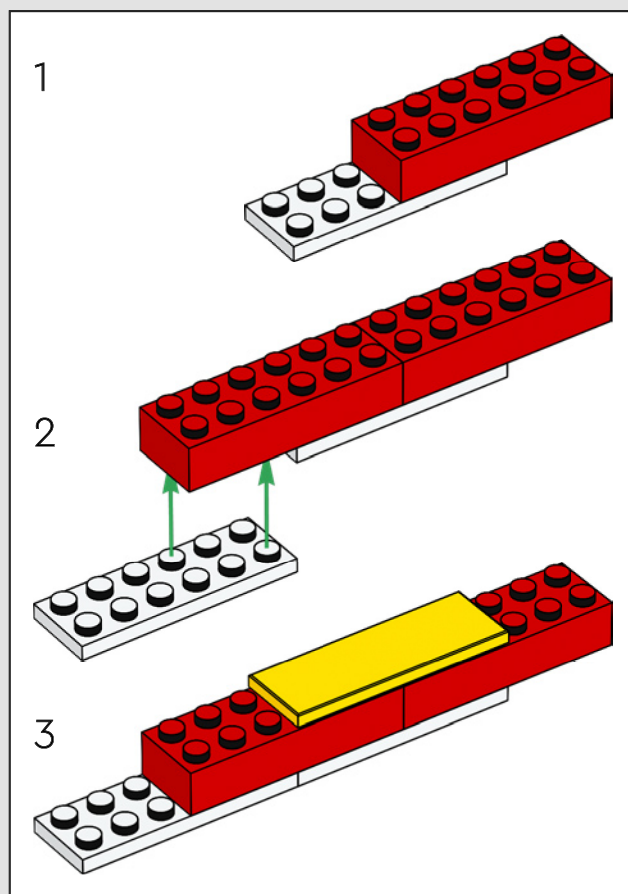
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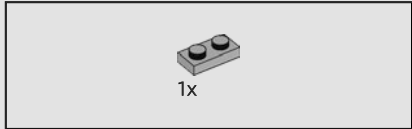
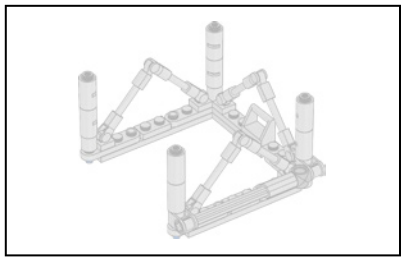






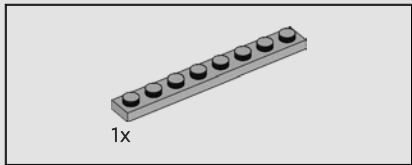
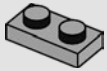
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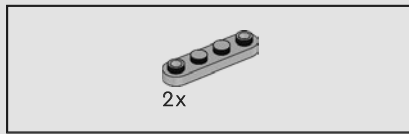
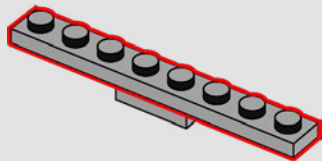
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251



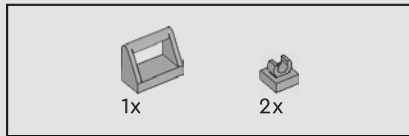
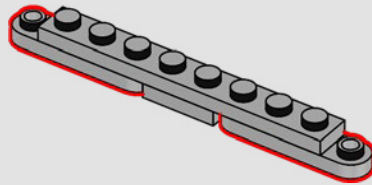
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252



2x

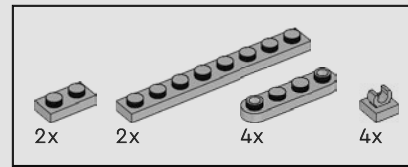
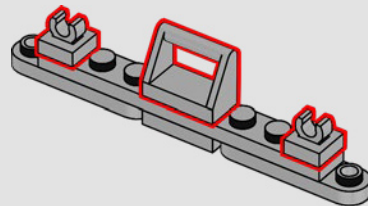
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1x

2x

254



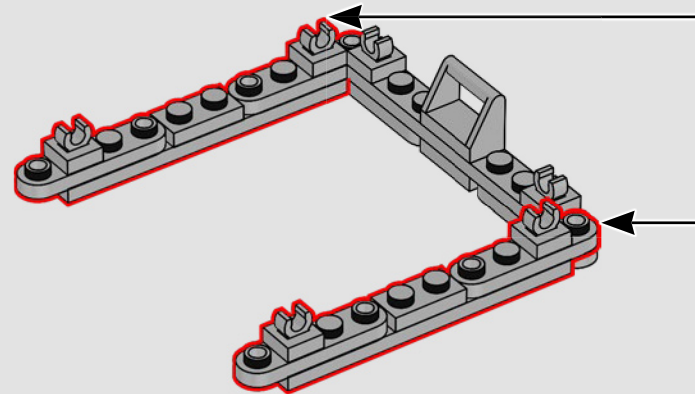
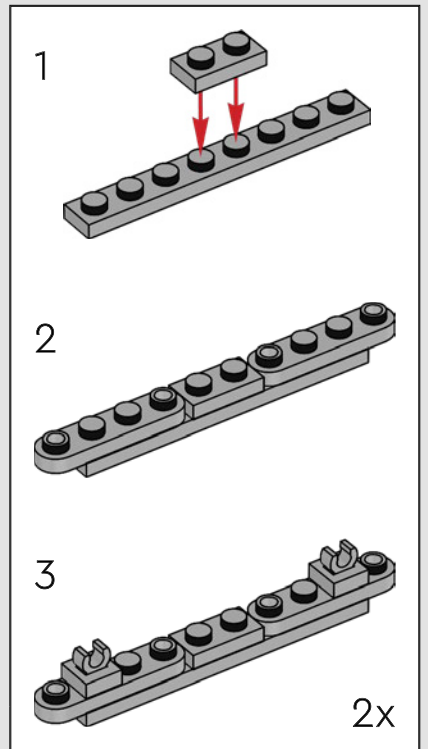
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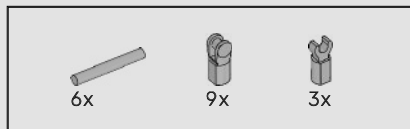
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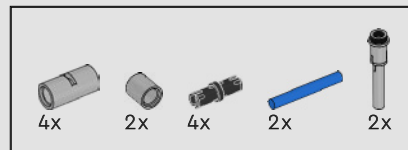
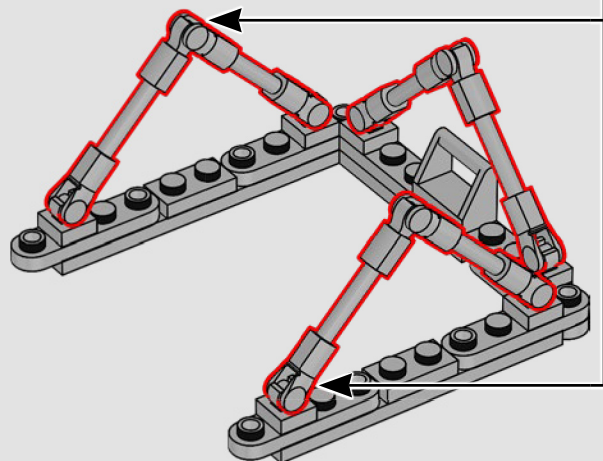
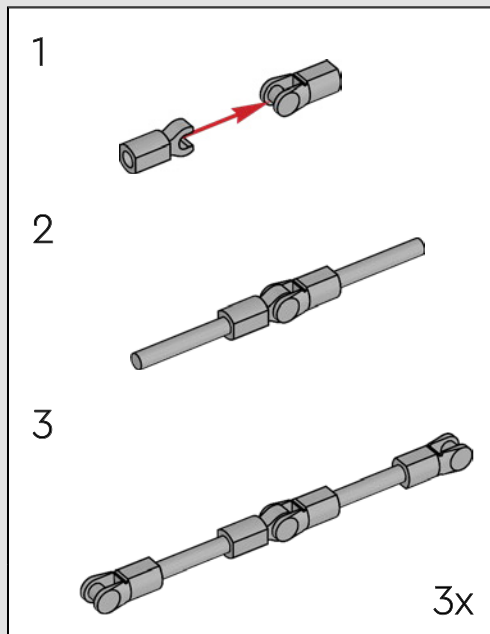
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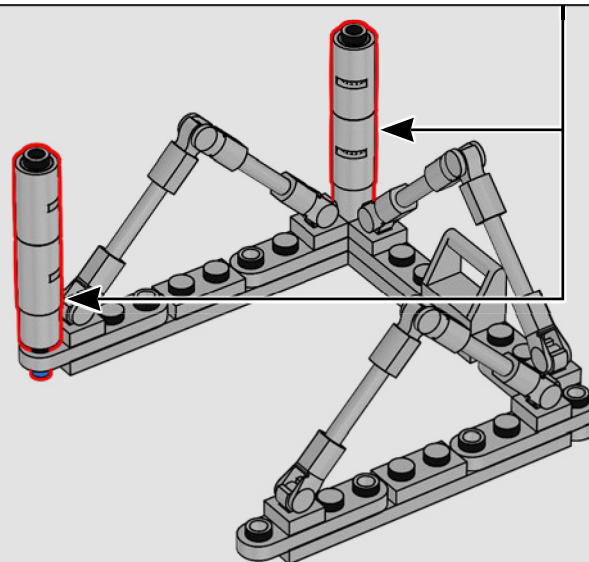
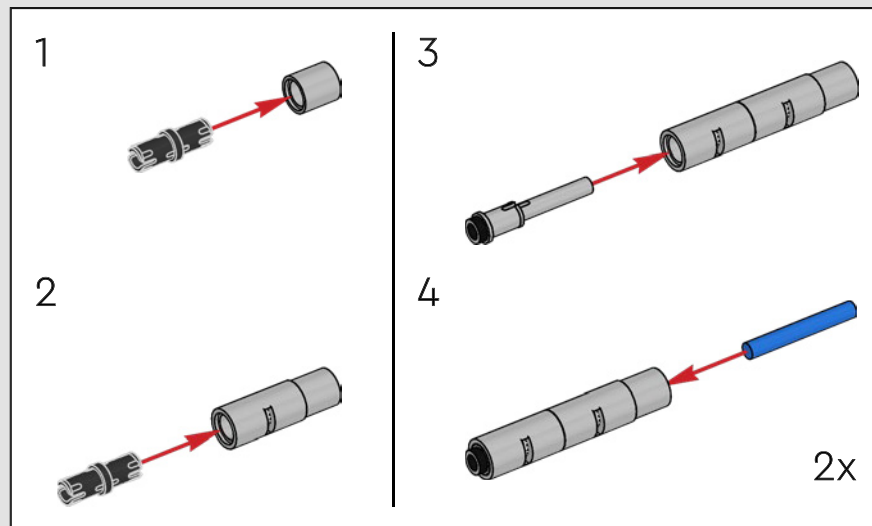


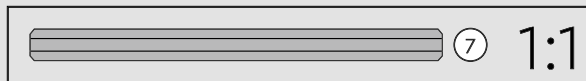
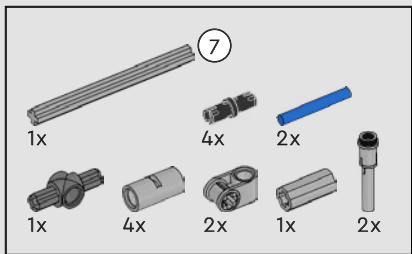


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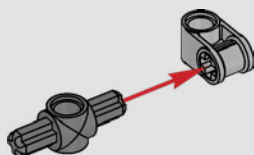
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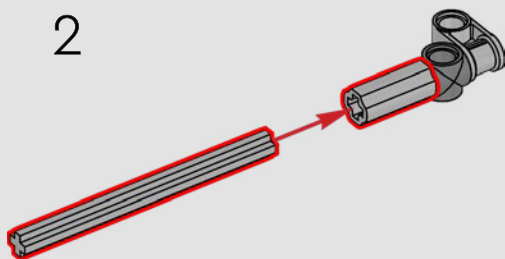


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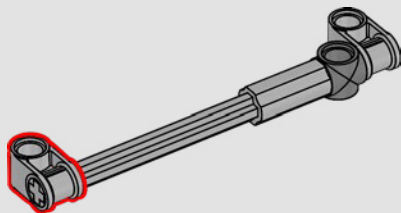
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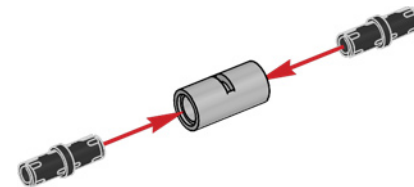
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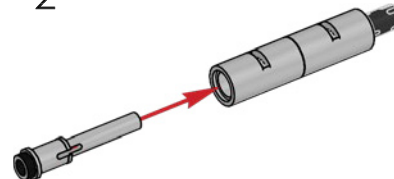
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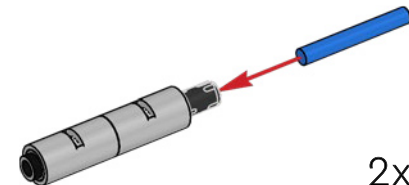
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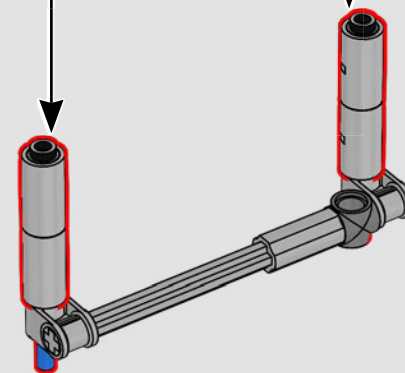


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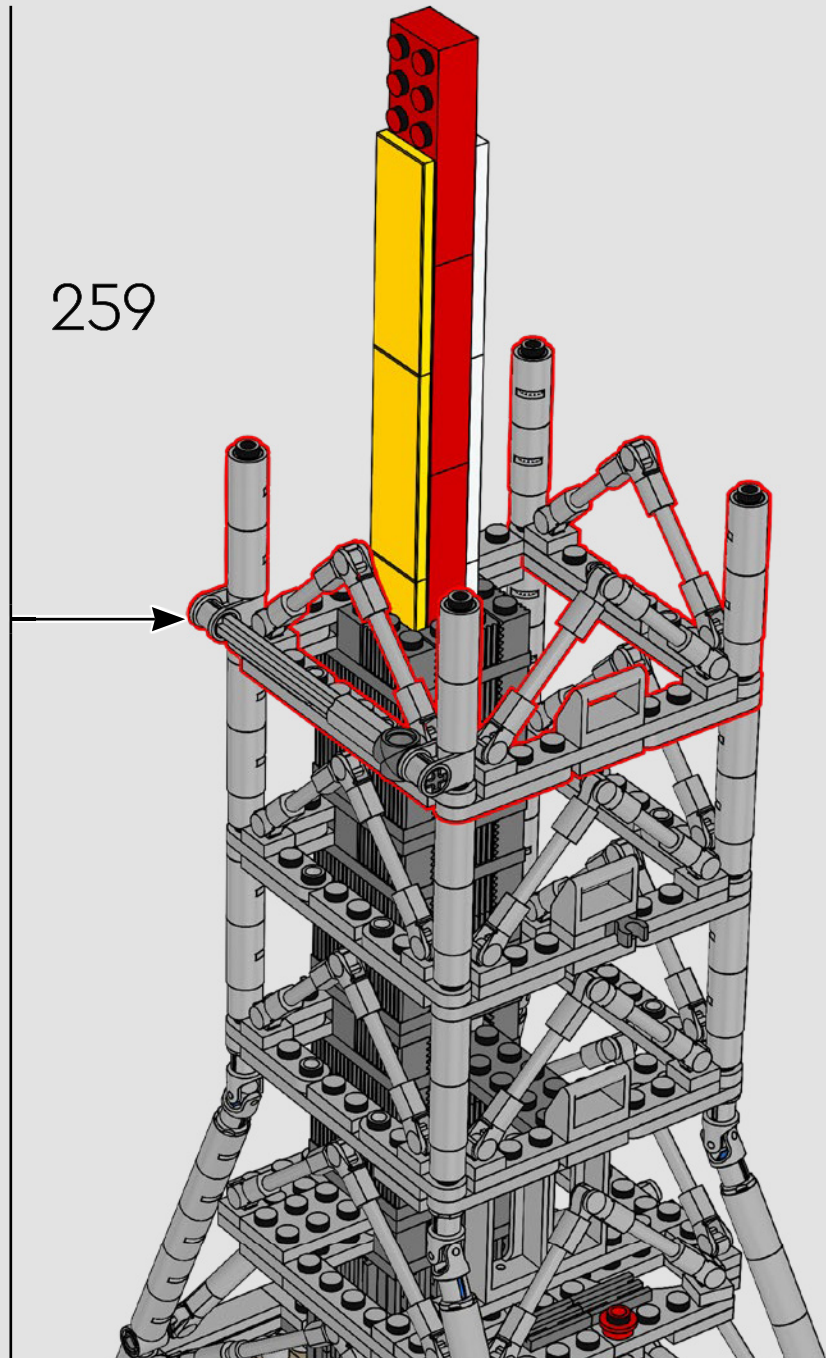
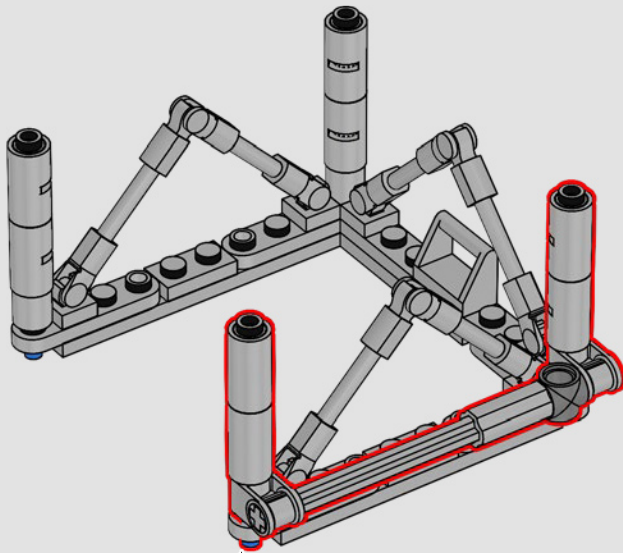


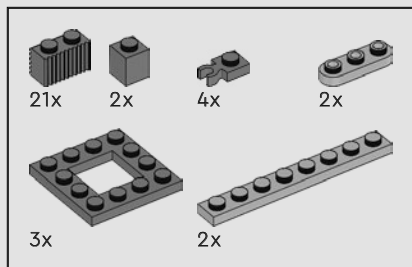
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4



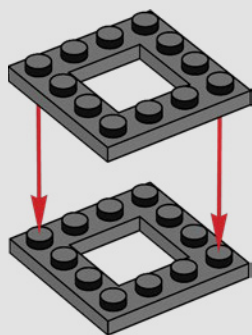
259



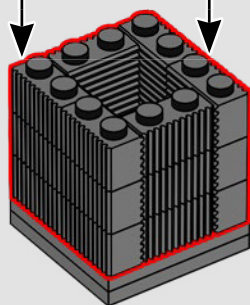


260

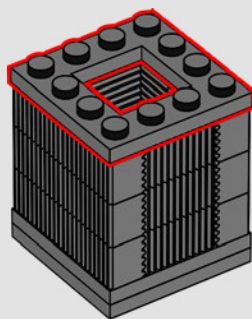
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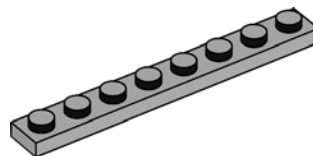


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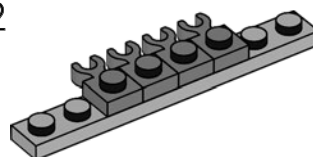


6x

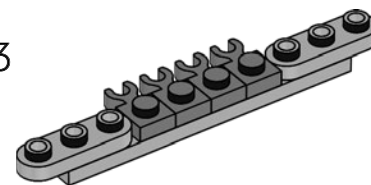
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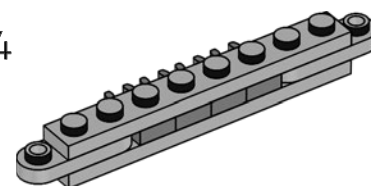
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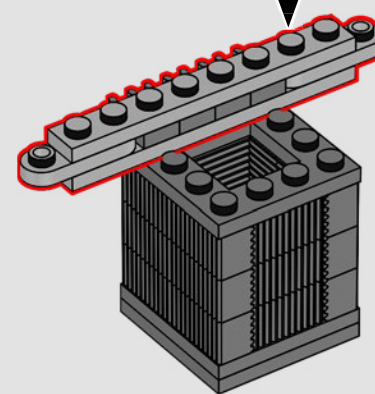
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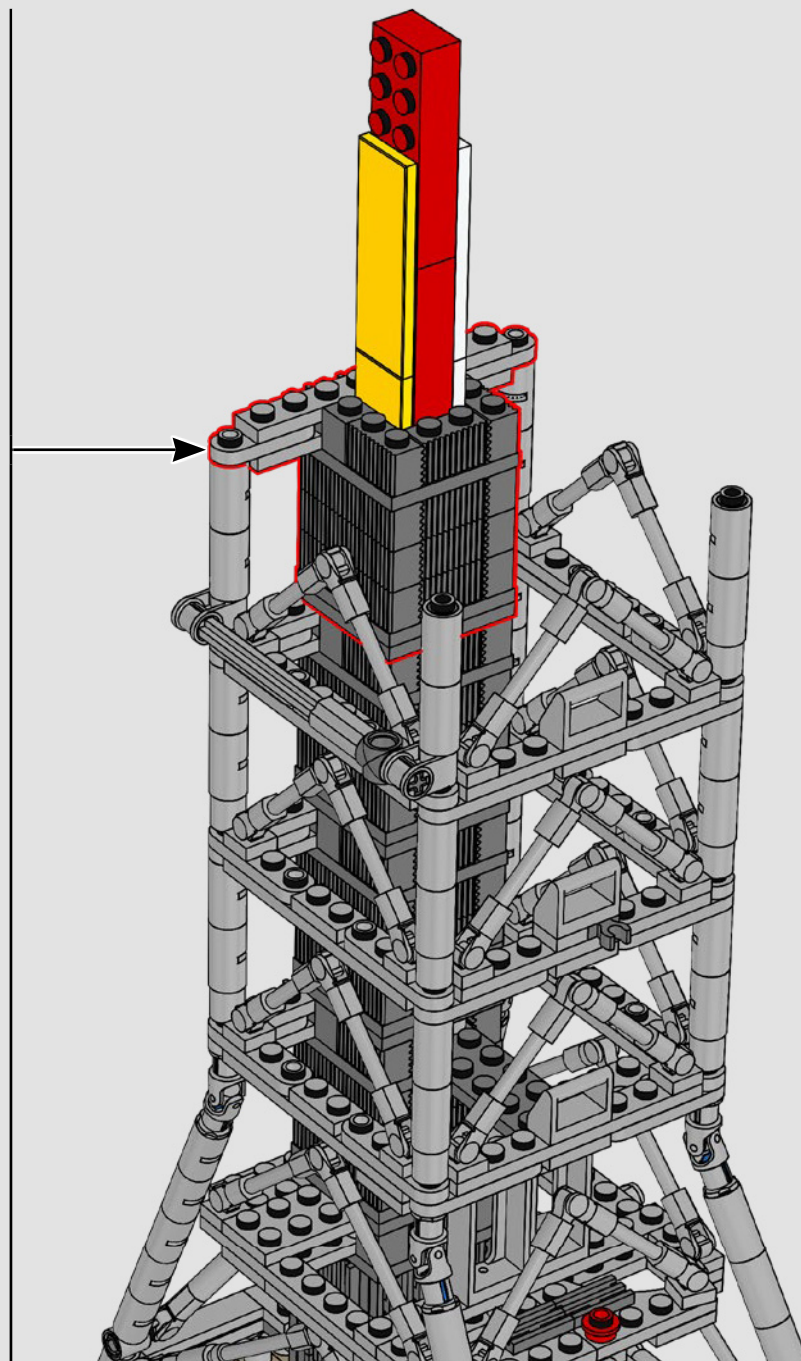
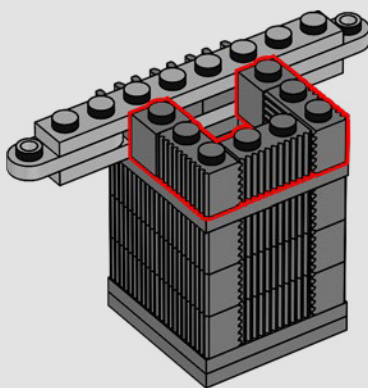
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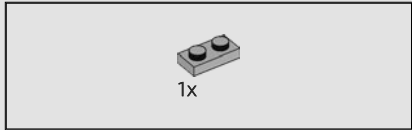
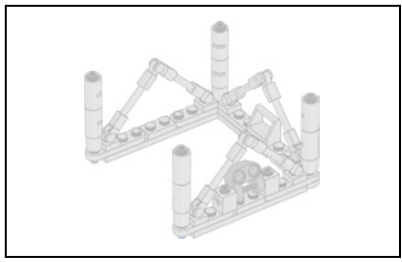


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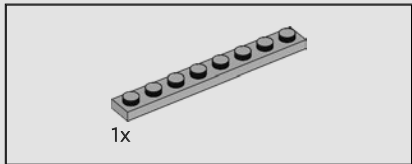
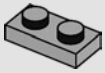


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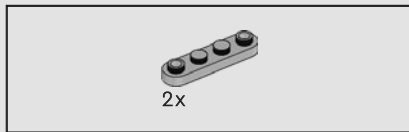
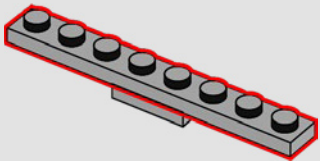




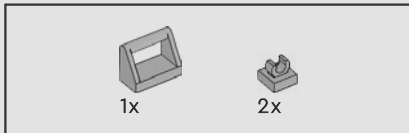
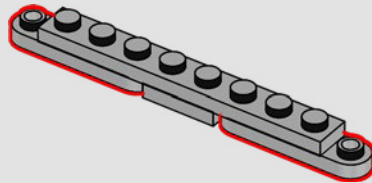
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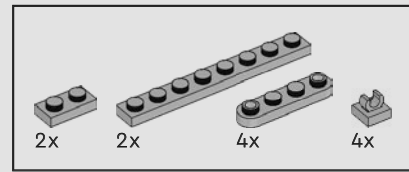
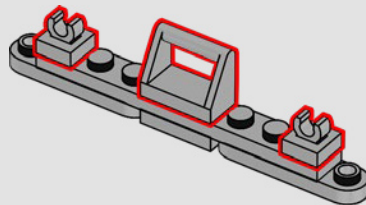
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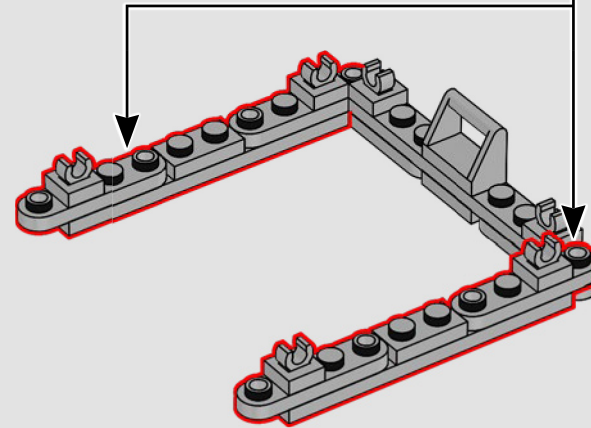
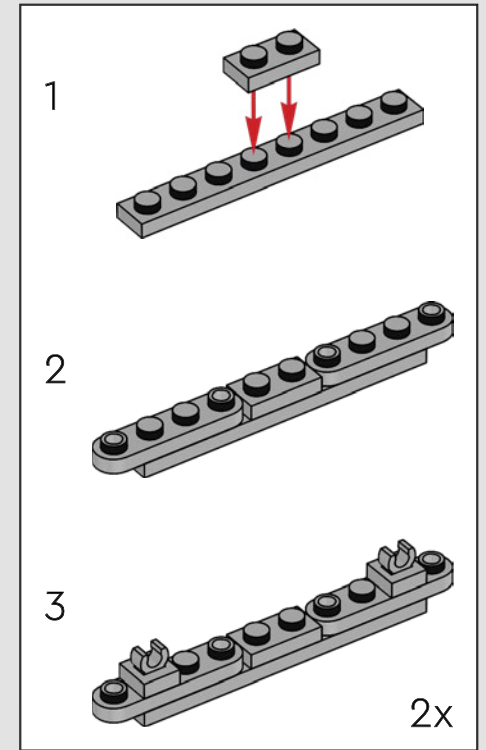
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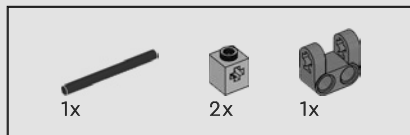


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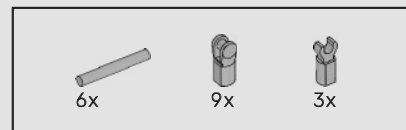
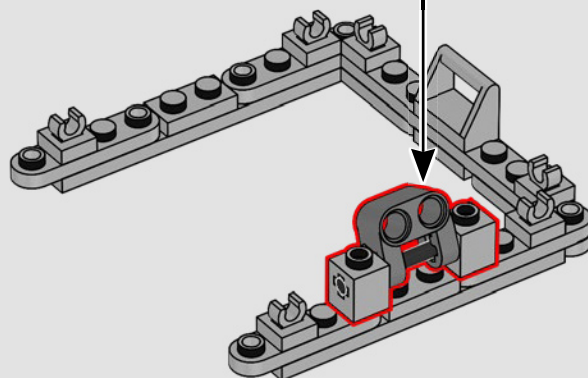
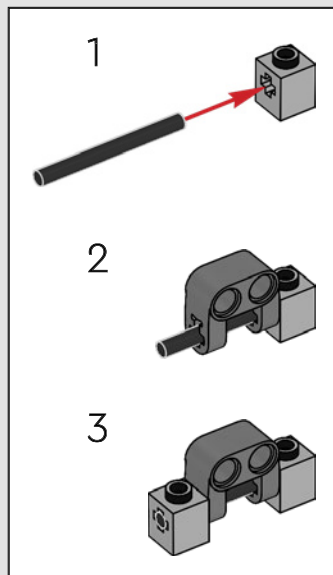


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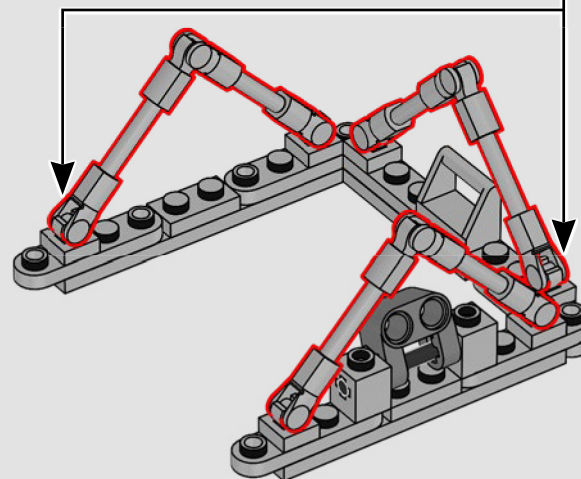
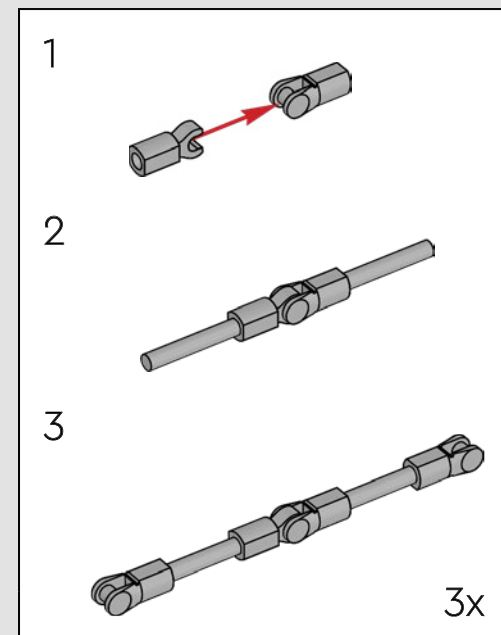


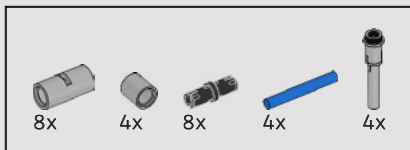


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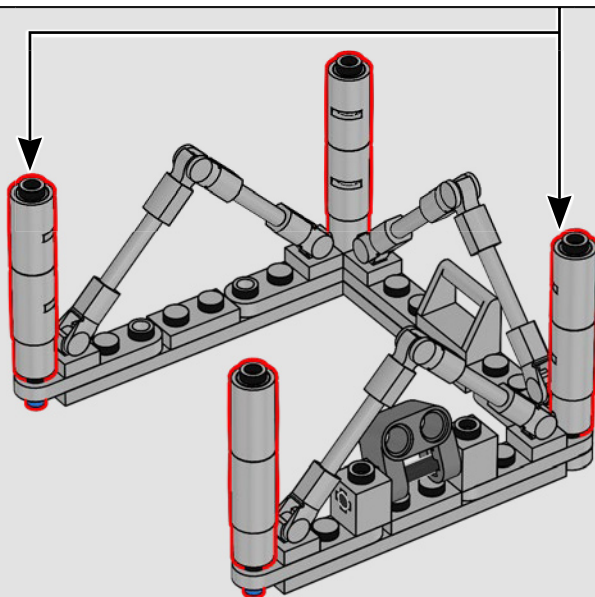
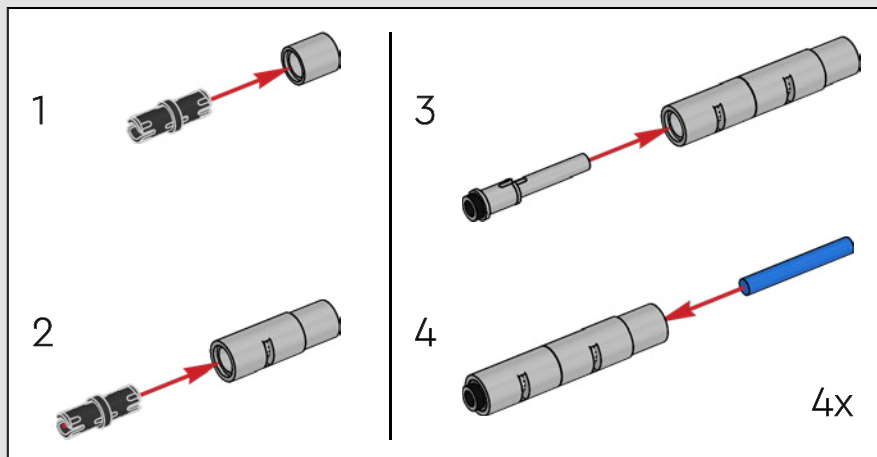


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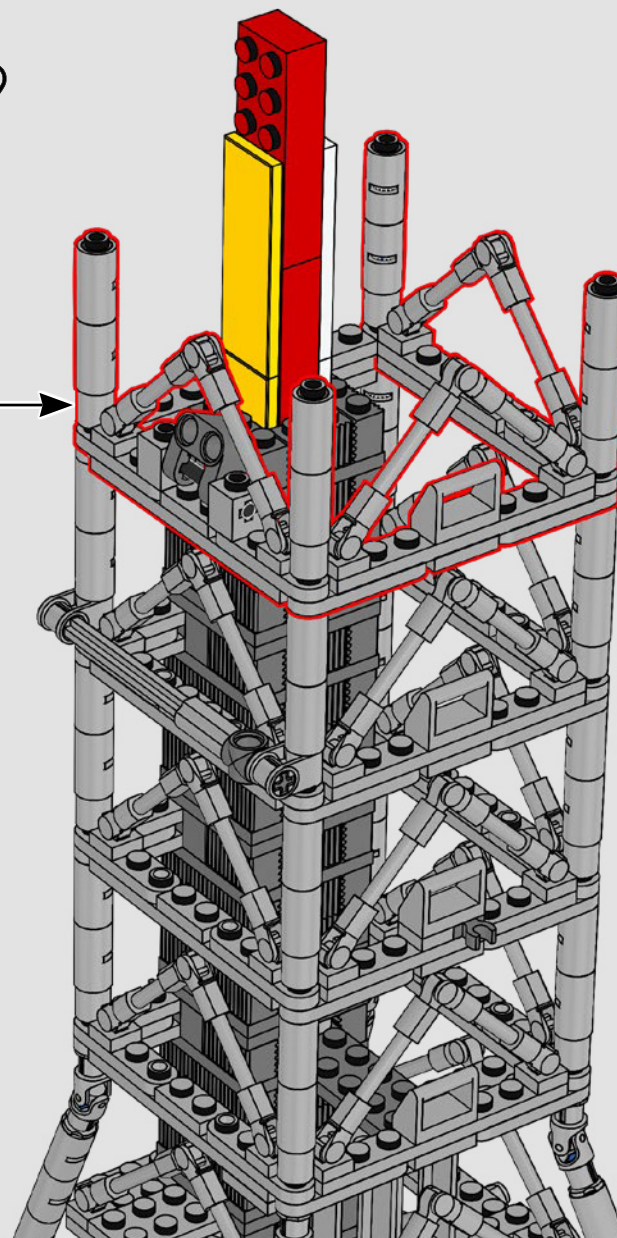


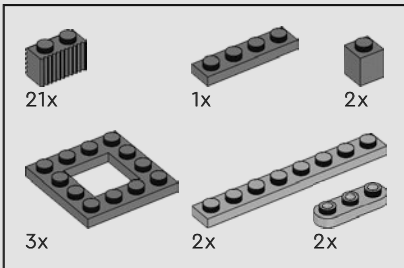
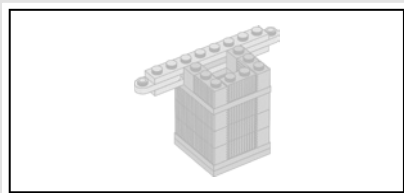


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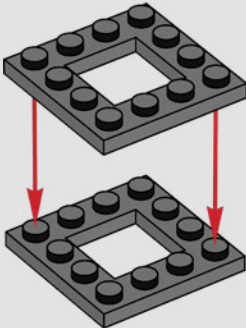
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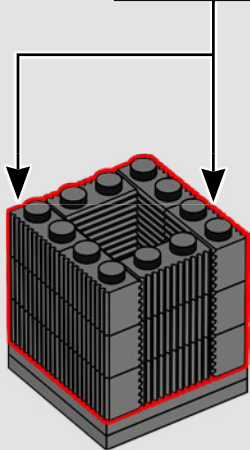
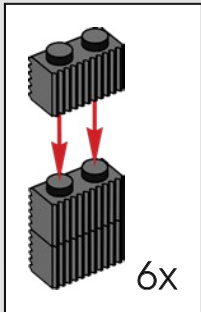


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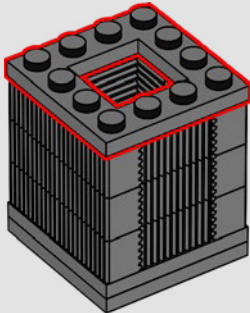
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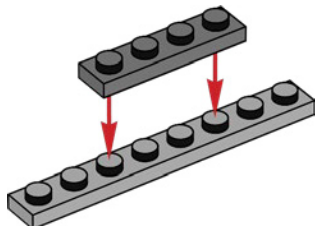
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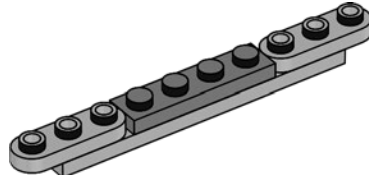
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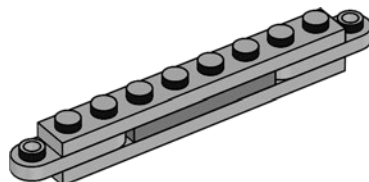
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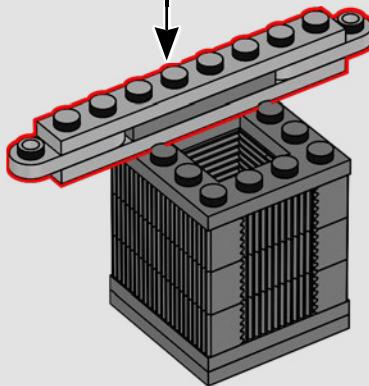
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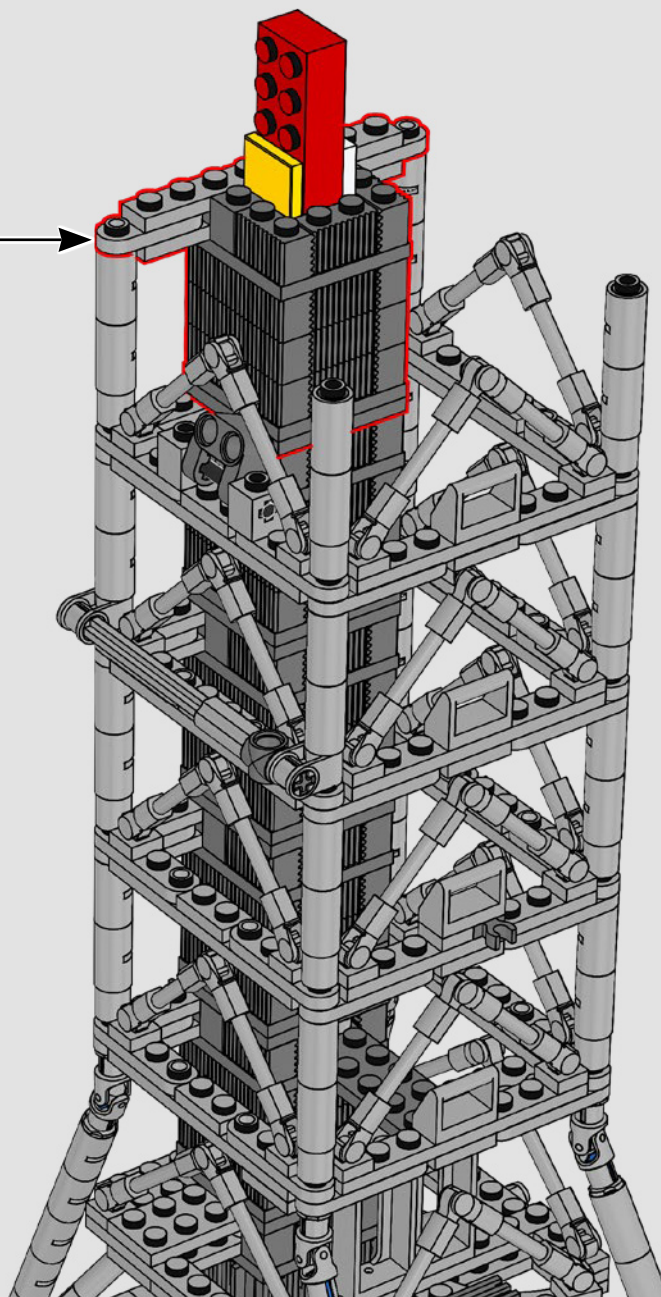
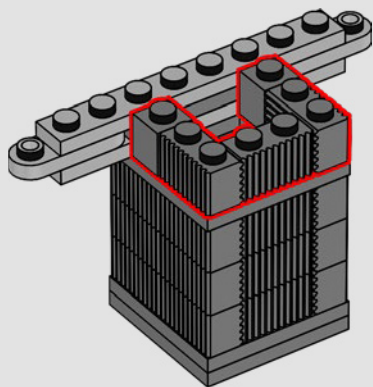
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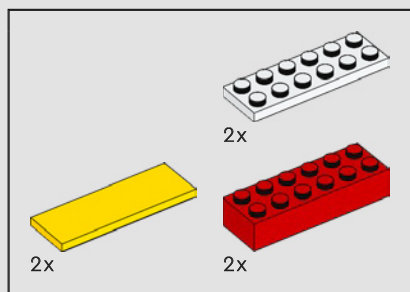


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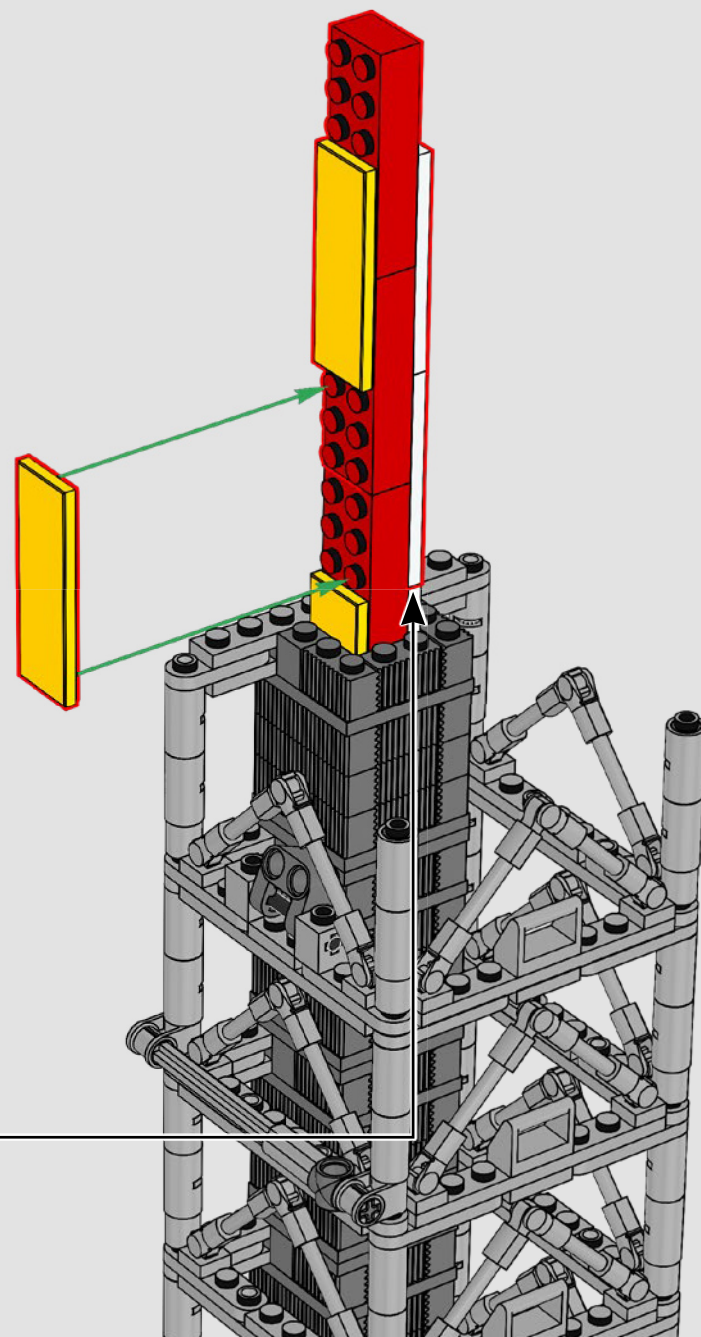
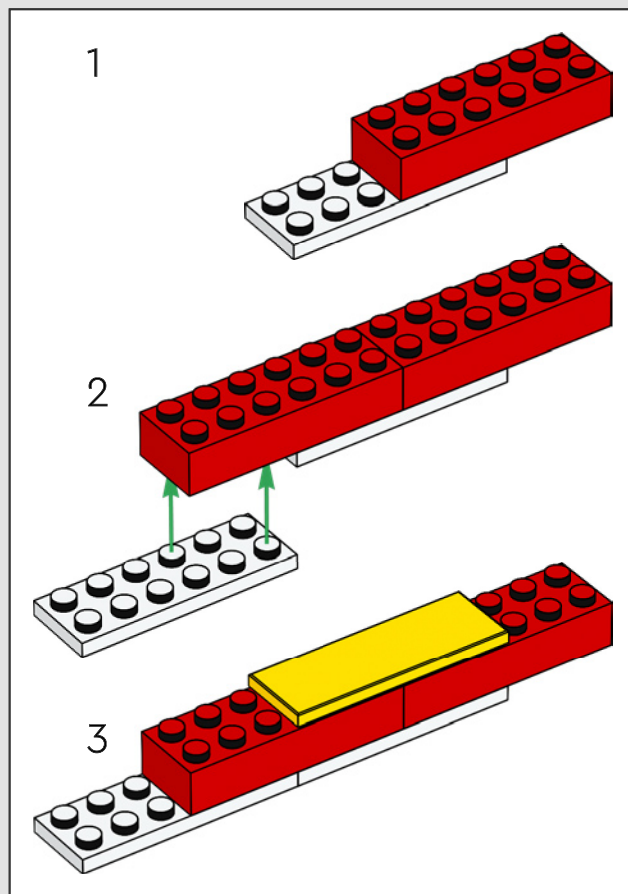


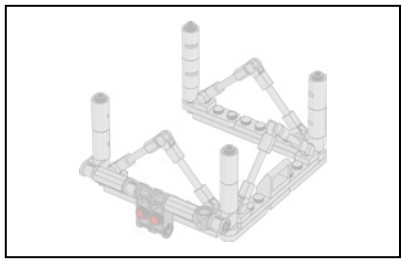
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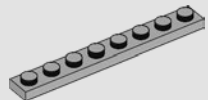
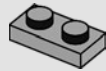
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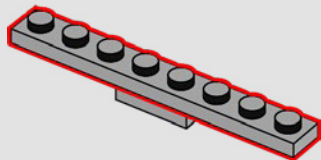
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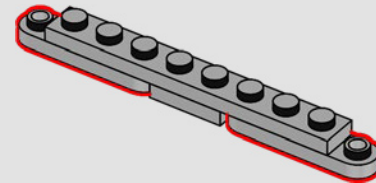
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2x

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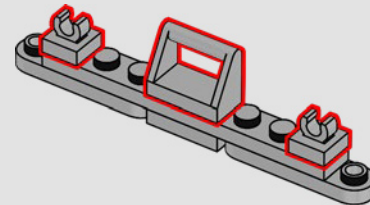


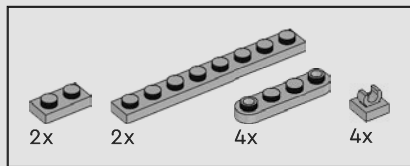
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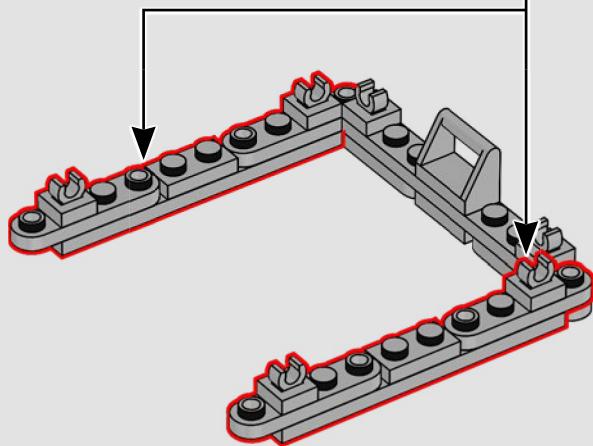
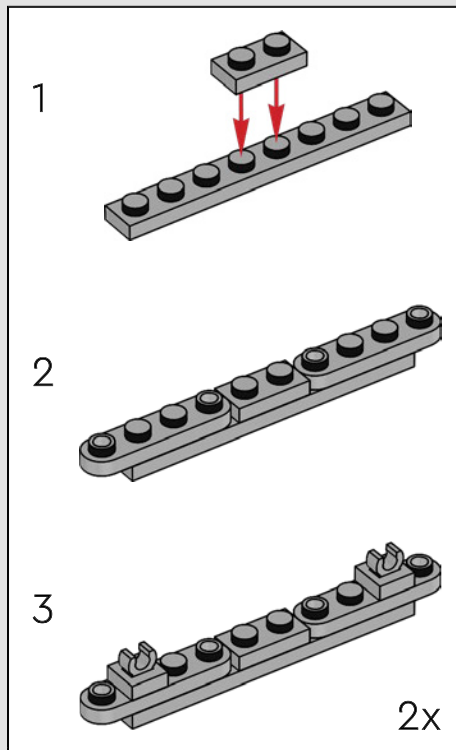
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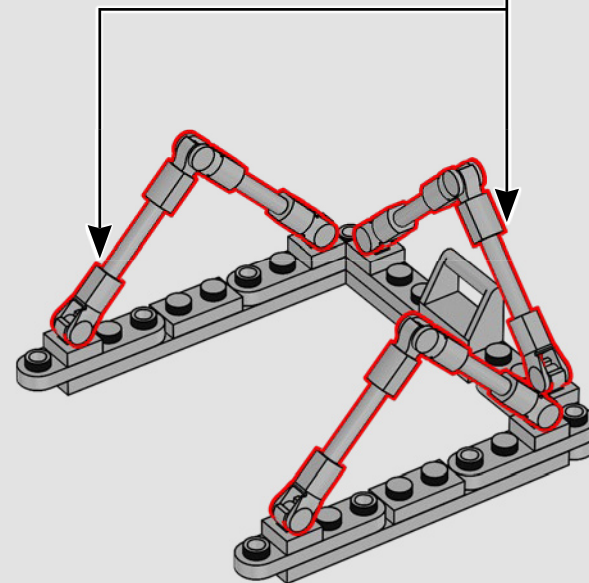
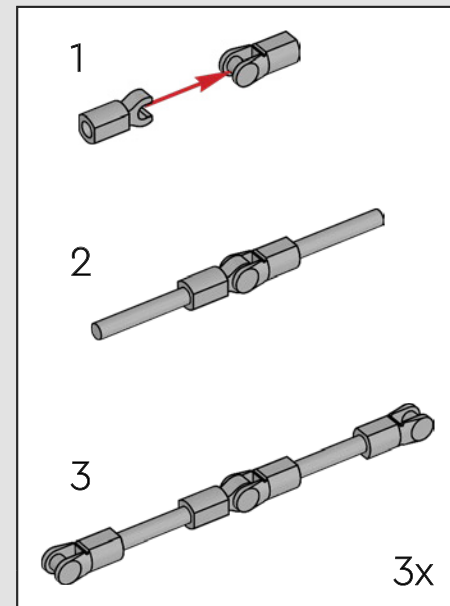


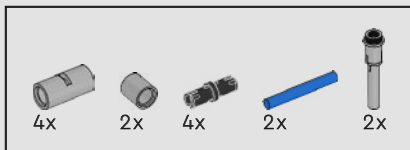


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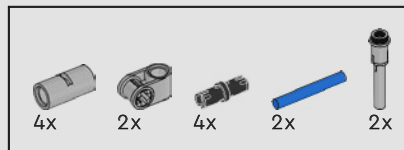
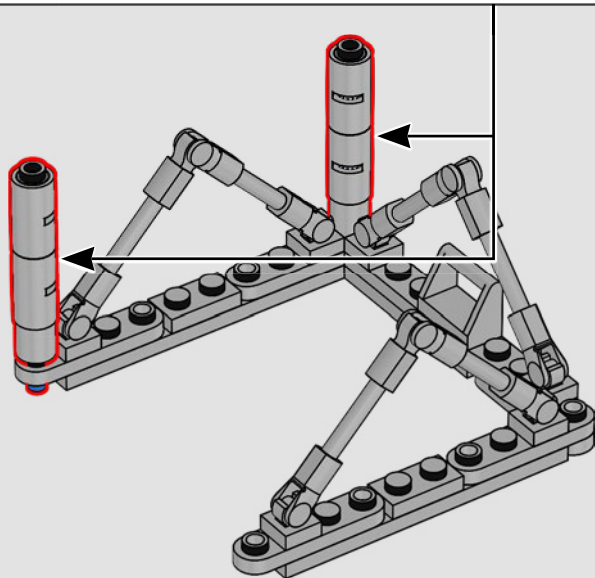
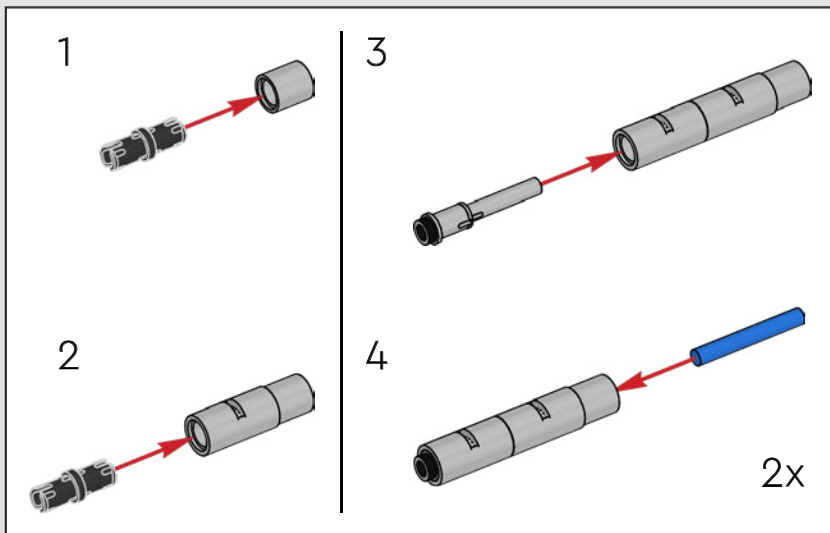


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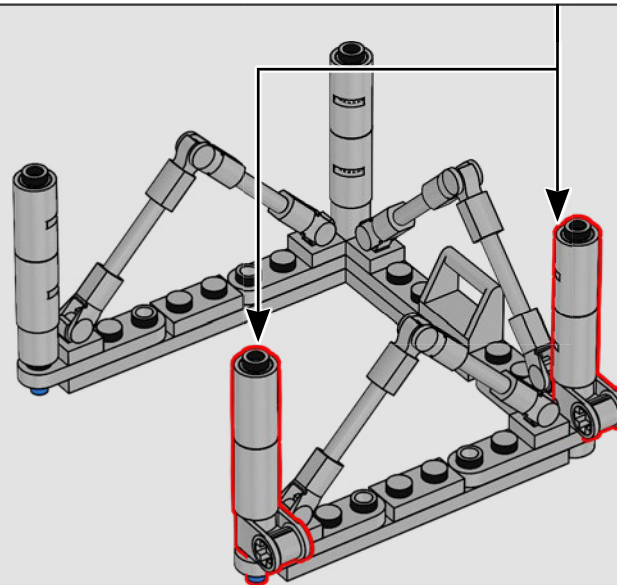
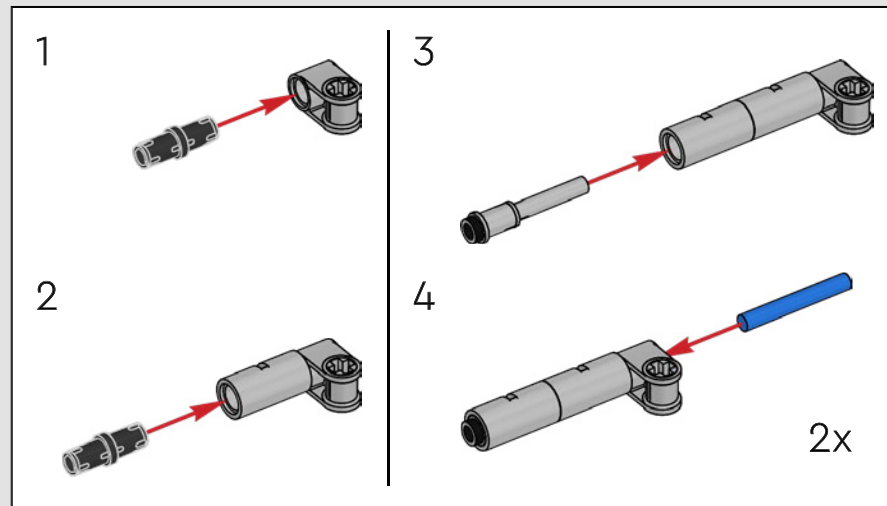


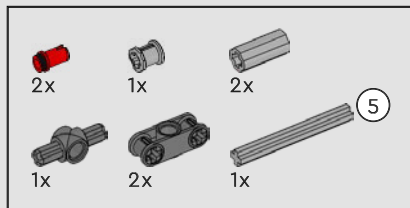


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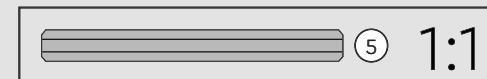
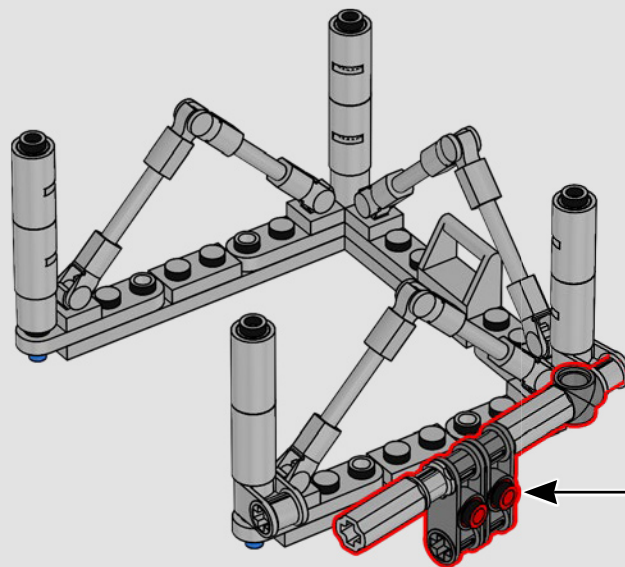
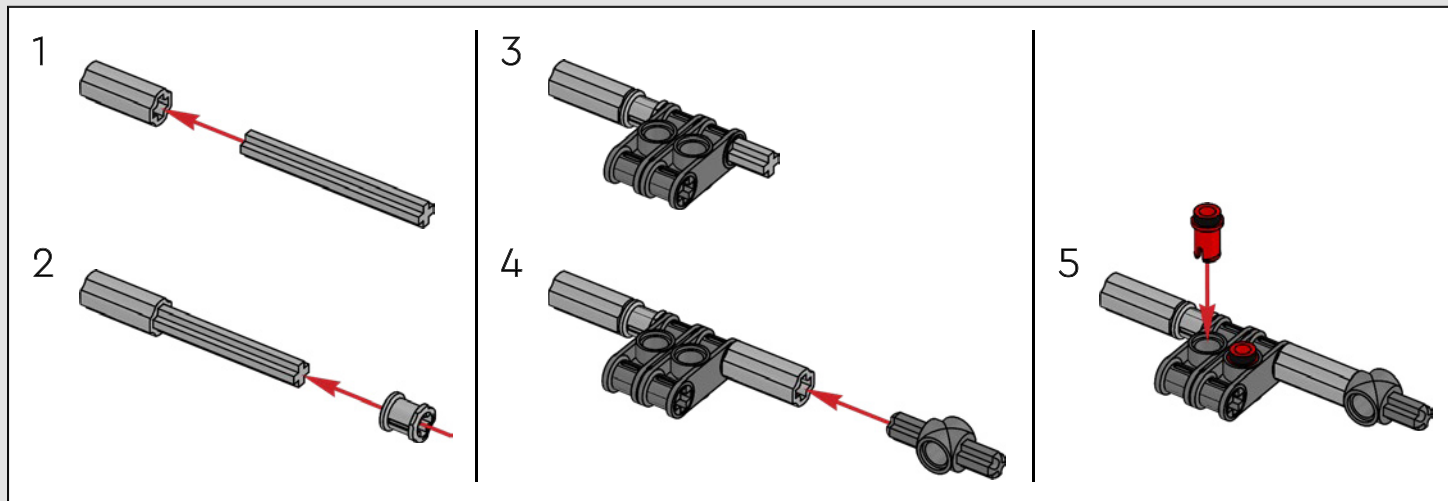


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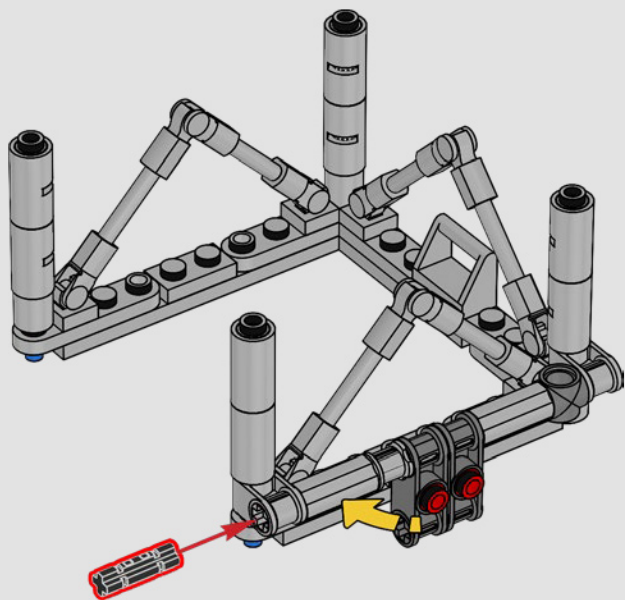


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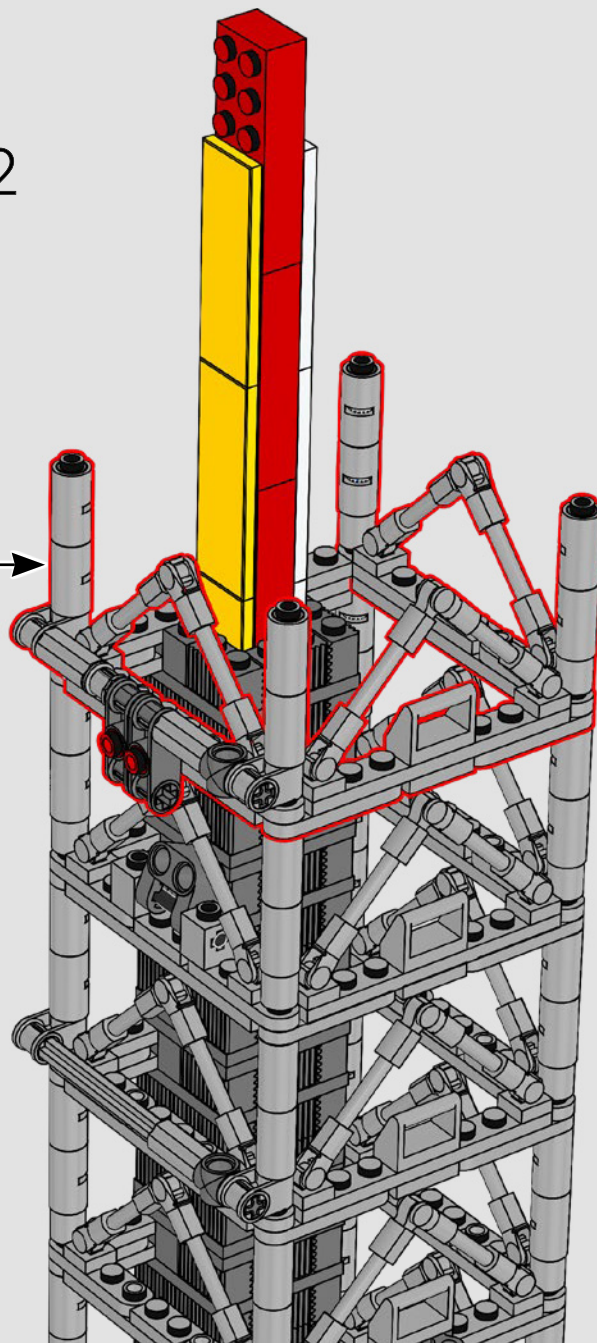


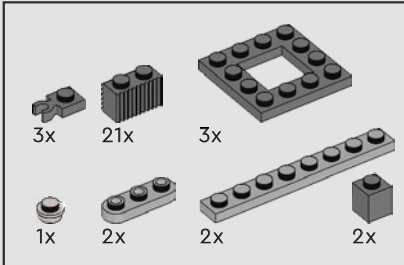
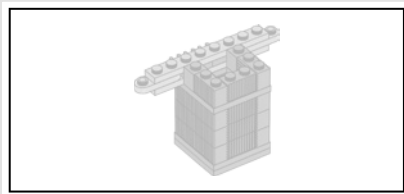
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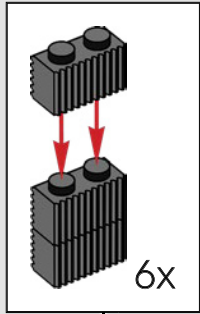
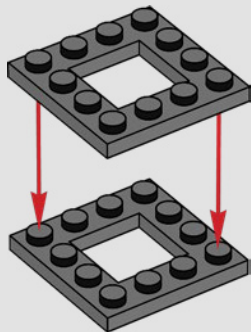
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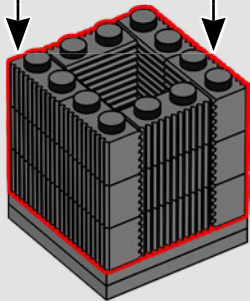
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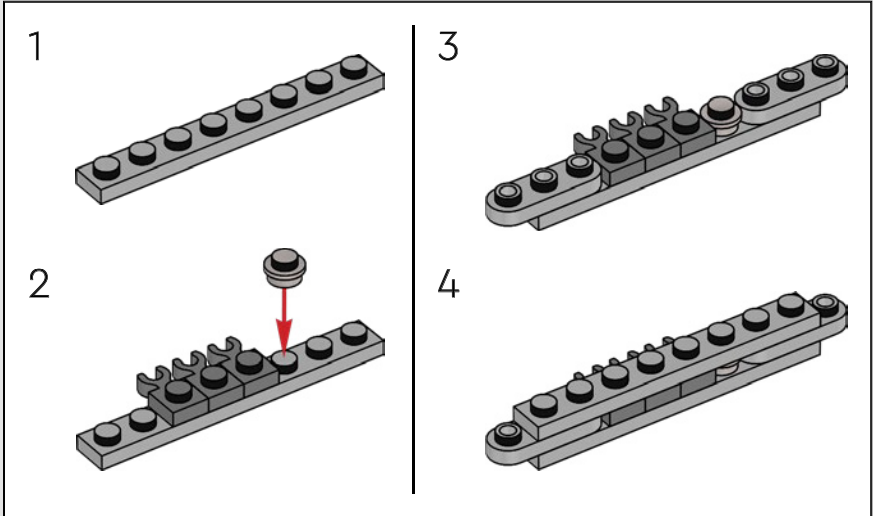
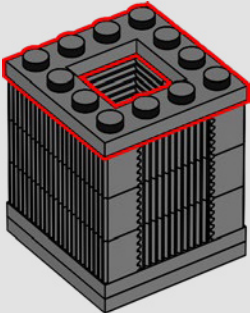


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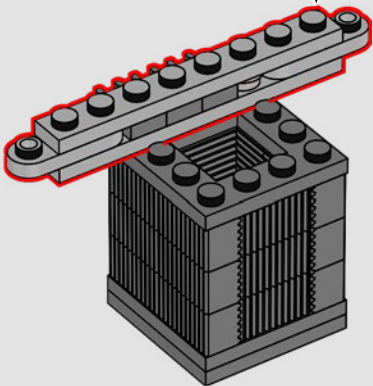
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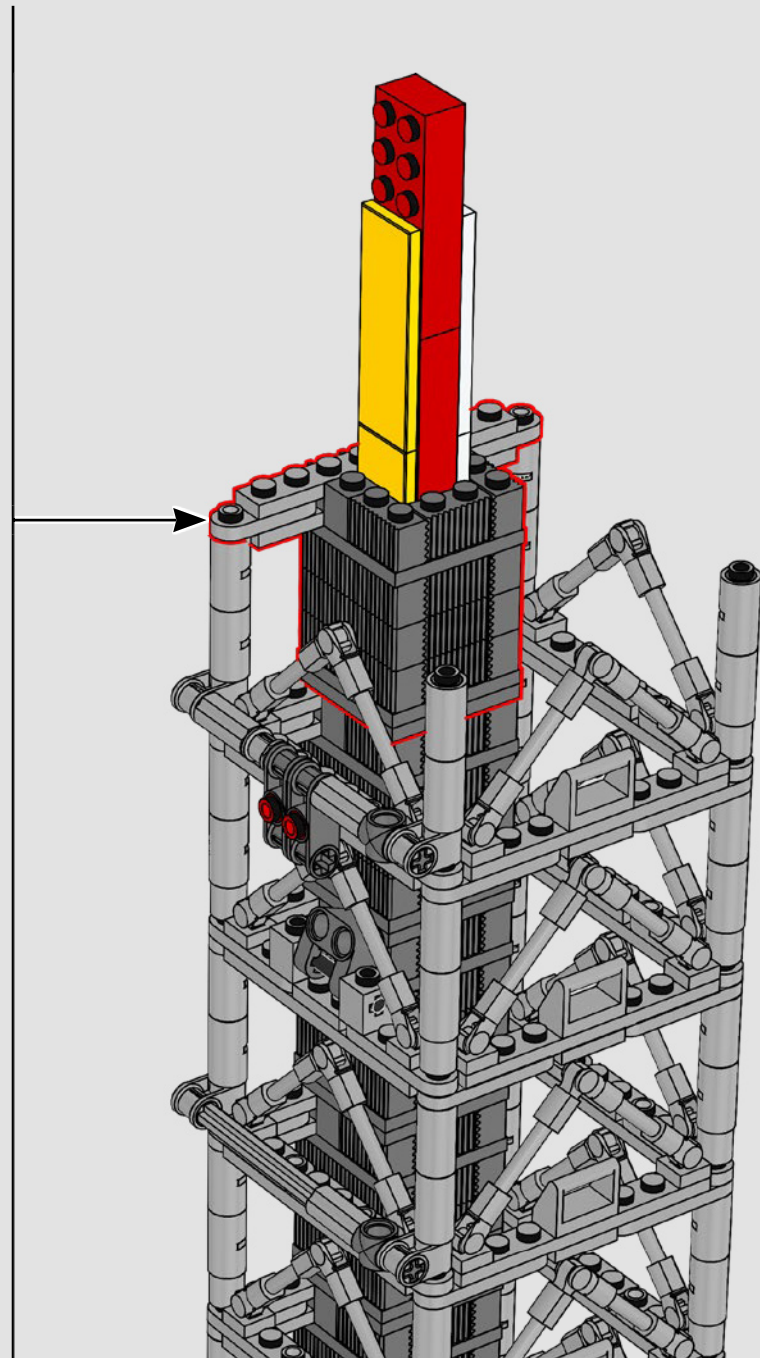
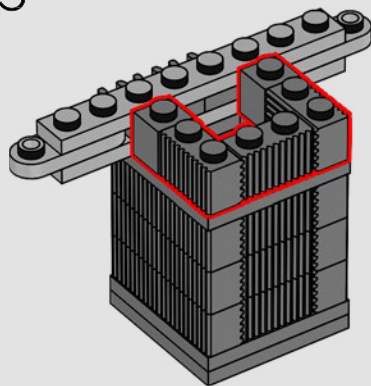
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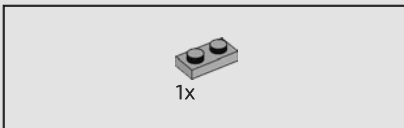
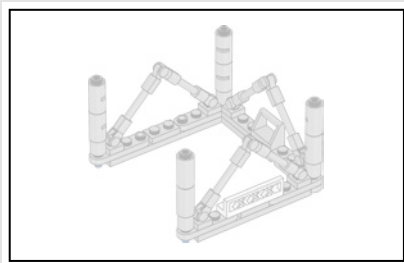


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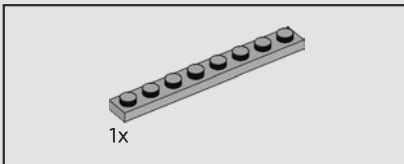


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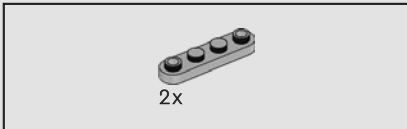
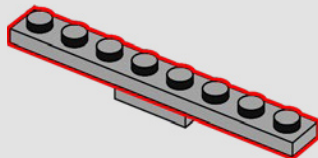




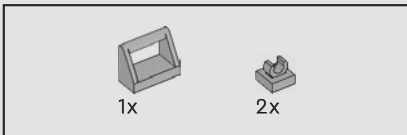
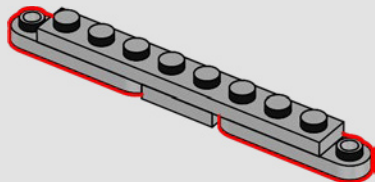
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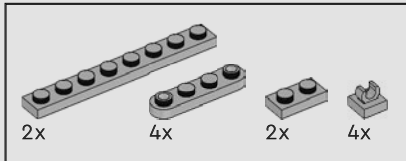
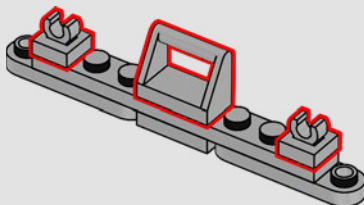
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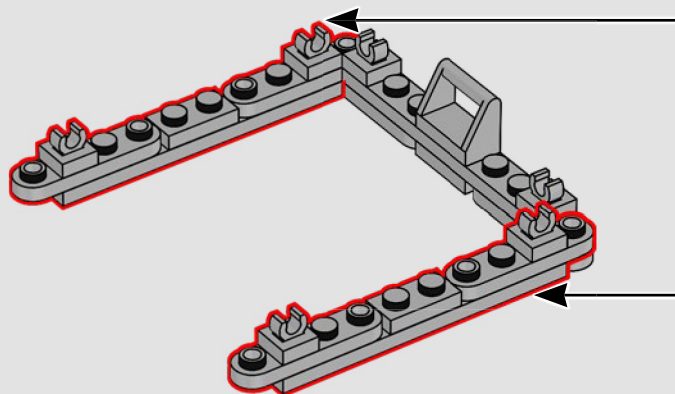
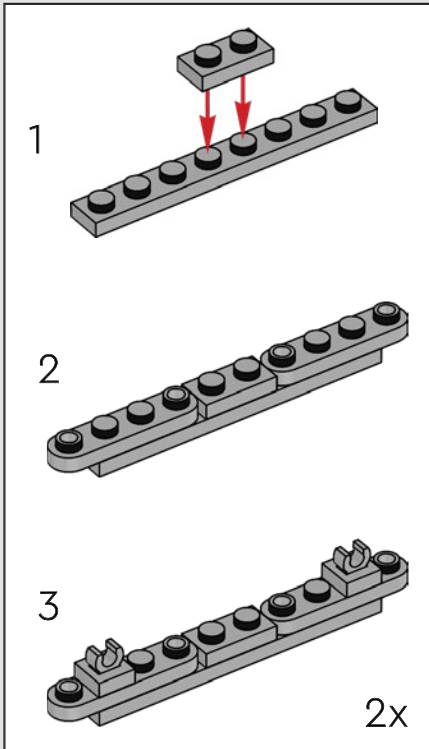
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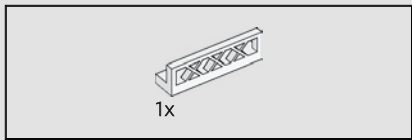


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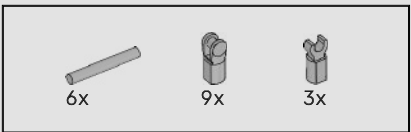
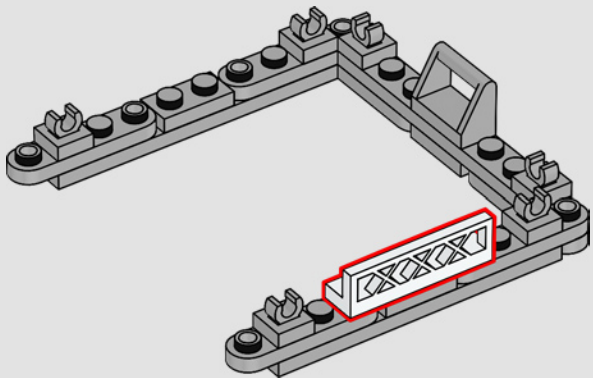


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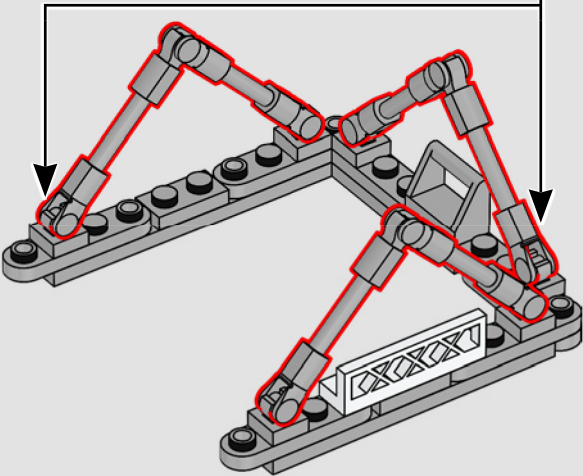
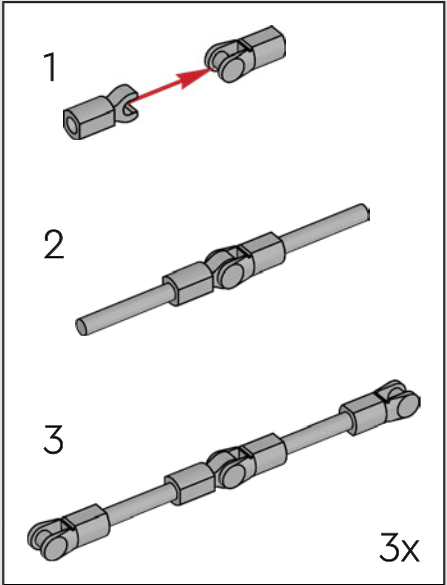


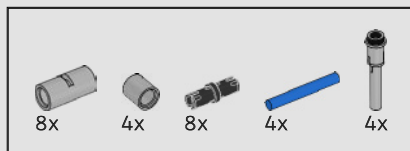


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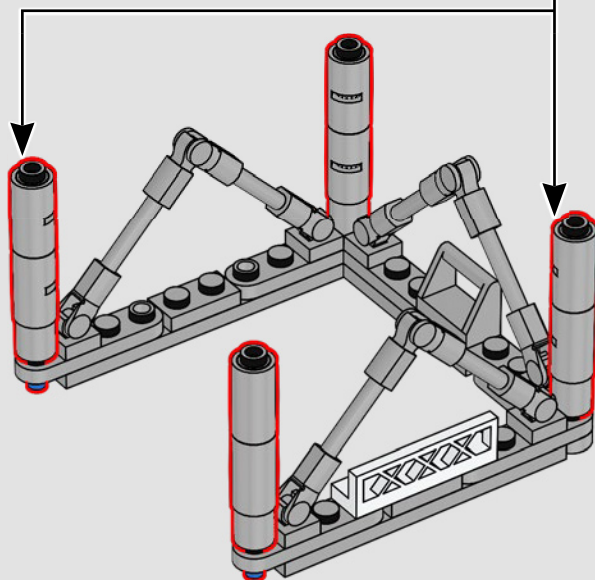
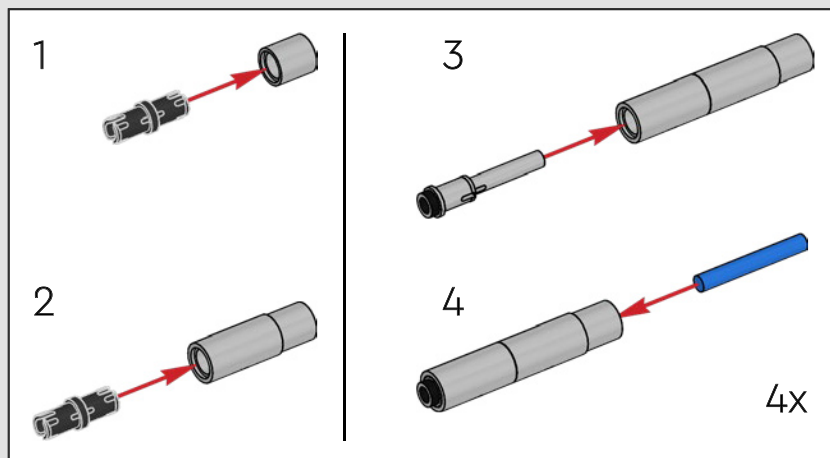


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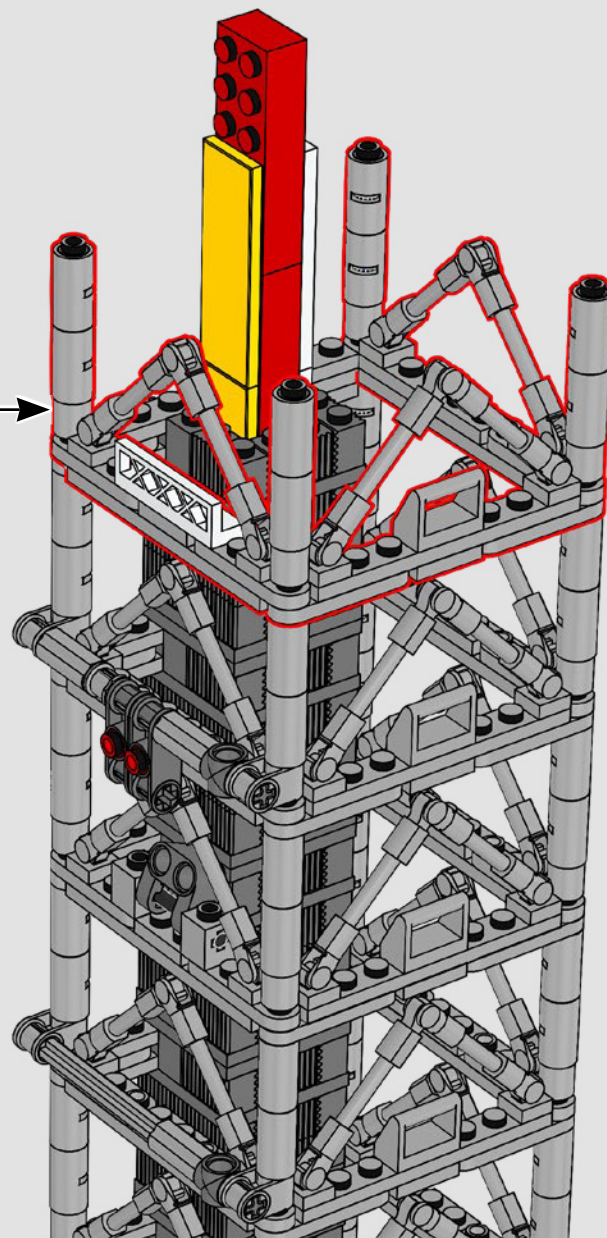


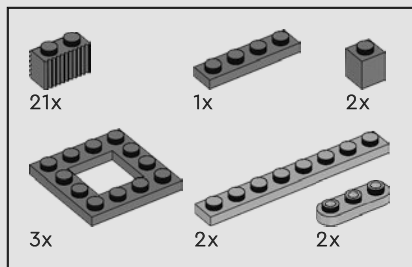


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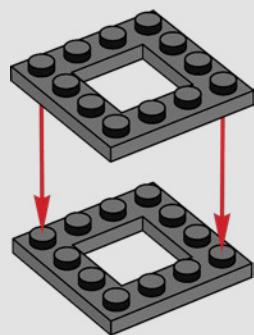
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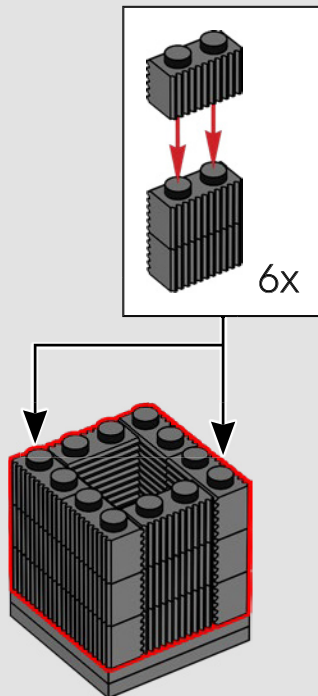


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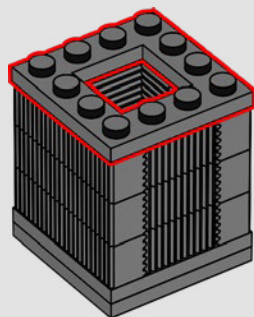
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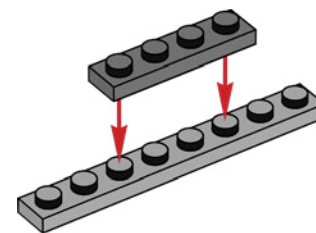
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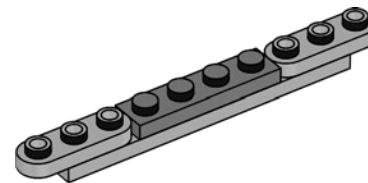
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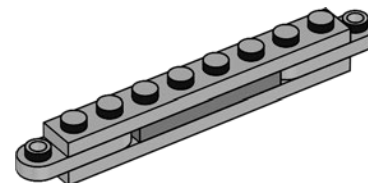
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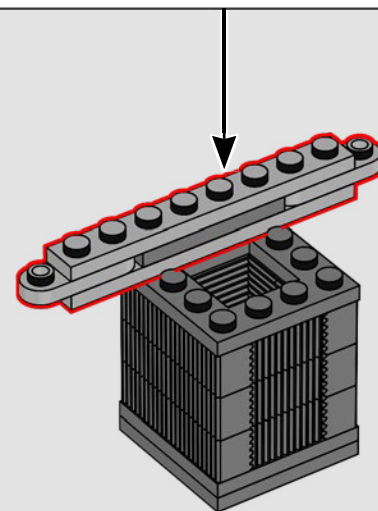
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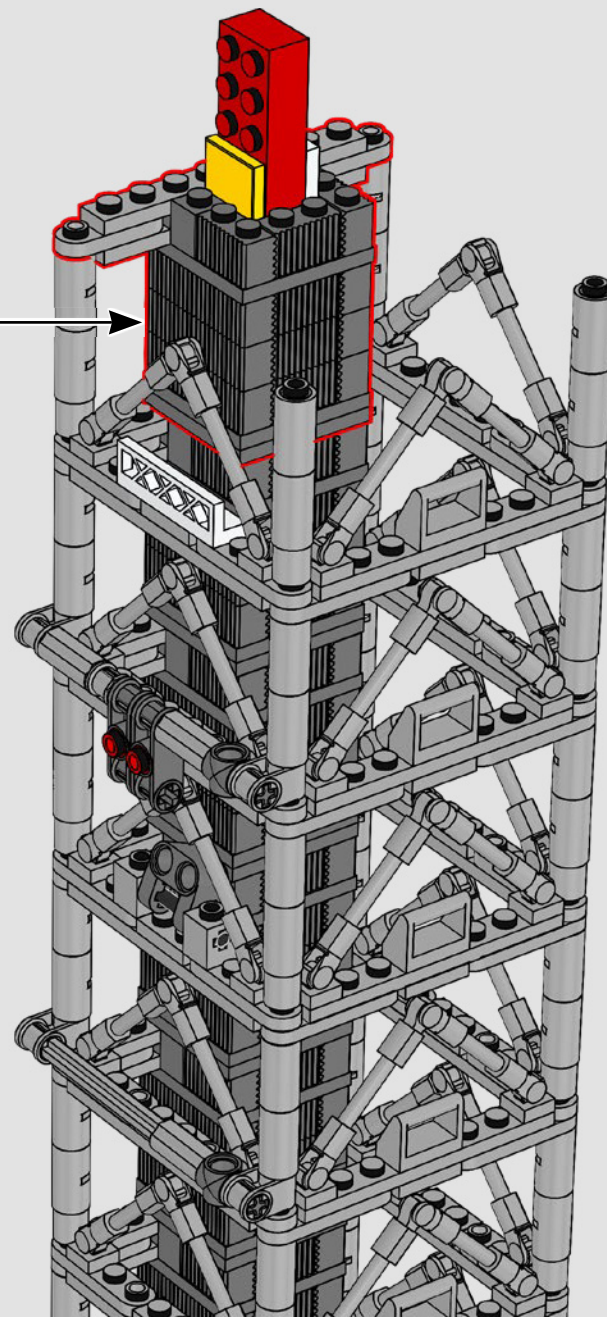
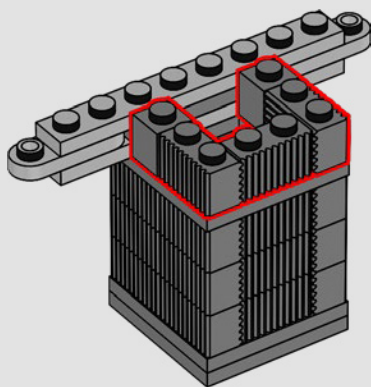
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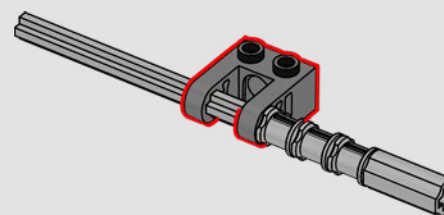
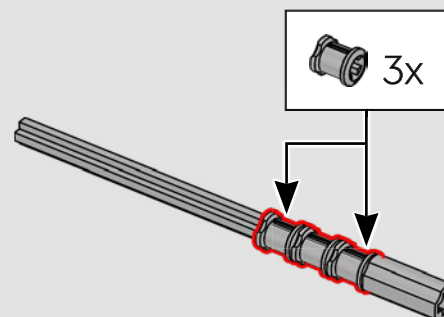
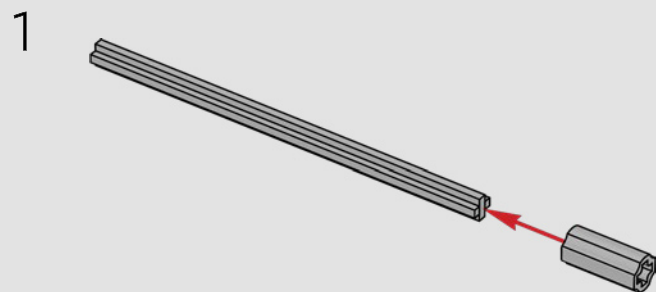


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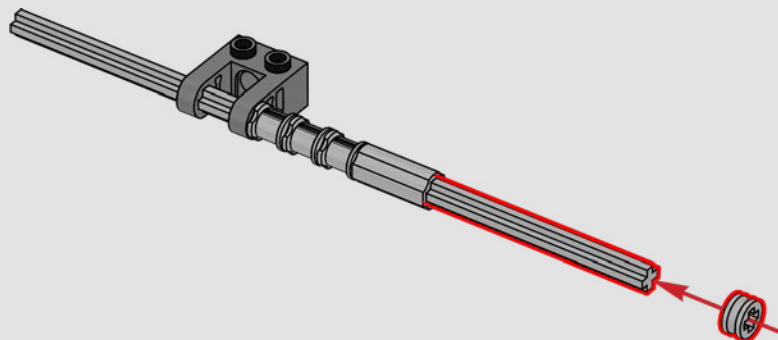


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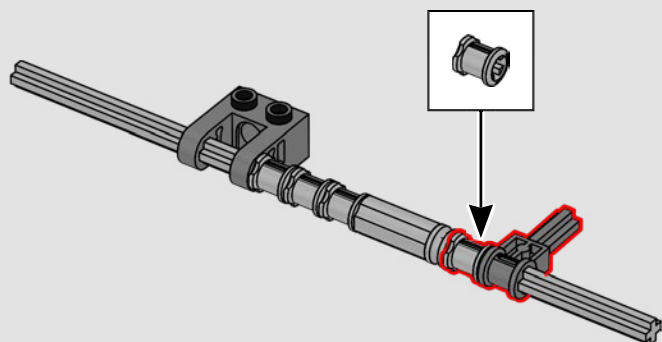




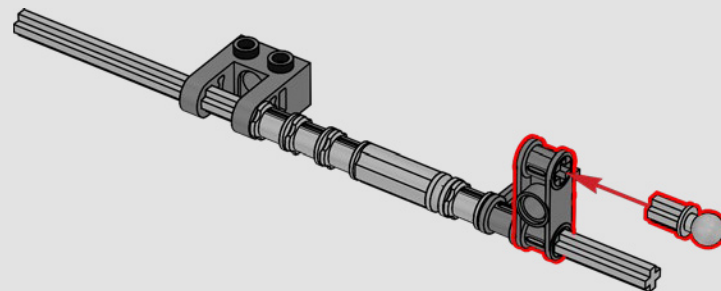
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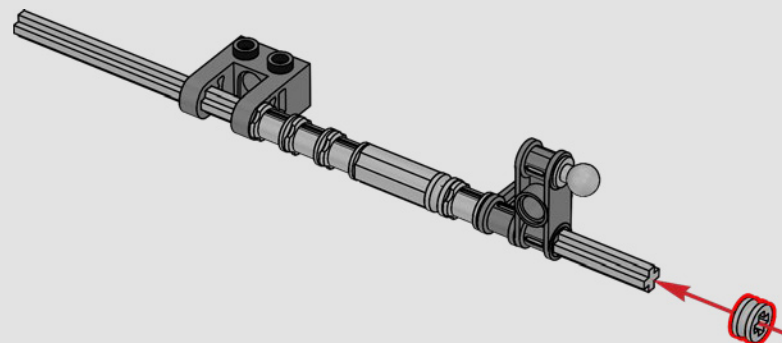
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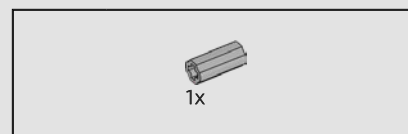
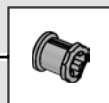
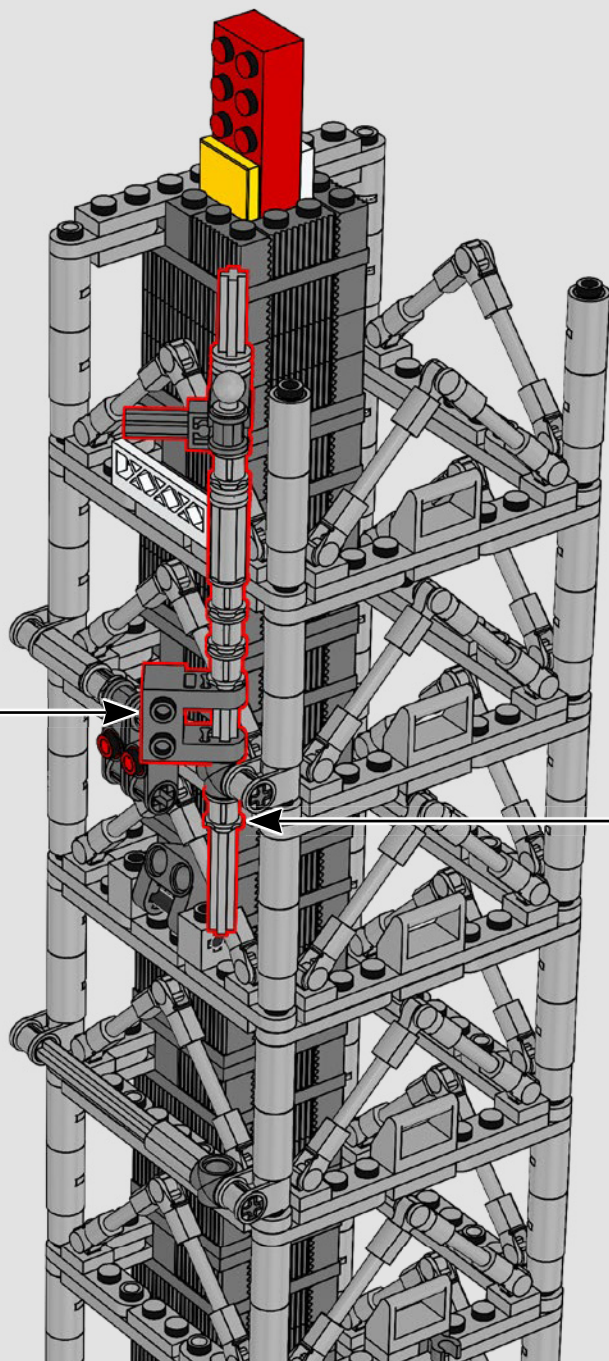


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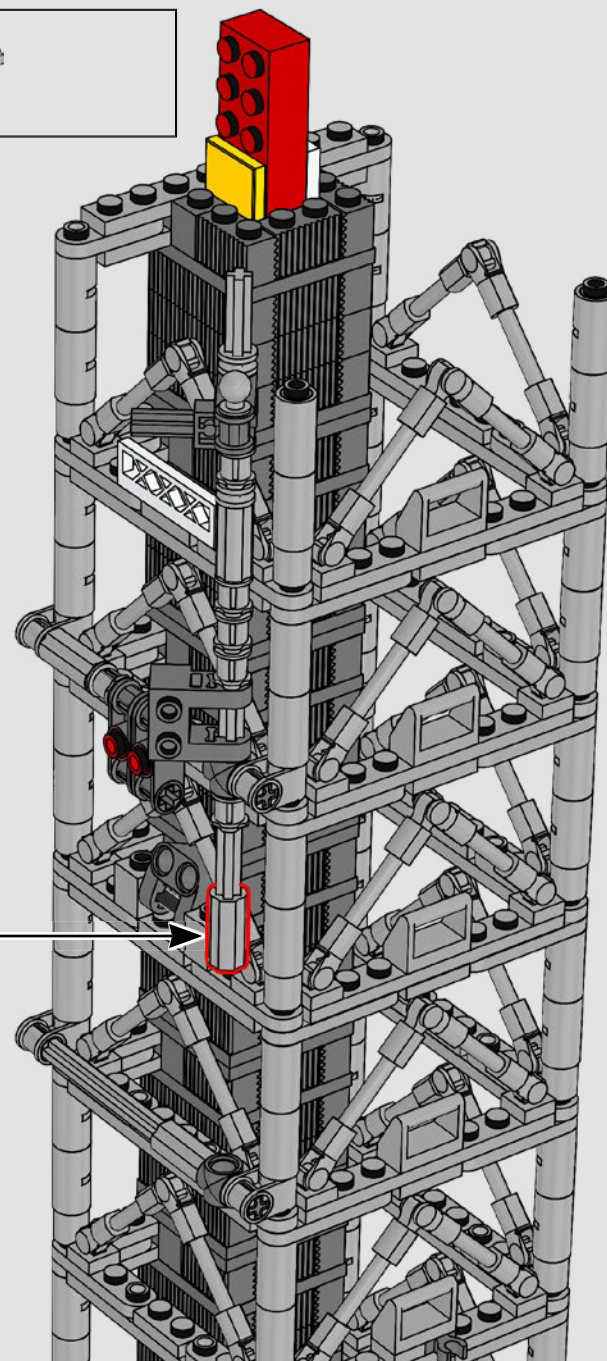
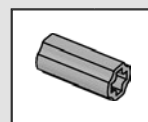


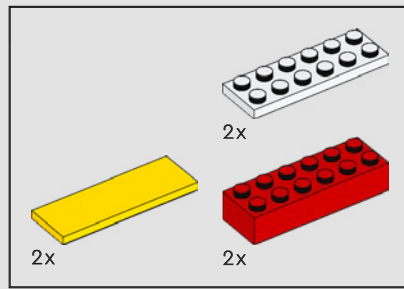
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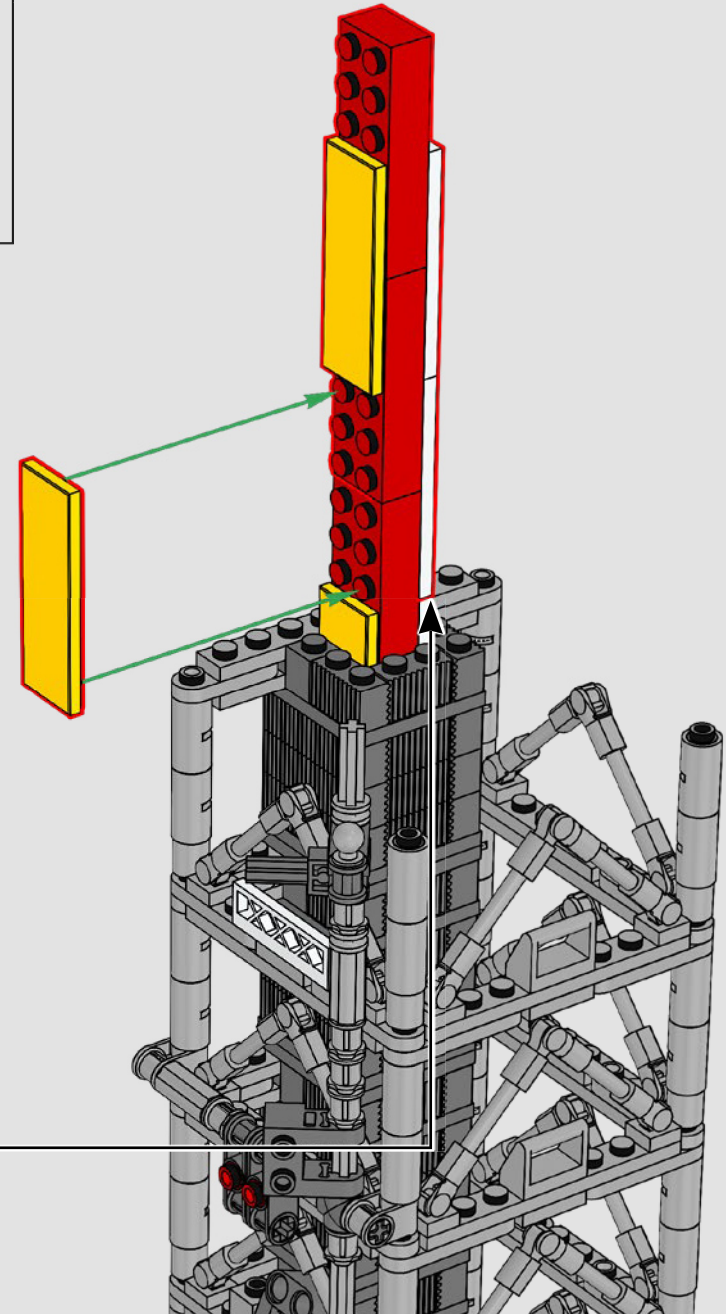
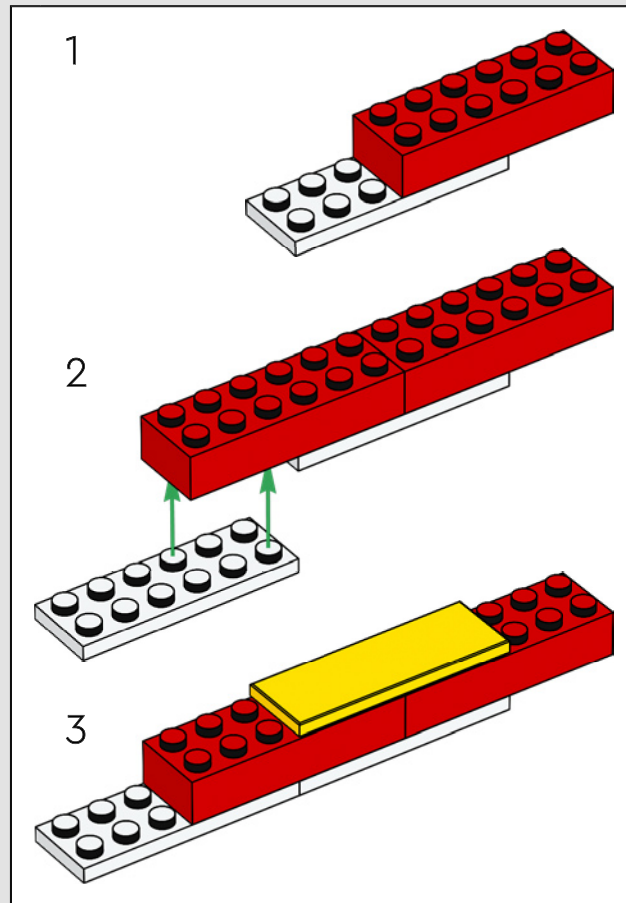


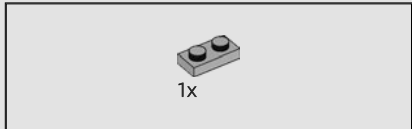
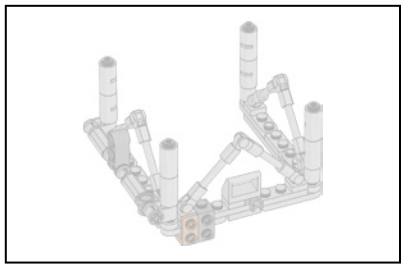
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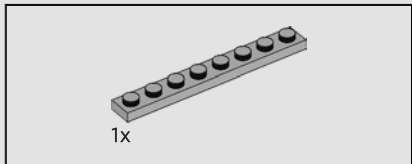


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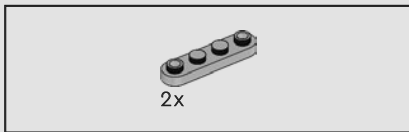
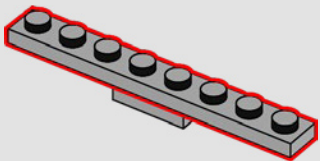




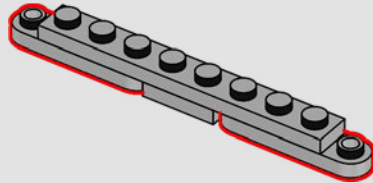
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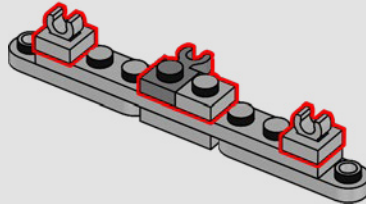
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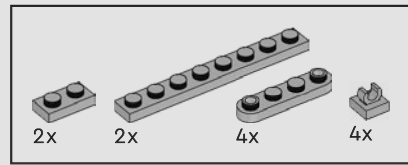
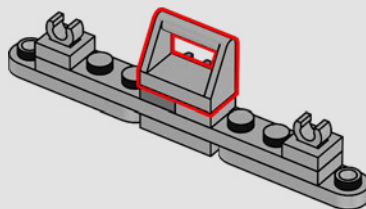
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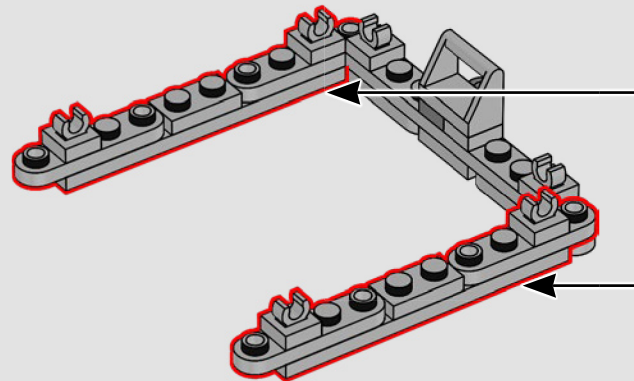
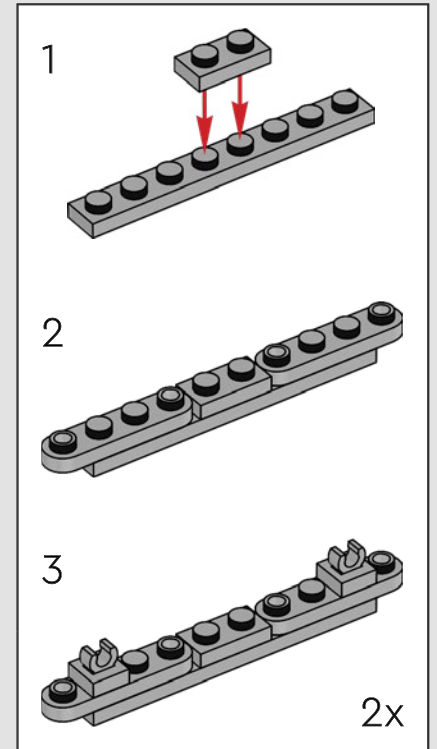
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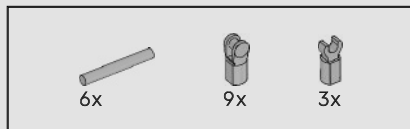


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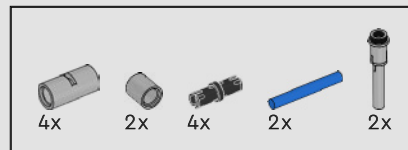
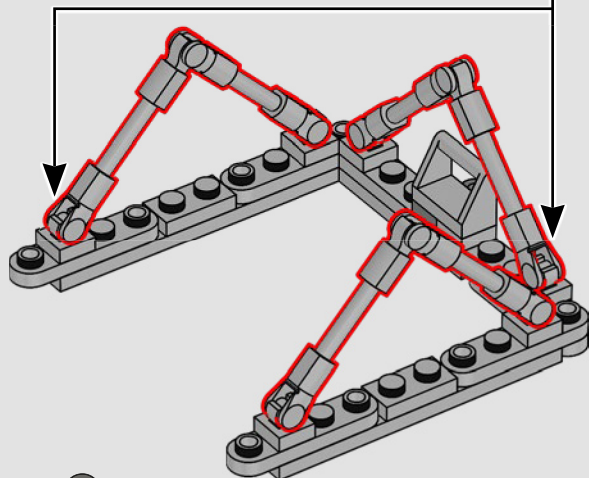
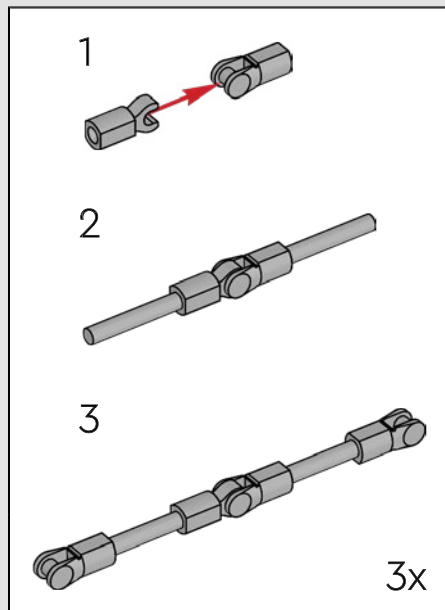


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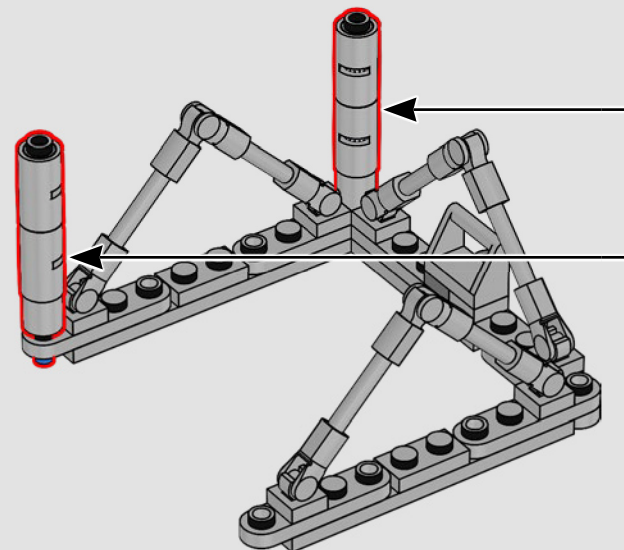
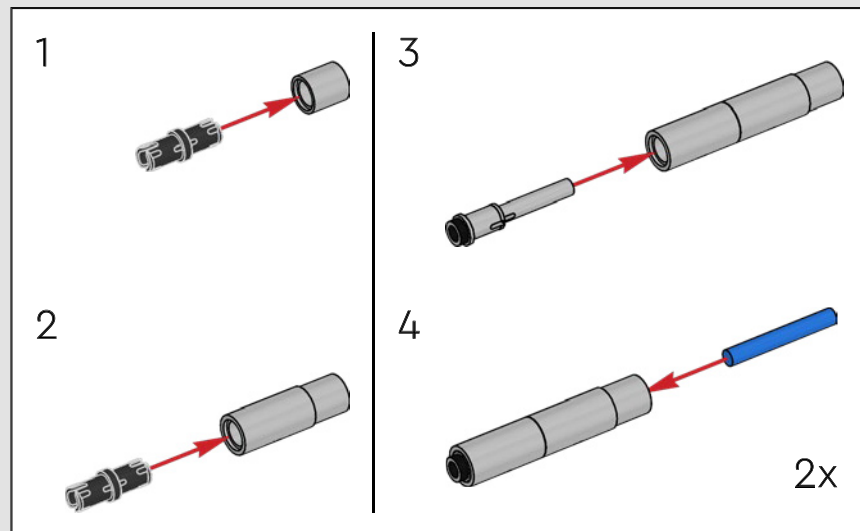


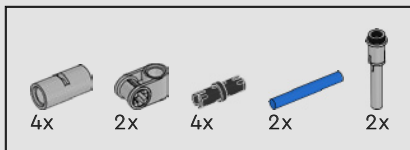


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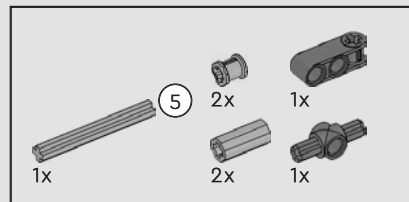
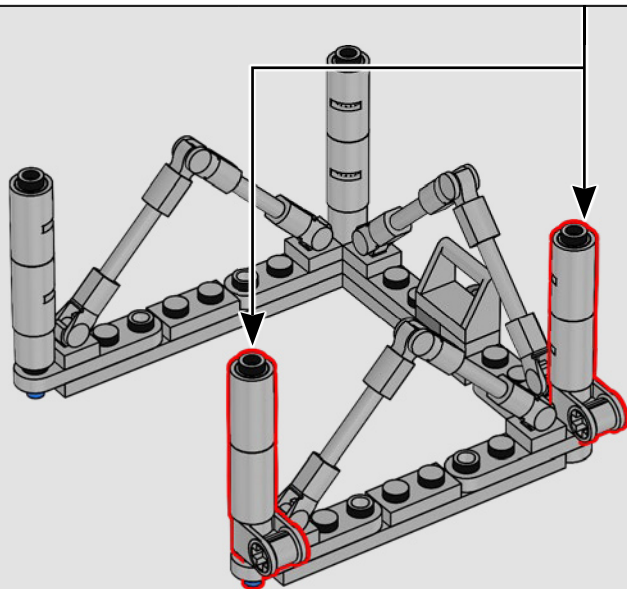
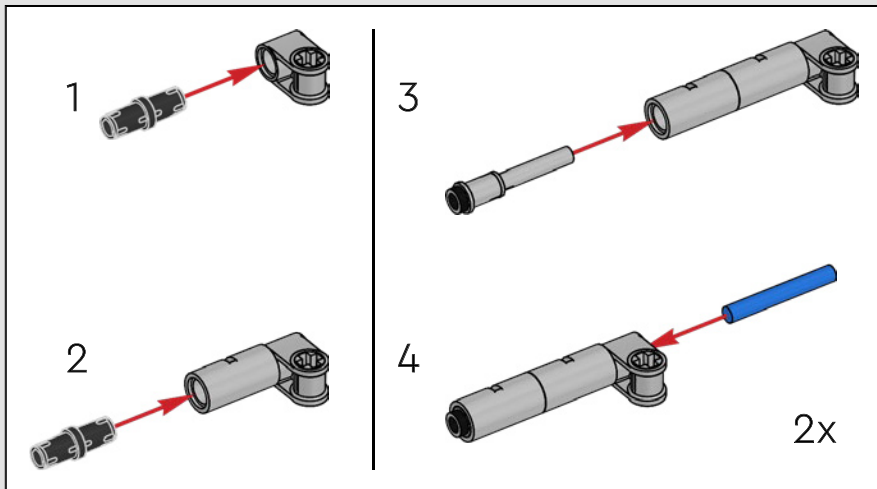


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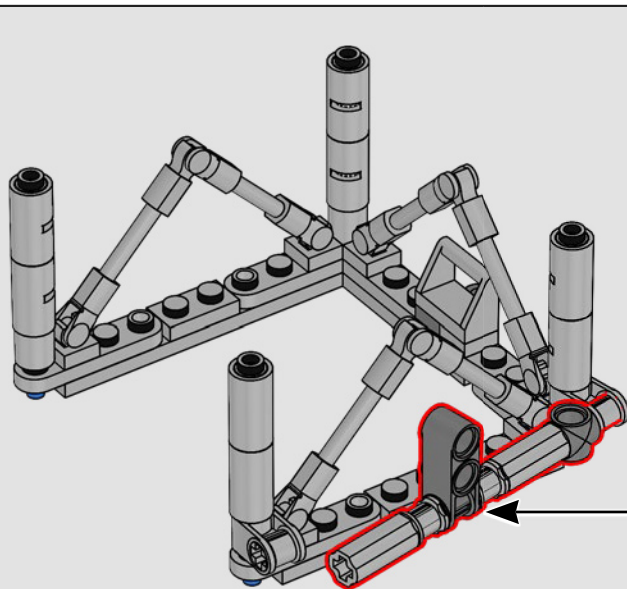
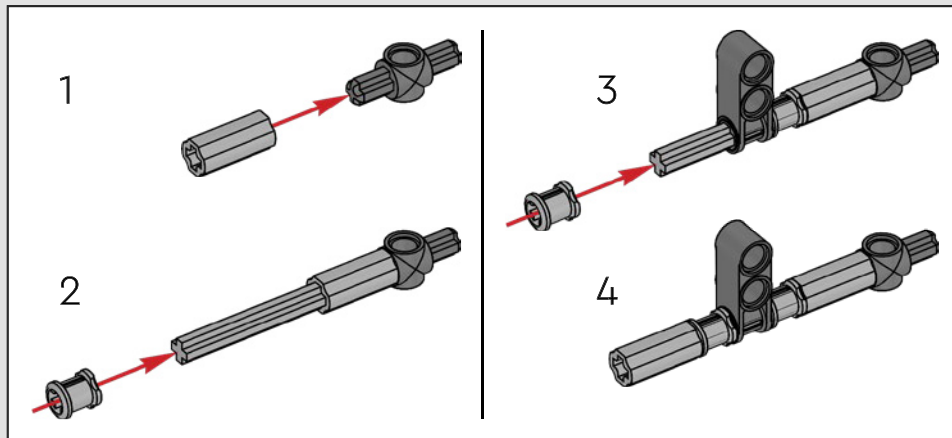


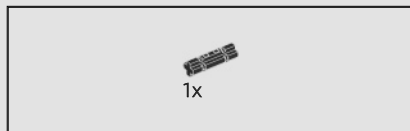


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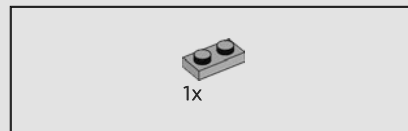
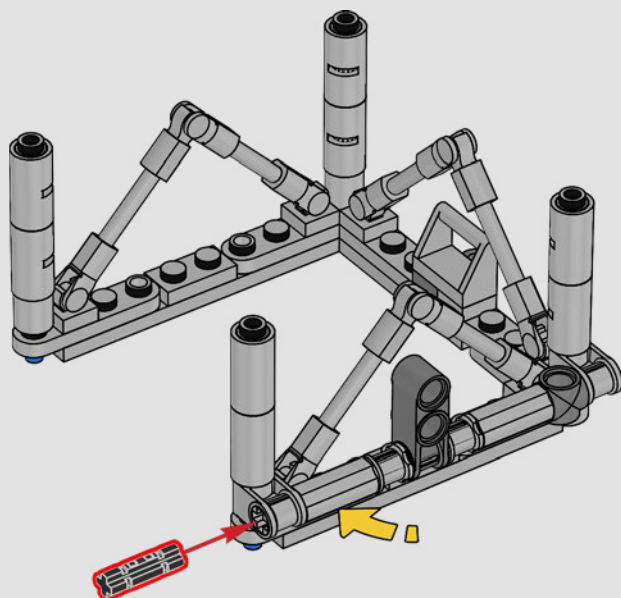


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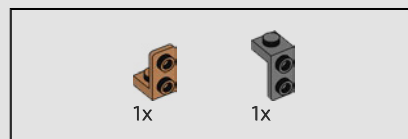
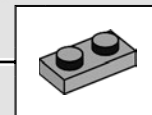
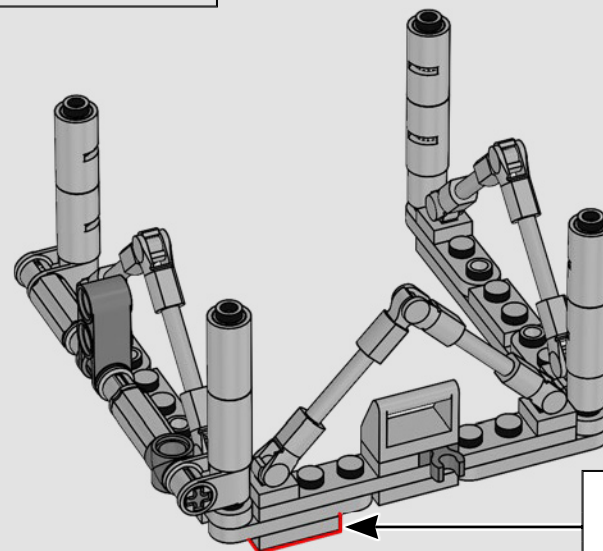




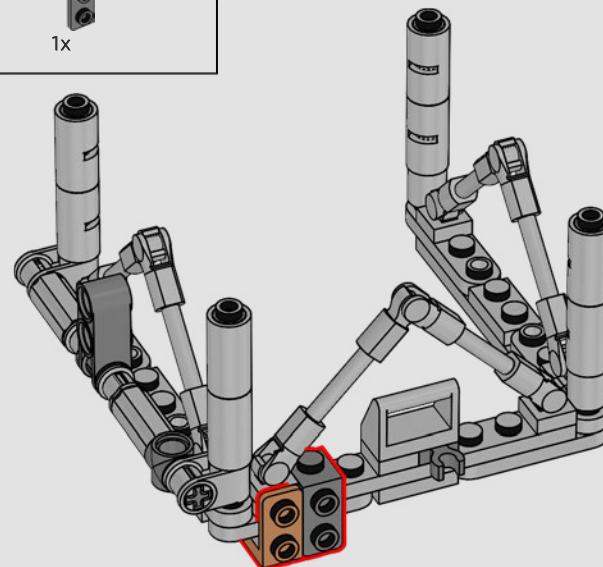
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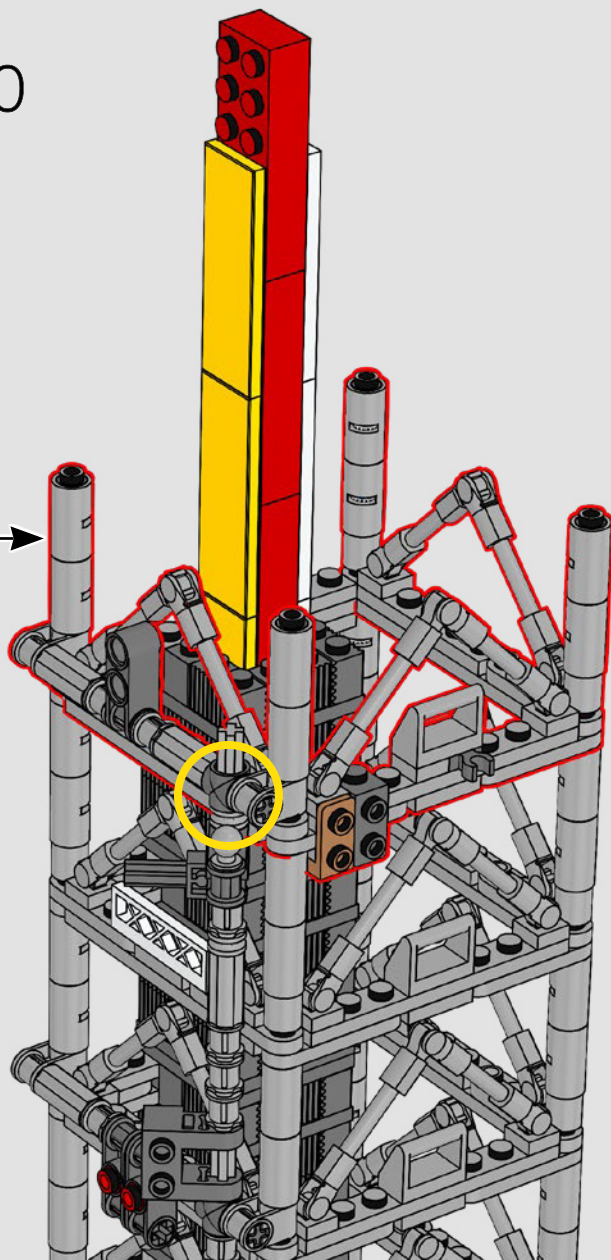
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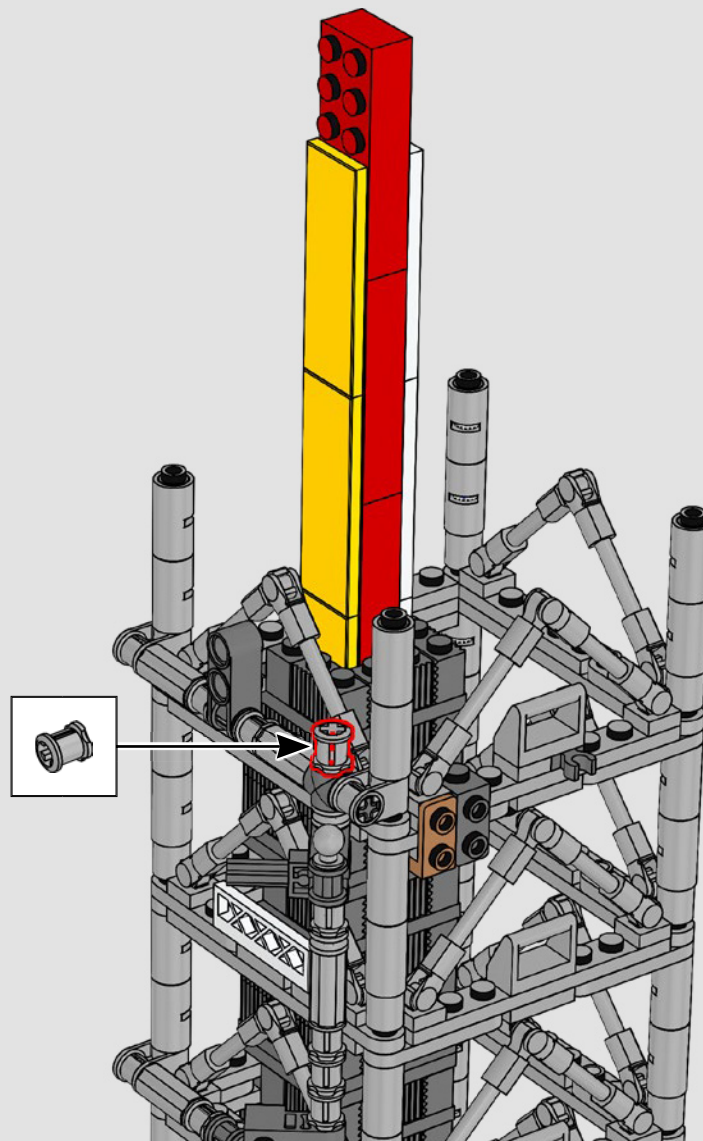
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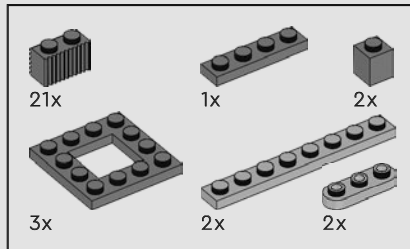
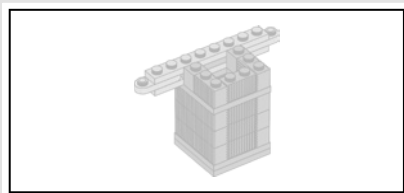


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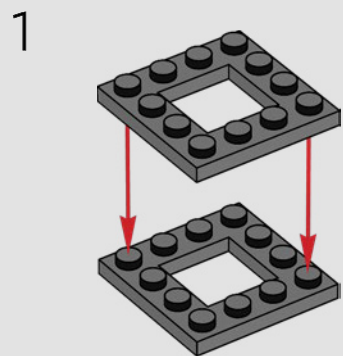


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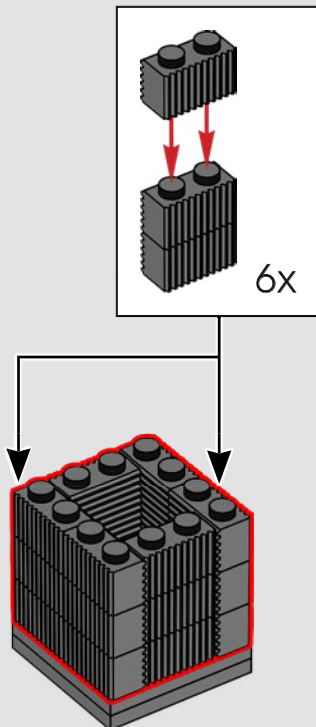




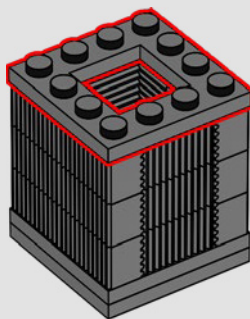
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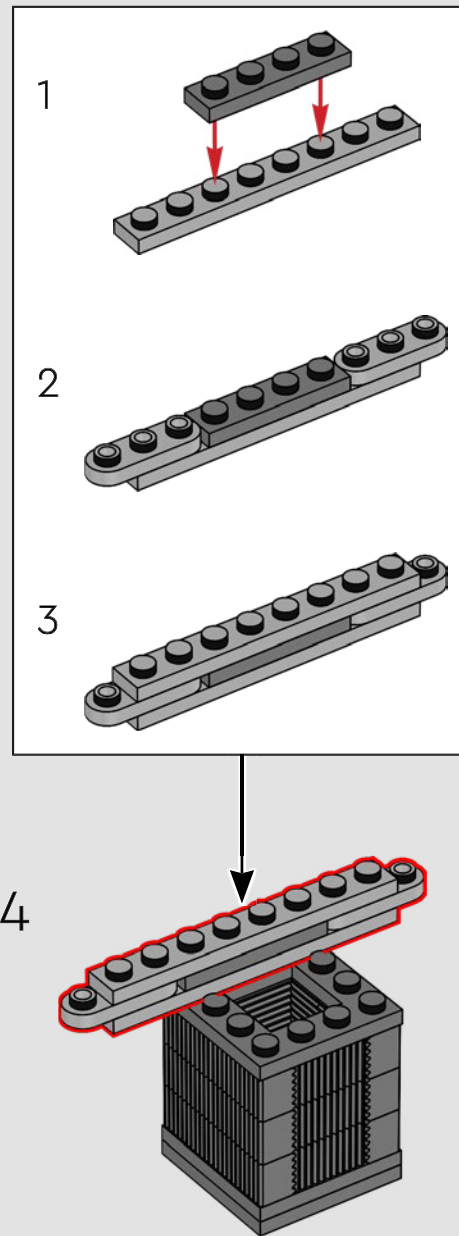
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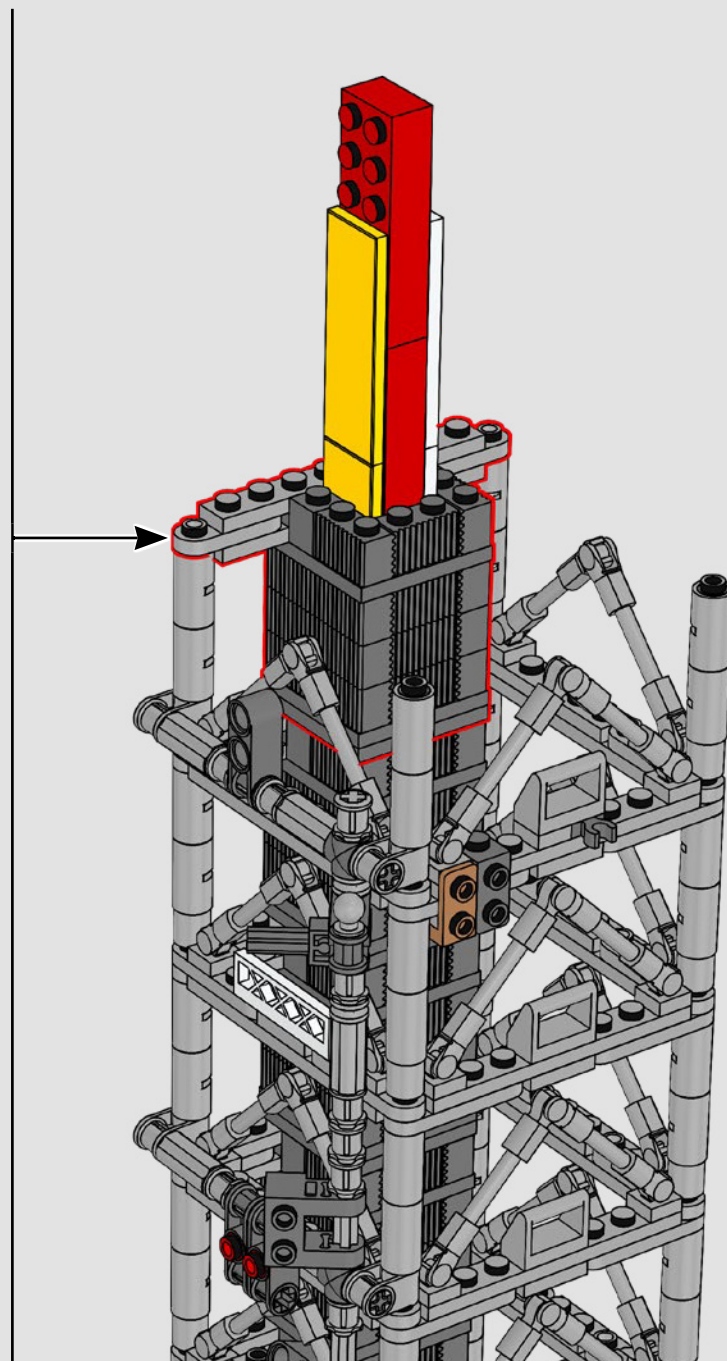
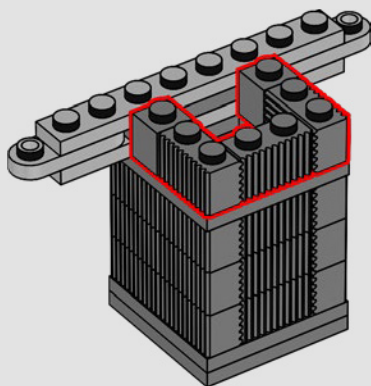
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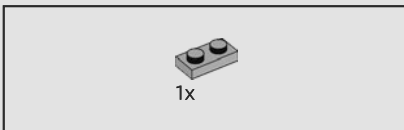
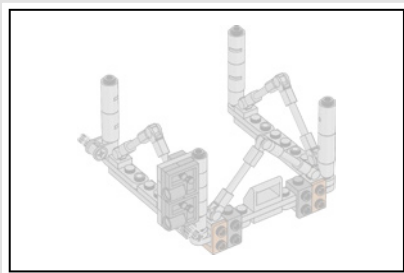


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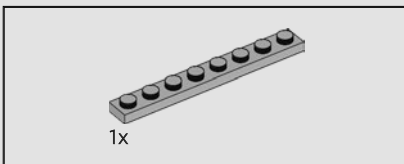


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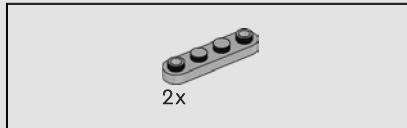
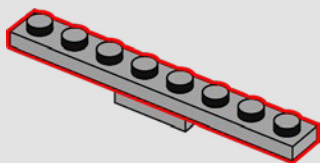




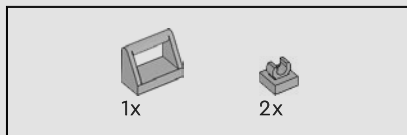
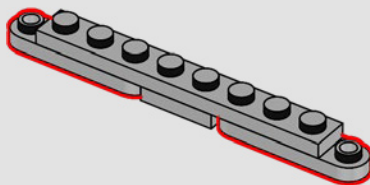
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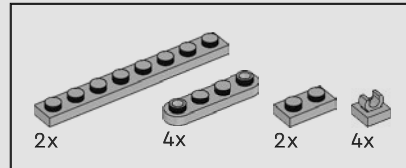
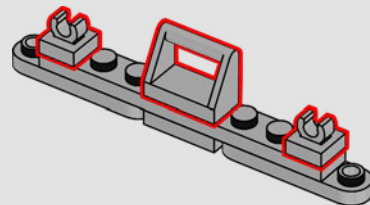
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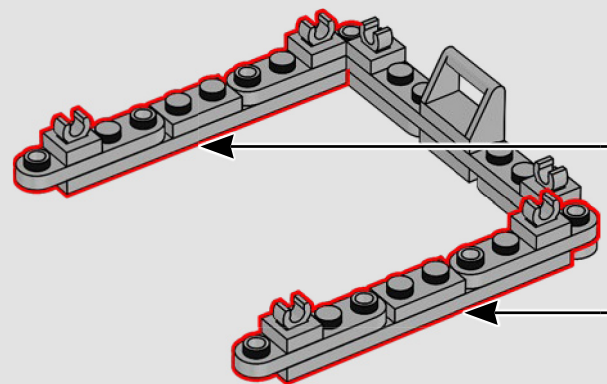
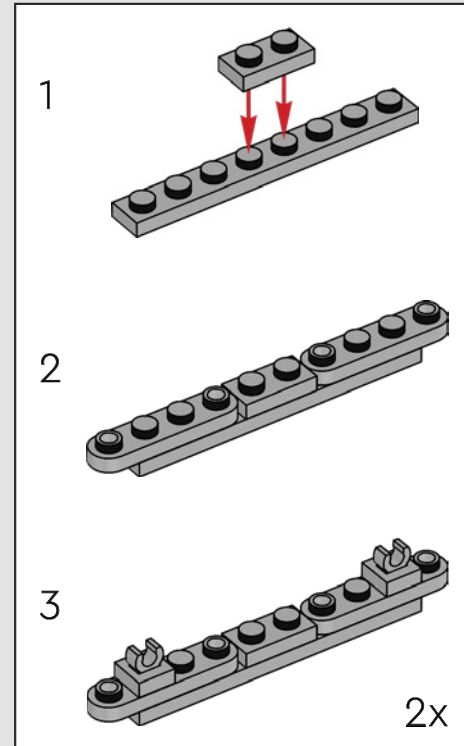
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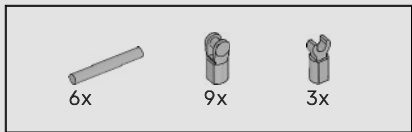


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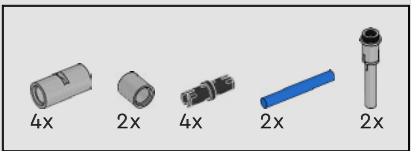
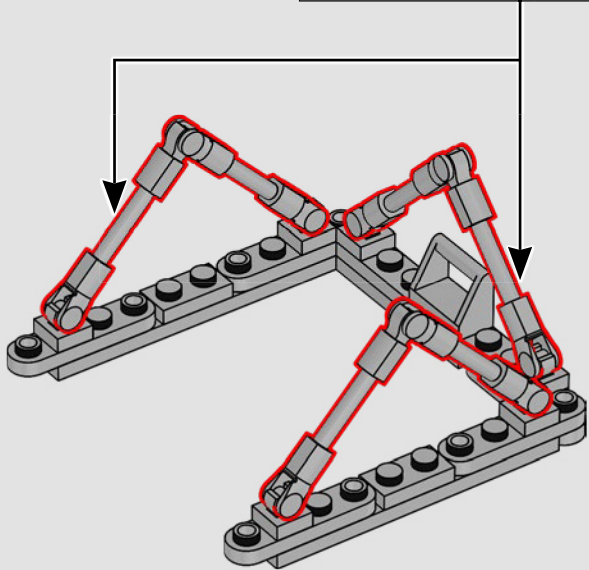
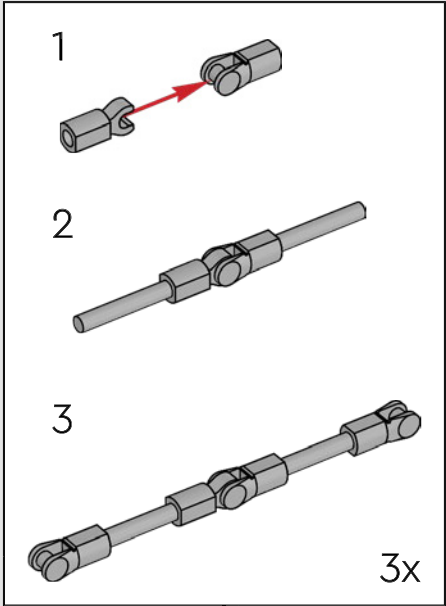


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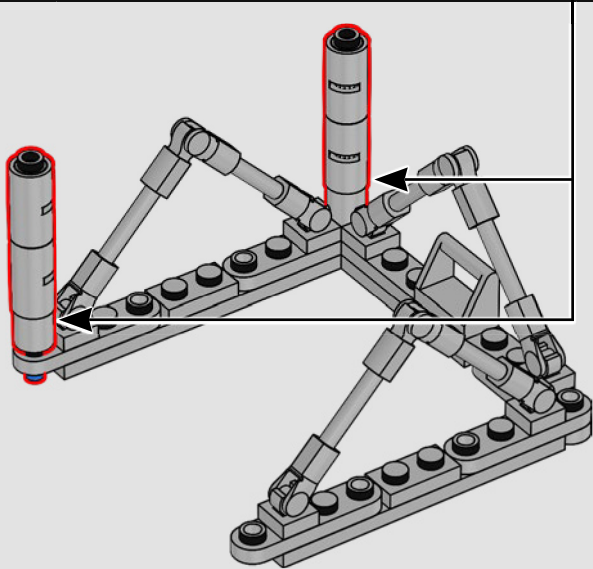
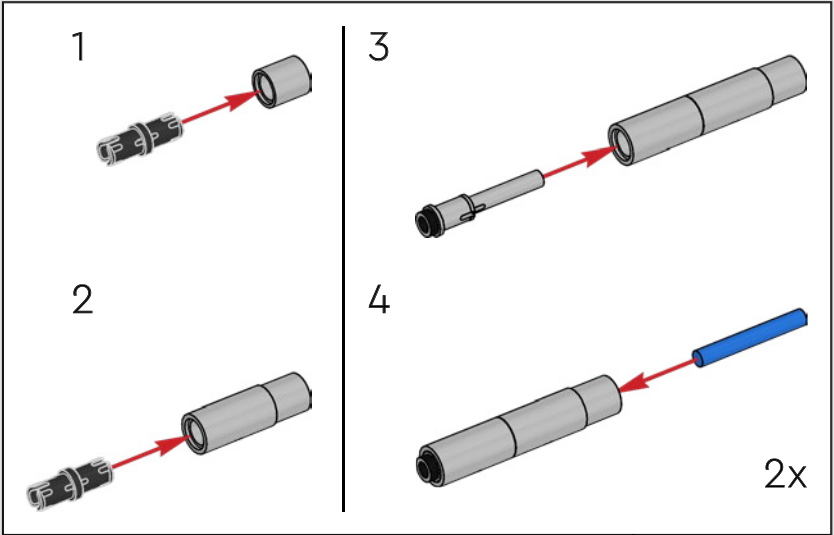


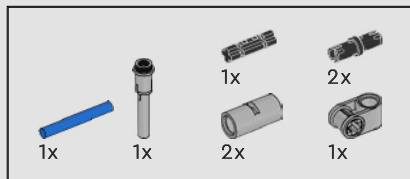


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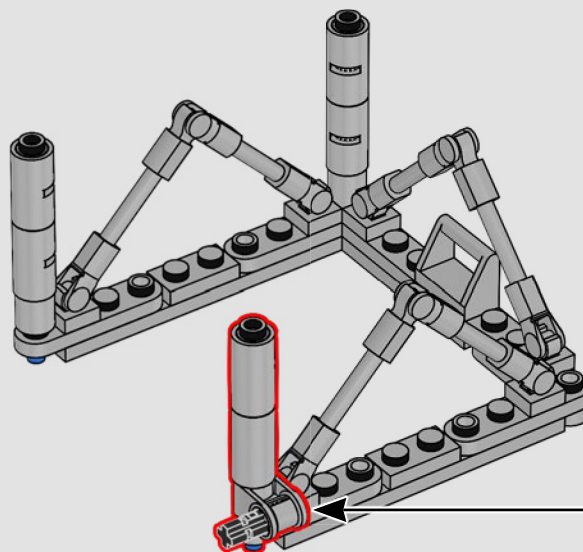
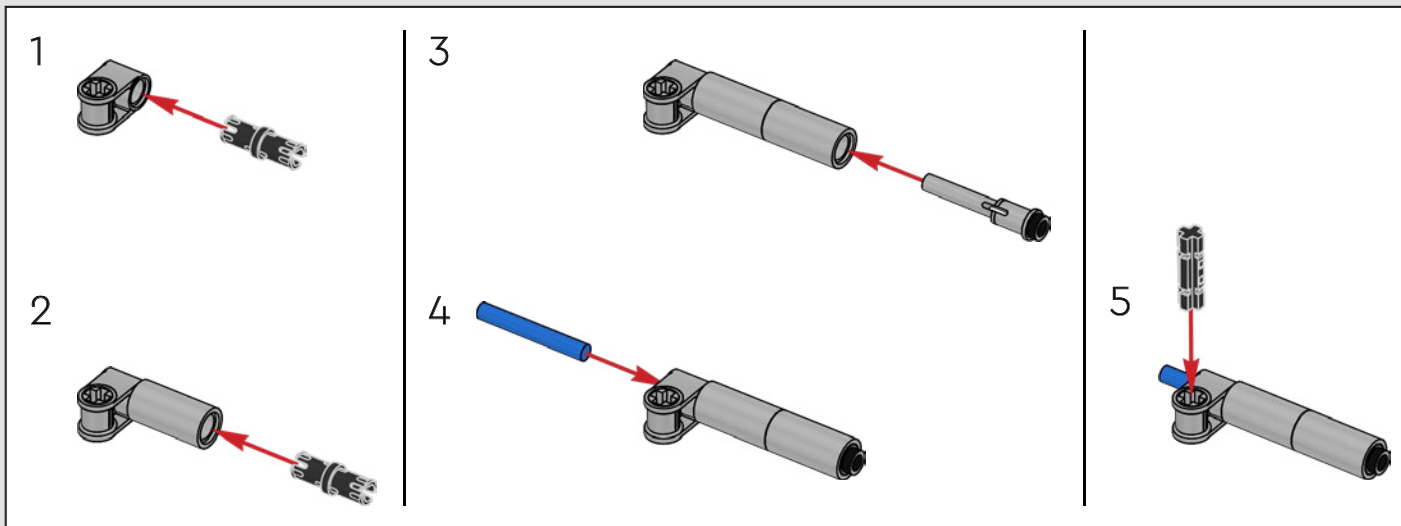


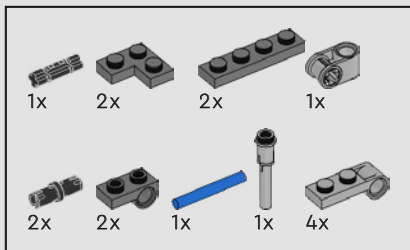
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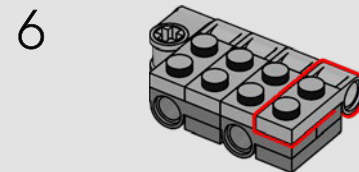
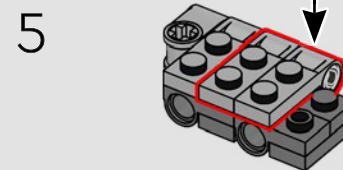
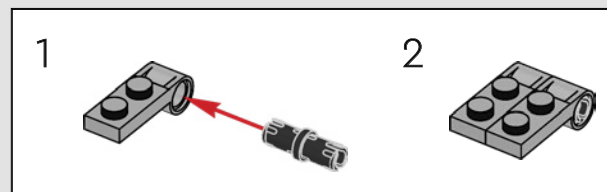
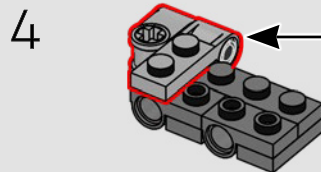
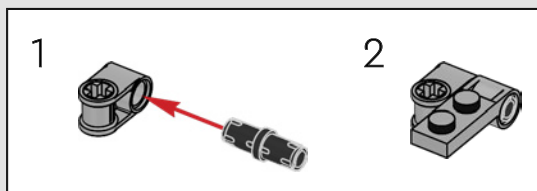
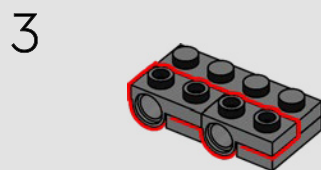
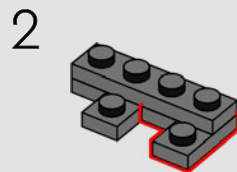
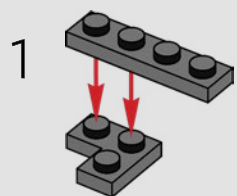


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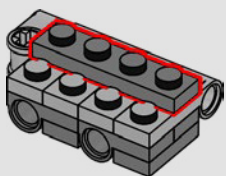




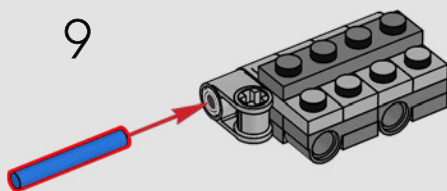
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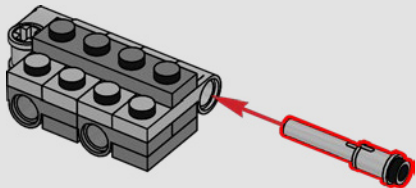
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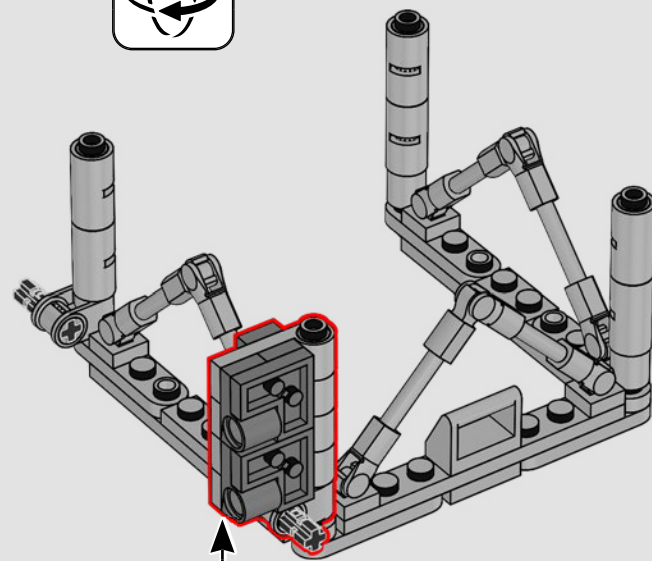
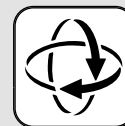
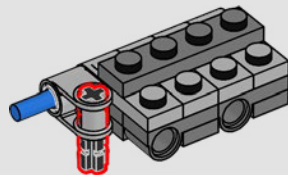
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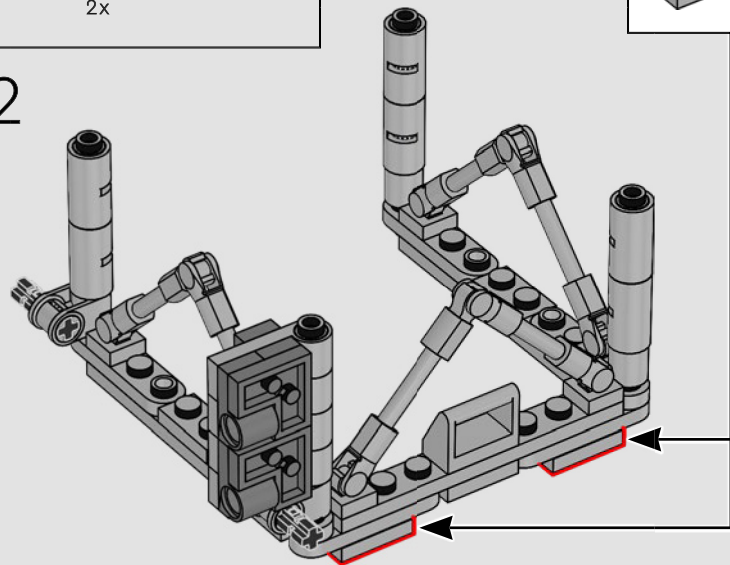


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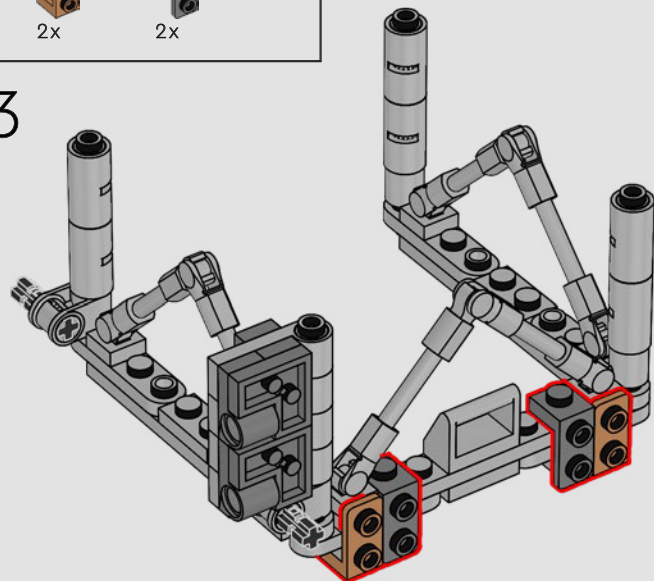
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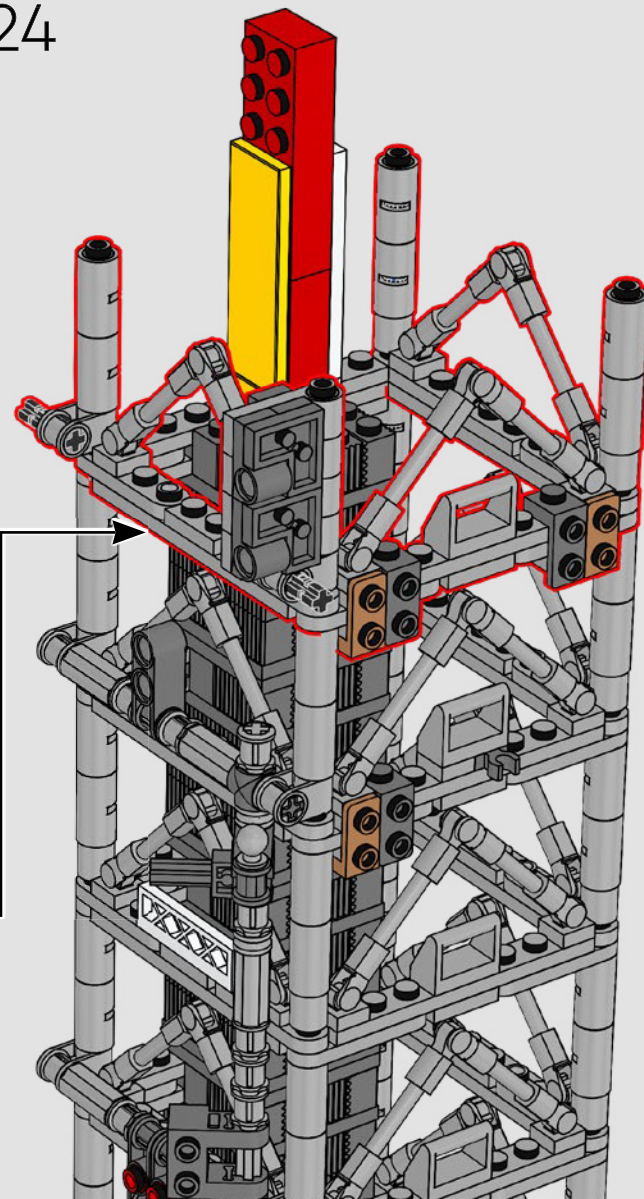
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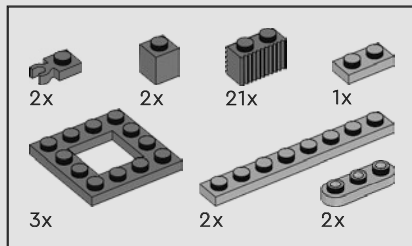
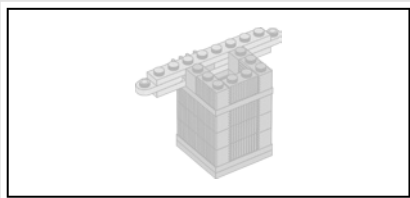
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323



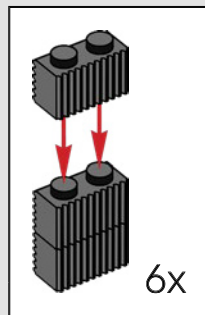
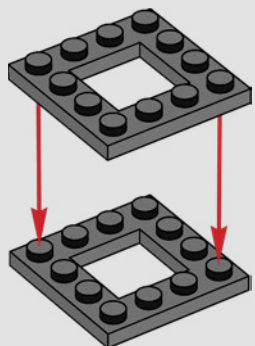
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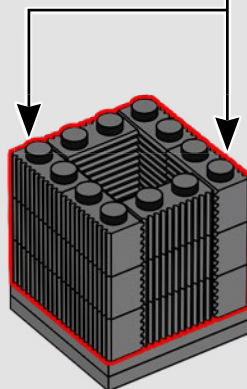


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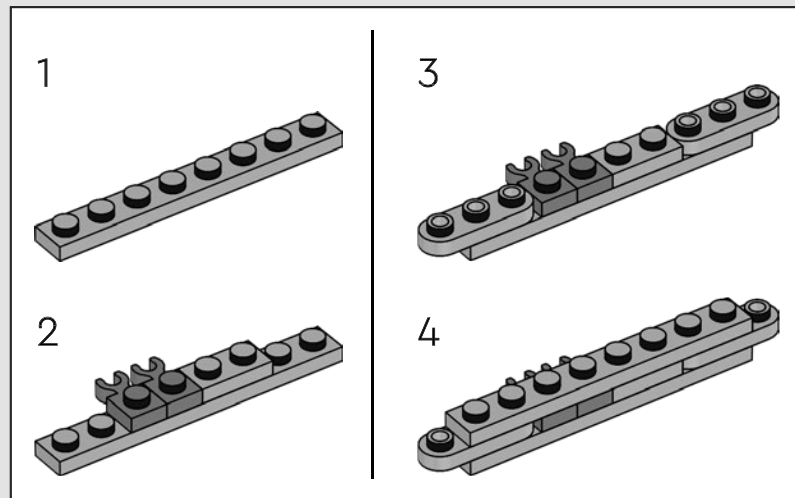
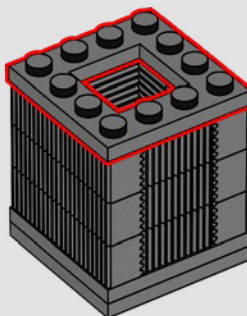
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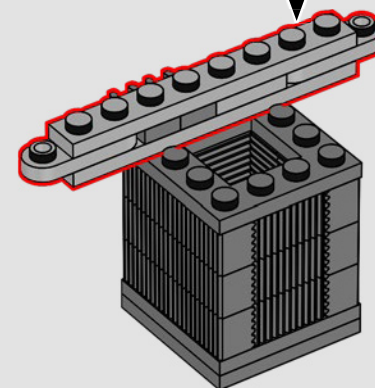
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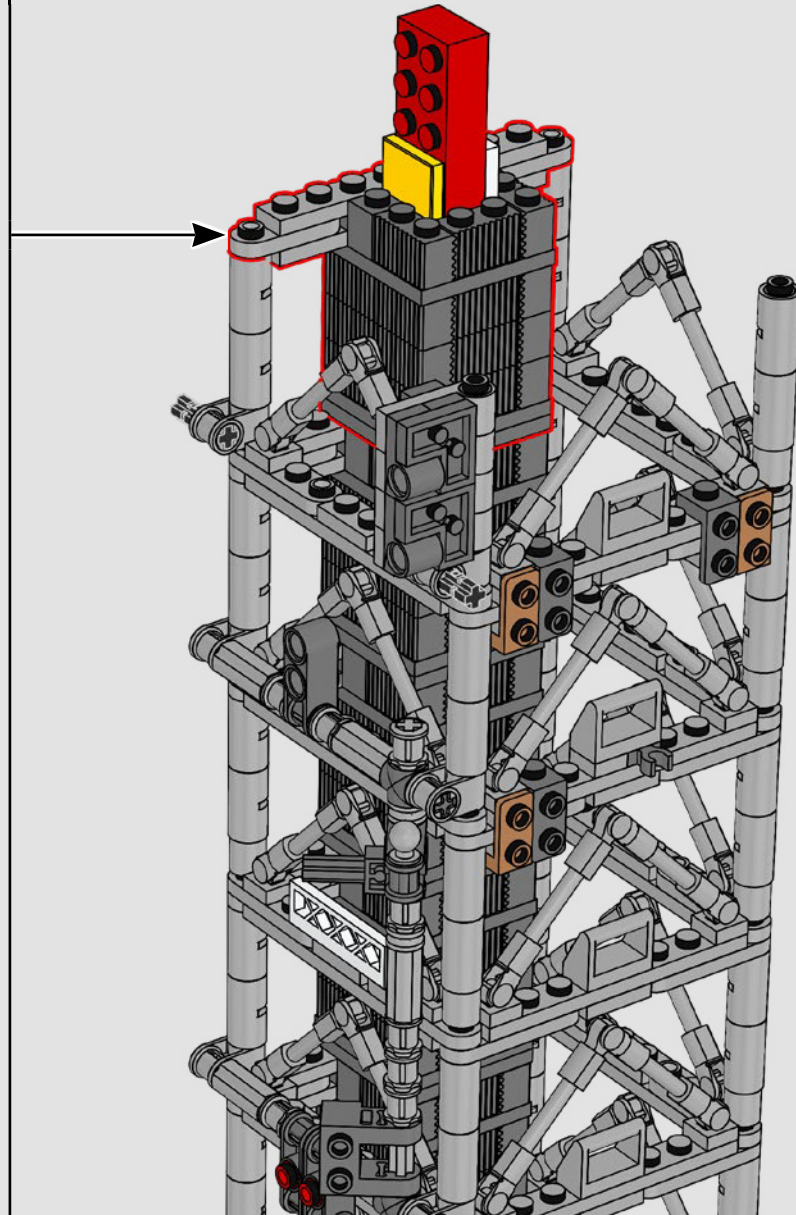
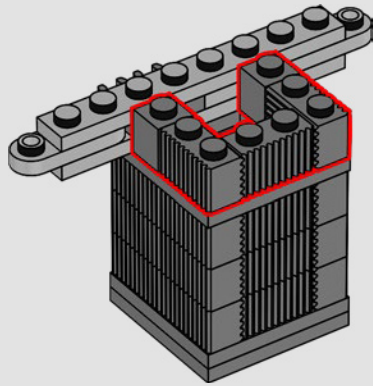
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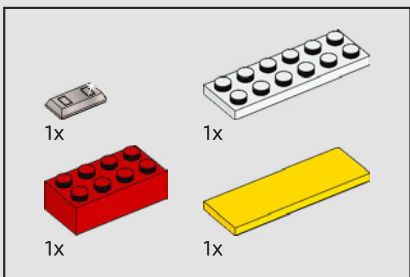


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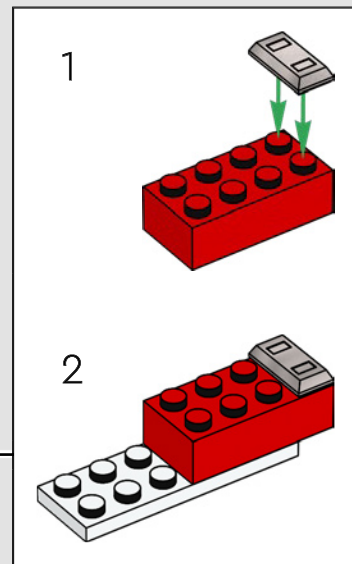
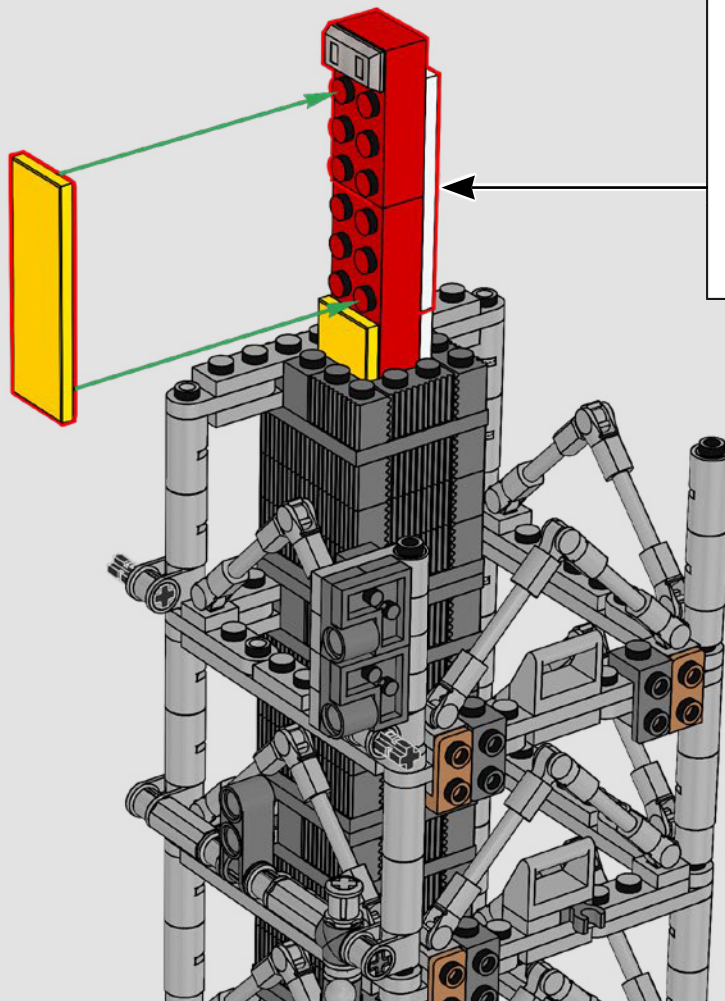


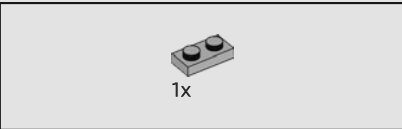
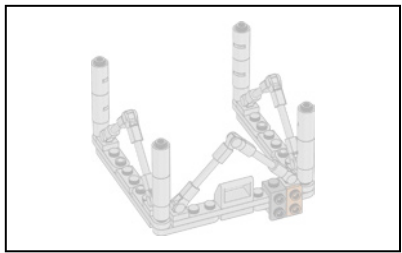
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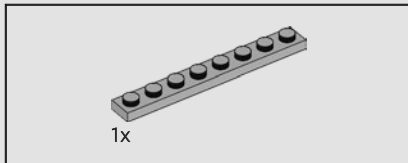
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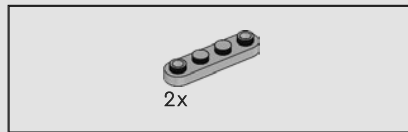
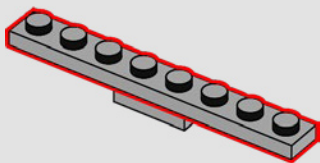
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327



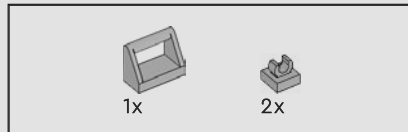
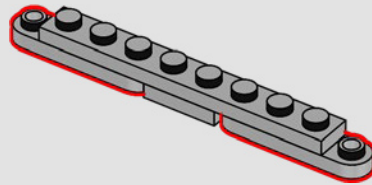
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328



2x

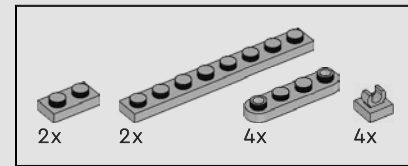
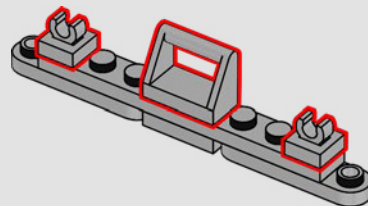
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1x

2x

330



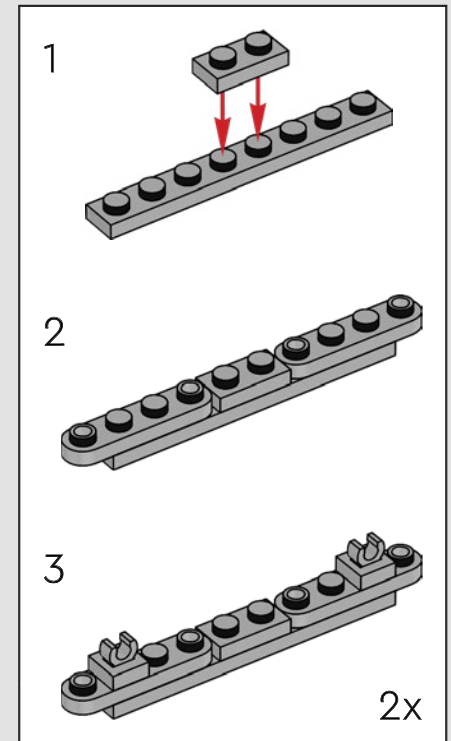
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2x

4x

4x

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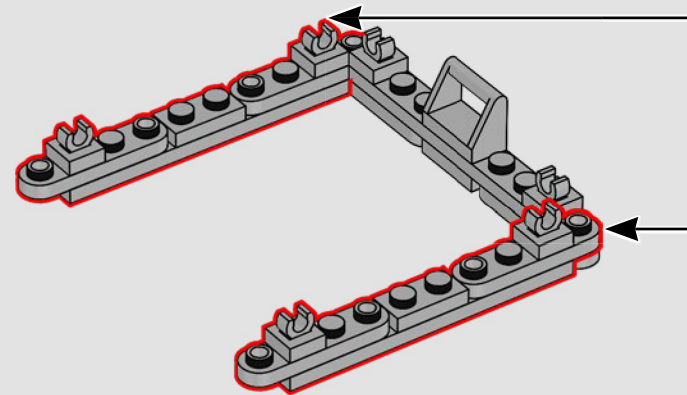


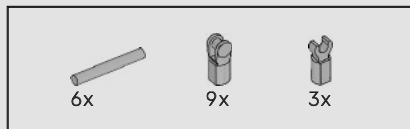
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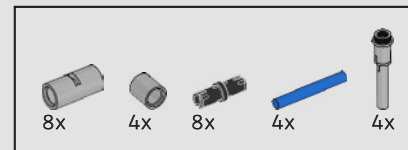
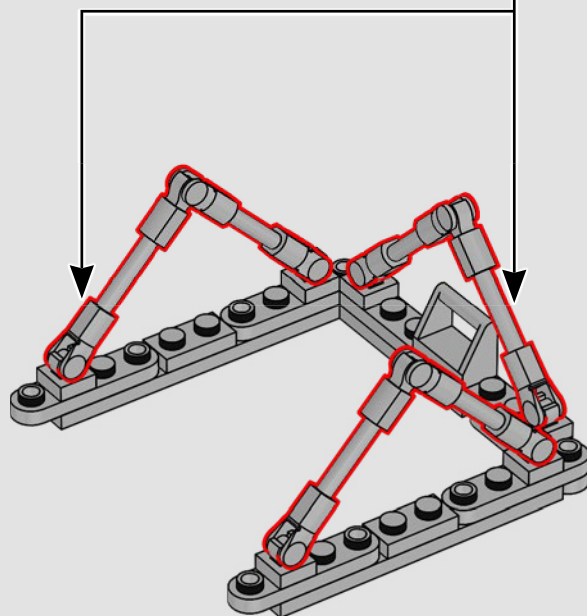
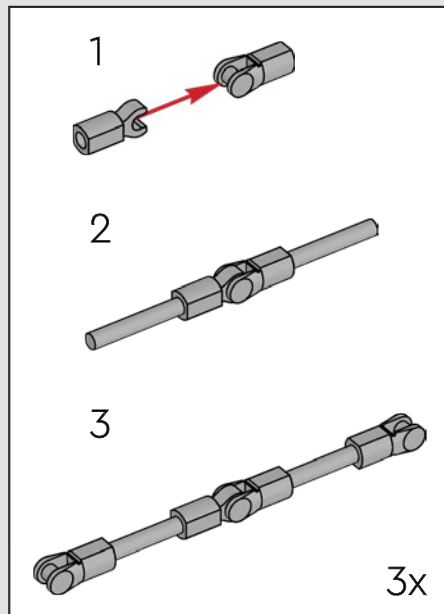
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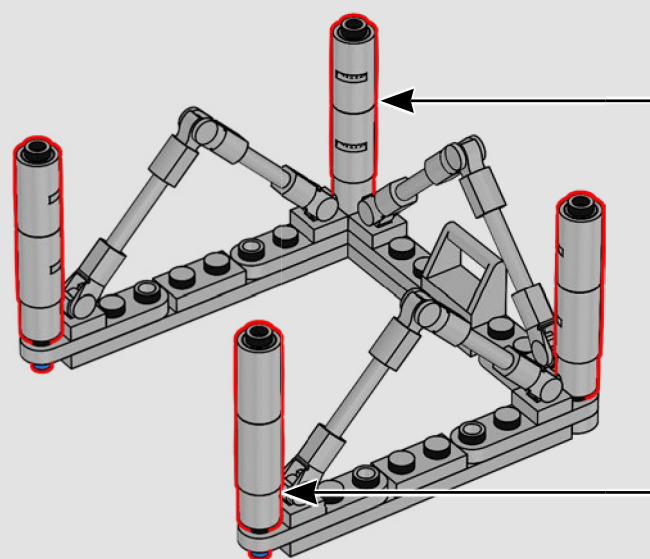
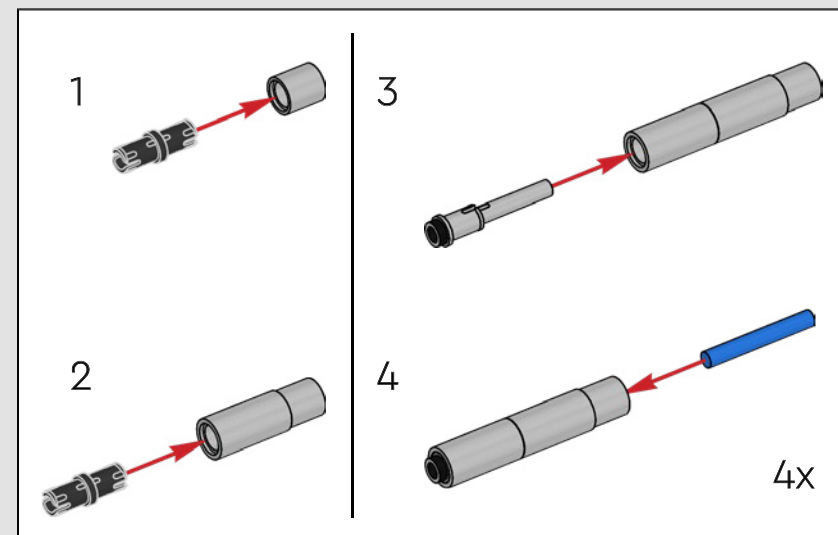




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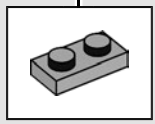
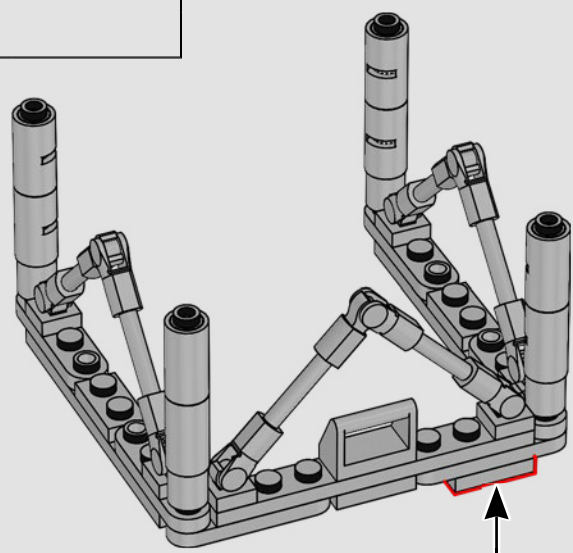
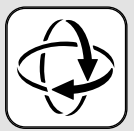
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1x

334

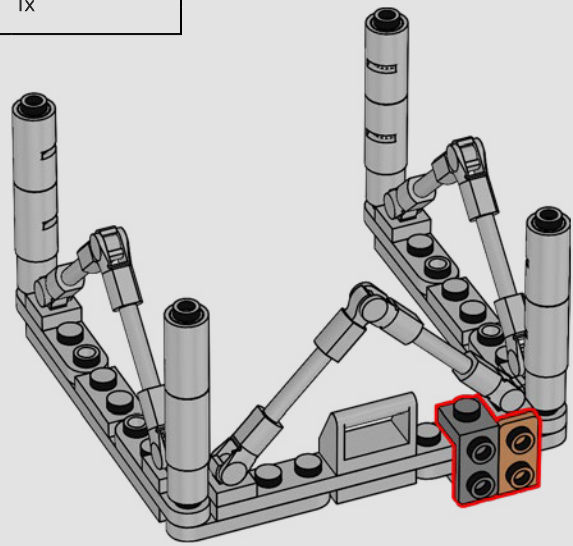


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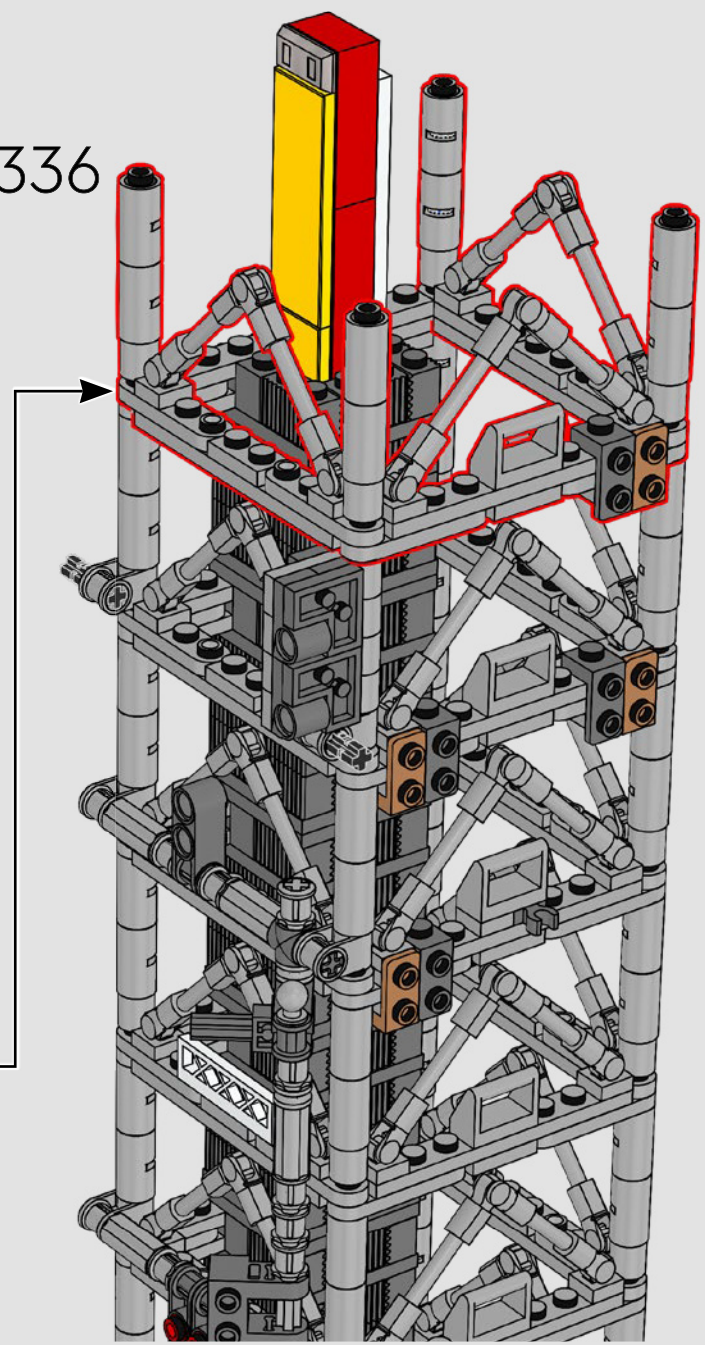


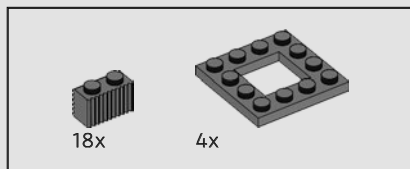
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335



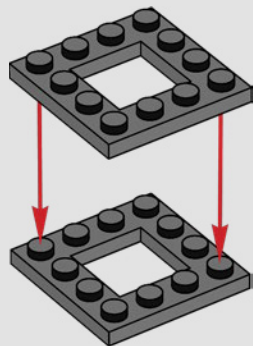
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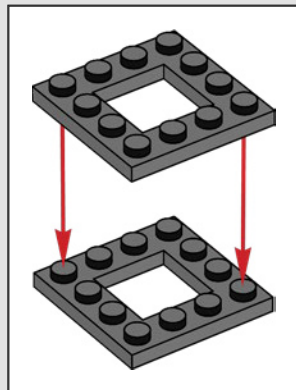
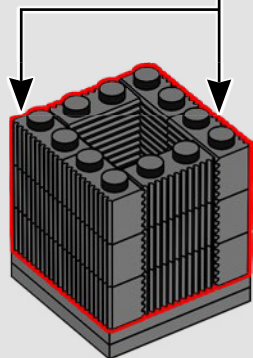
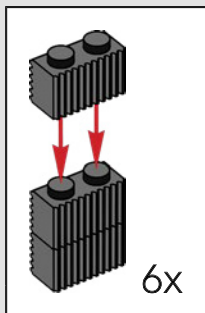


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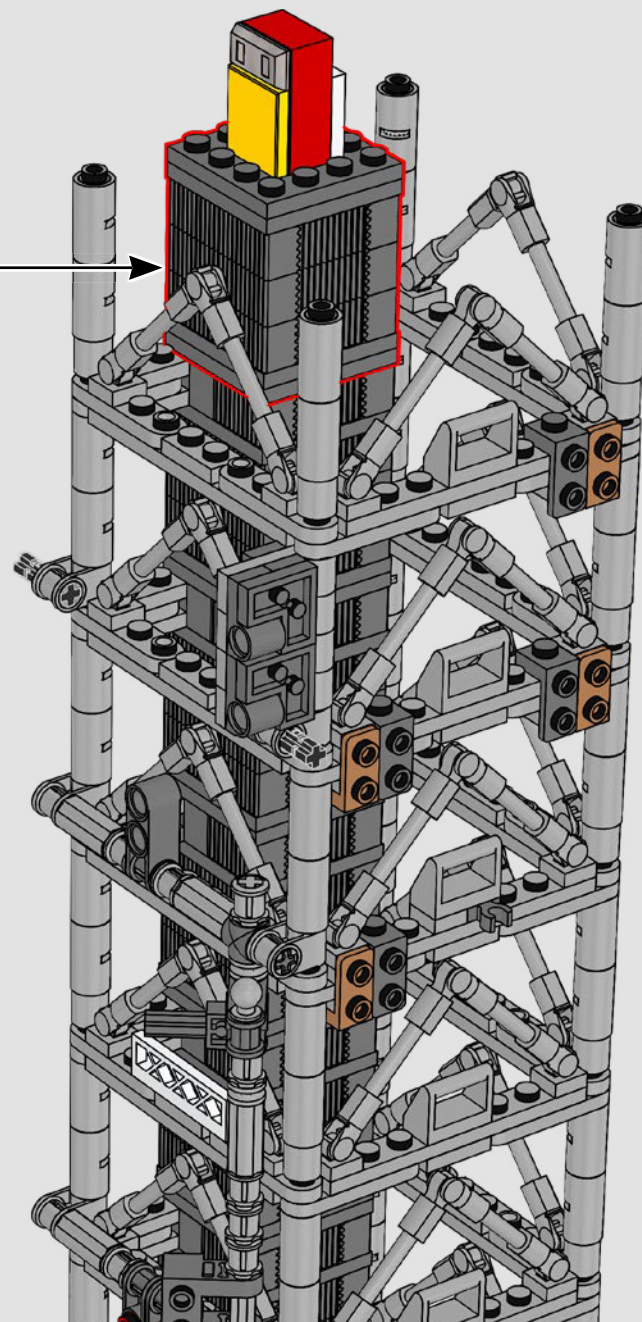
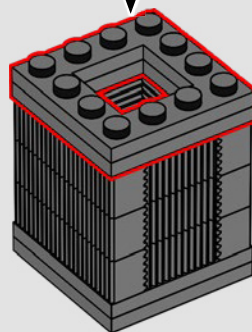
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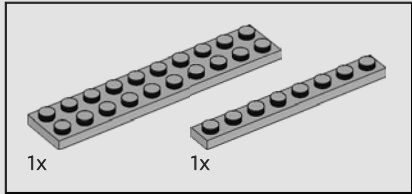
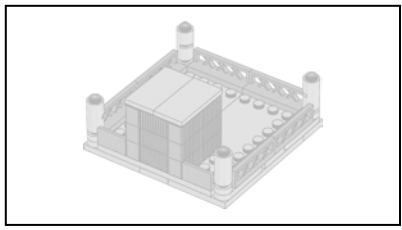


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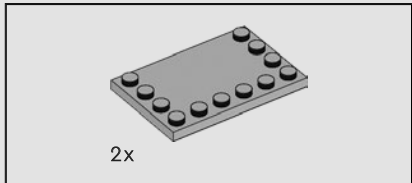
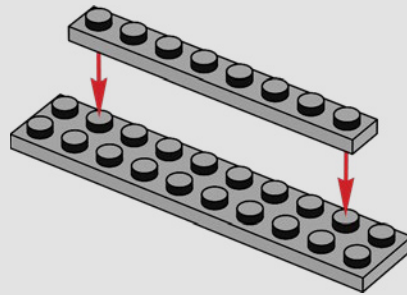


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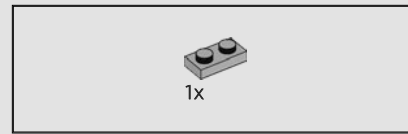
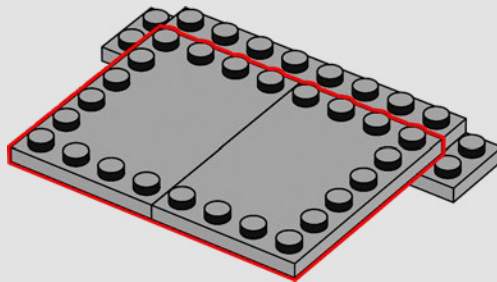




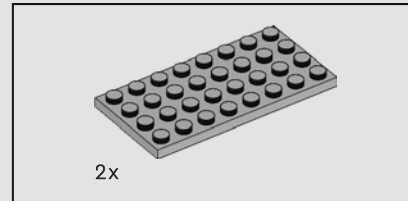
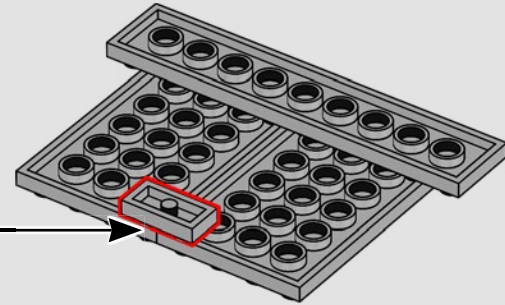
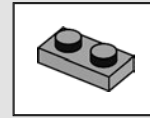
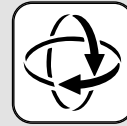
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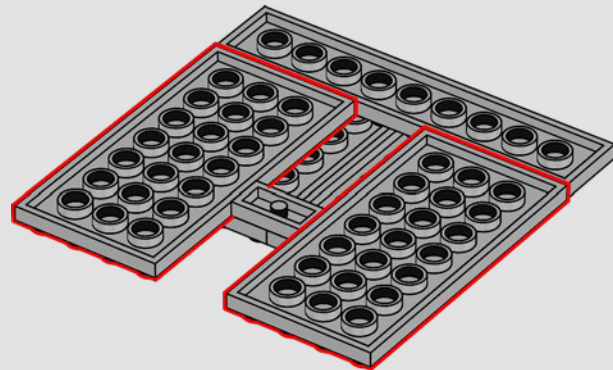
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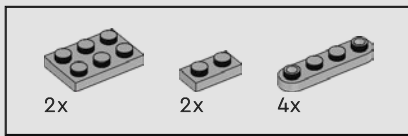


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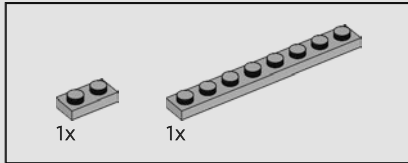
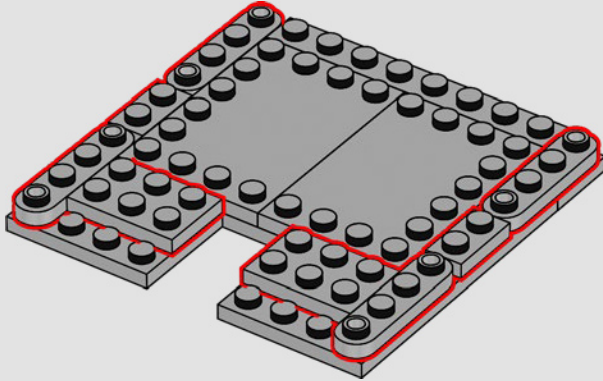


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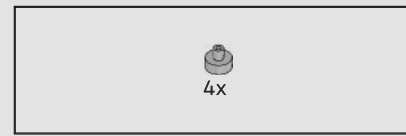
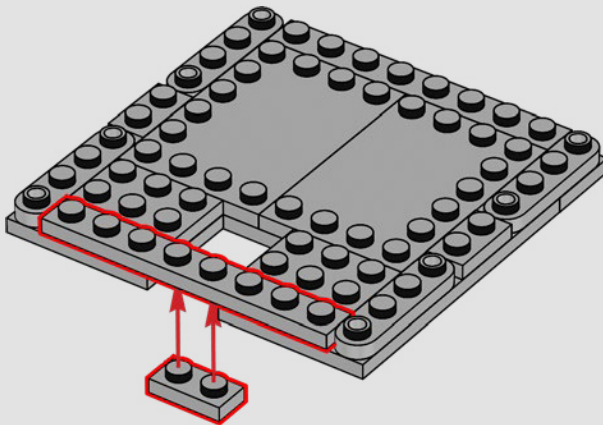




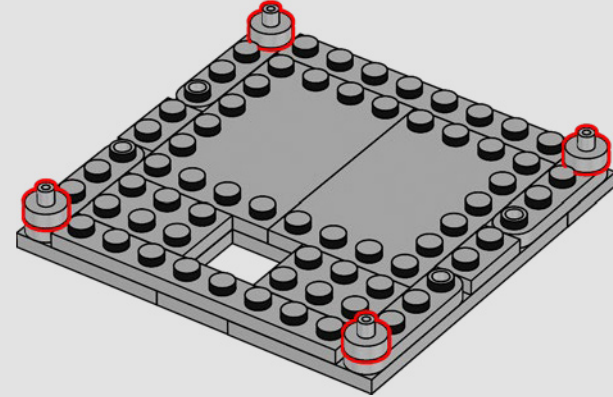
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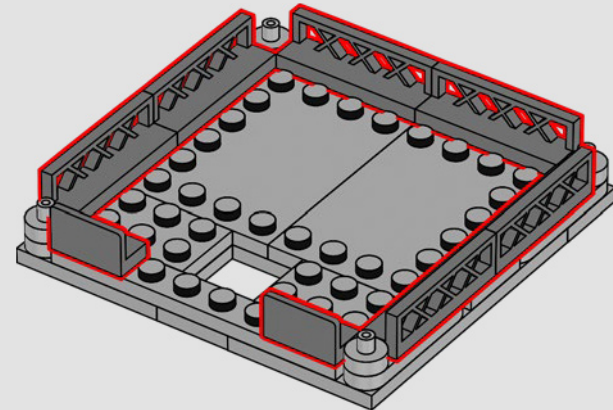
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344



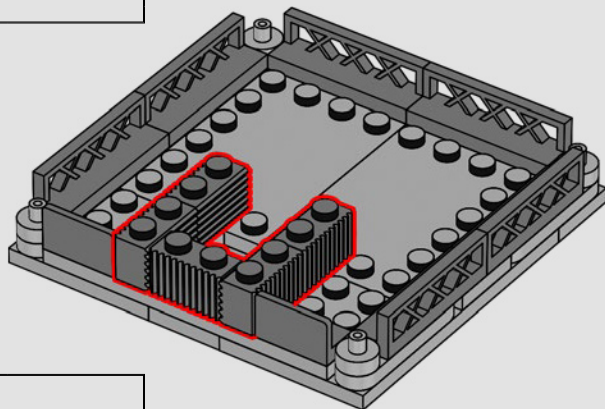
345





5x

346



5x



1x

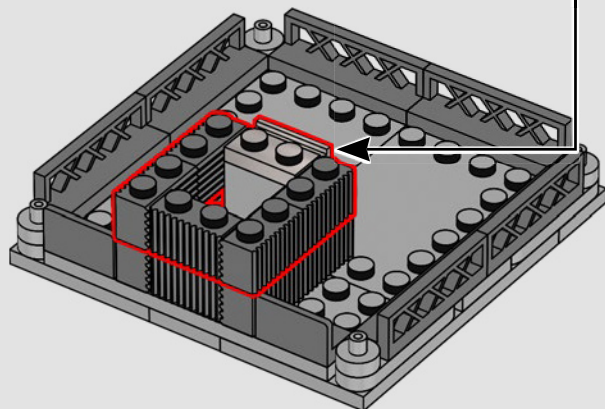
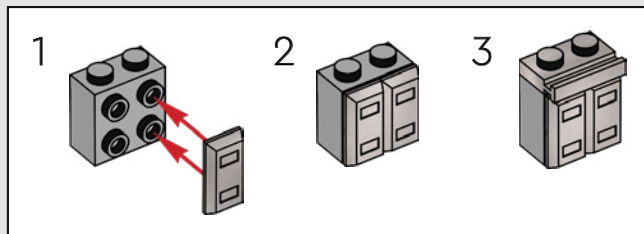


1x



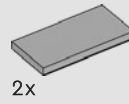
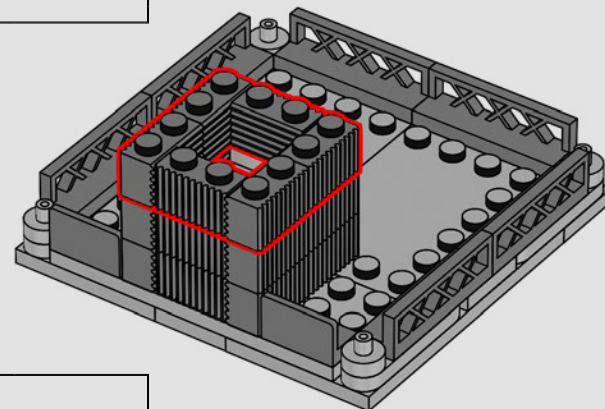
2x

347



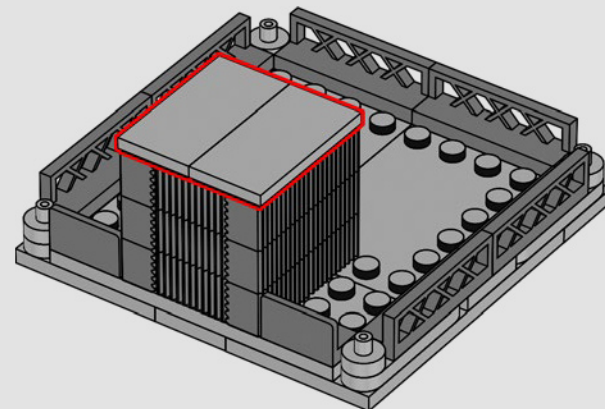
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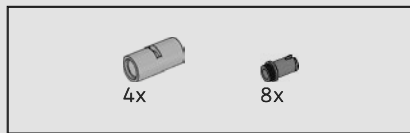
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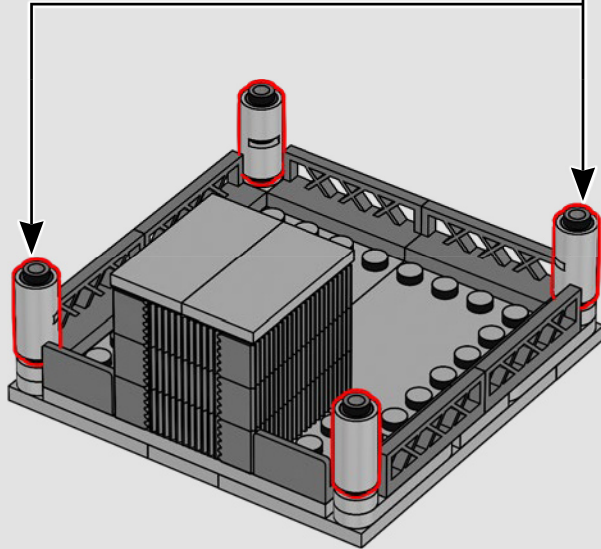
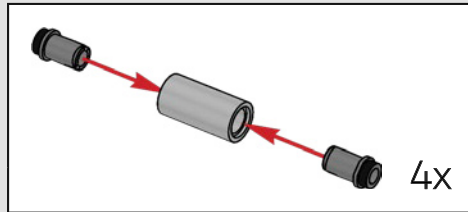
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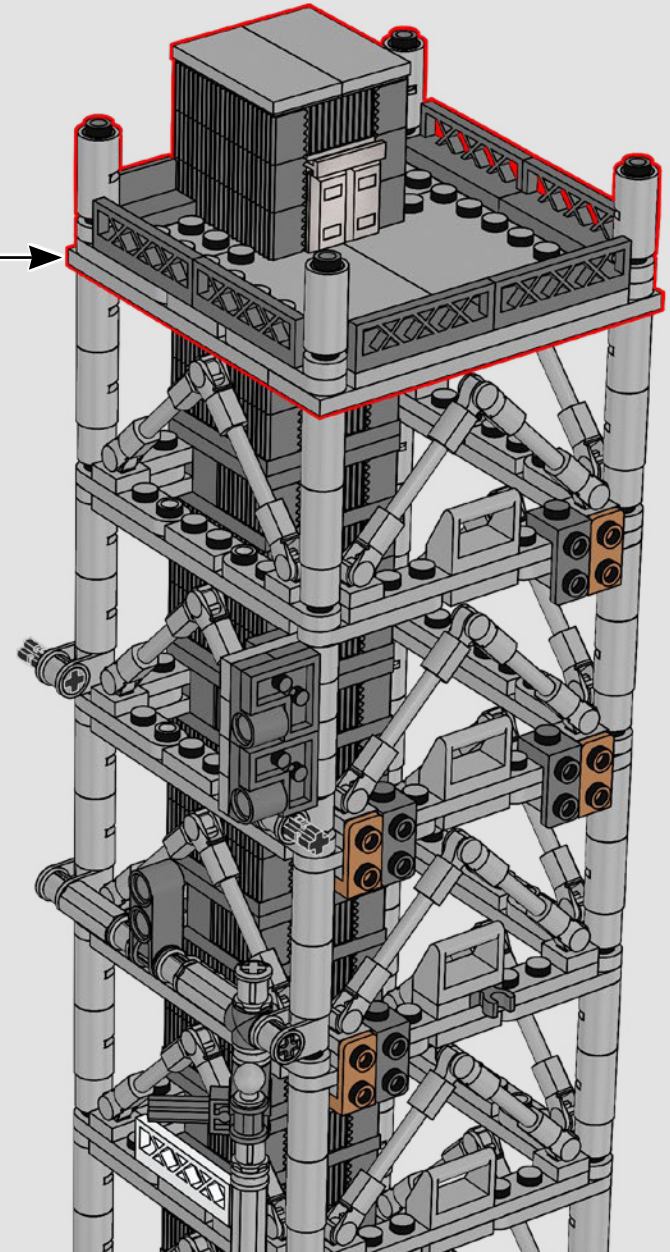


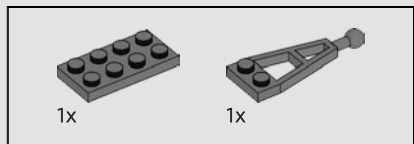
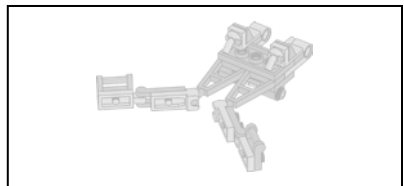


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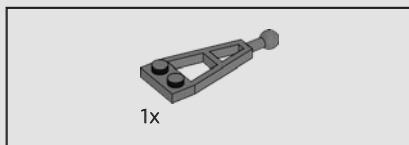
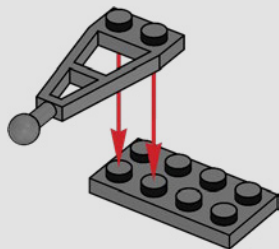


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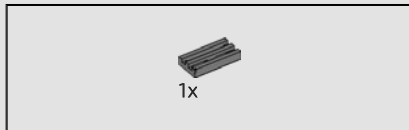
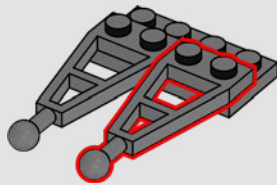




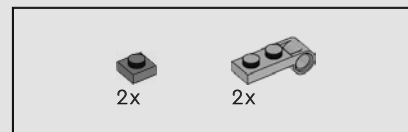
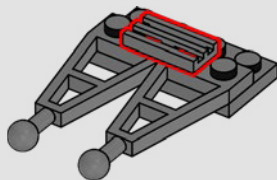
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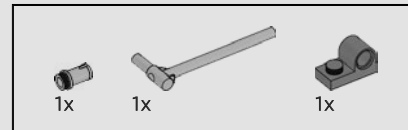
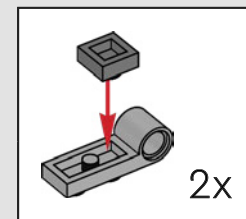
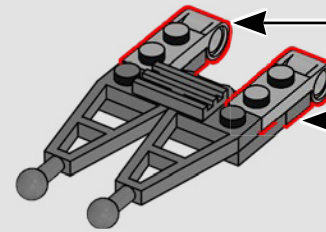
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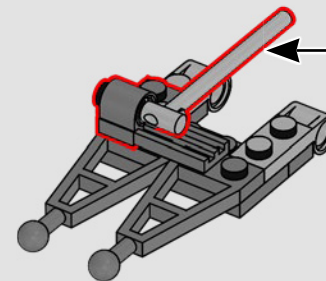
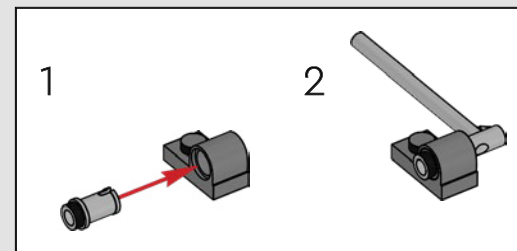
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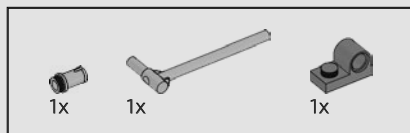


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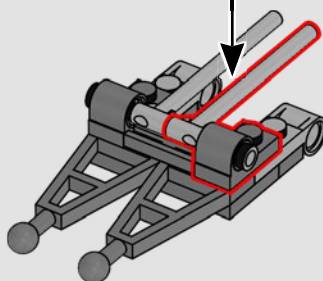
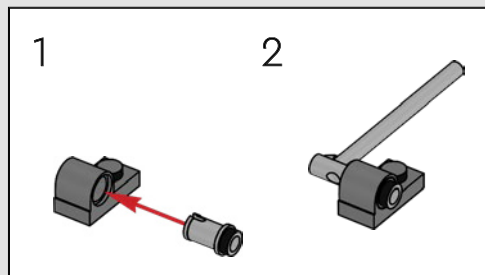


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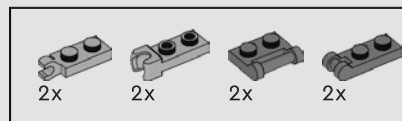
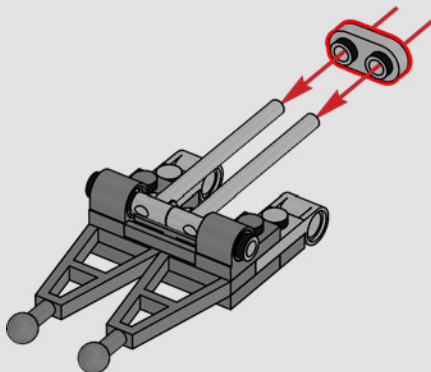




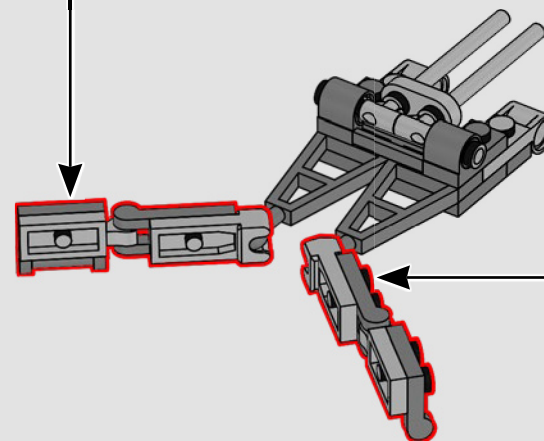
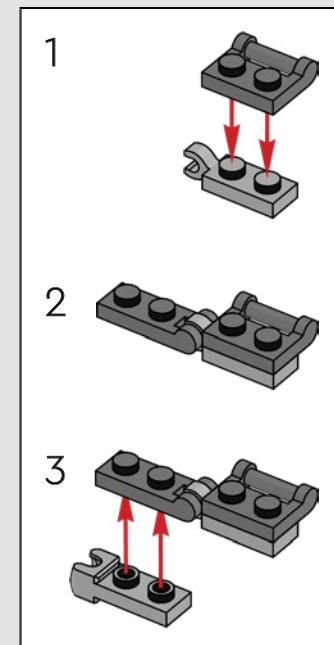
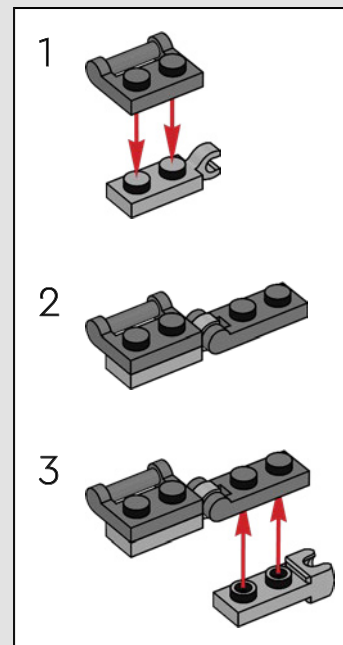
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358

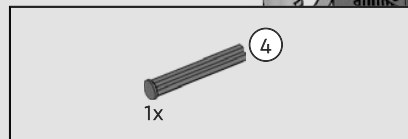
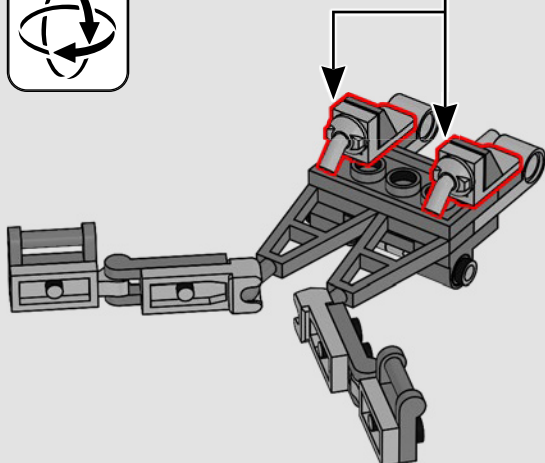
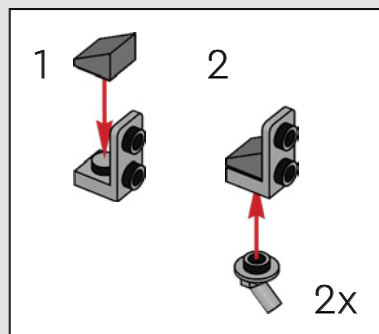


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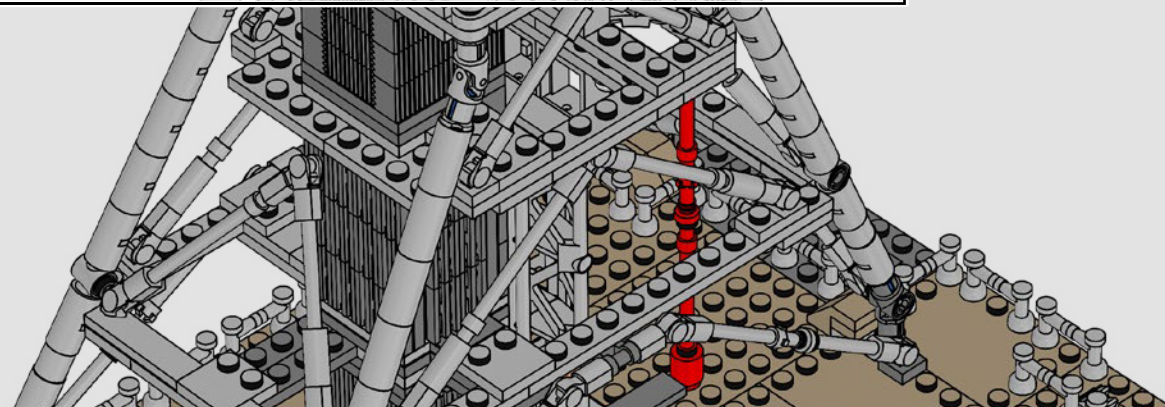
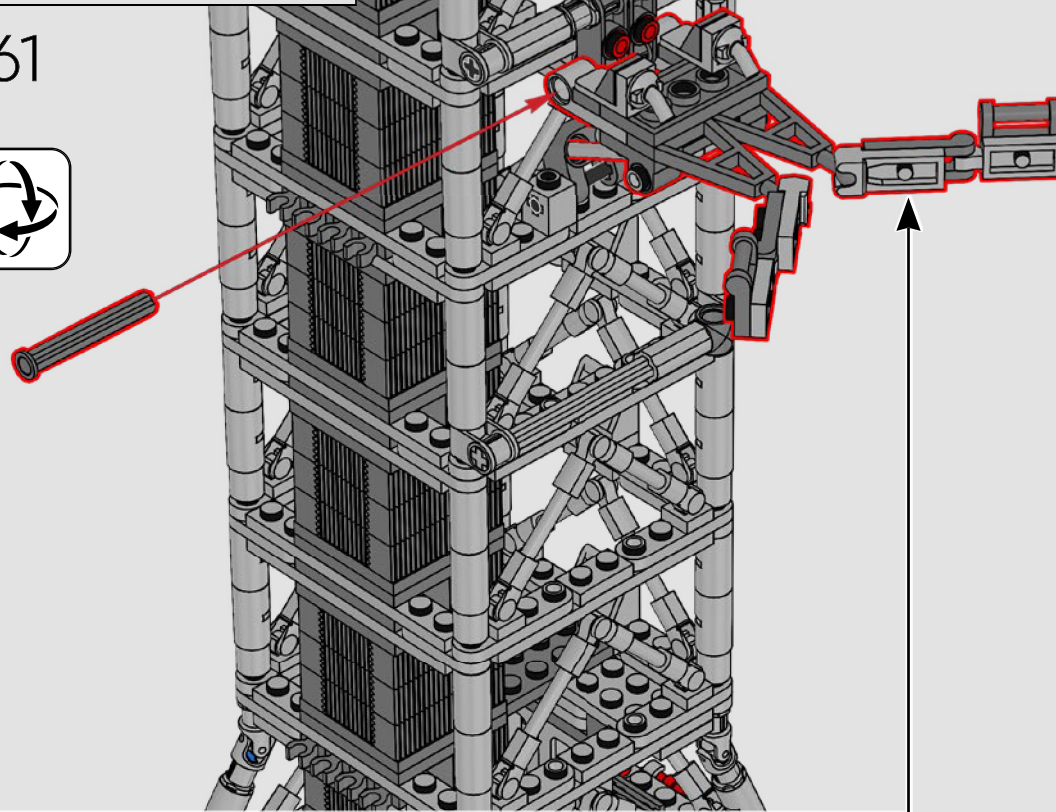
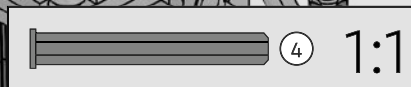


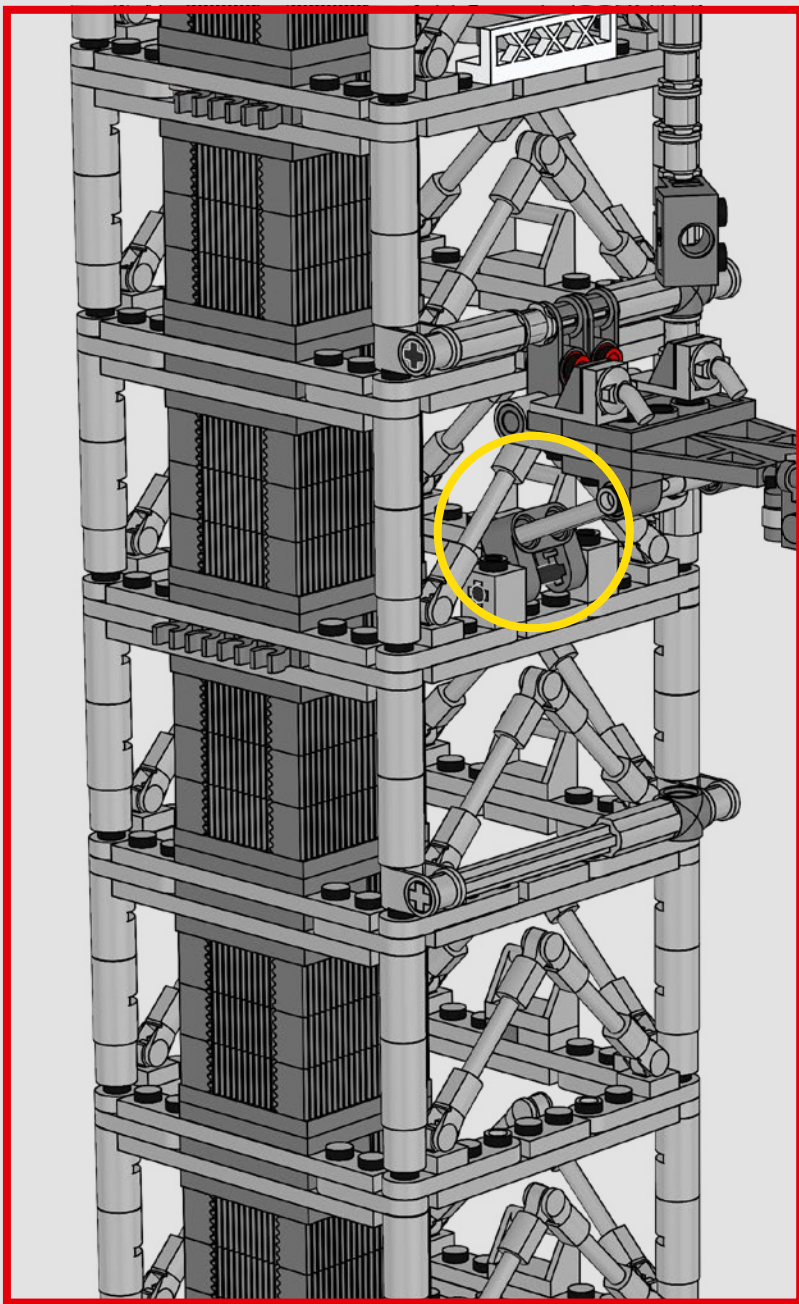


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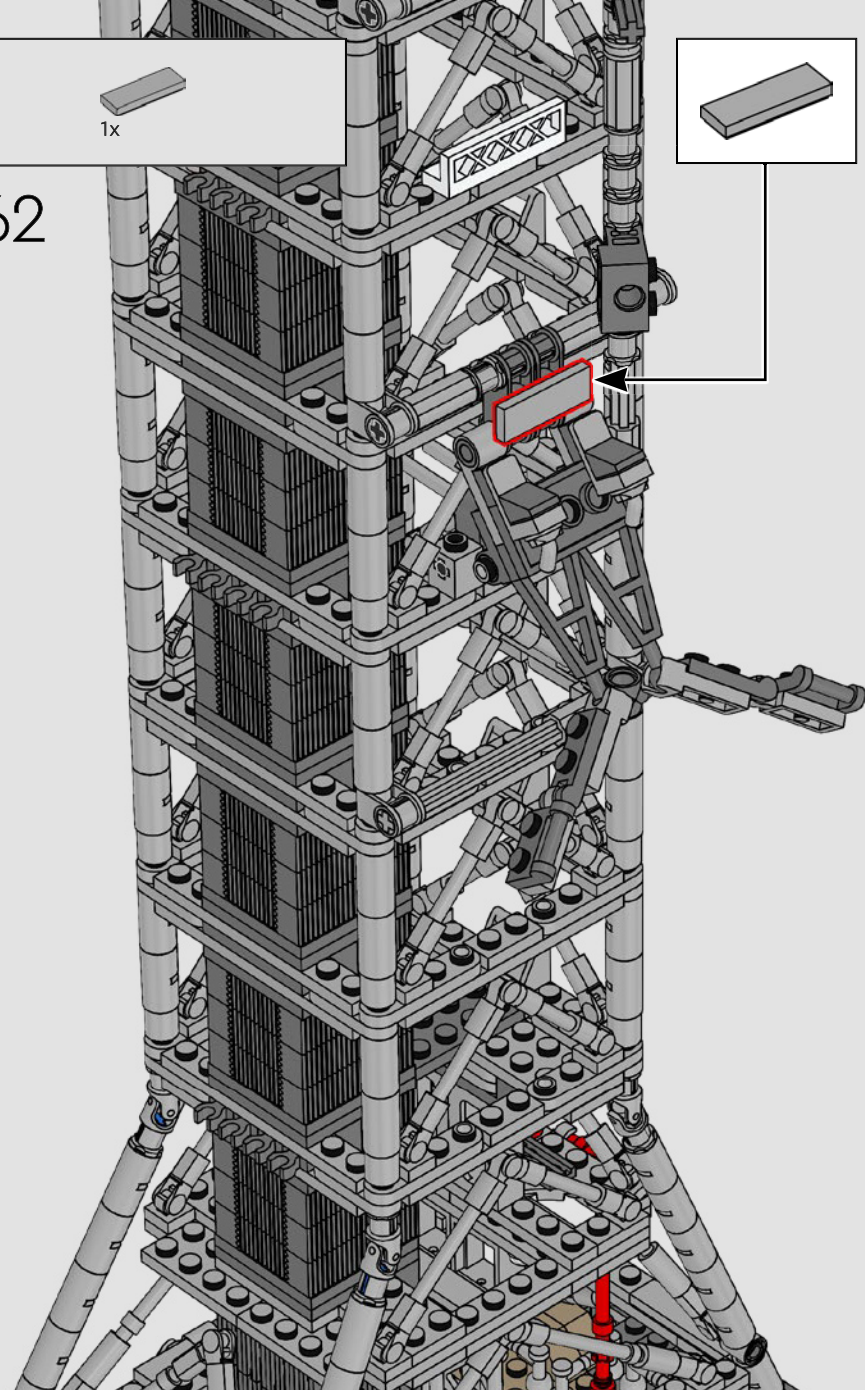
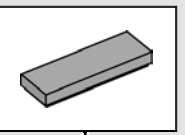
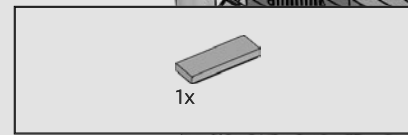


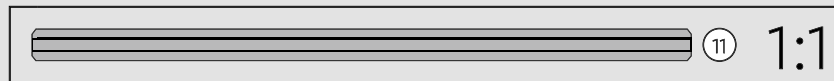
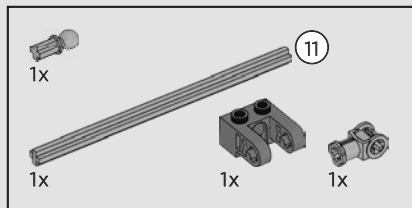
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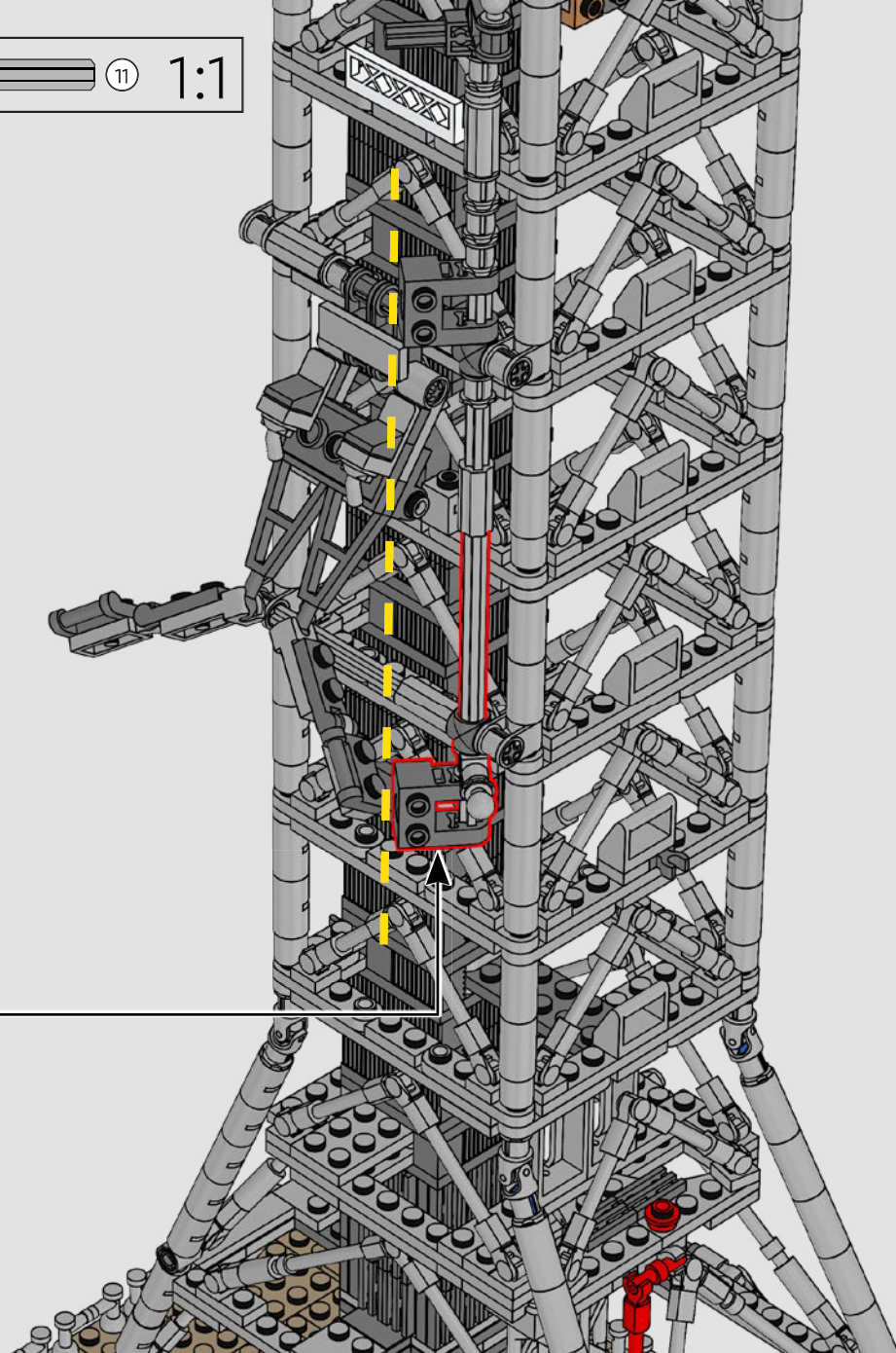
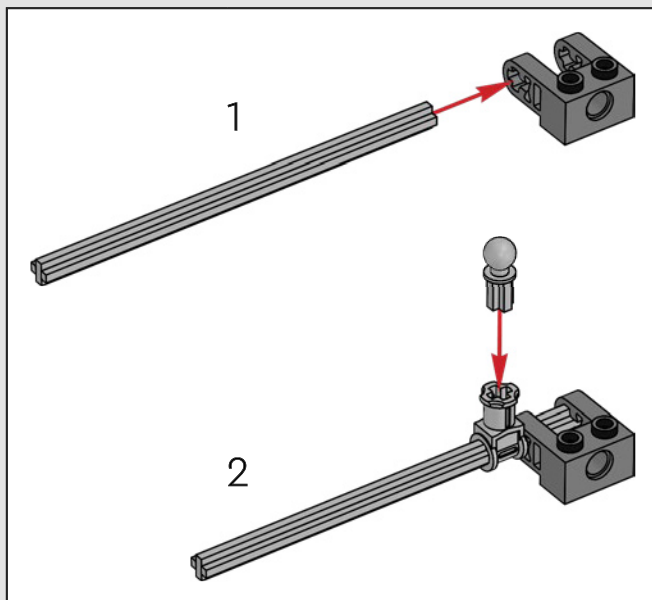


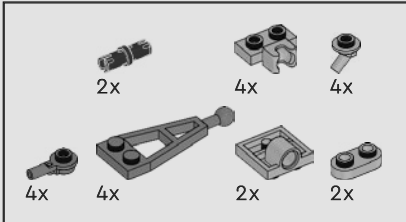
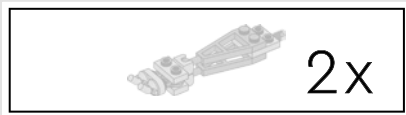
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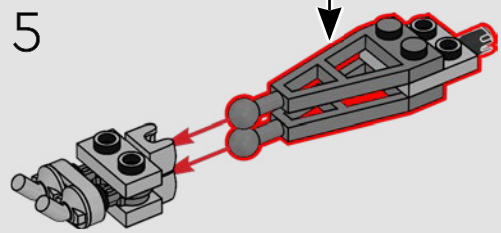
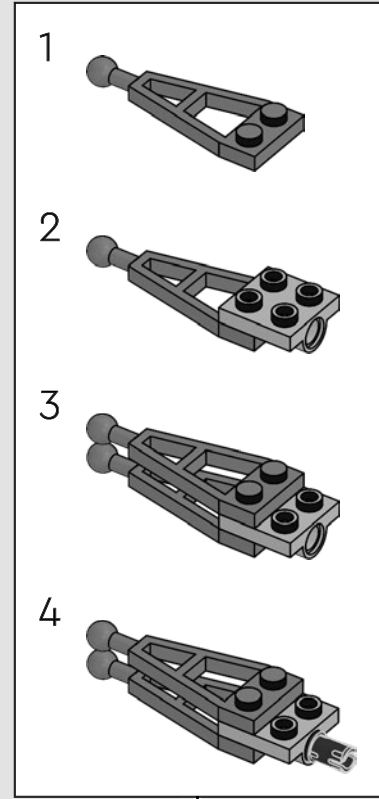
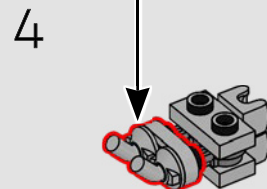
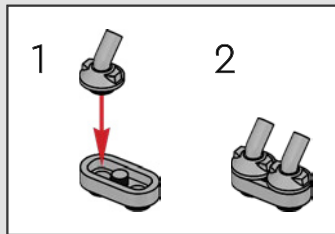
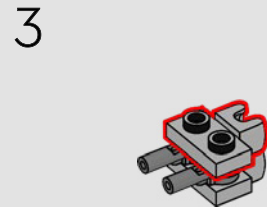
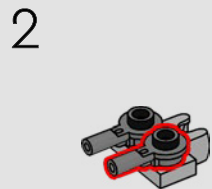
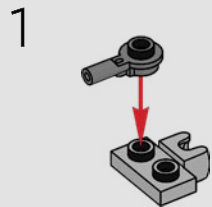


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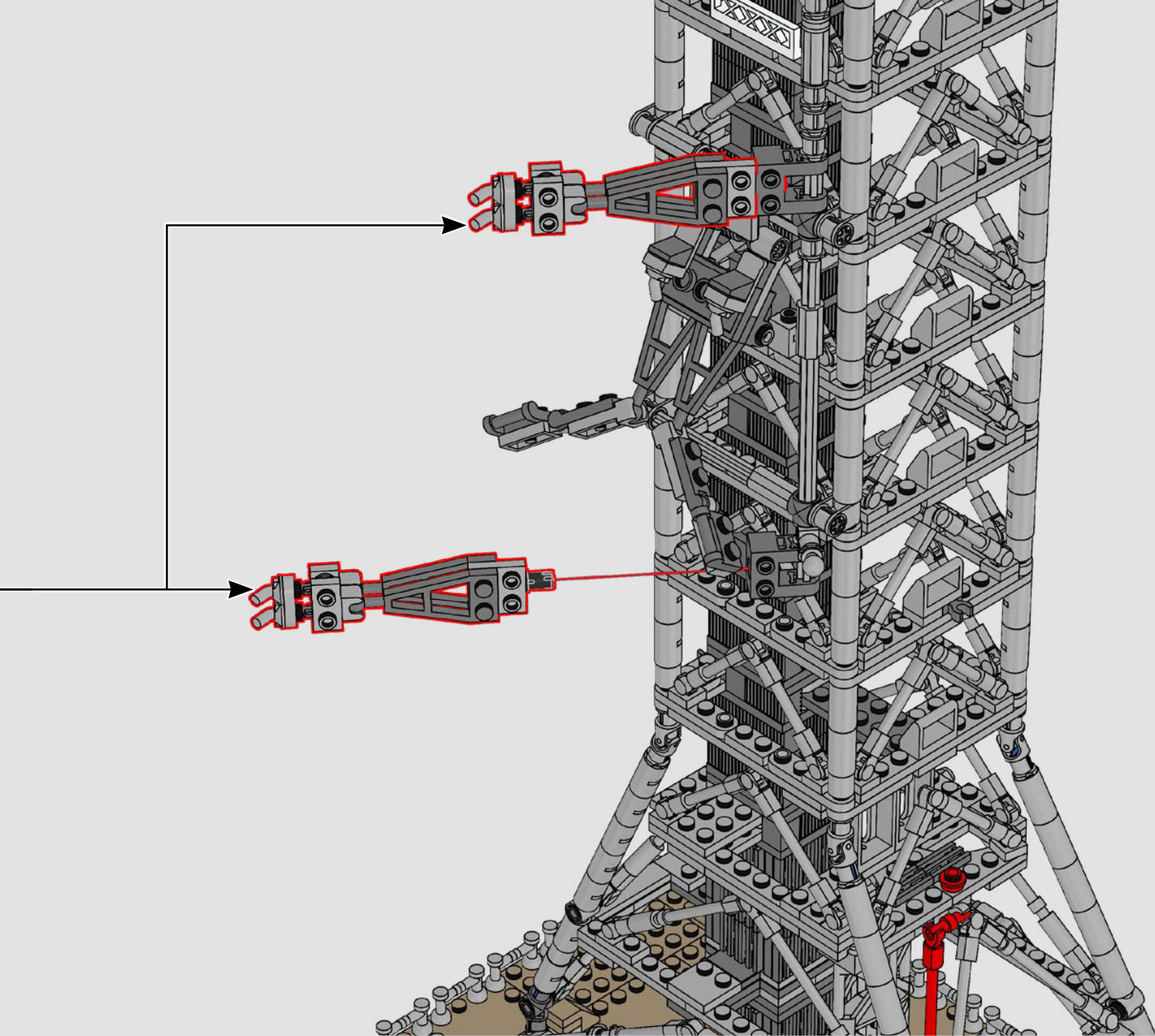


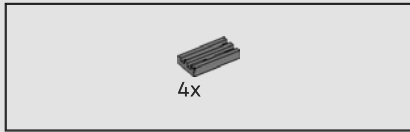


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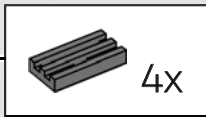
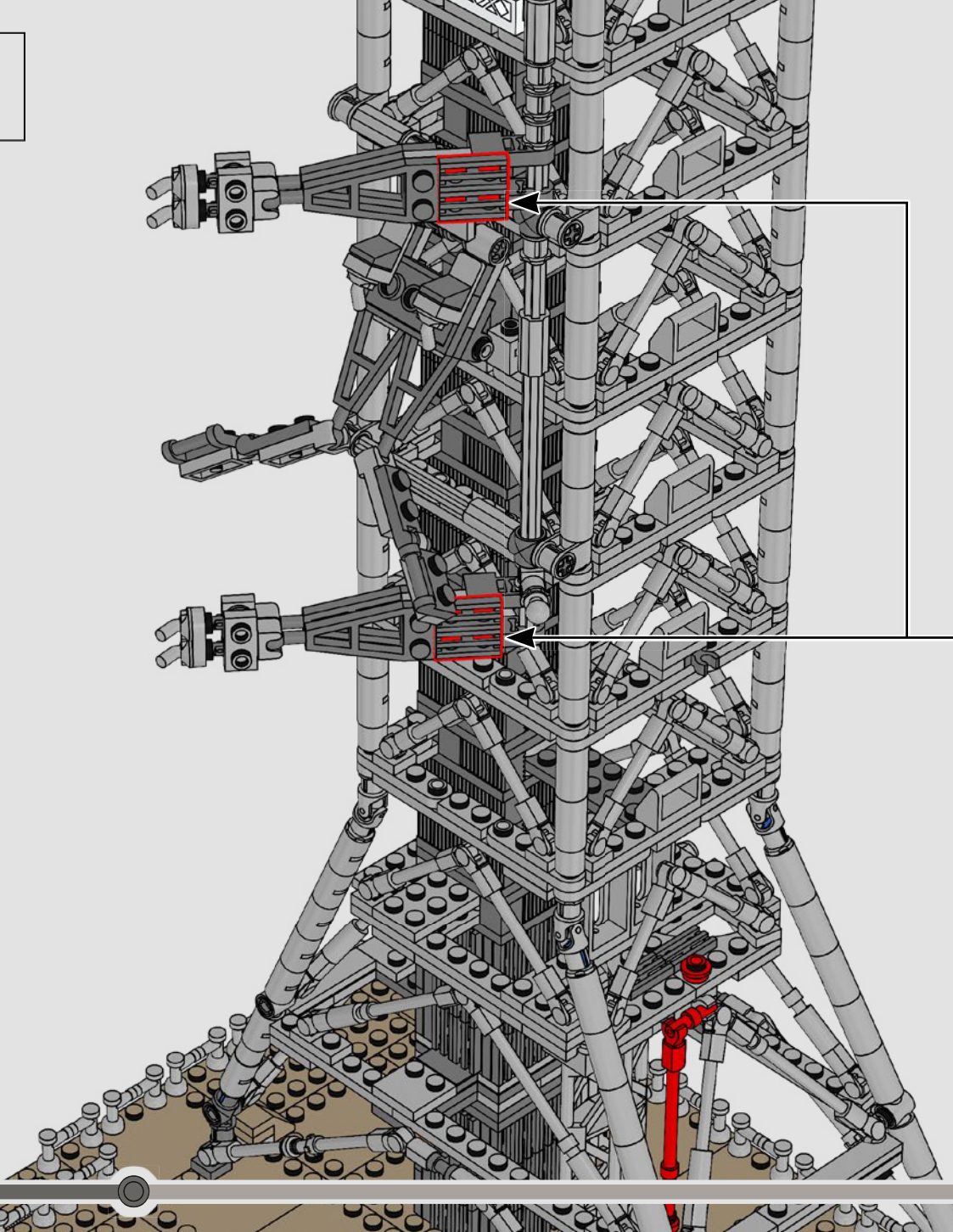


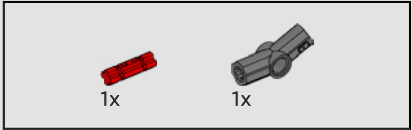
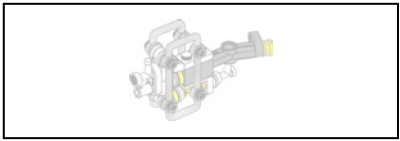
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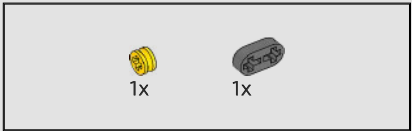
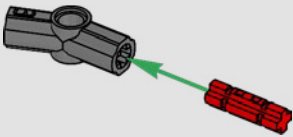


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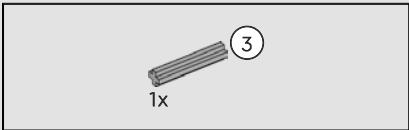
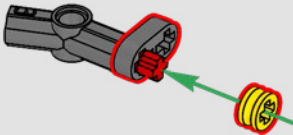




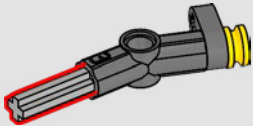
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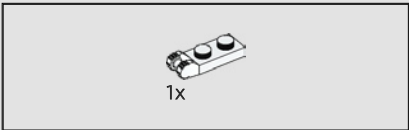
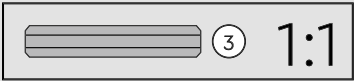
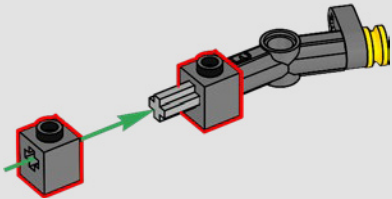
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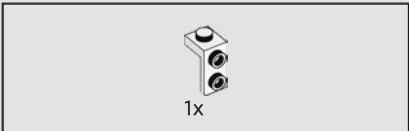
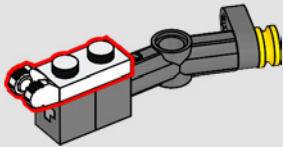
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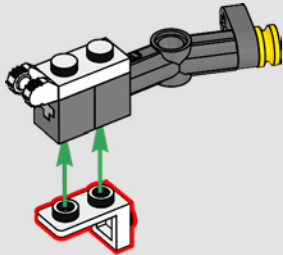
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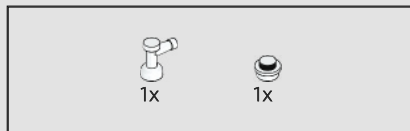
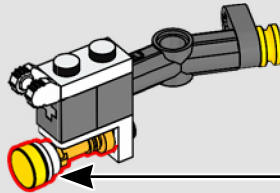
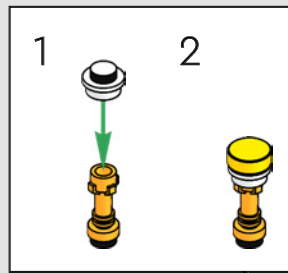


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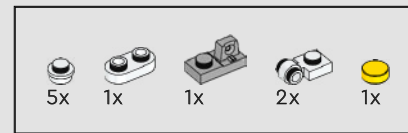
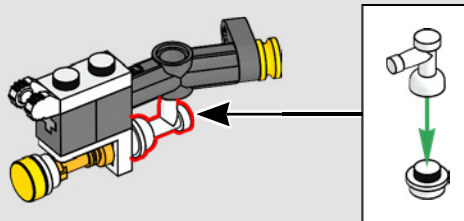




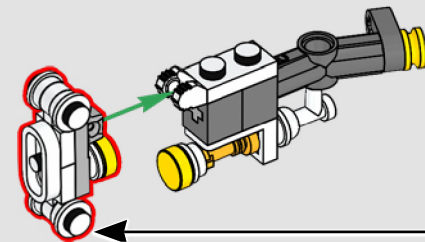
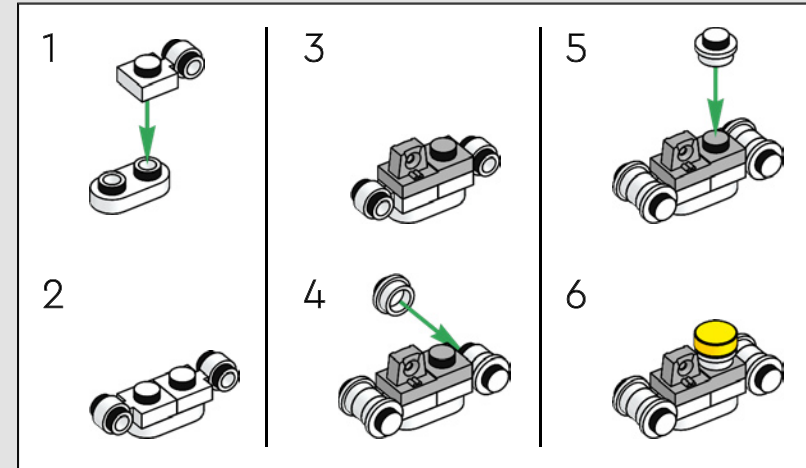
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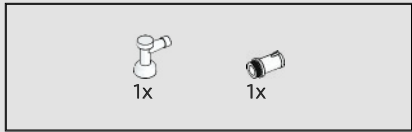


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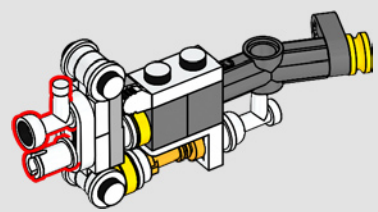


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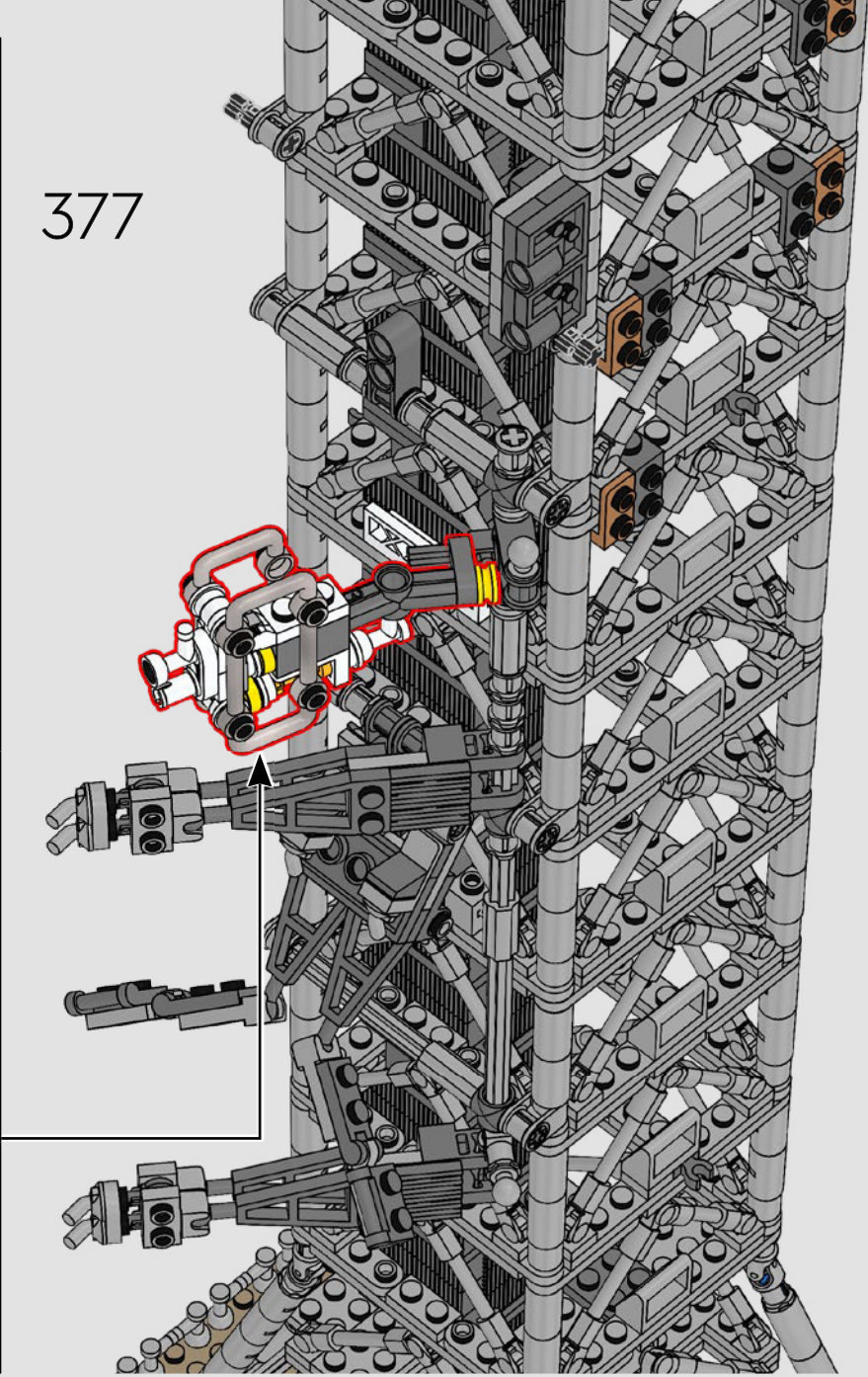
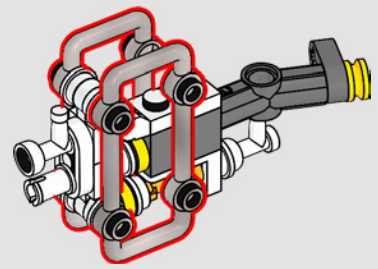




375



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377

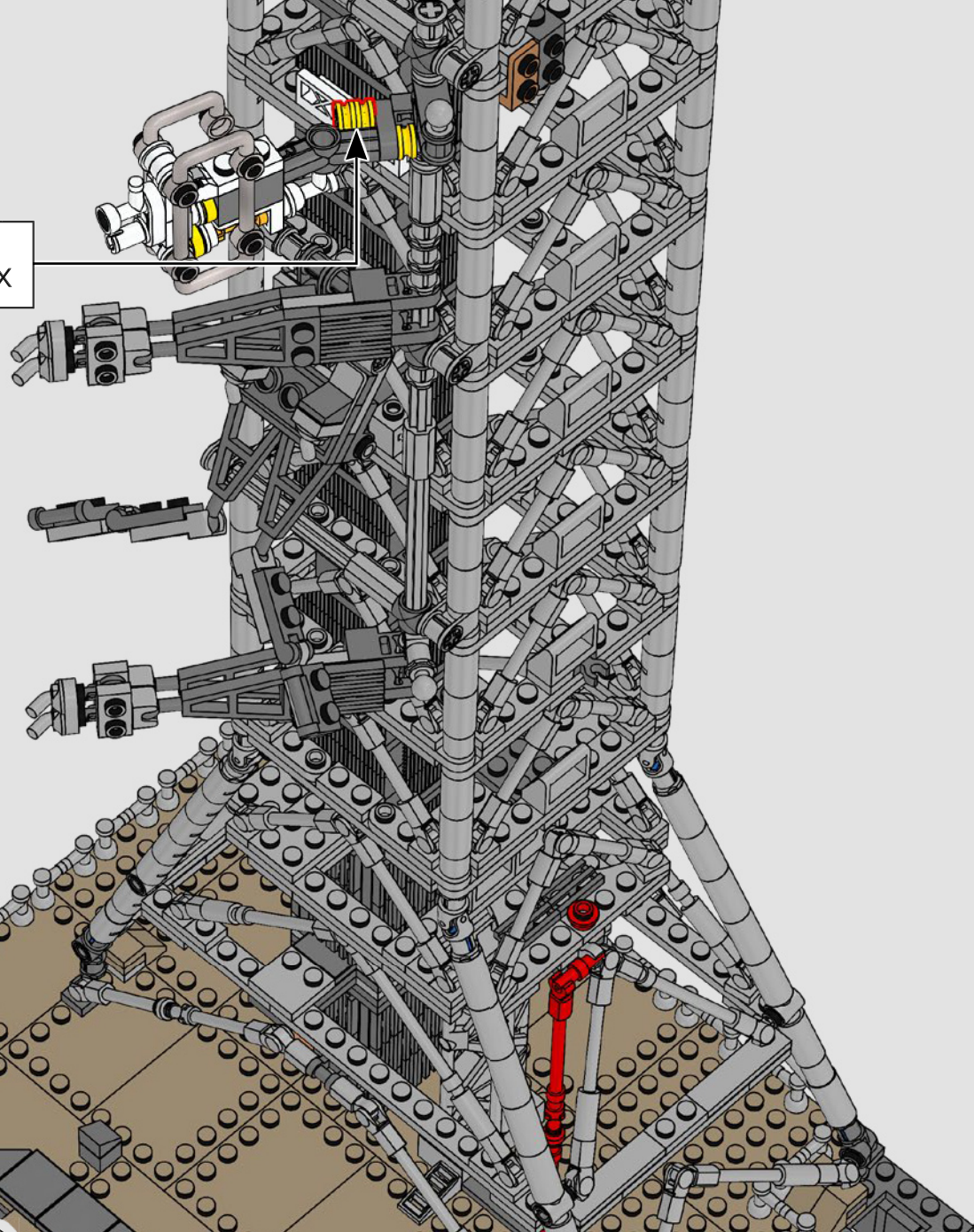


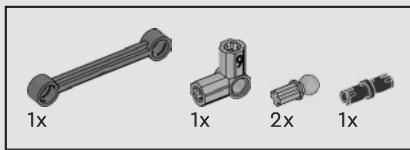
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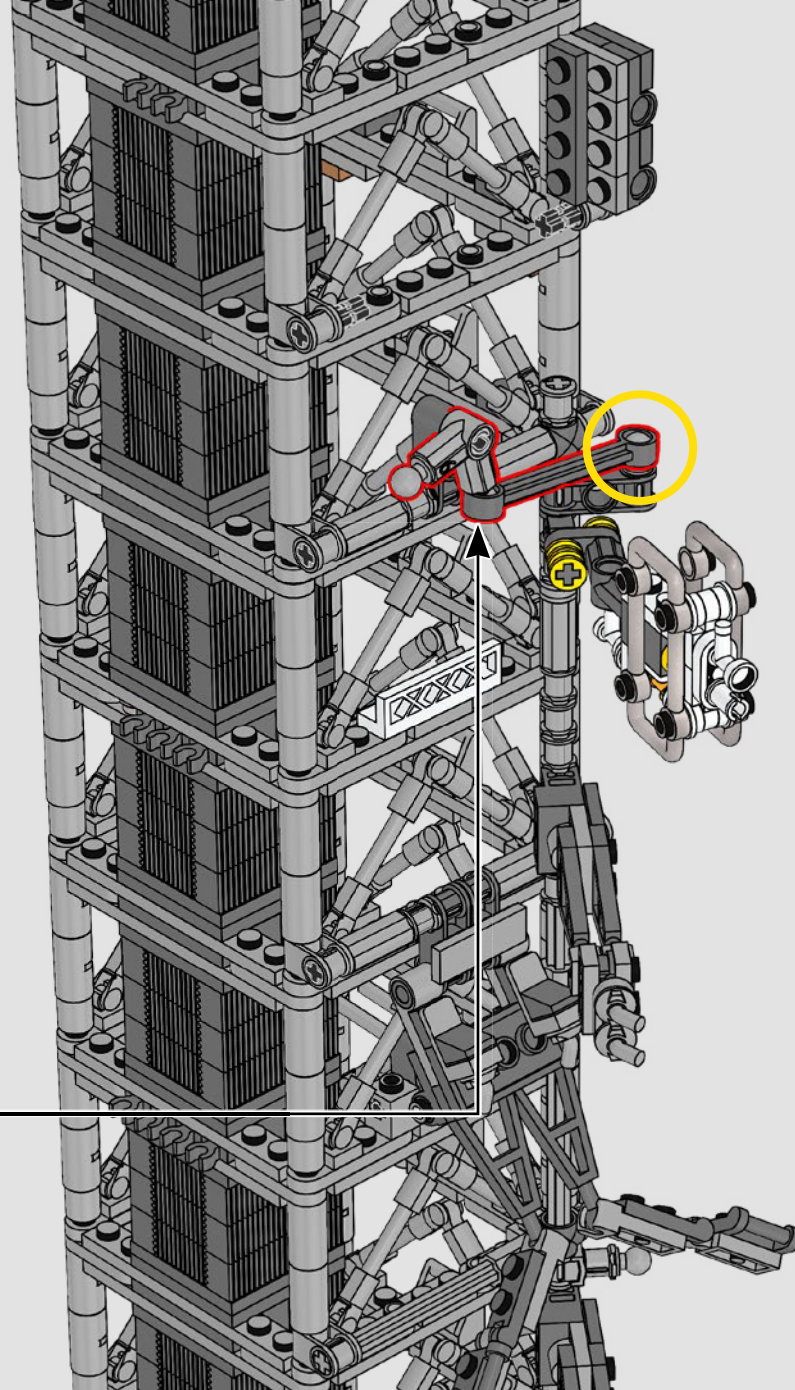
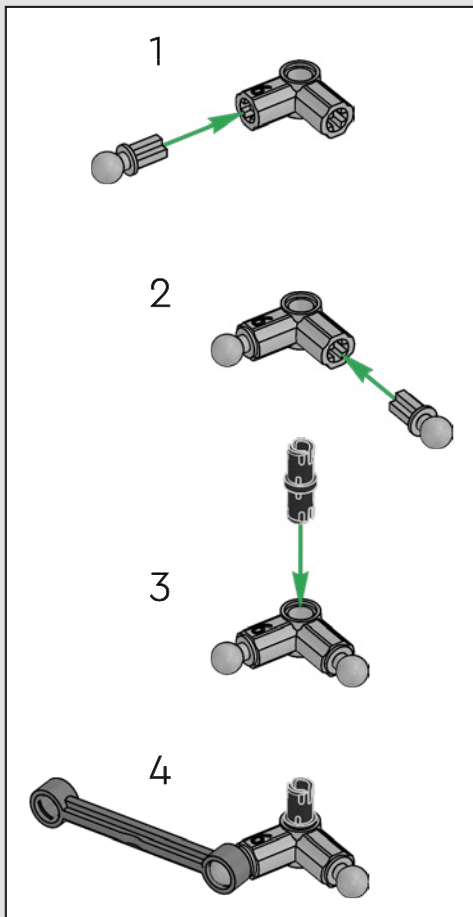


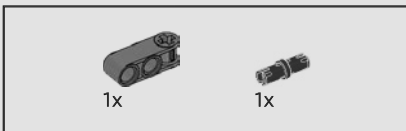
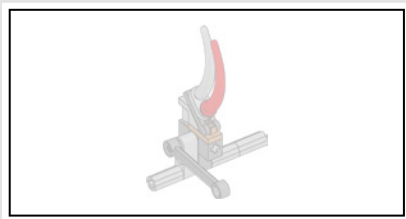
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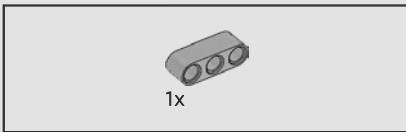
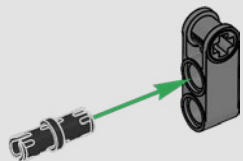


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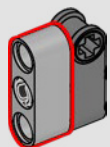




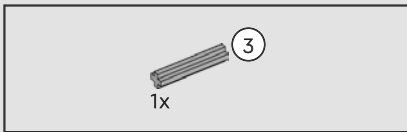
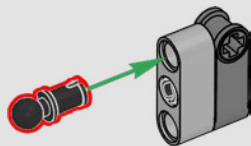
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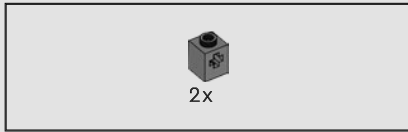
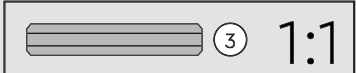
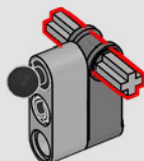
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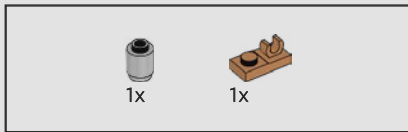
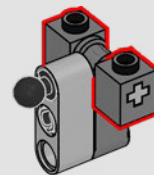
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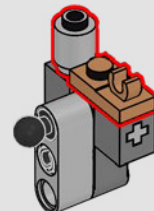
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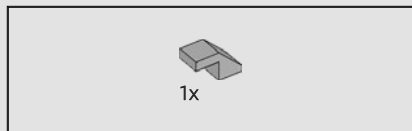


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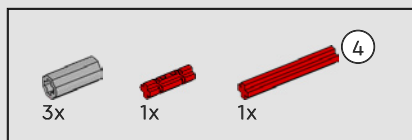
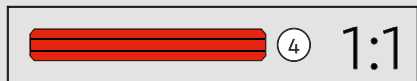


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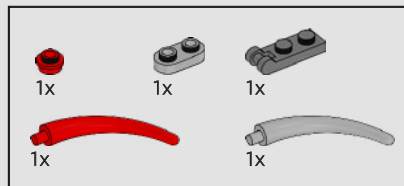
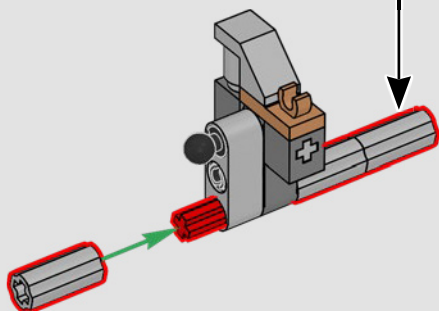
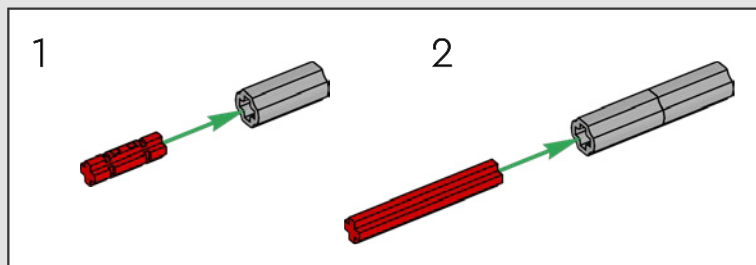




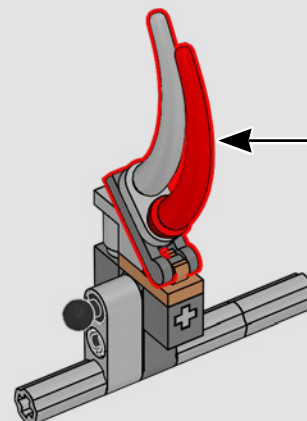
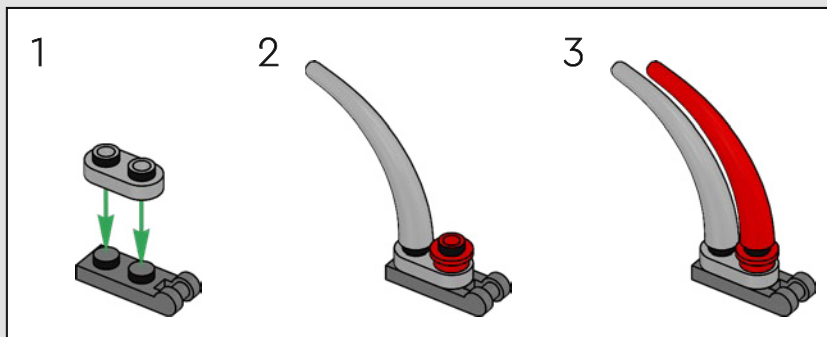
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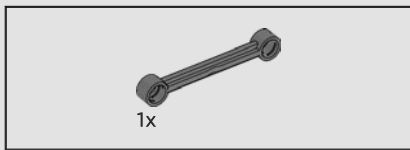


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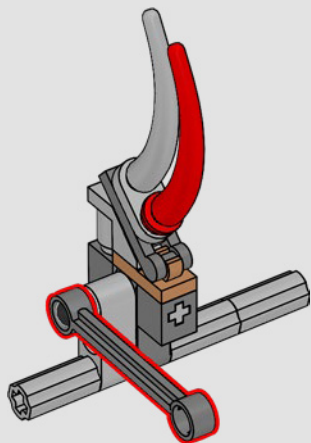


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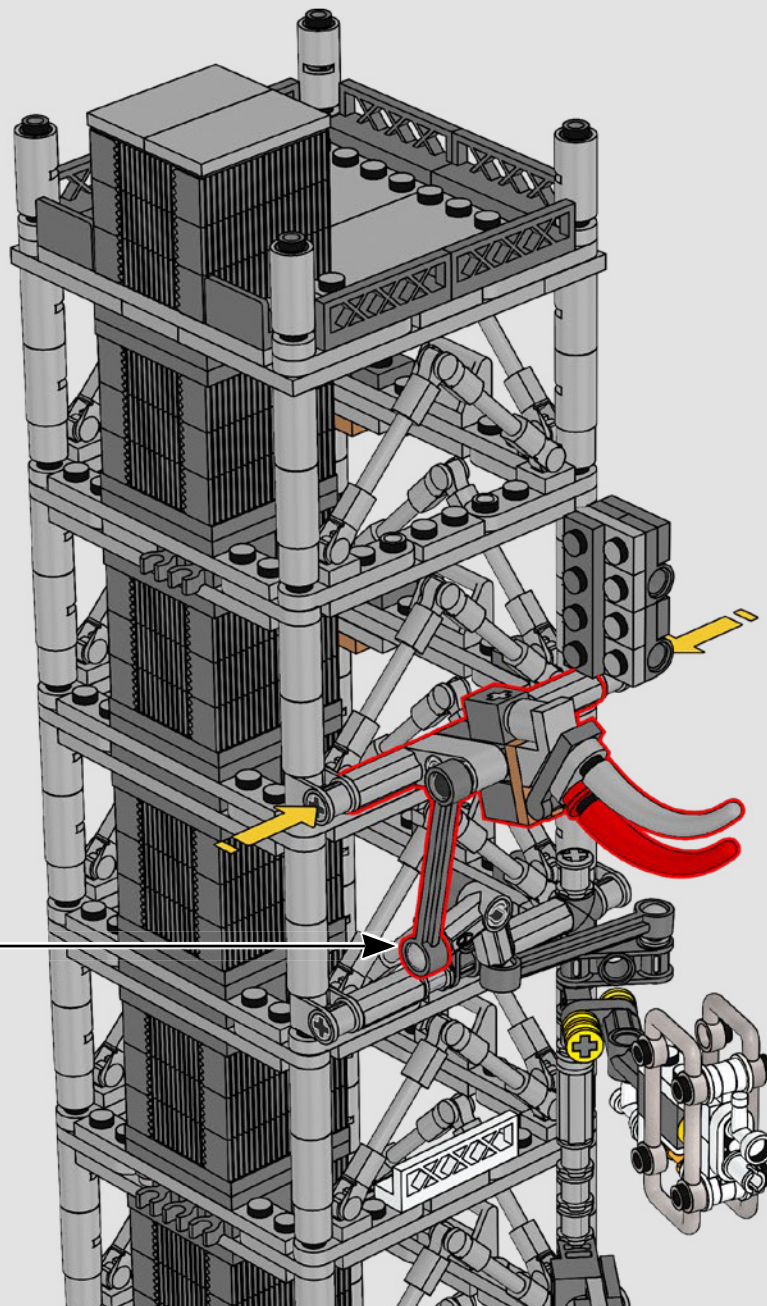


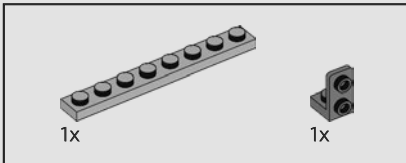
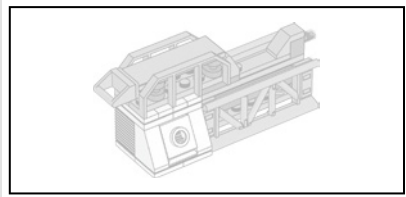


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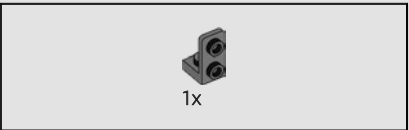
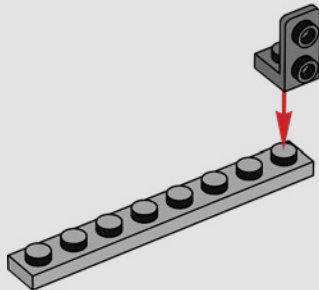


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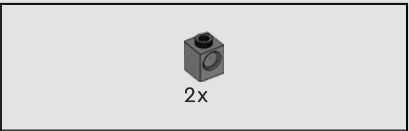
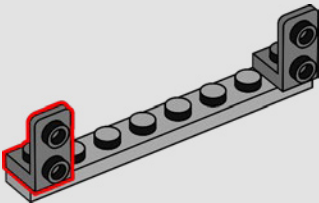




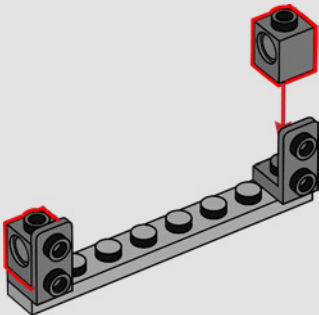
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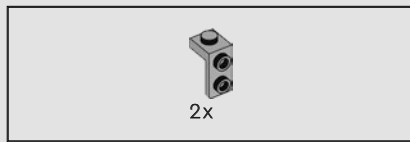


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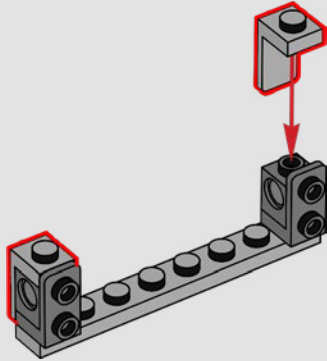


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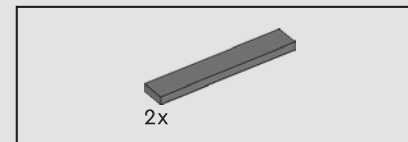
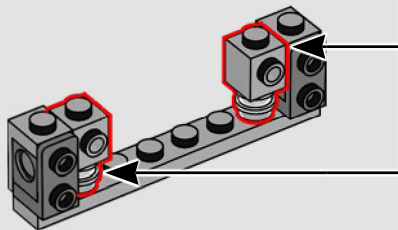
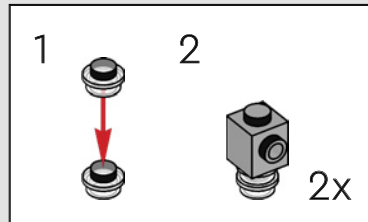




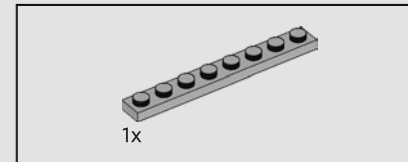
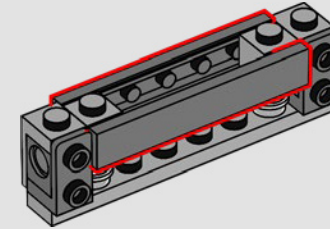
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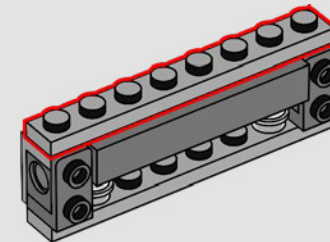
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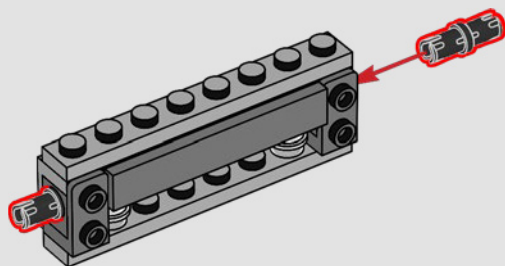


397



2x

398

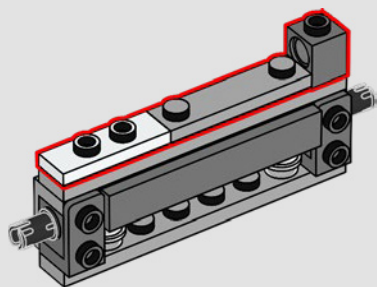


1x

1x

1x

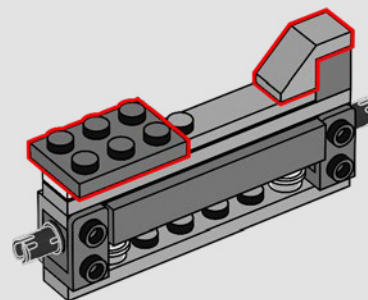
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1x

1x

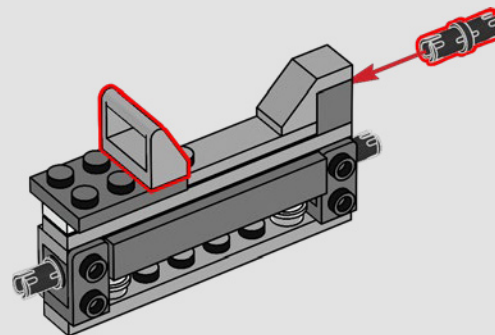
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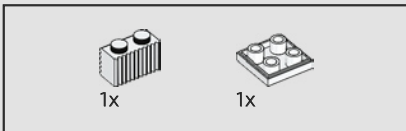


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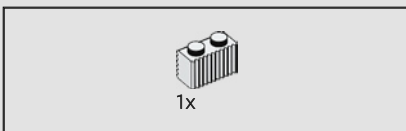
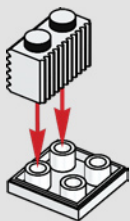
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401

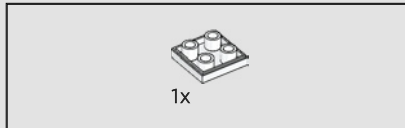
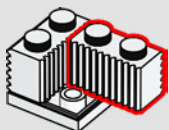




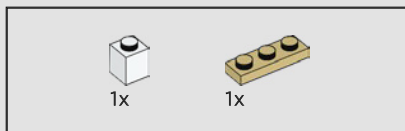
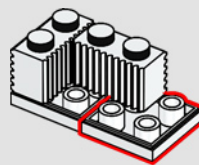
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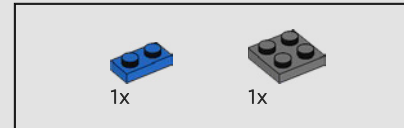
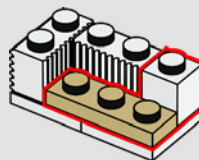
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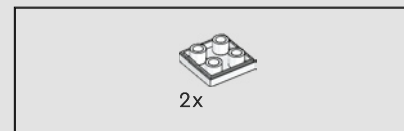
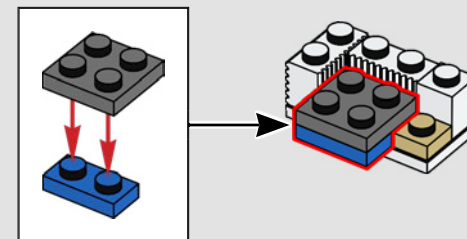
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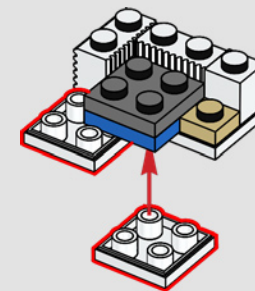
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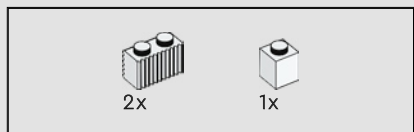
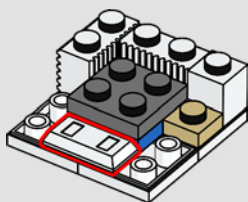


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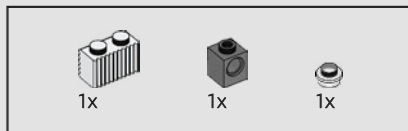
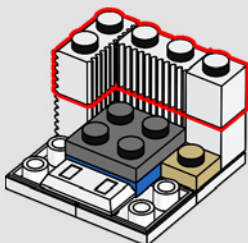




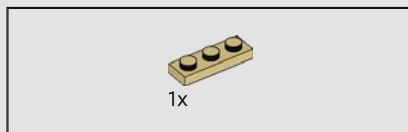
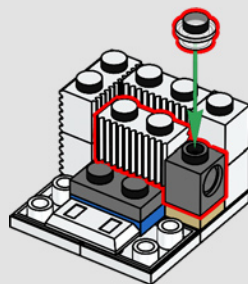
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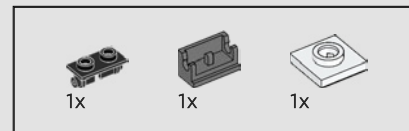
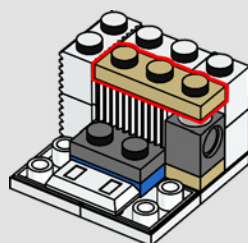
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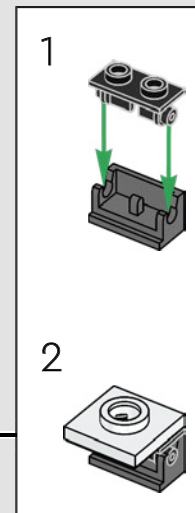
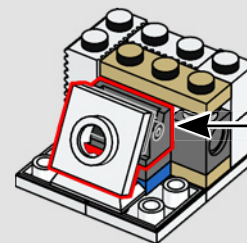
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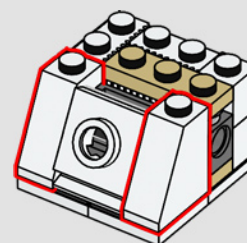
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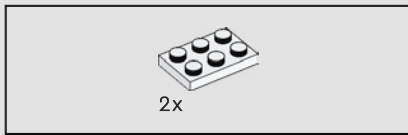


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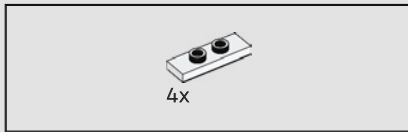
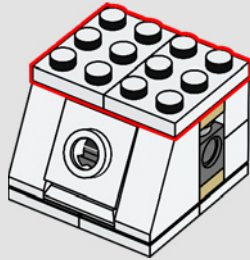


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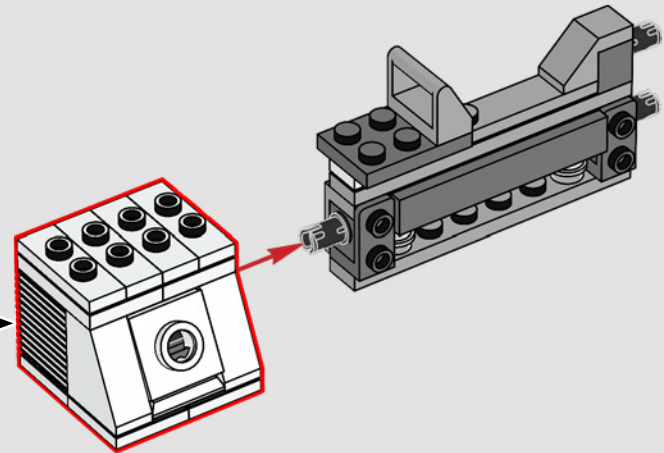
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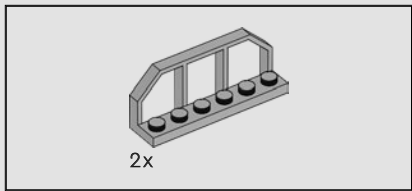


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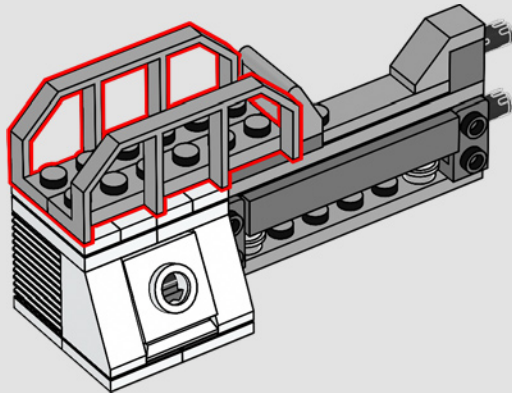


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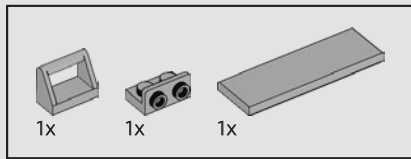
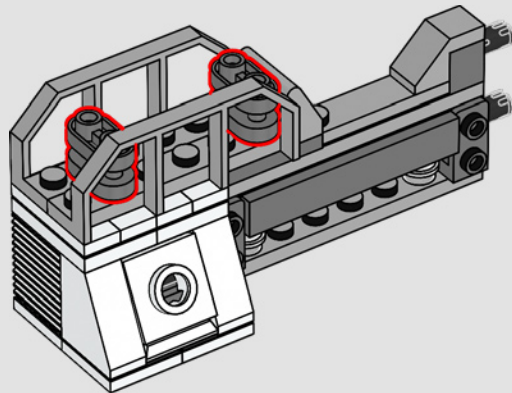




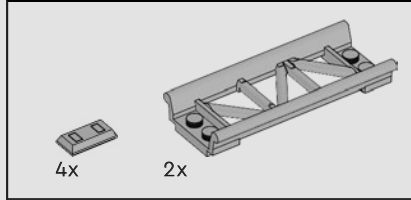
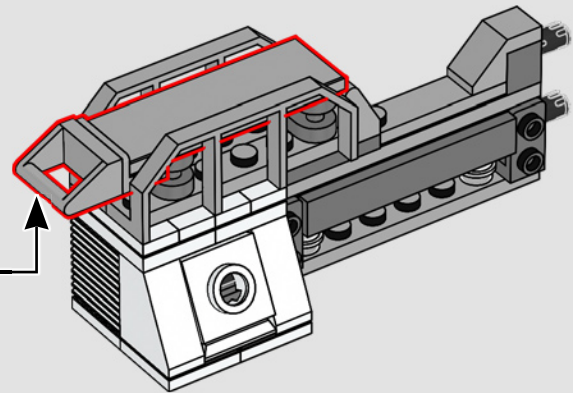
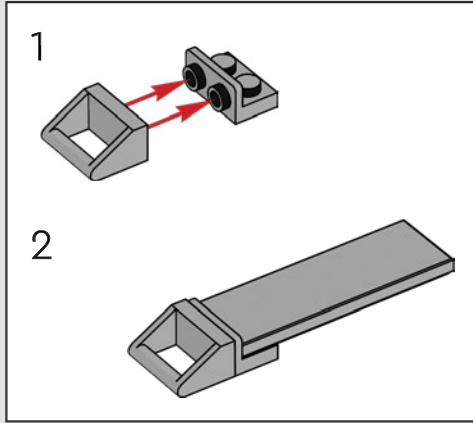
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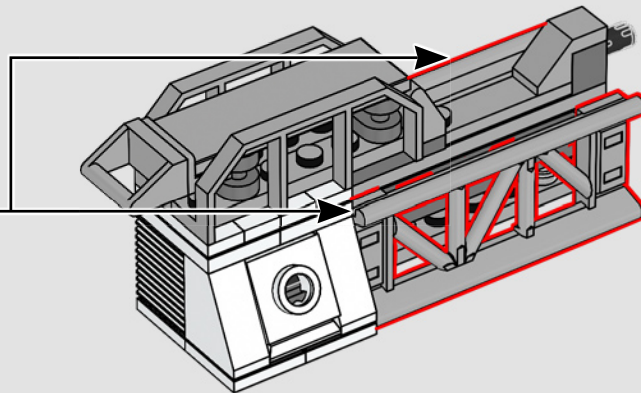
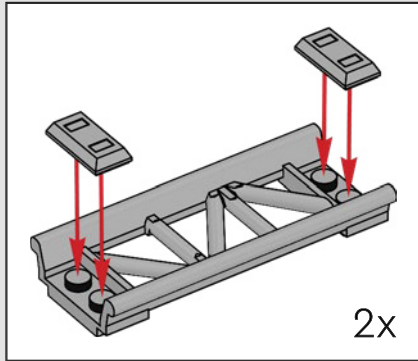
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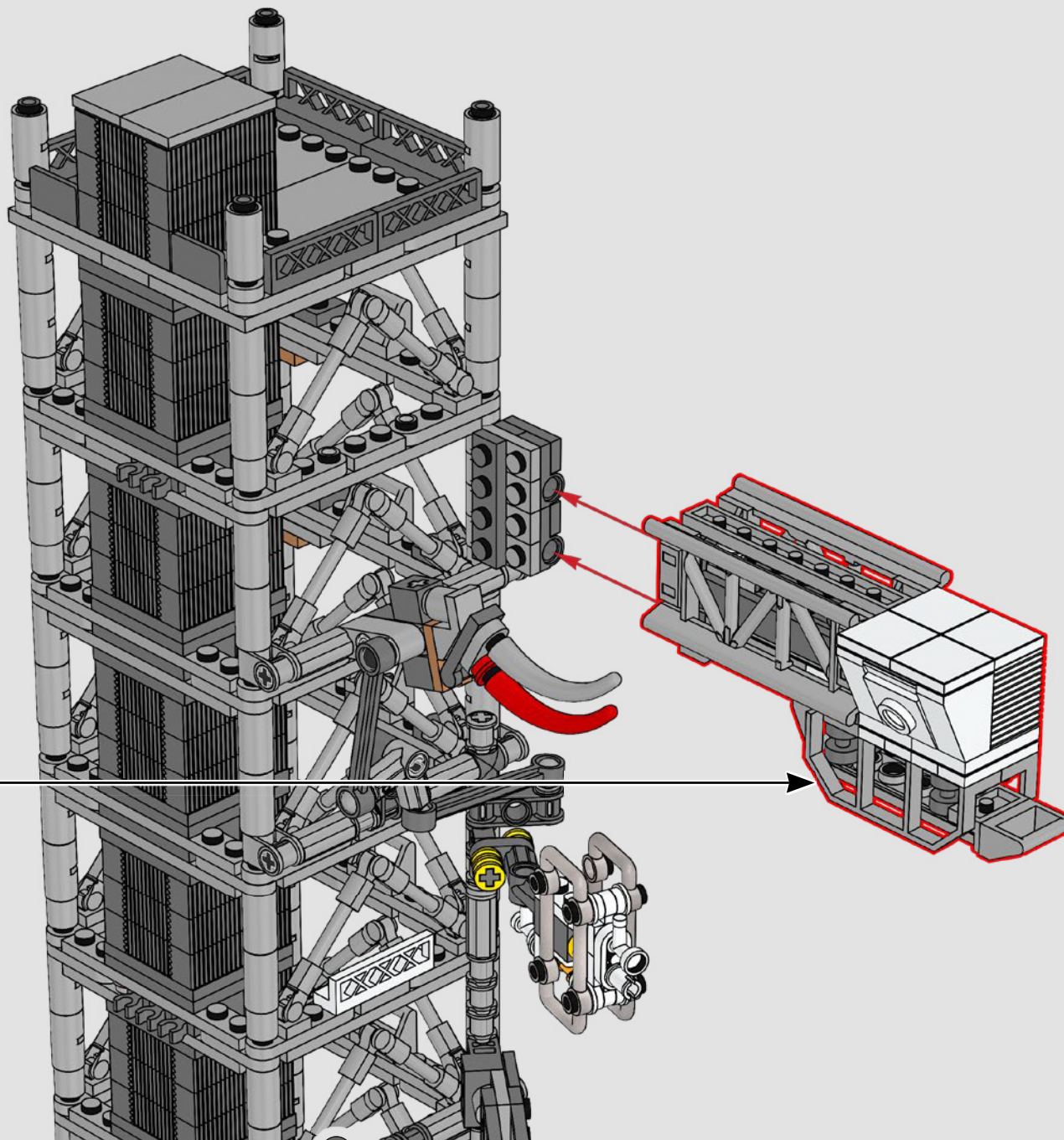
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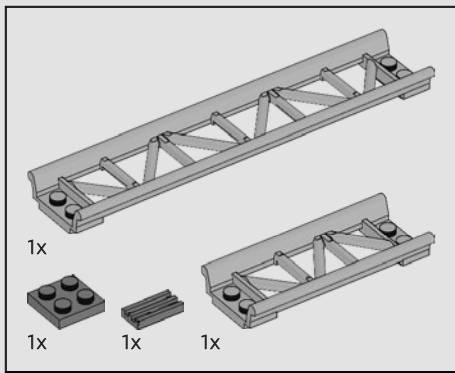


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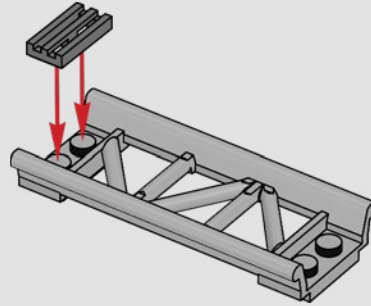
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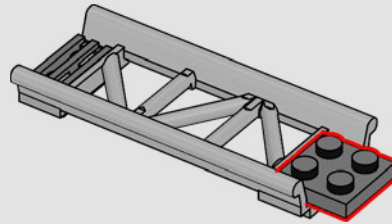


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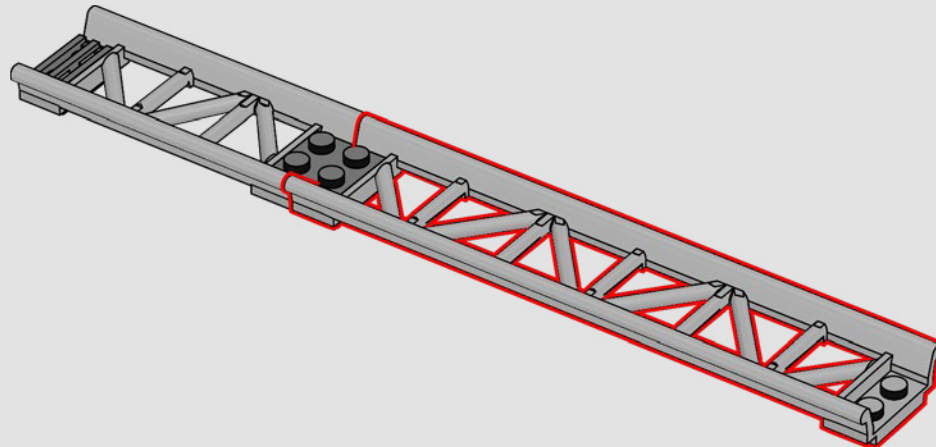
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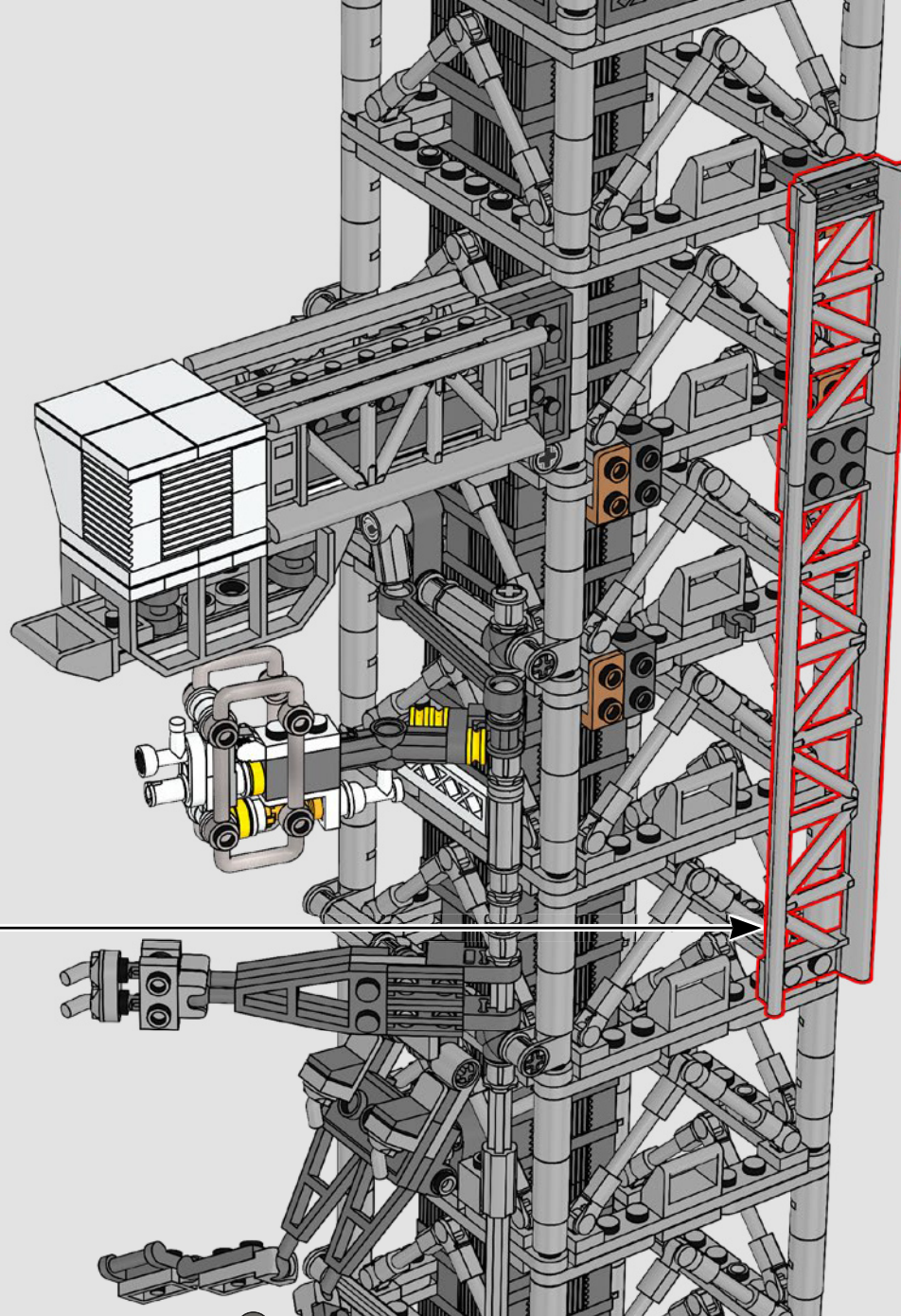


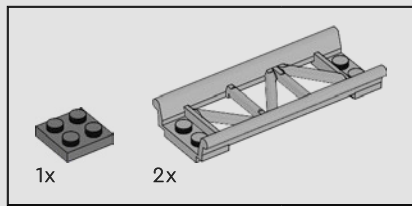
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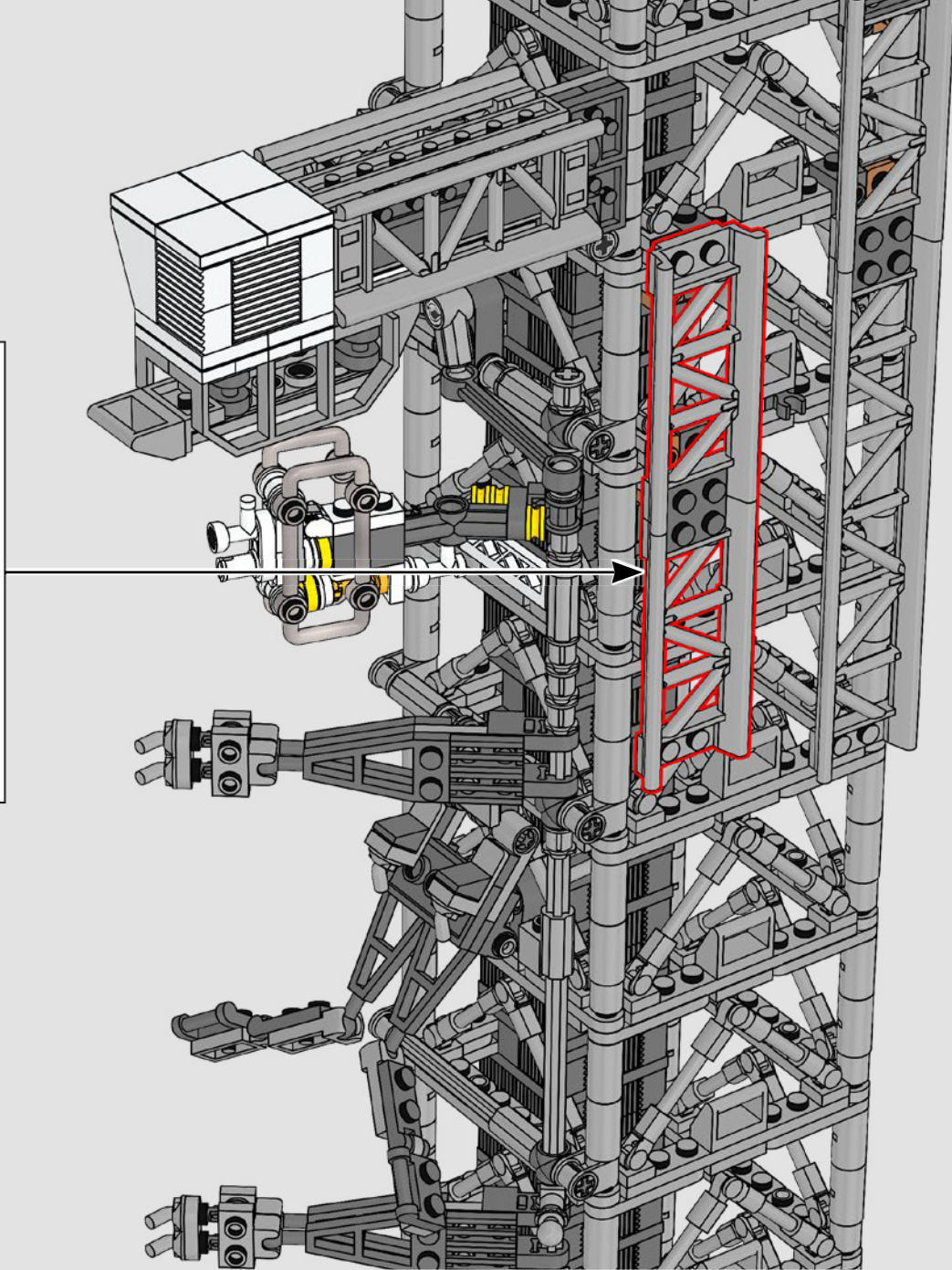
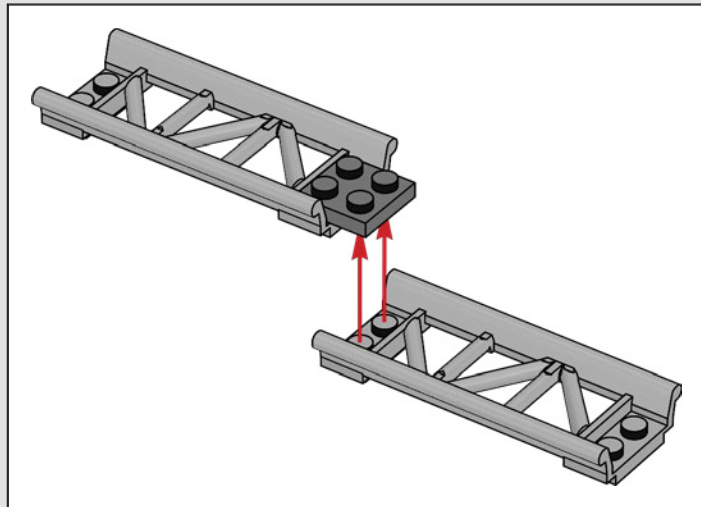
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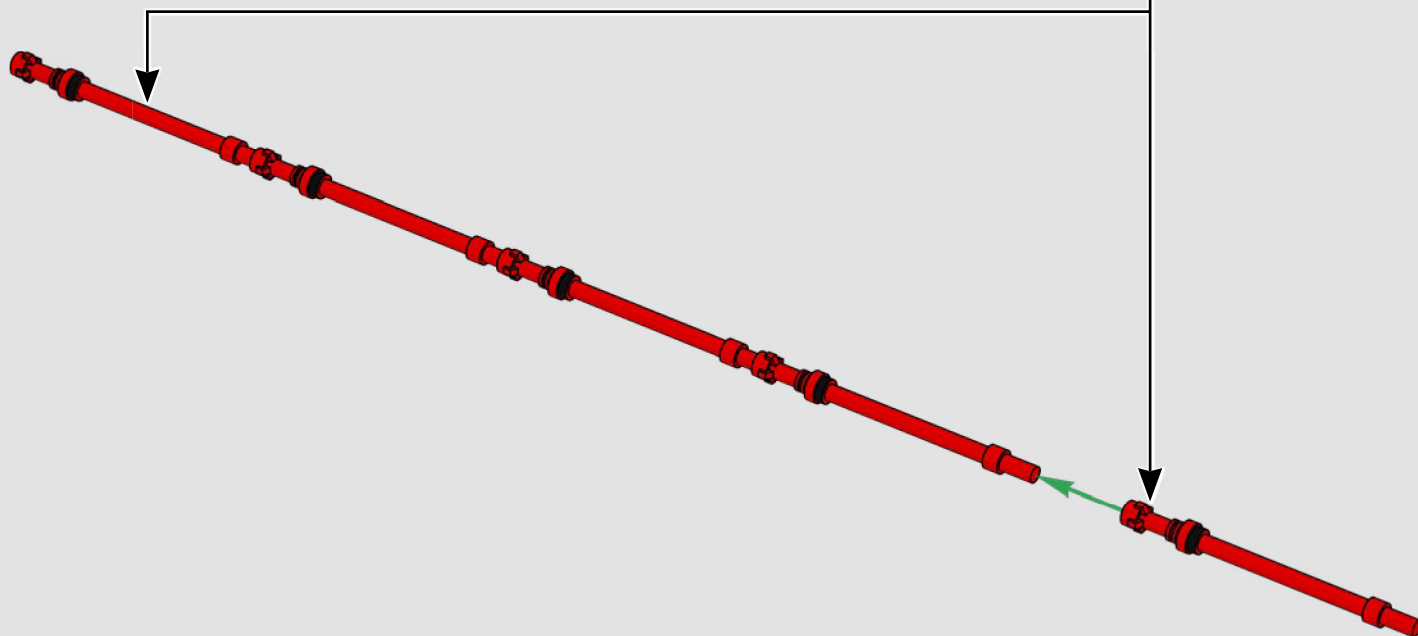
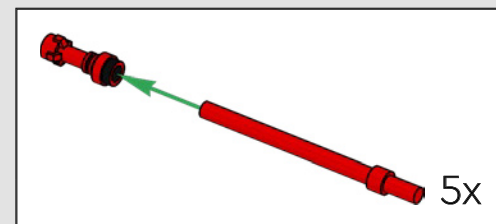


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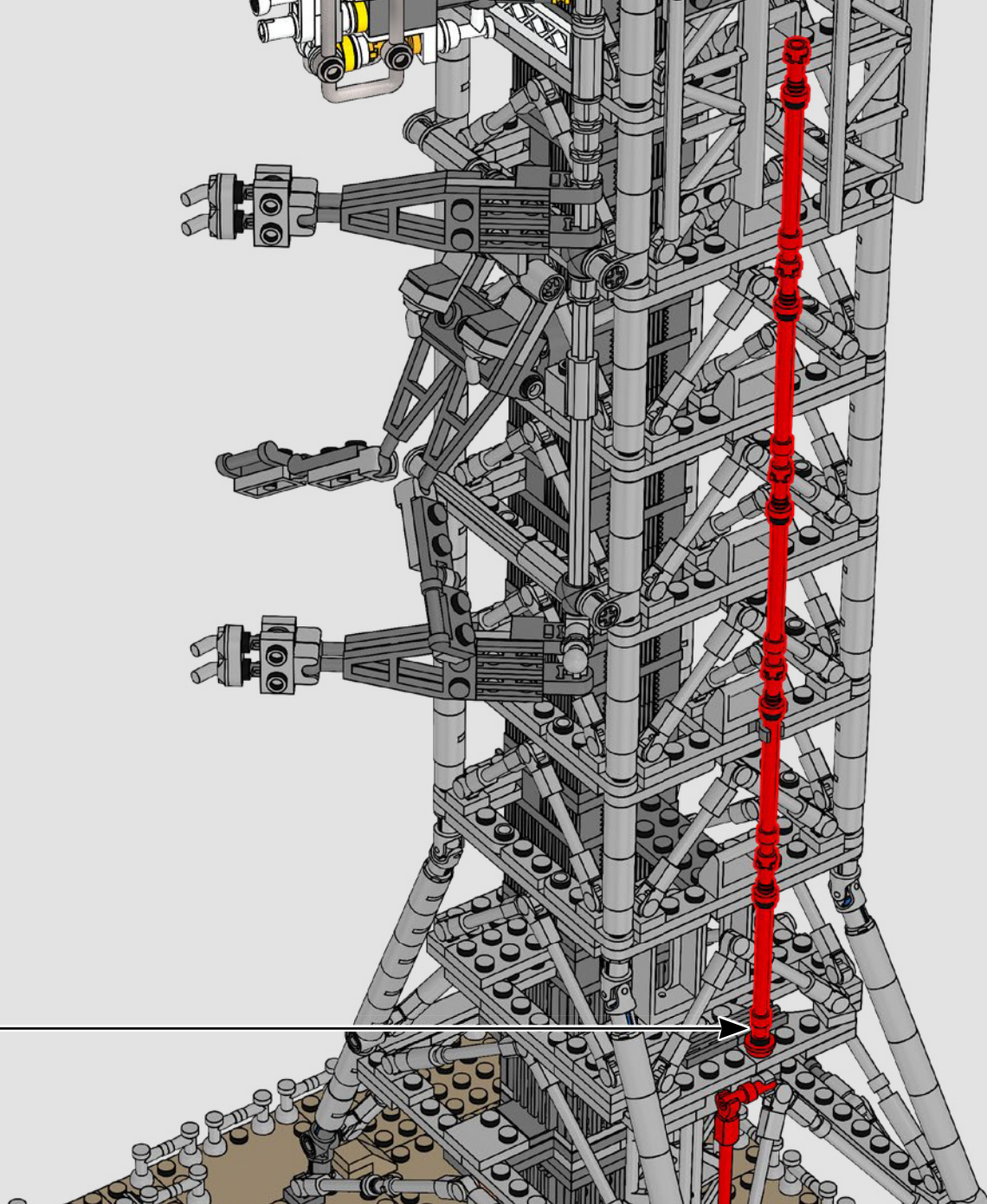


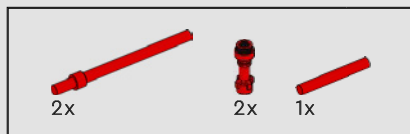


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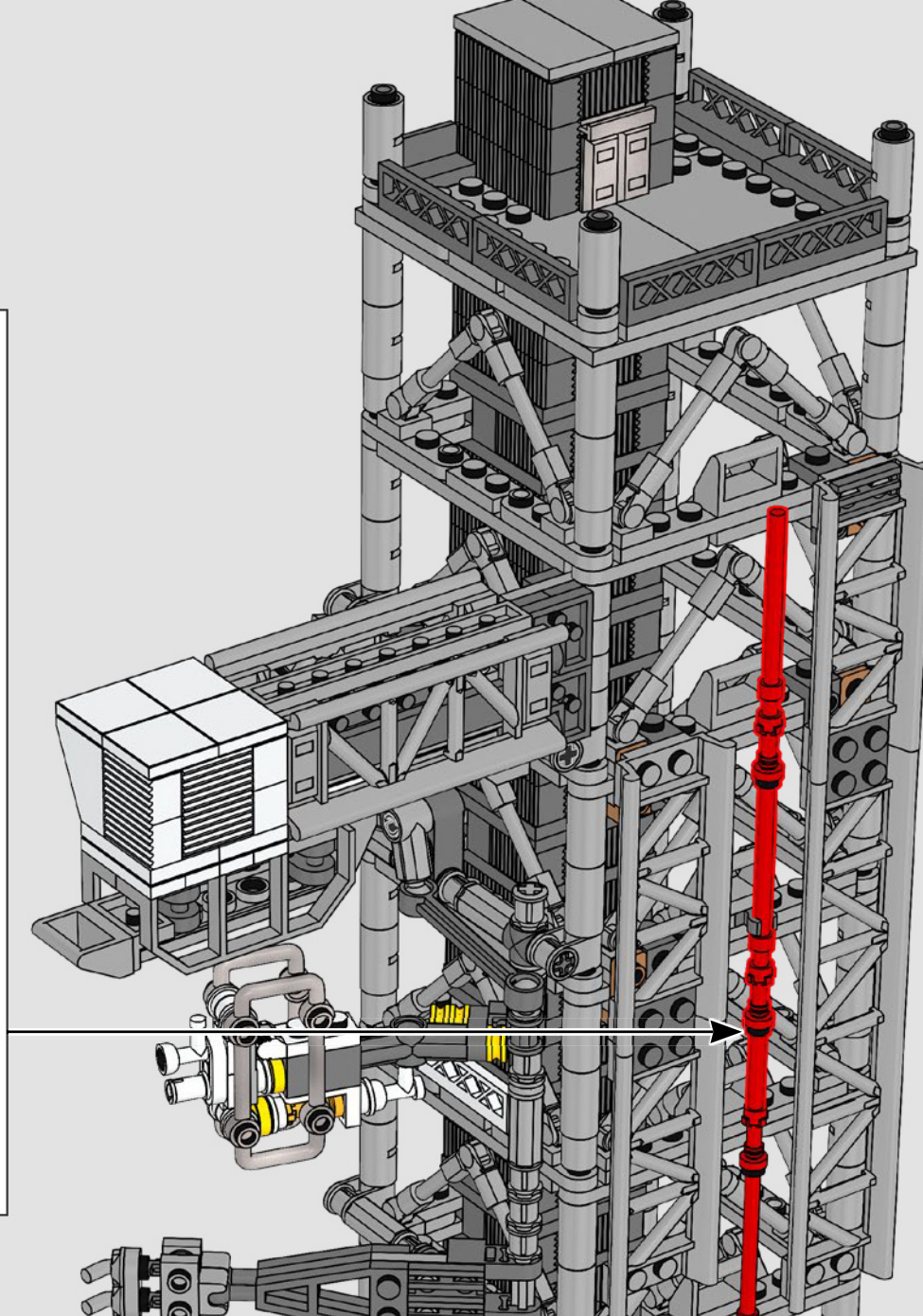
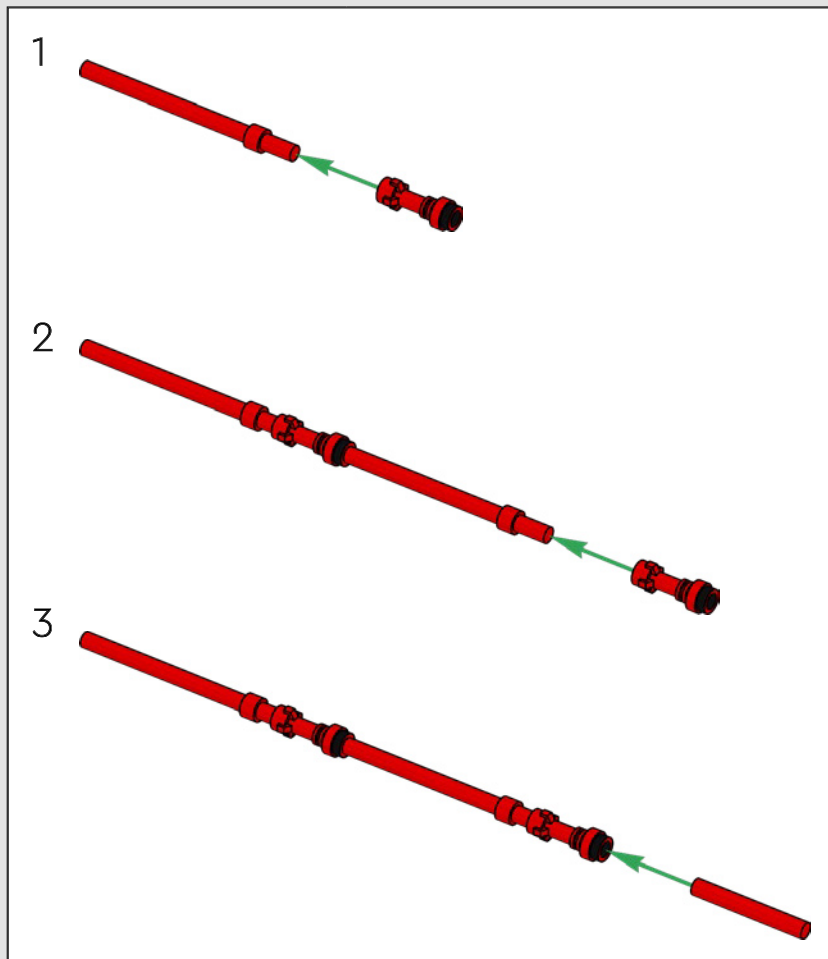


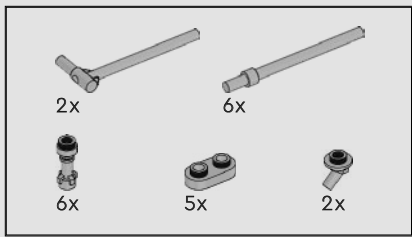
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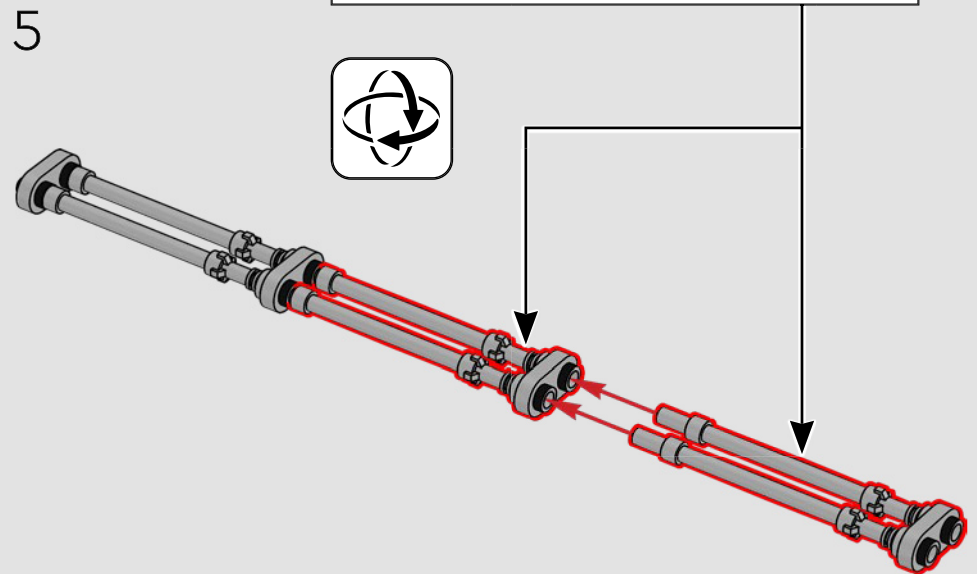
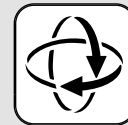
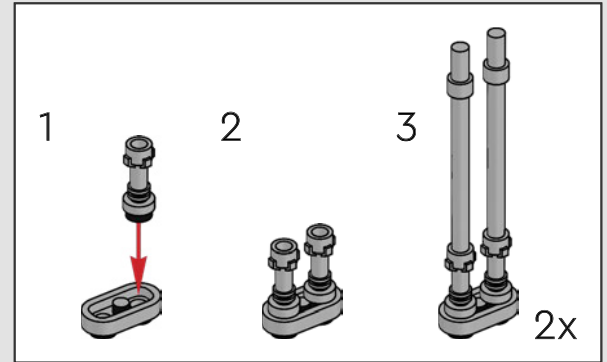
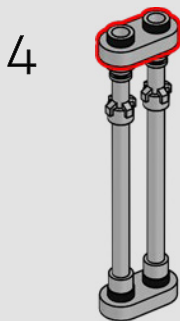
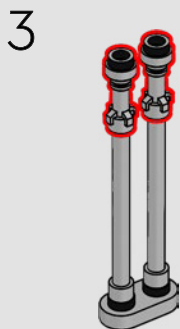
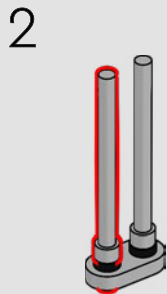
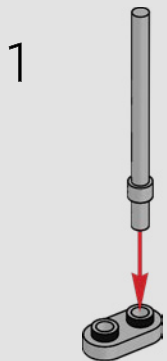


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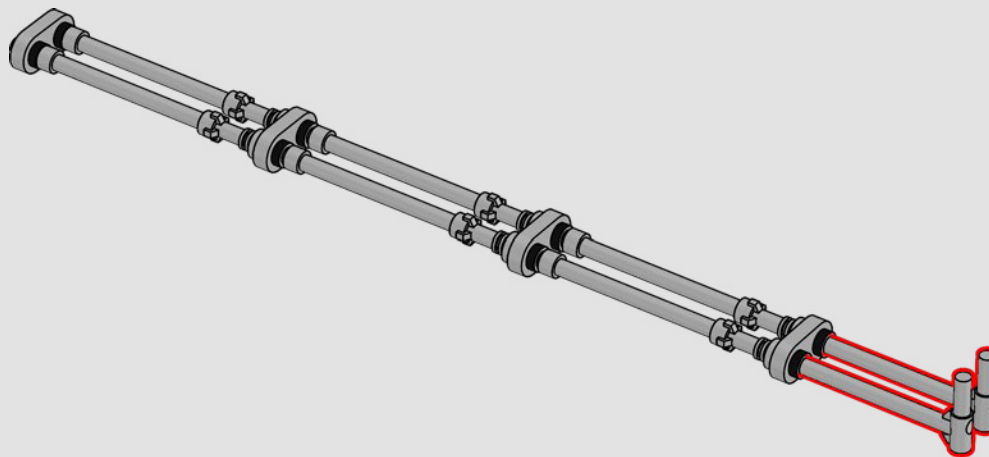




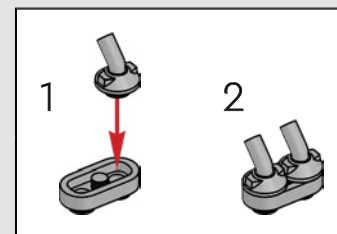
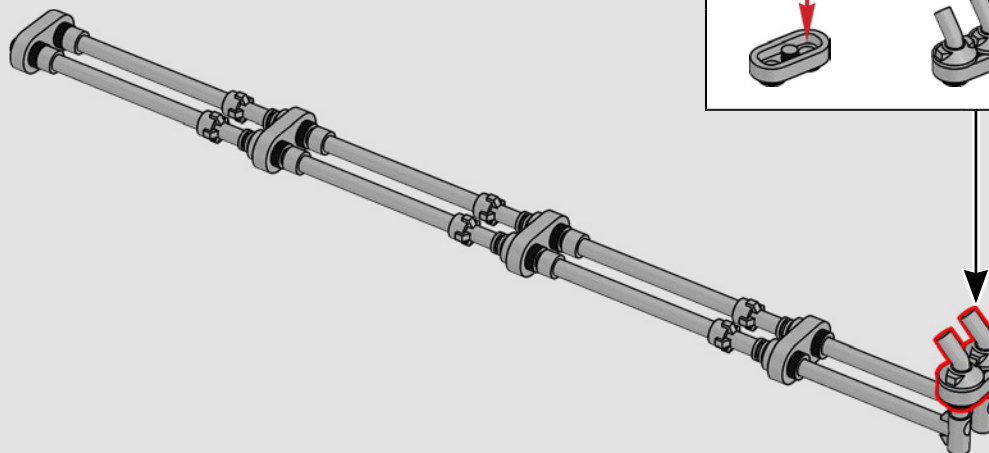
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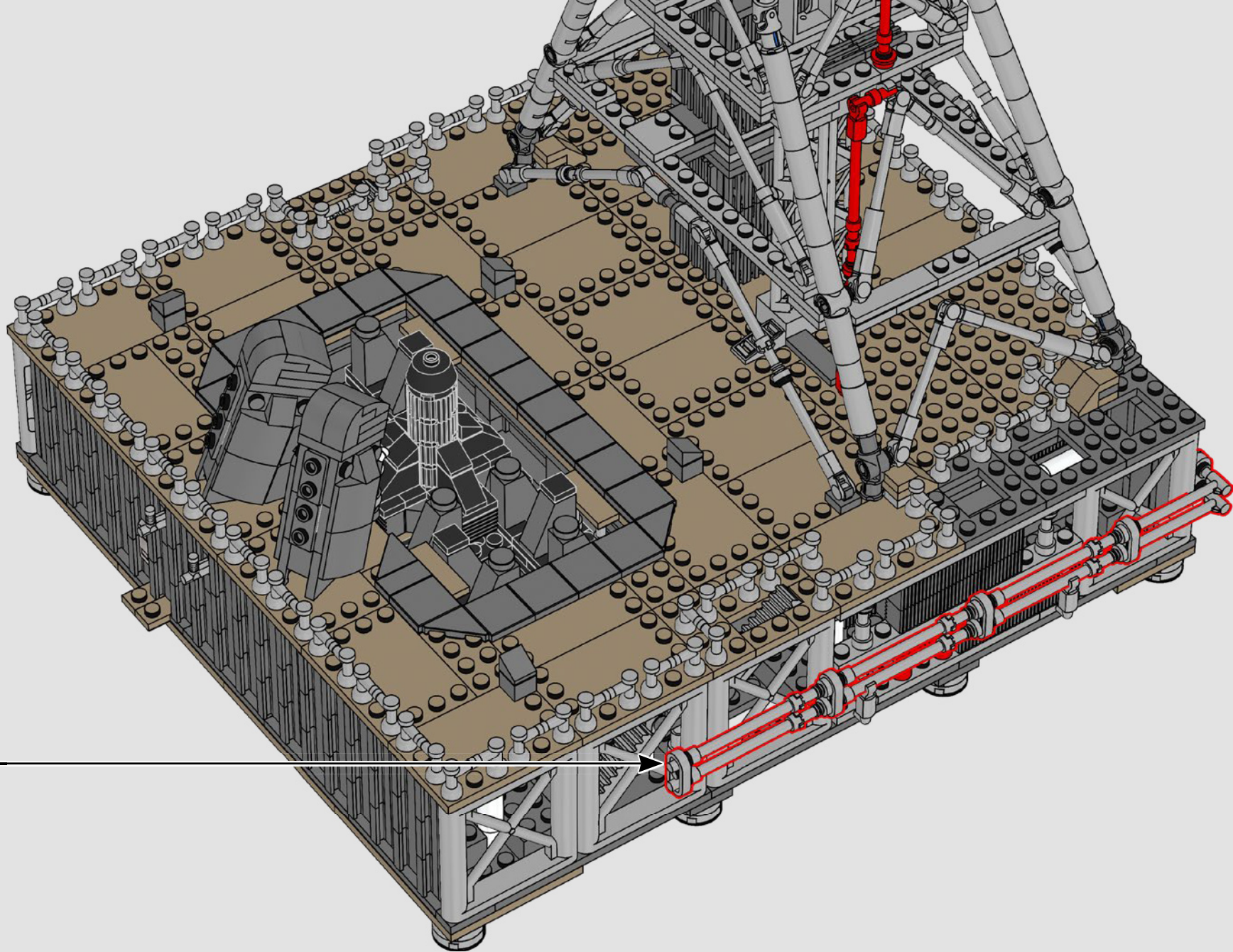


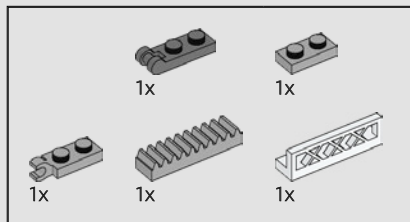
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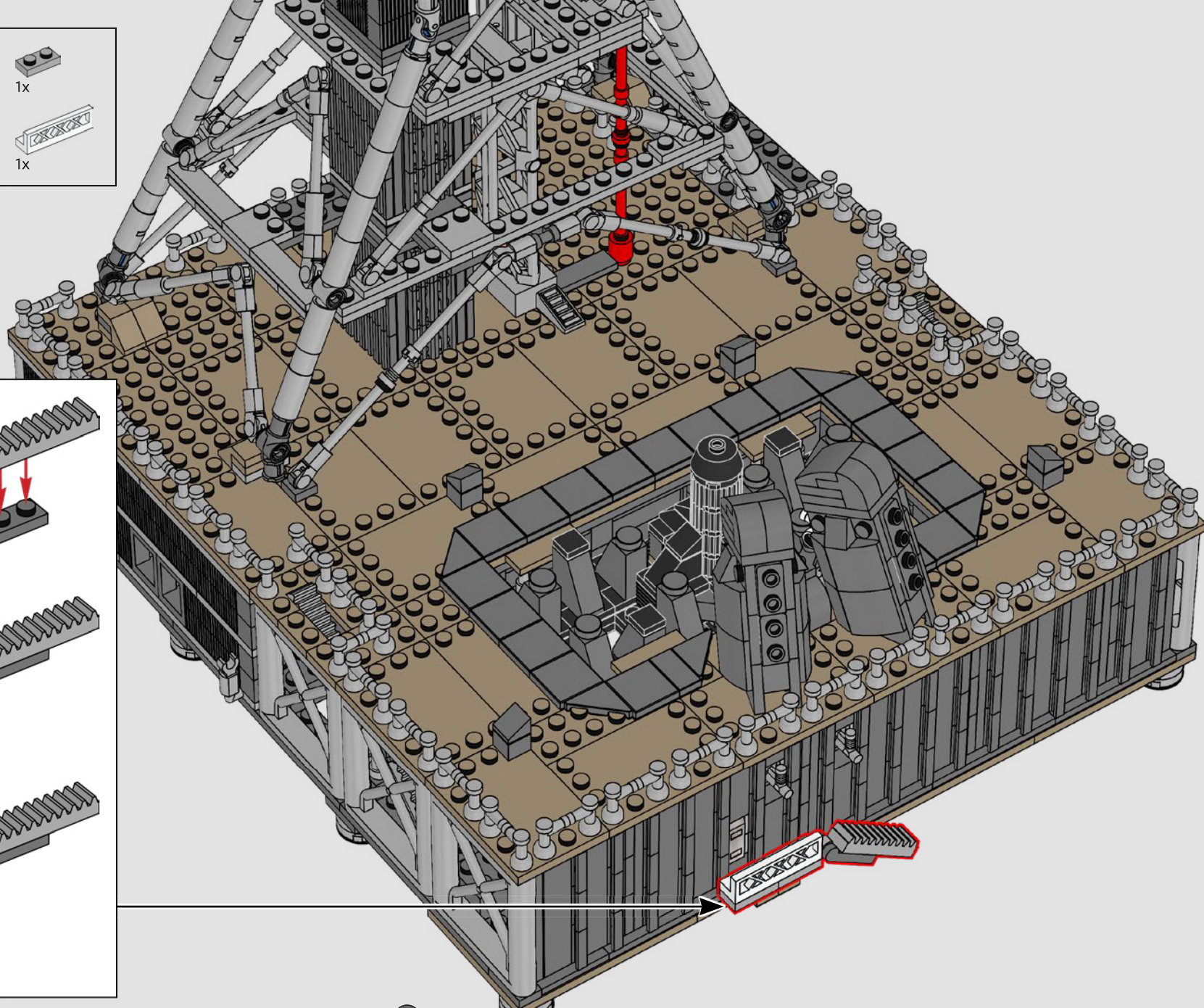
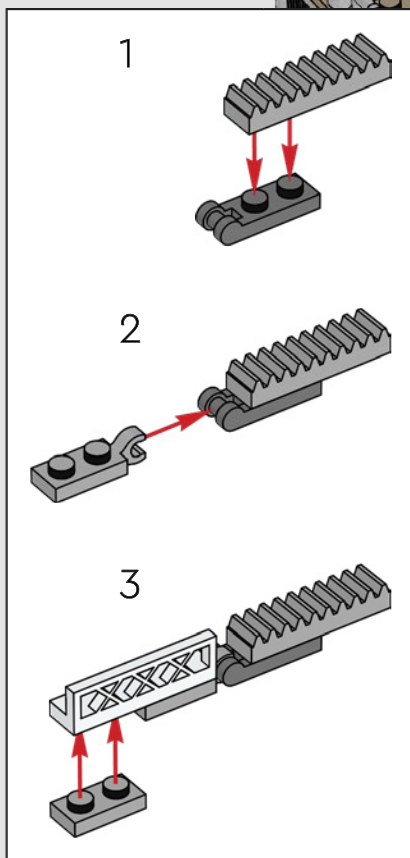
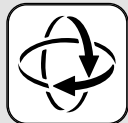
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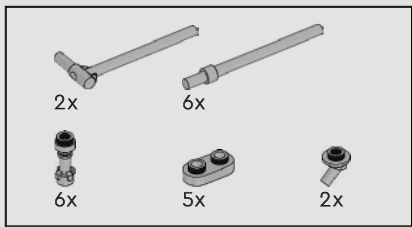






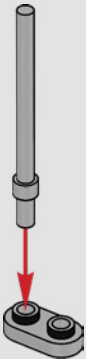
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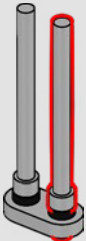


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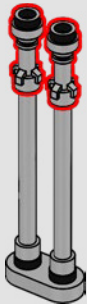
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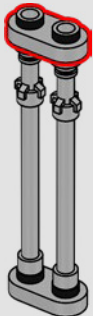
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3



4



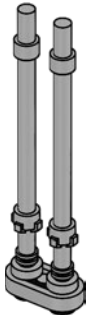
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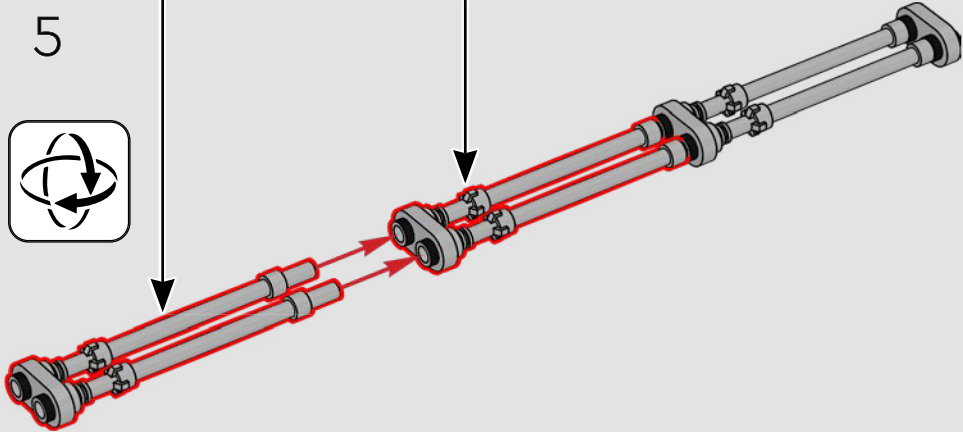


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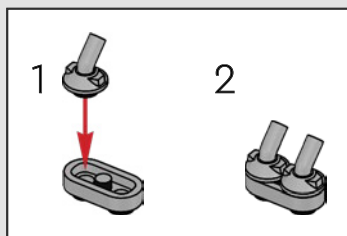
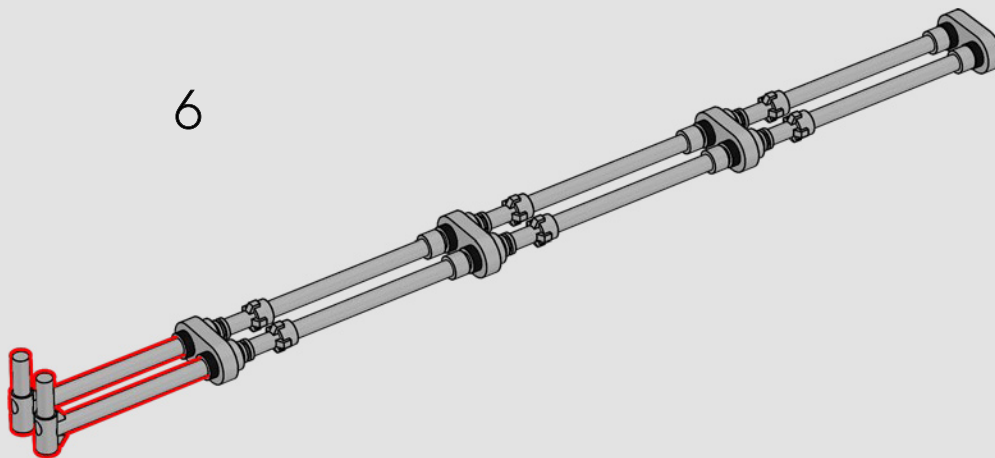


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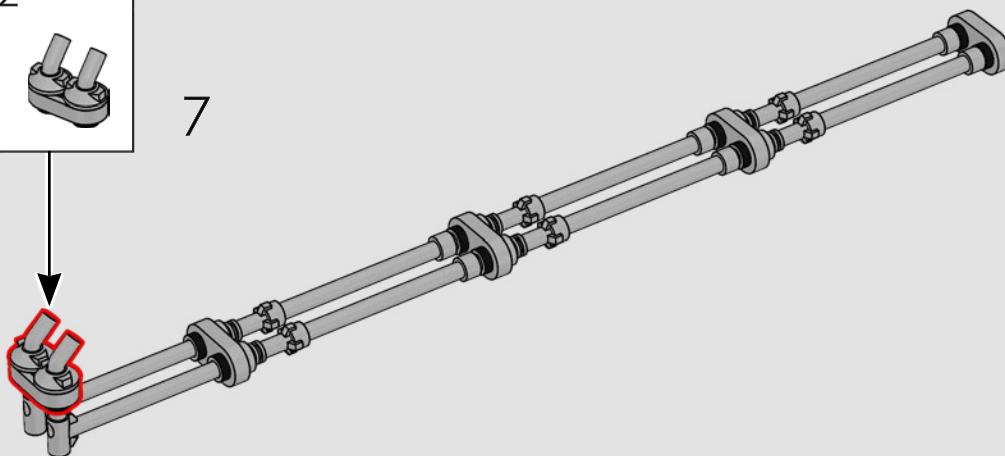
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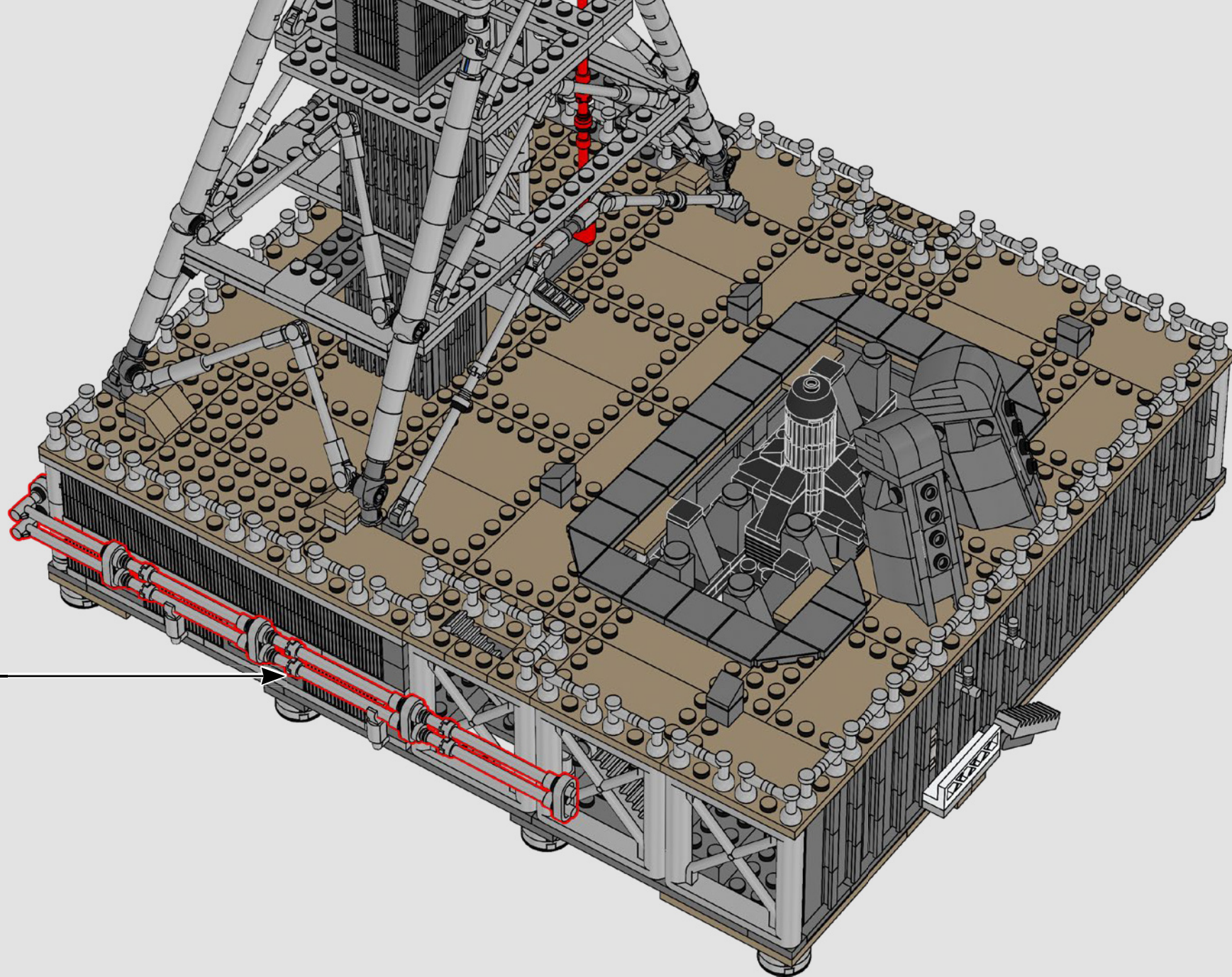


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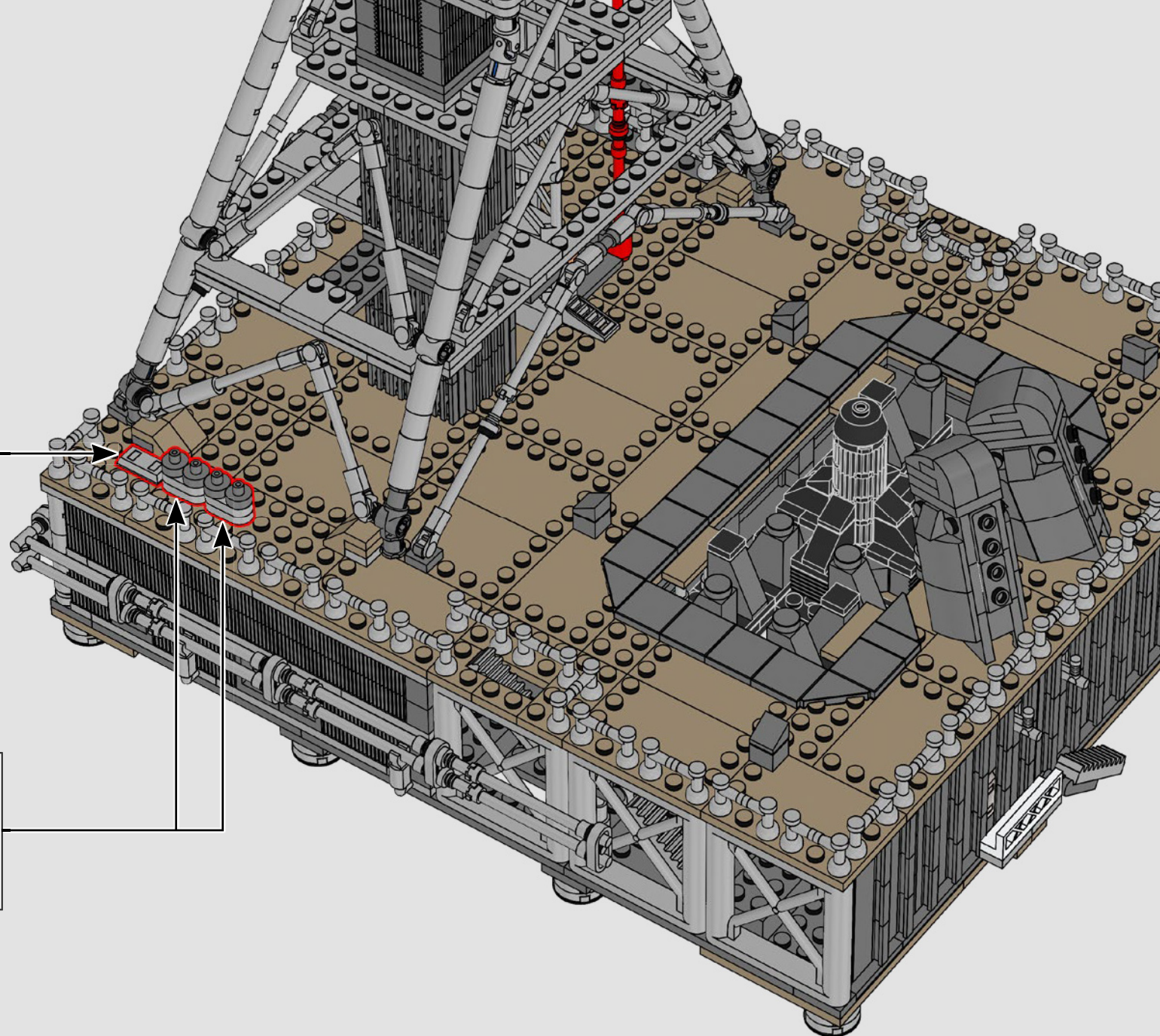
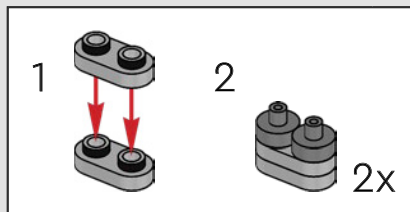
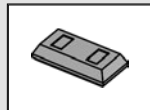
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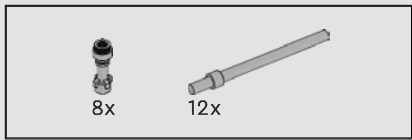




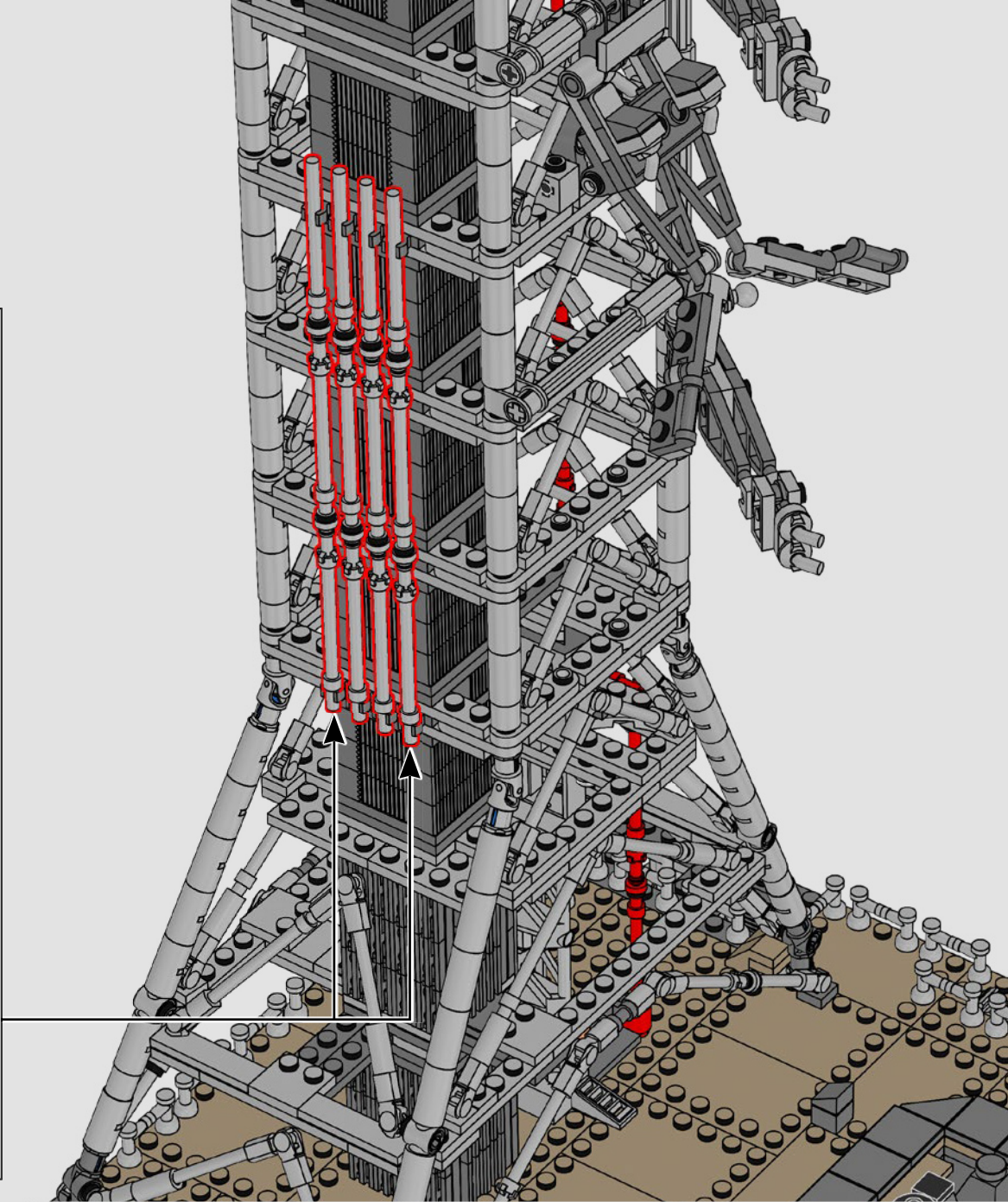
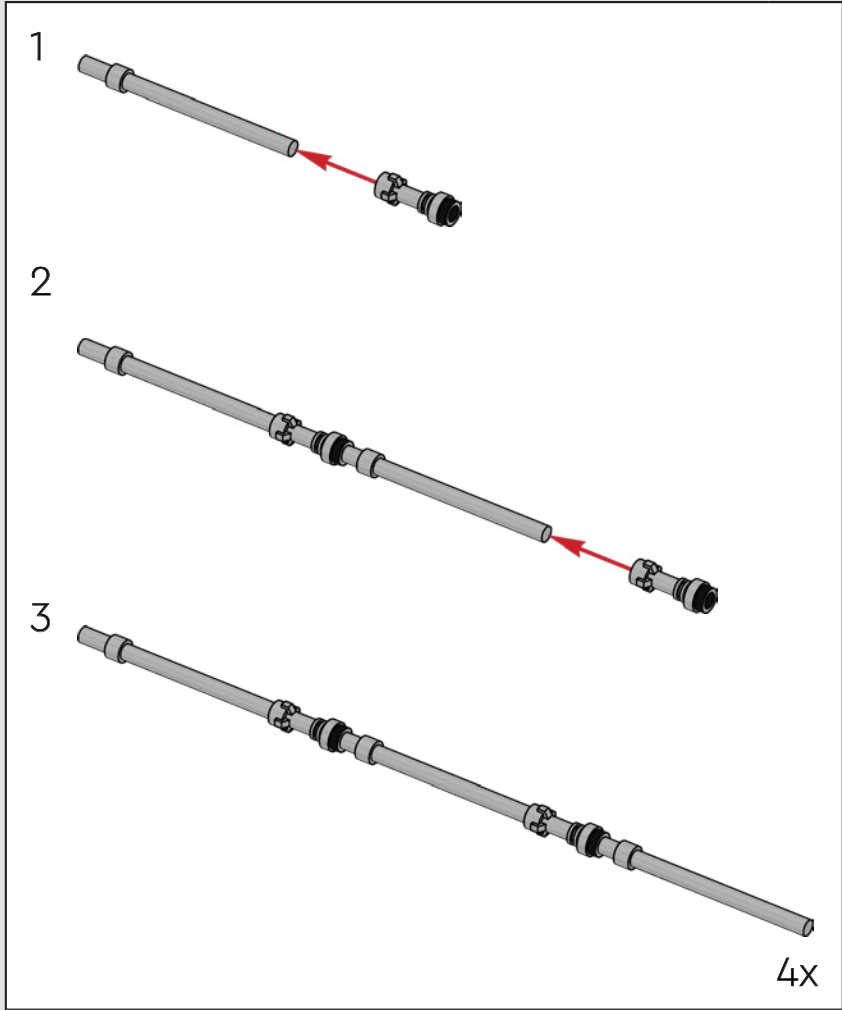


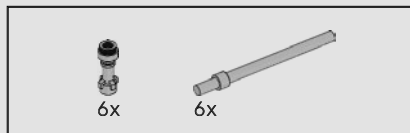
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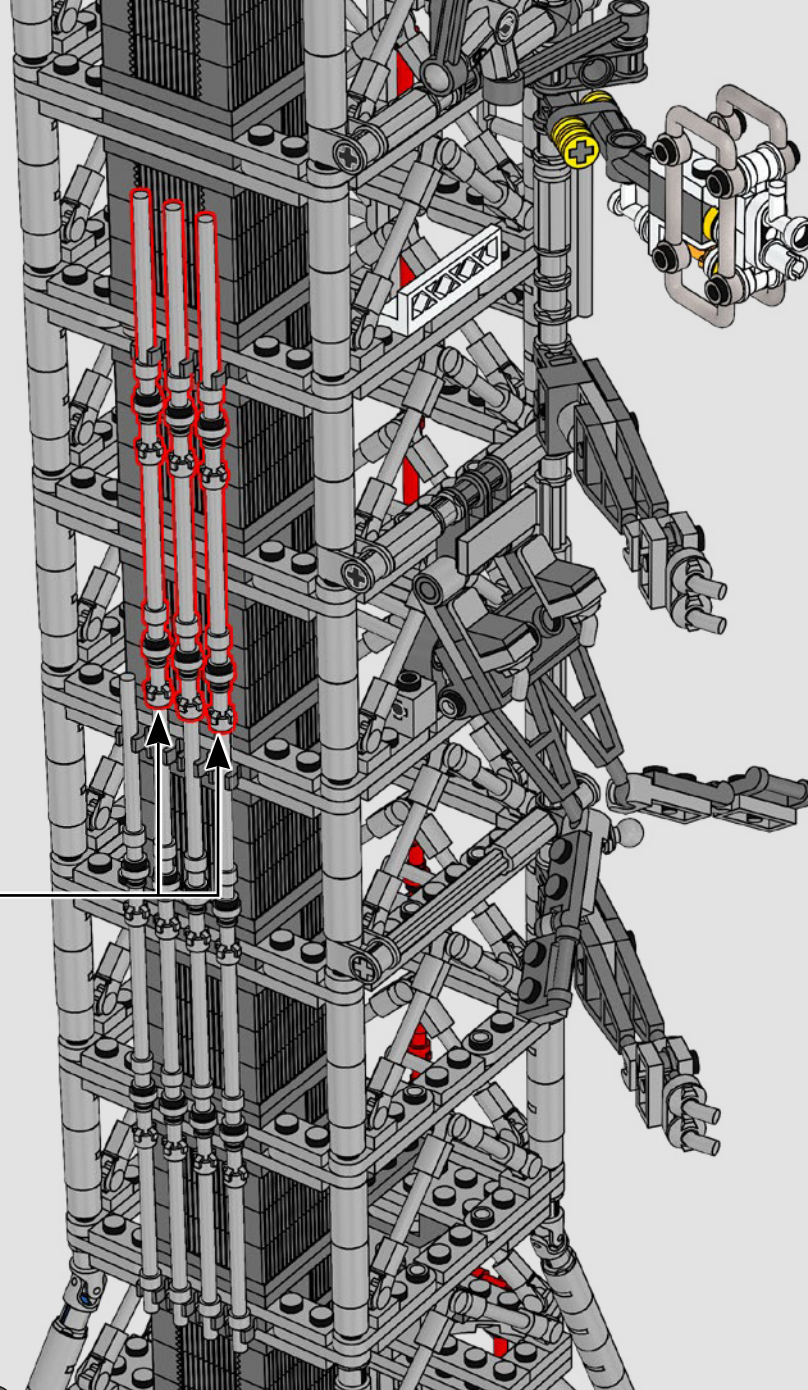
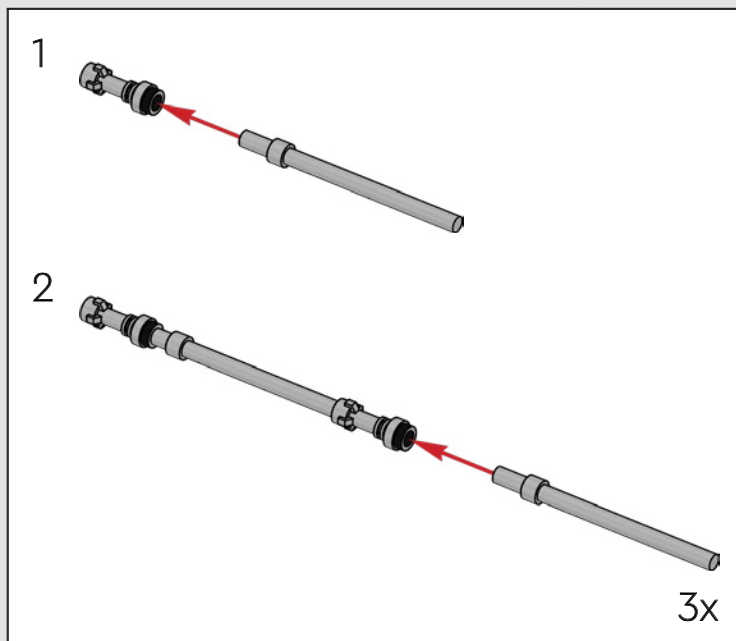


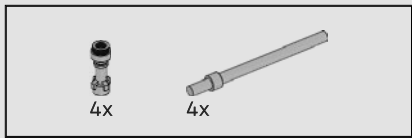
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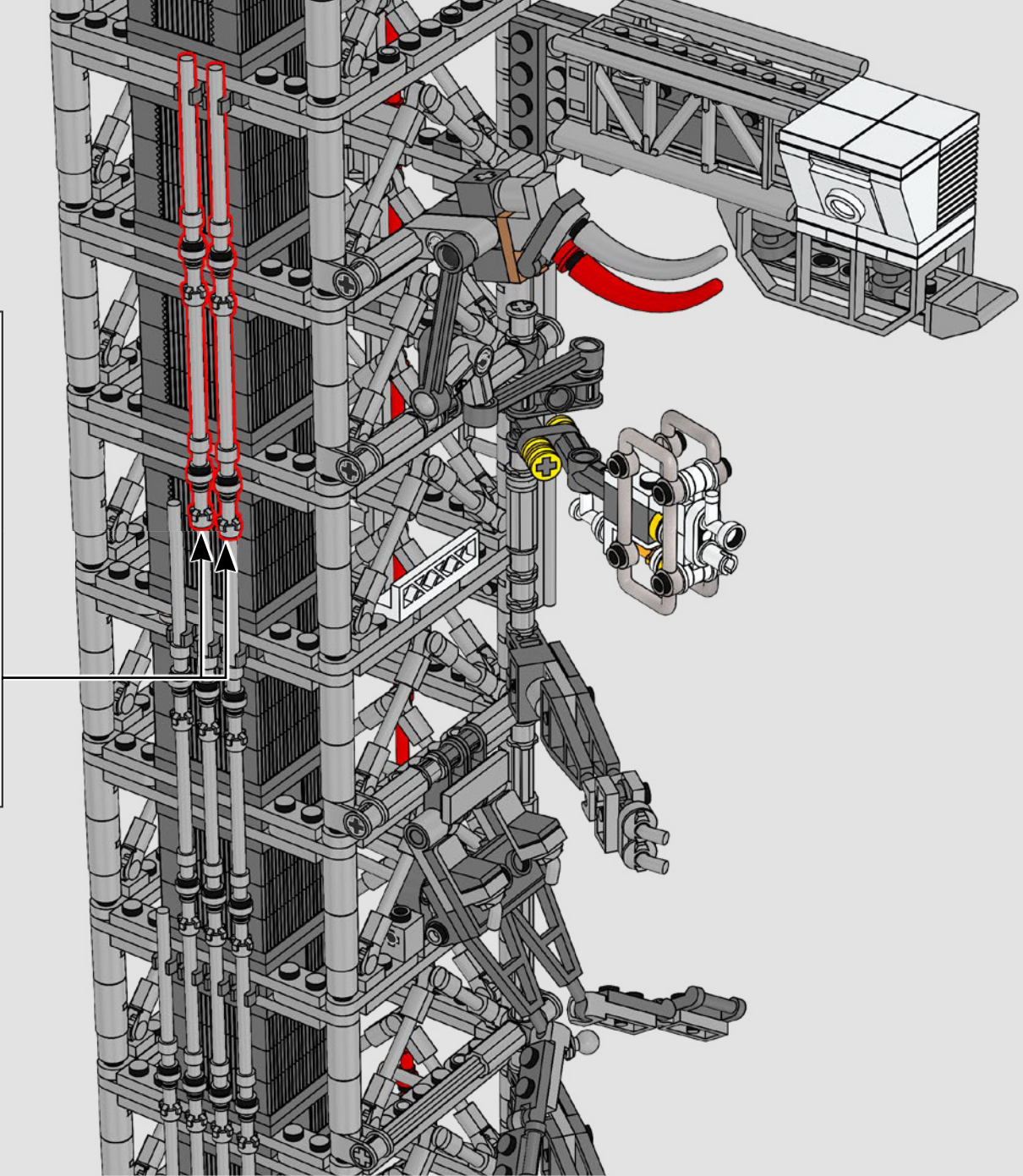
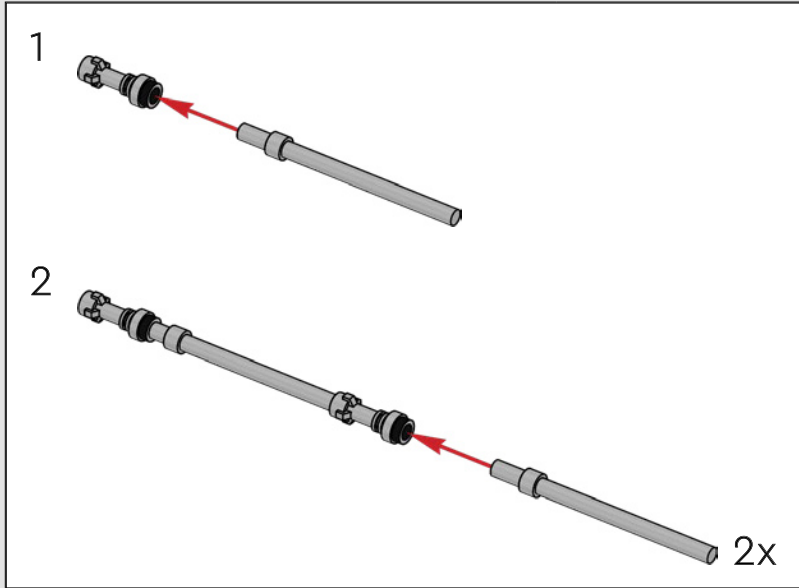


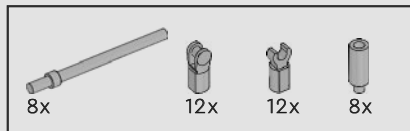
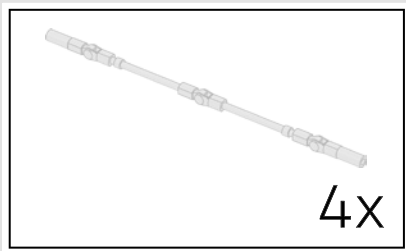
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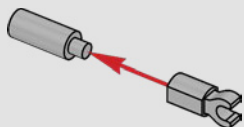
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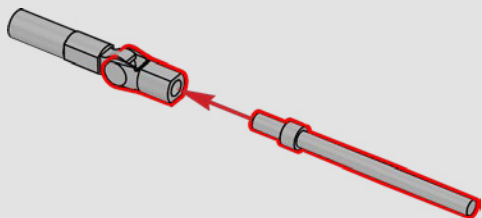


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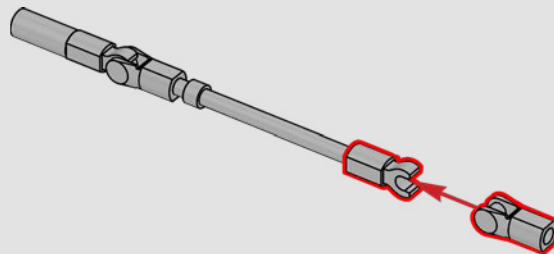
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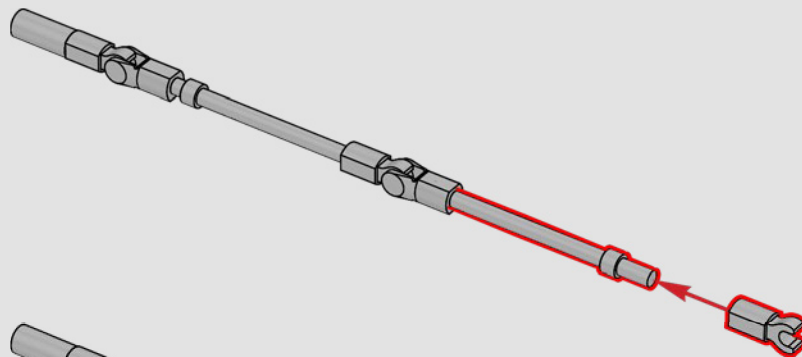
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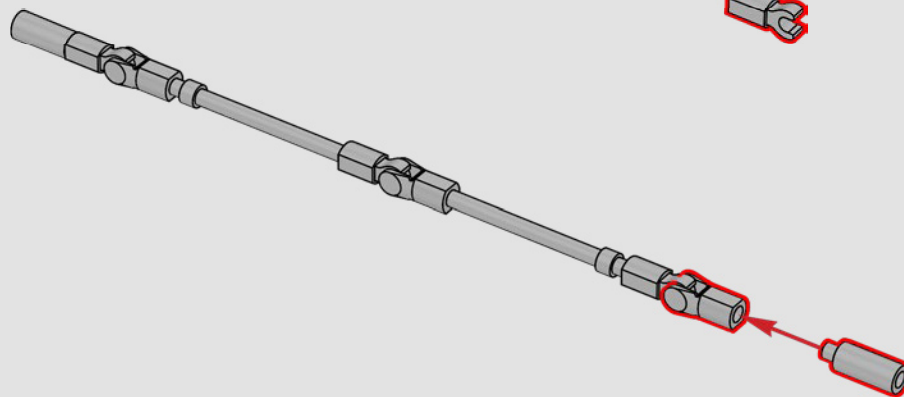
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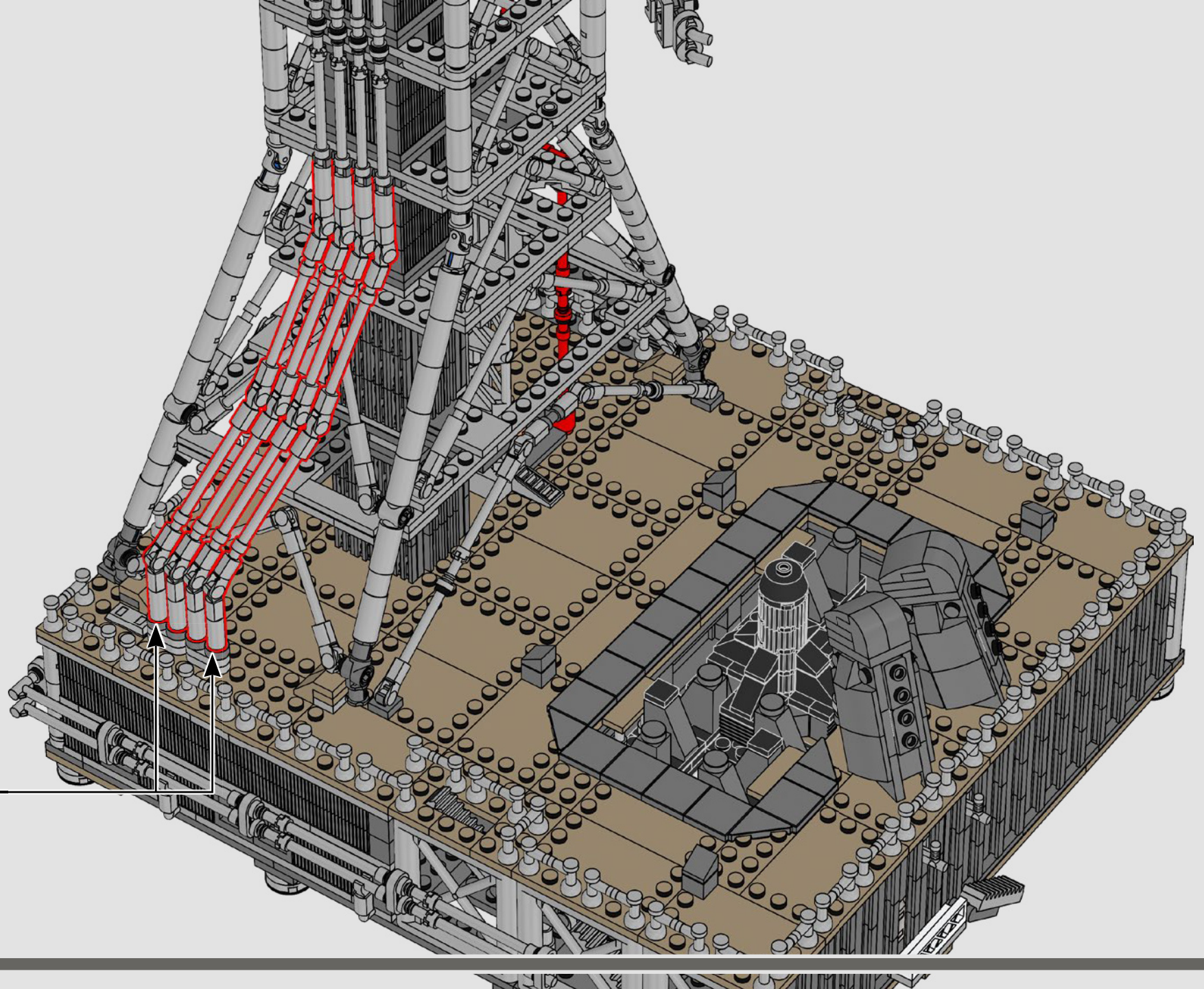
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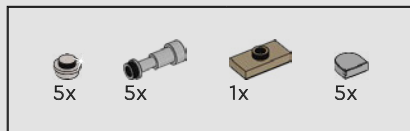


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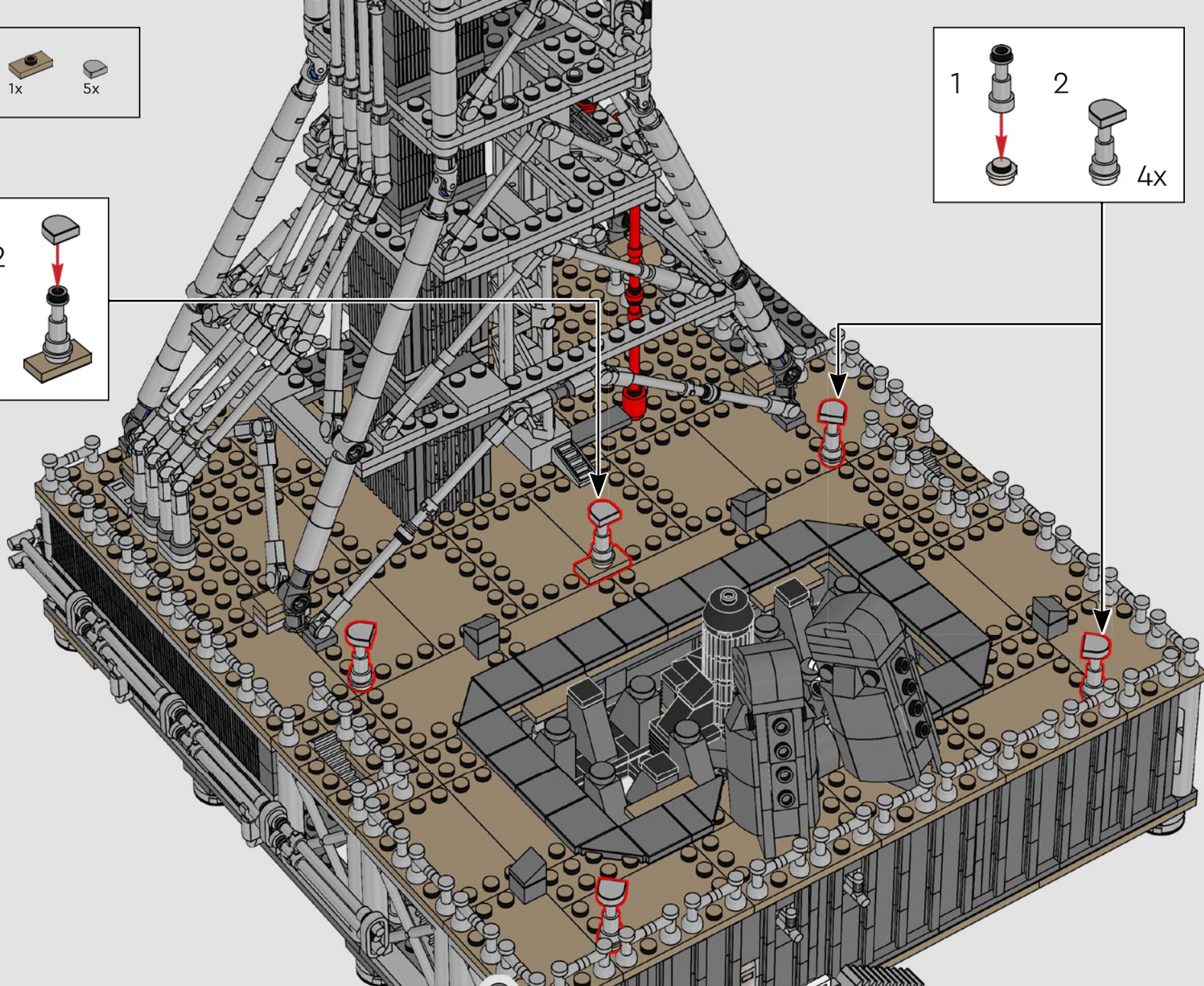
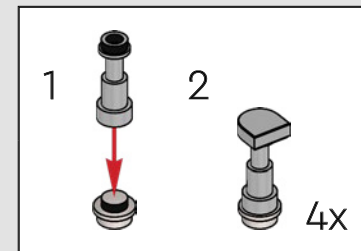
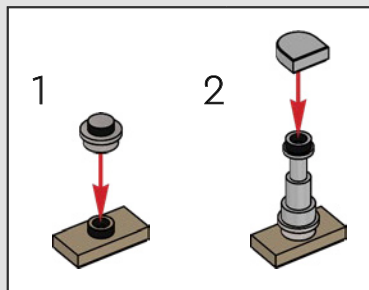


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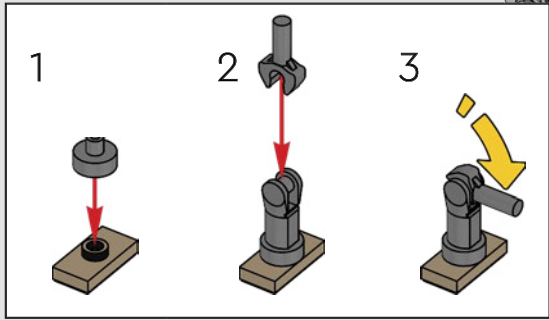
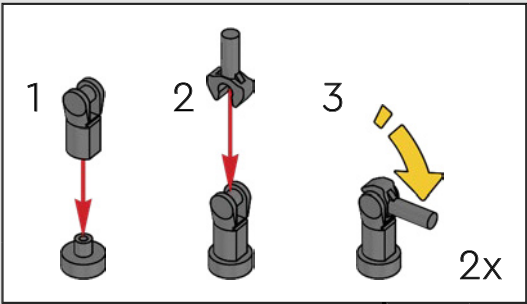


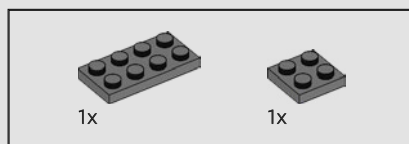
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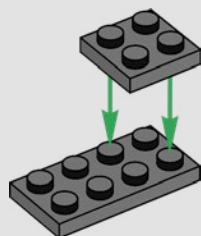
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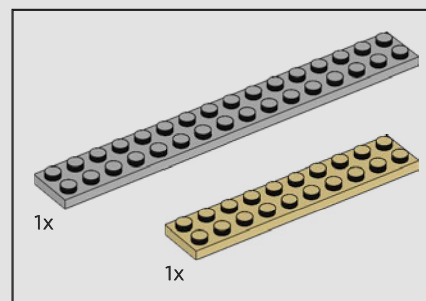
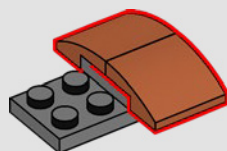




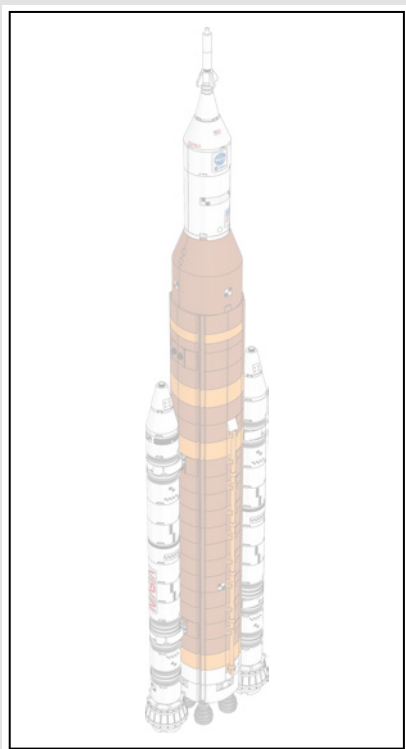
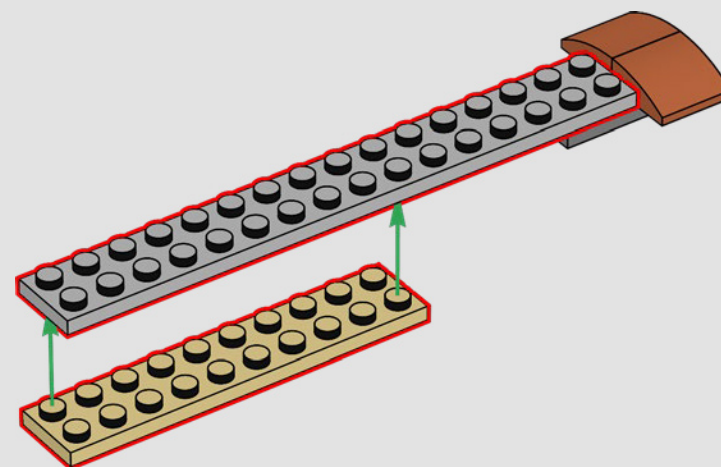
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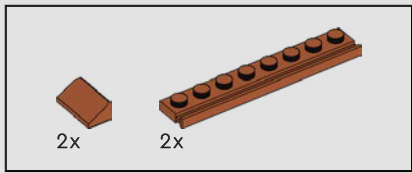


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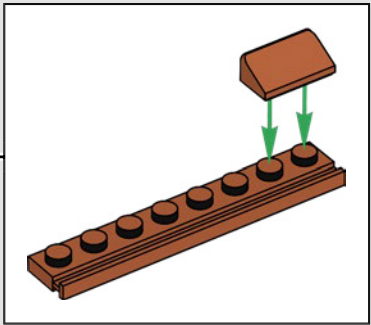
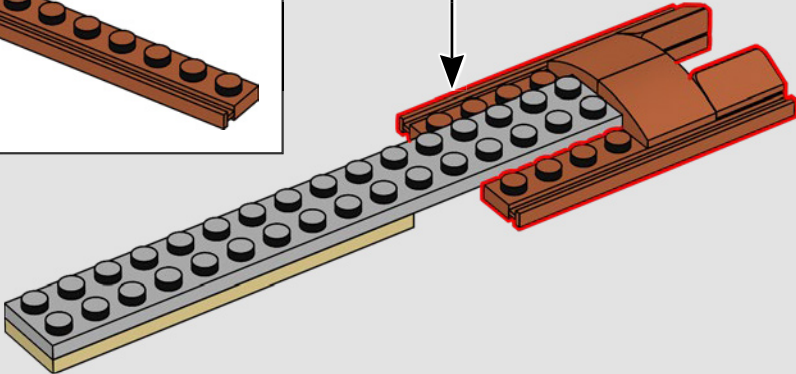
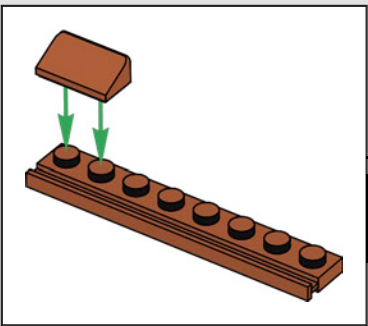


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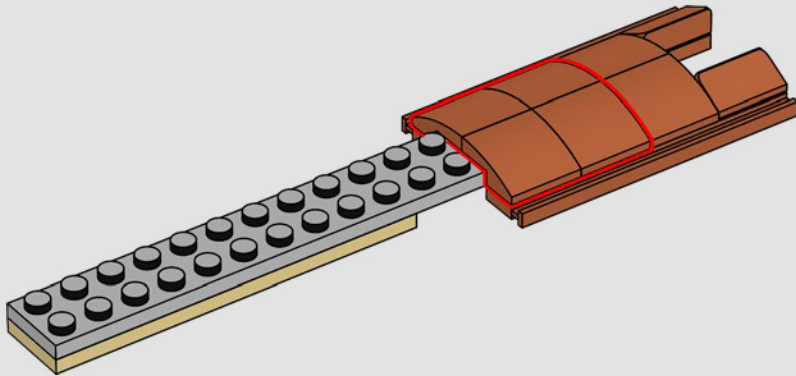


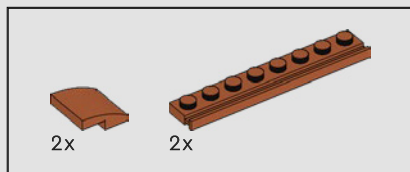


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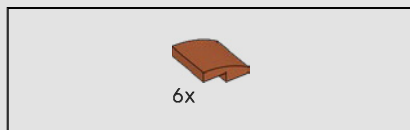
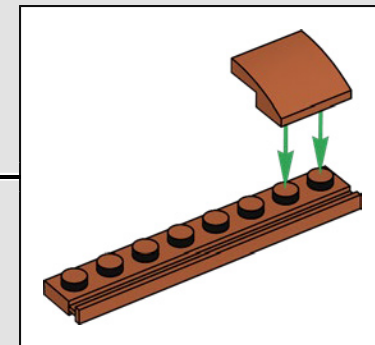
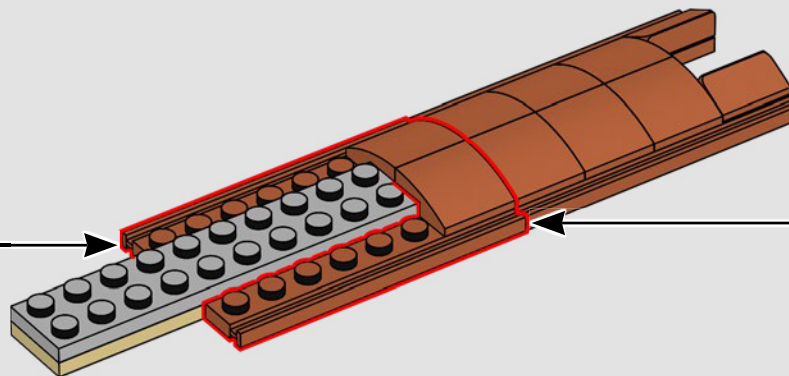
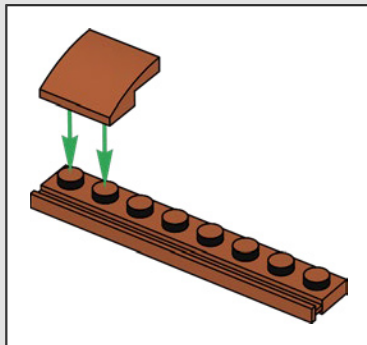


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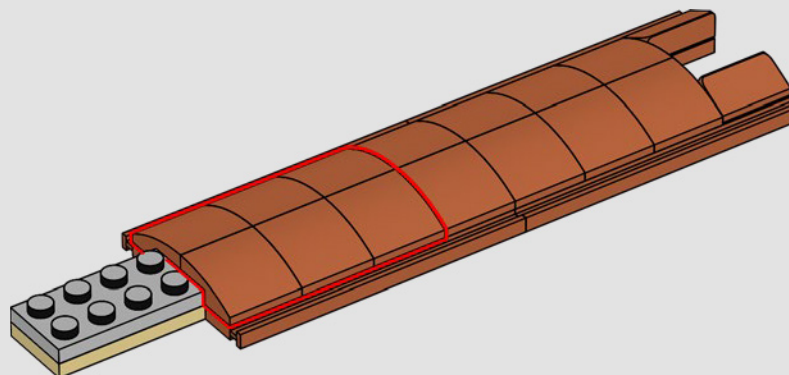


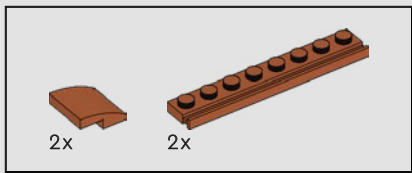


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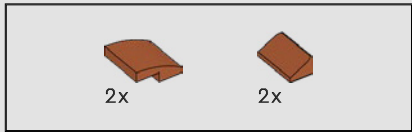
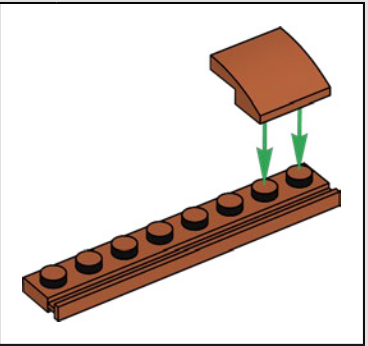
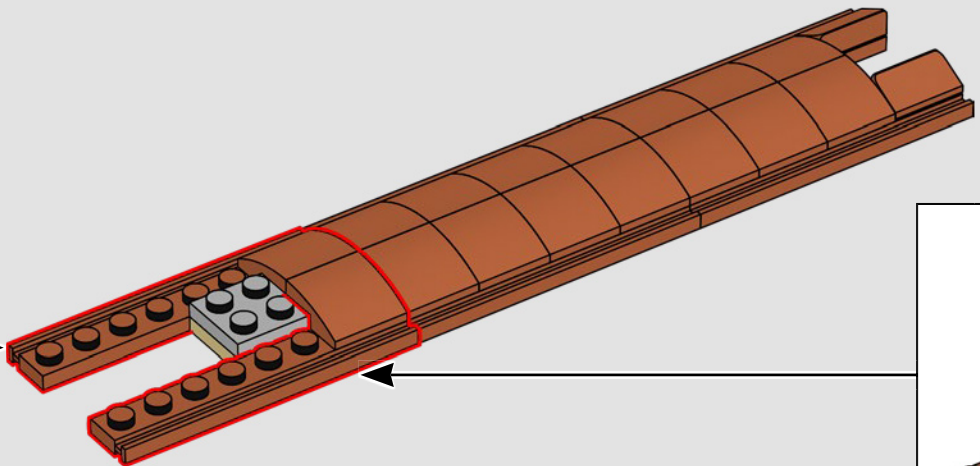
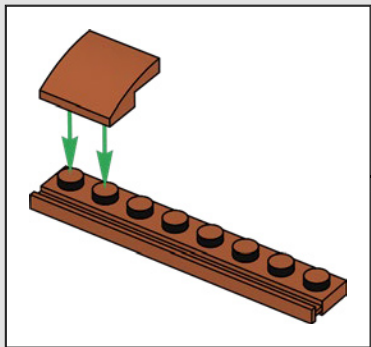


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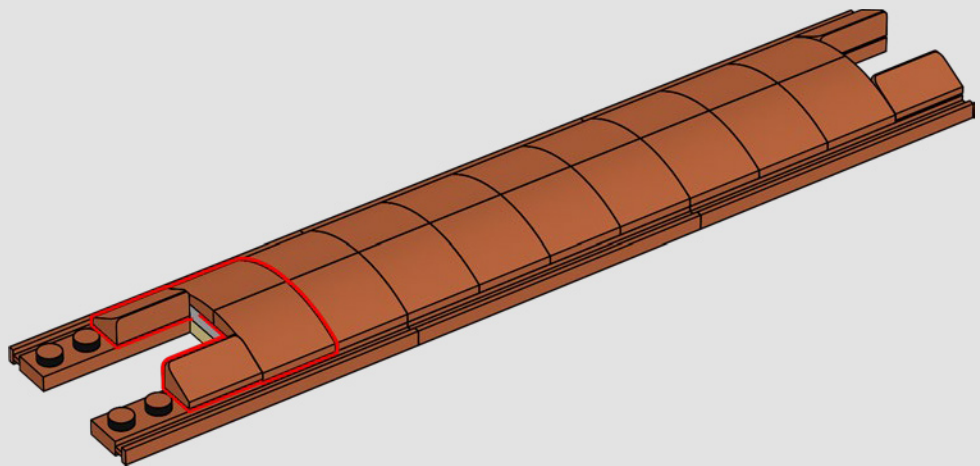


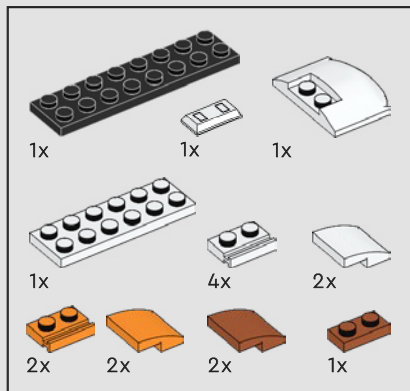
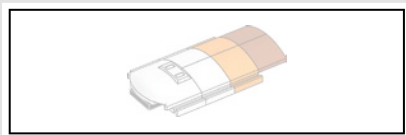


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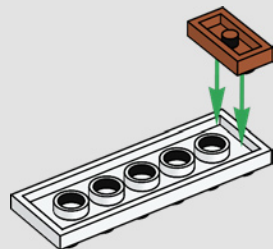
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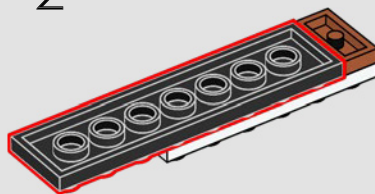


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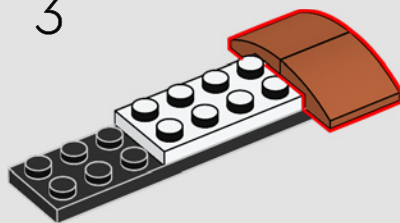
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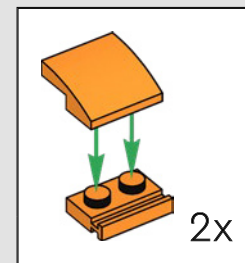
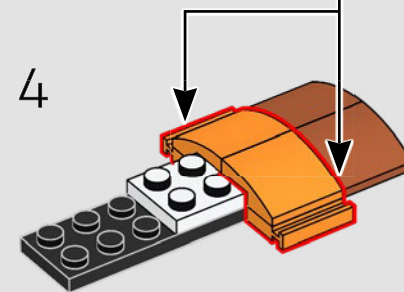
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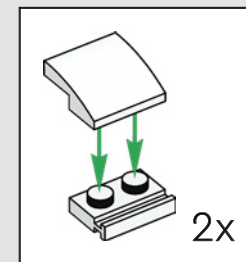
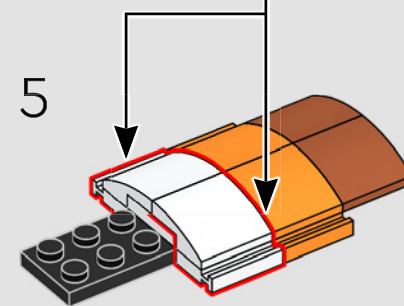


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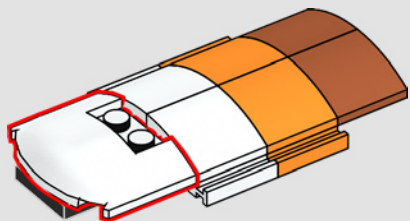
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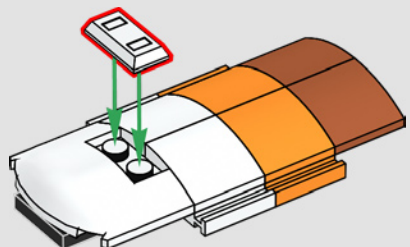


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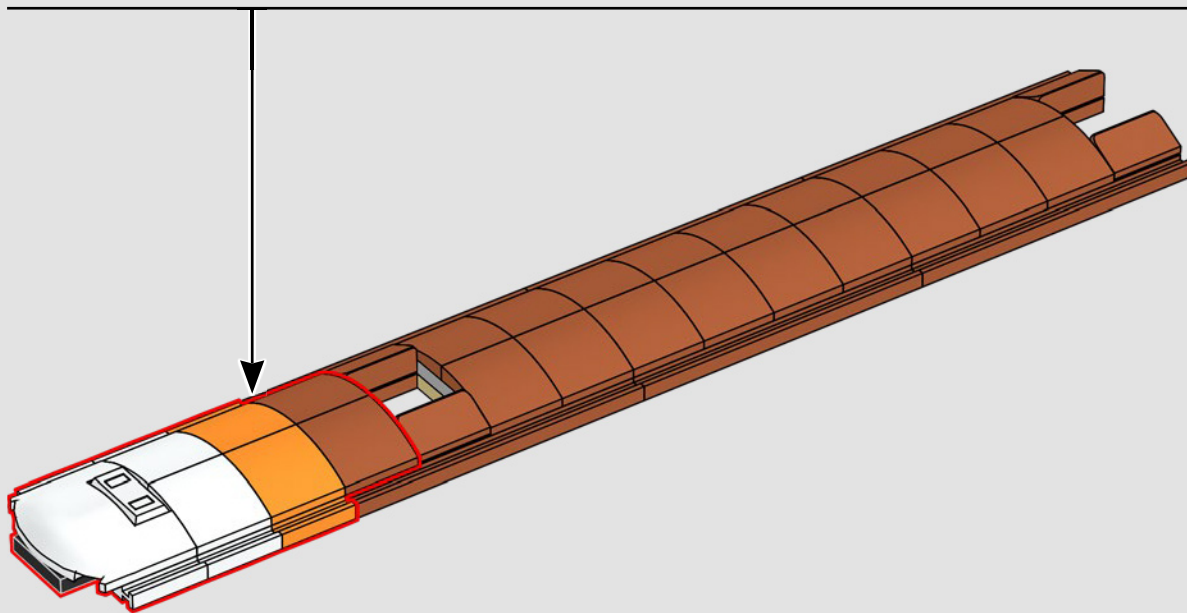
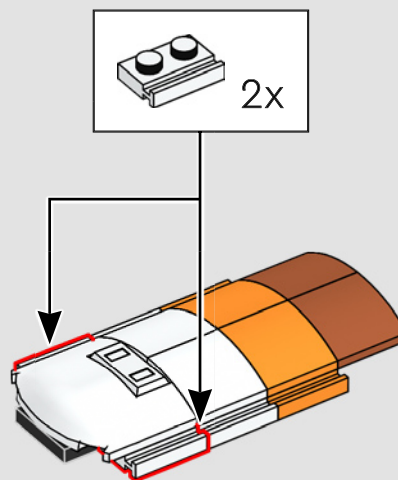
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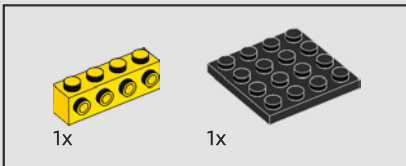
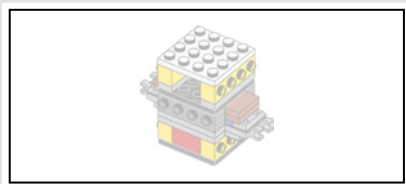


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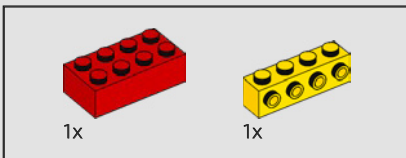
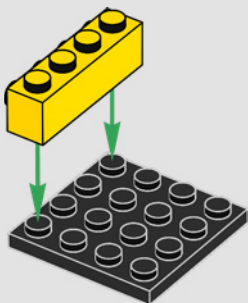


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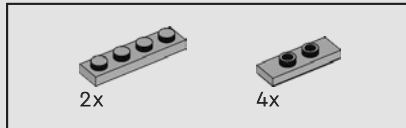
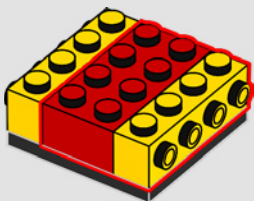




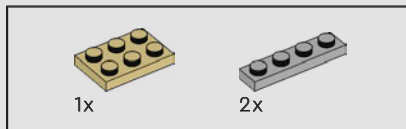
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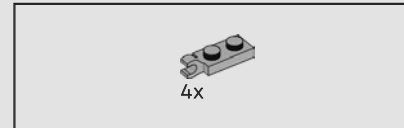
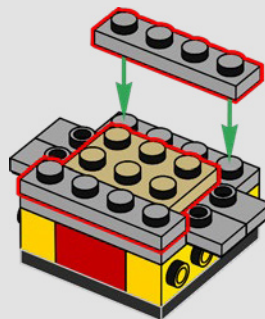
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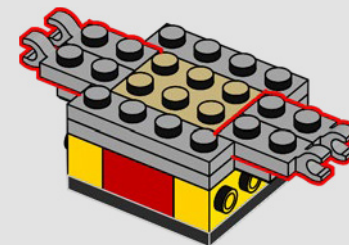
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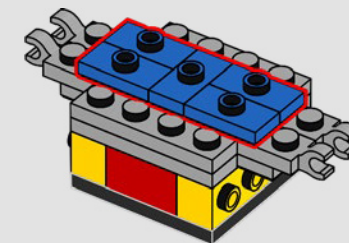
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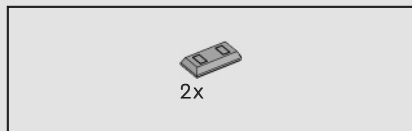


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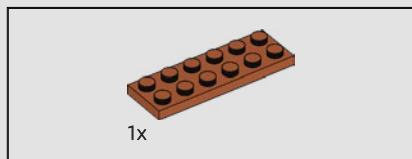
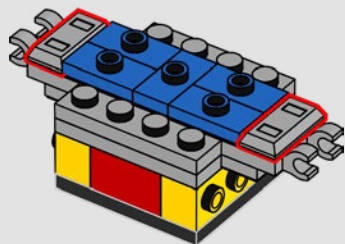


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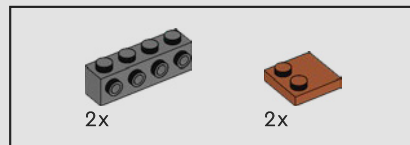
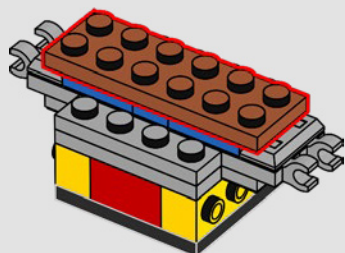




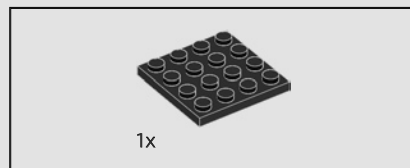
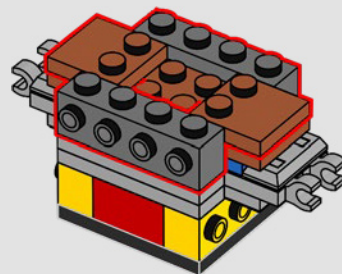
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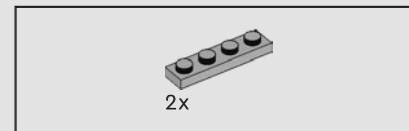
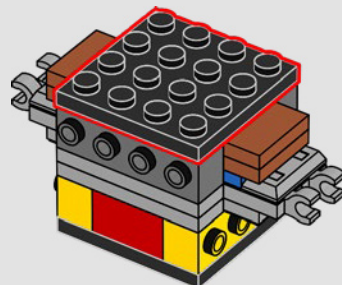
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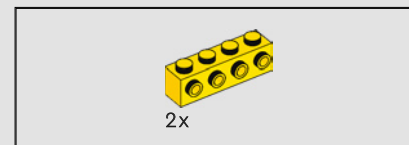
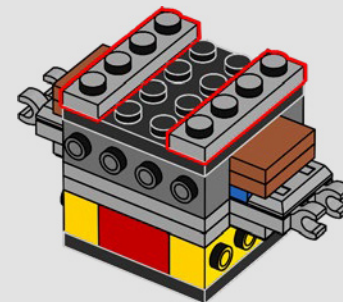
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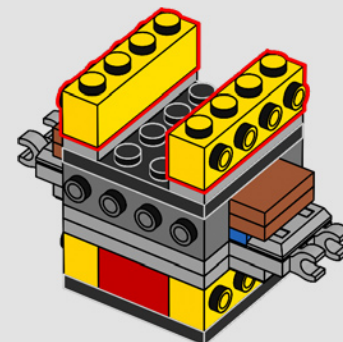
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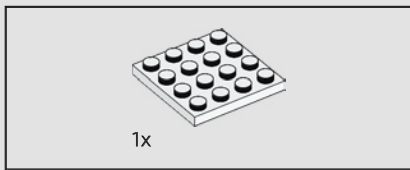


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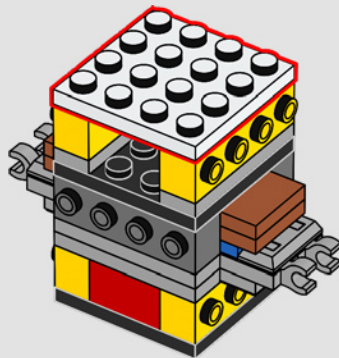


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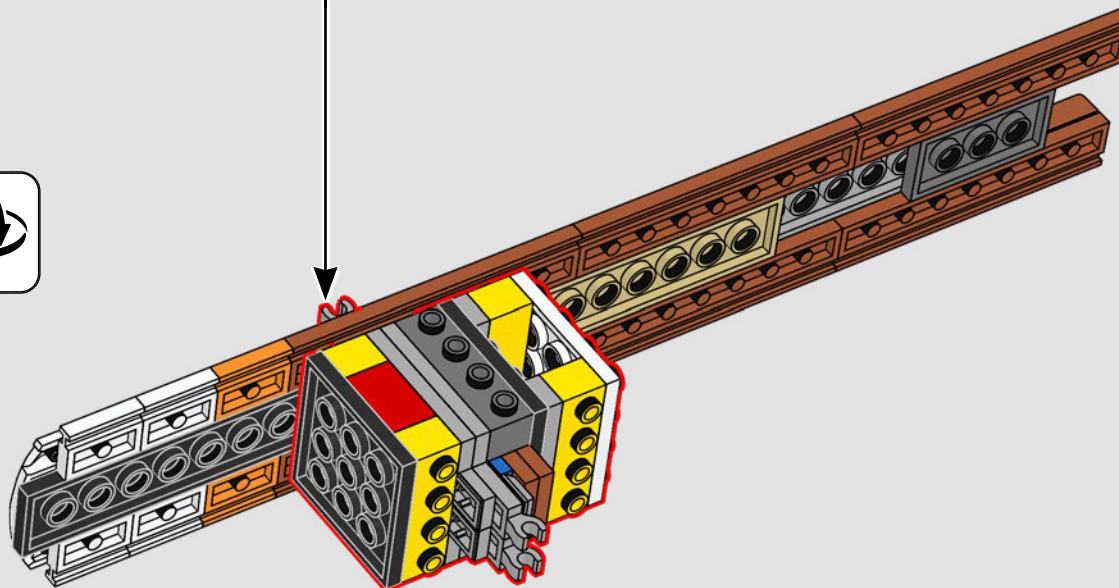


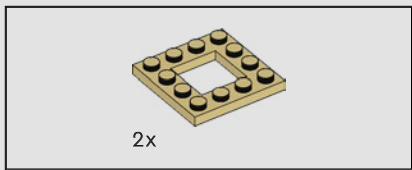


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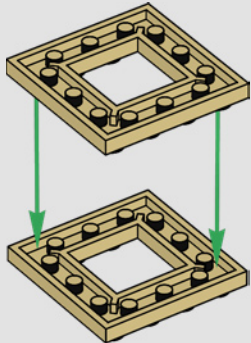


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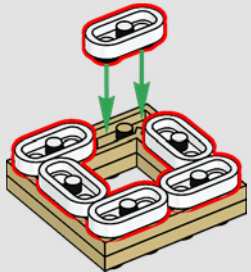




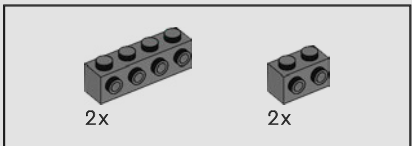
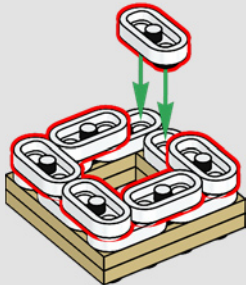
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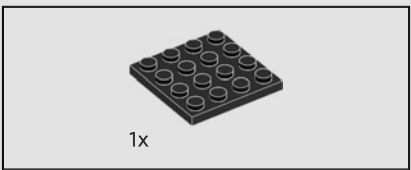
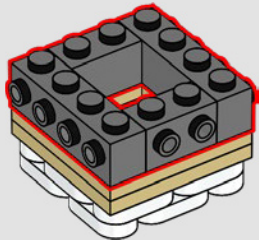
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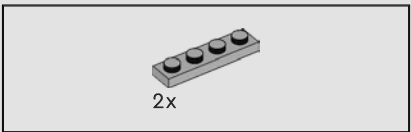
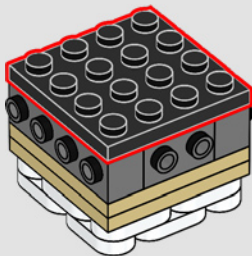
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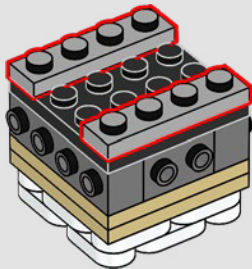
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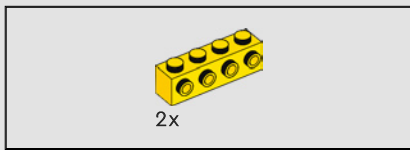


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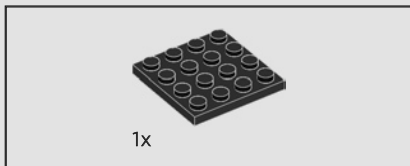
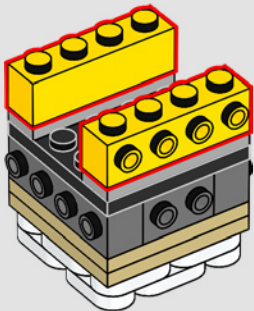


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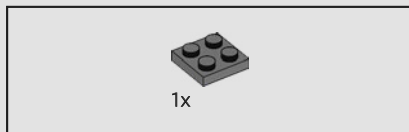
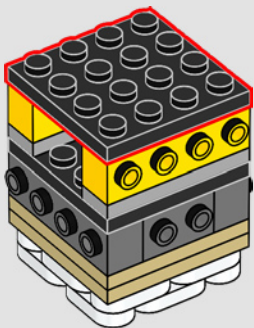




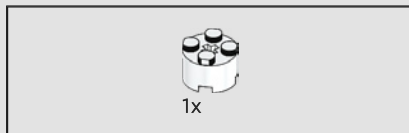
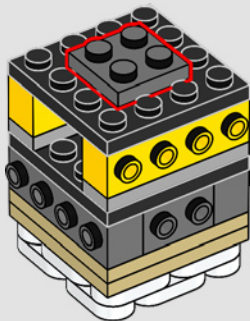
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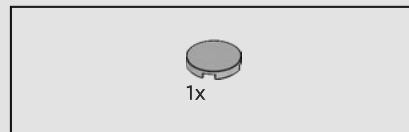
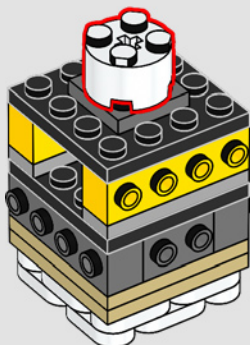
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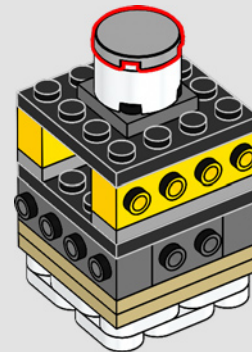
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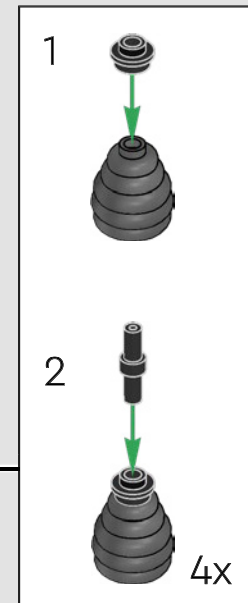
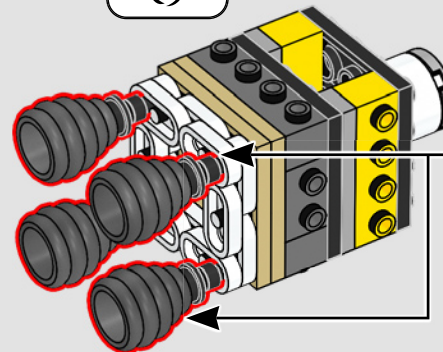
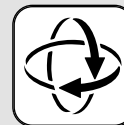
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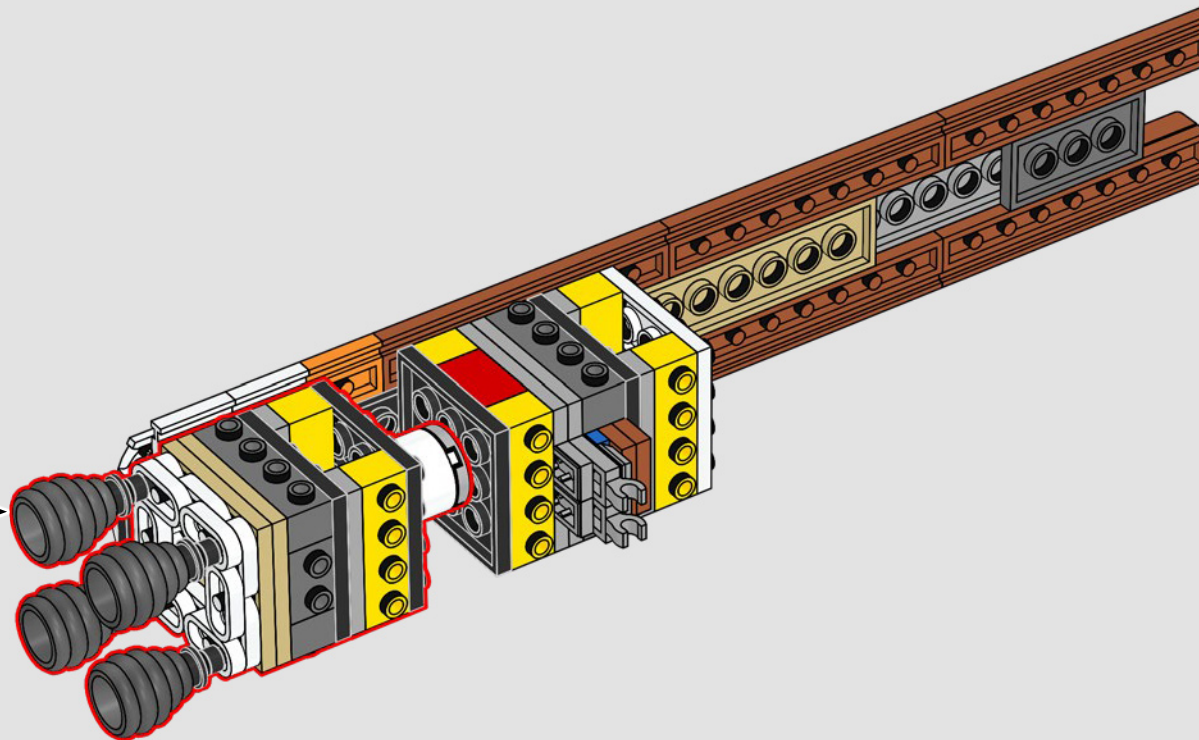


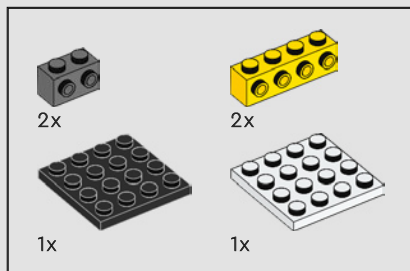
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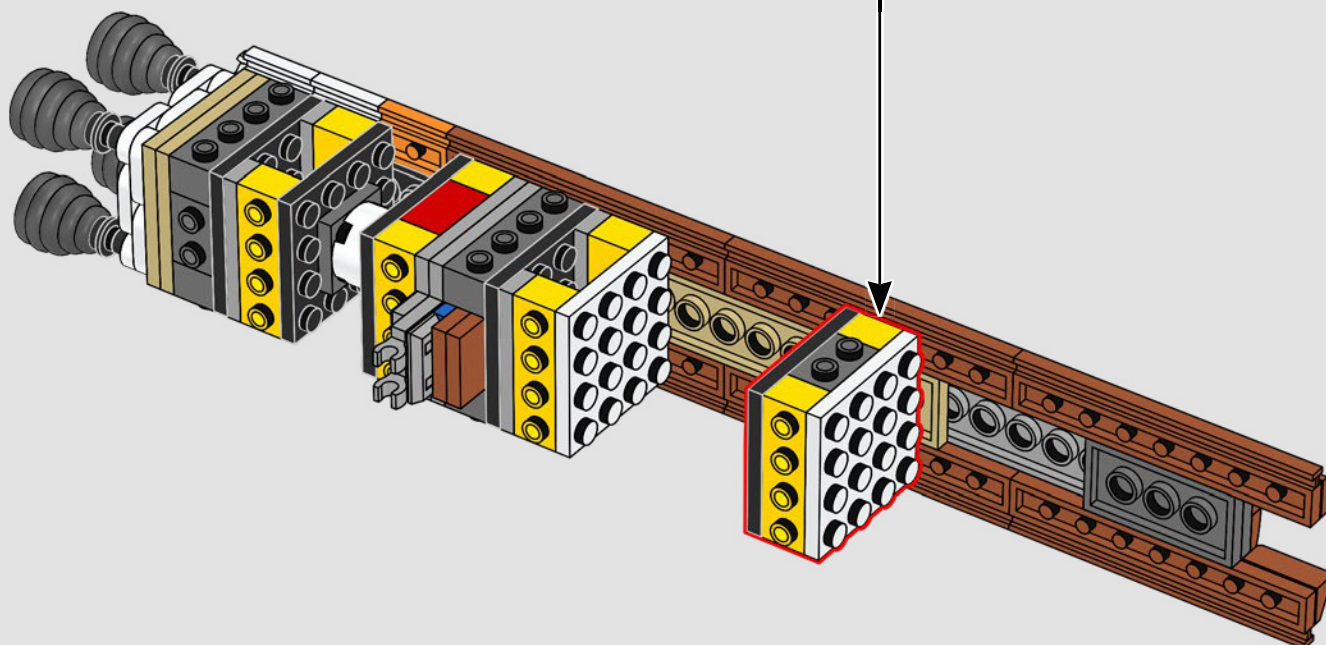
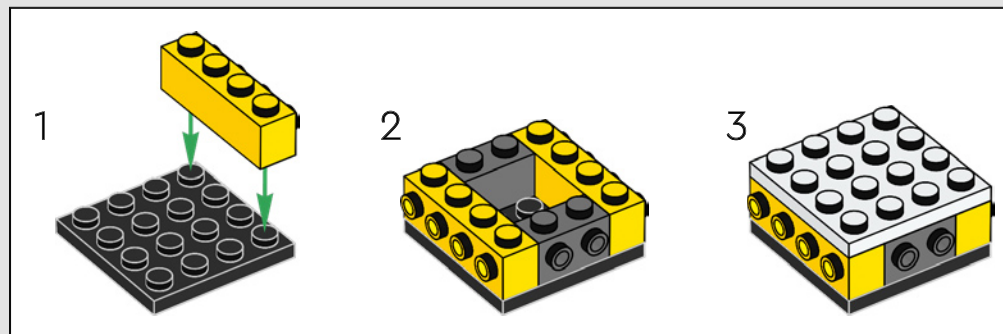
Das LEGO® Element, das für die Haupttriebwerksdüsen
verwendet wird, stellte ursprünglich einen Bienenstock dar,
wird aber als „Mini-Mütze Nr. 54“ bezeichnet.

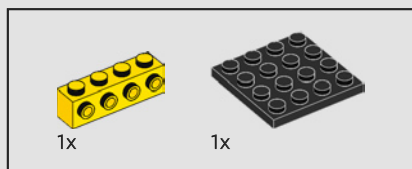
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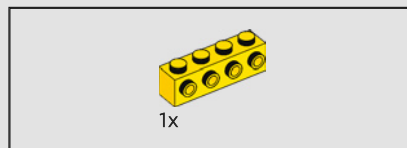
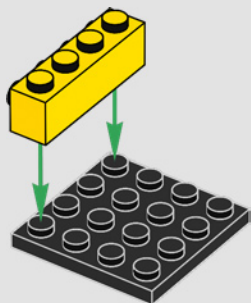


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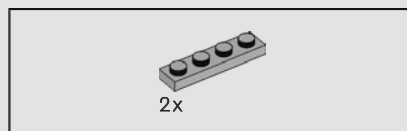
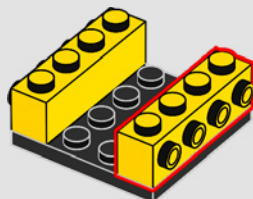




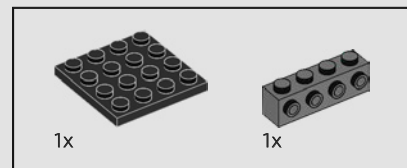
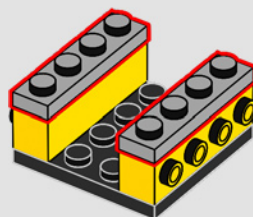
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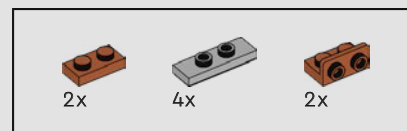
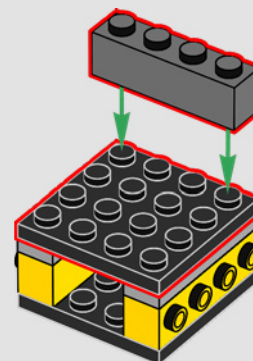
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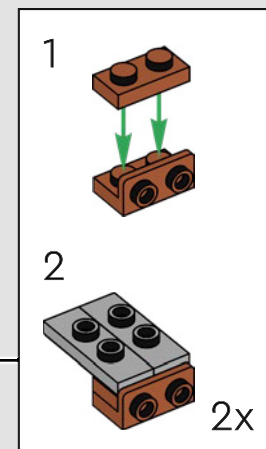
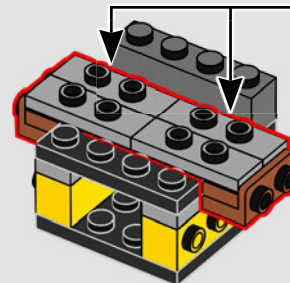
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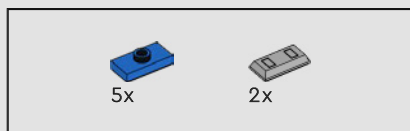
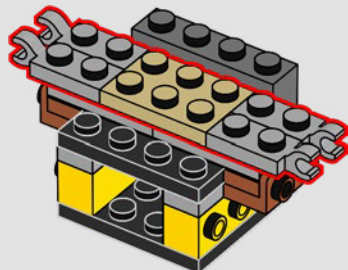


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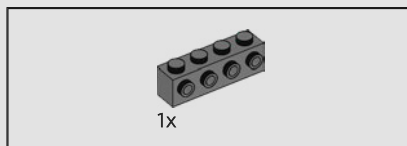
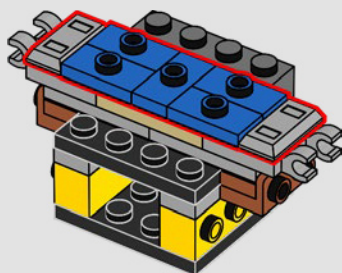




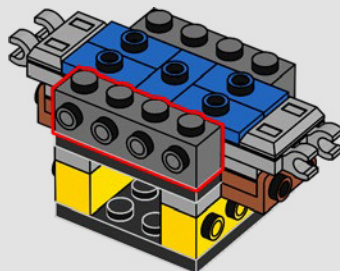
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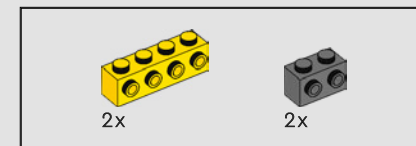
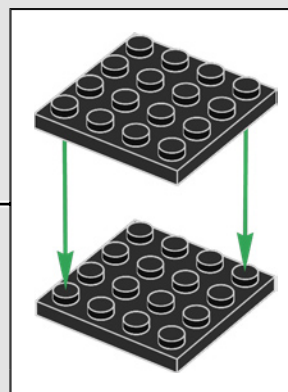
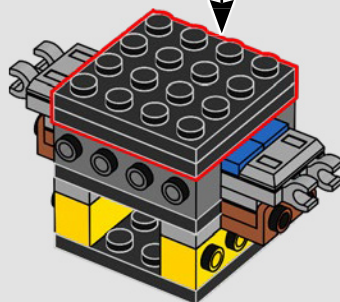
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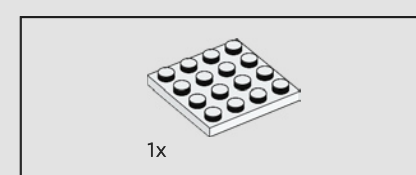
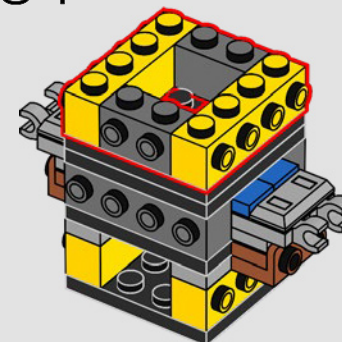
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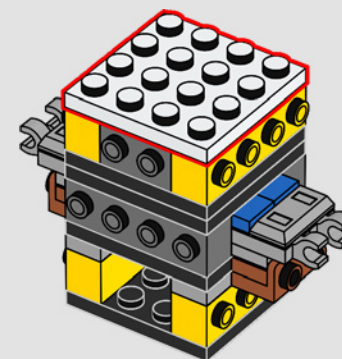
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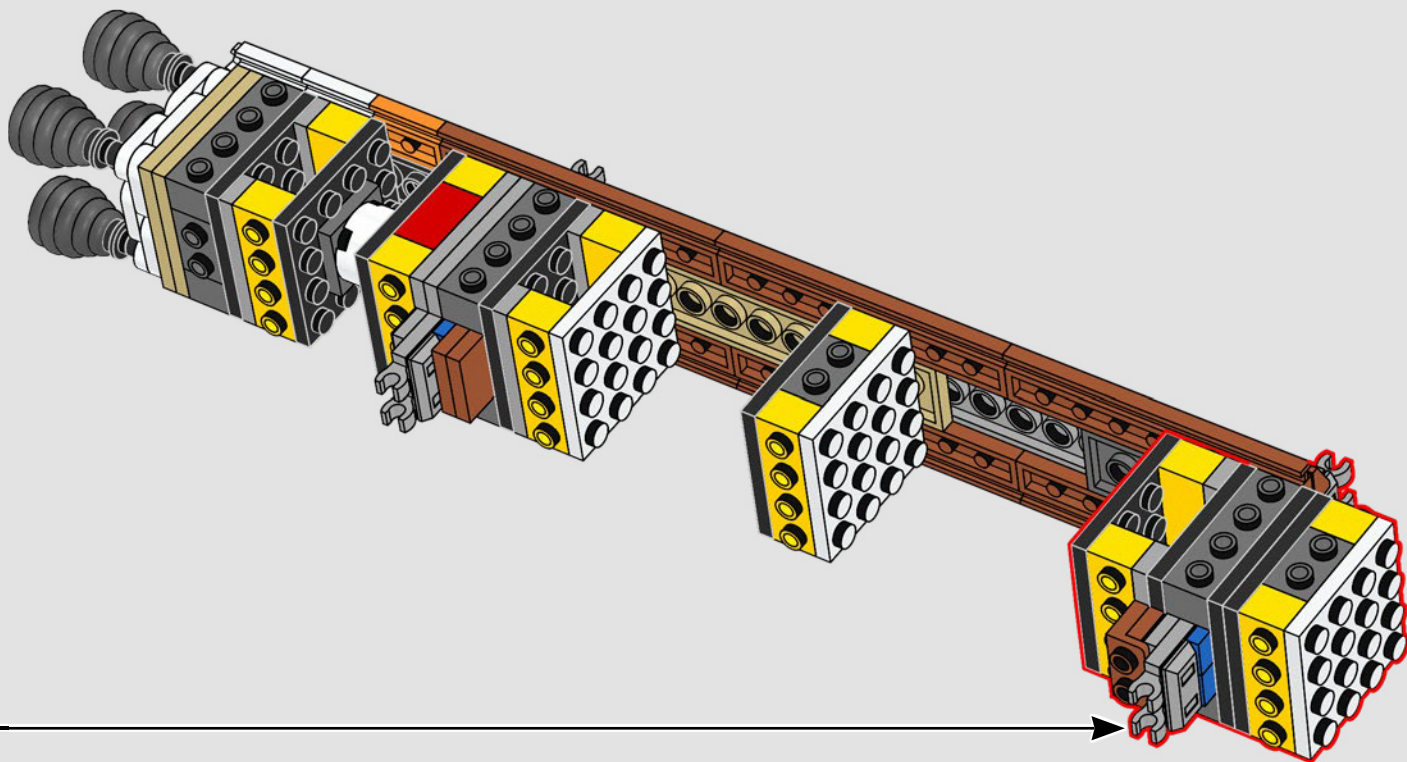
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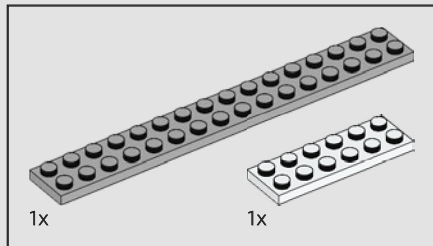
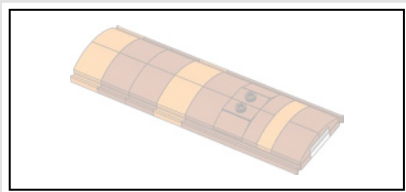


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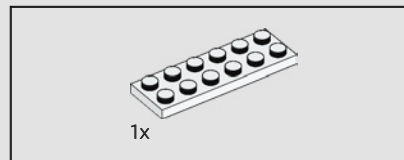
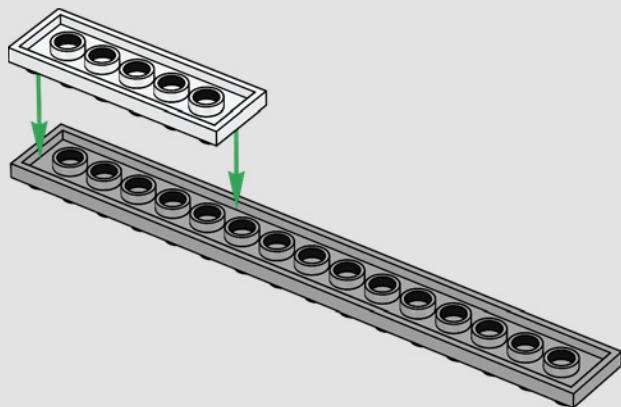


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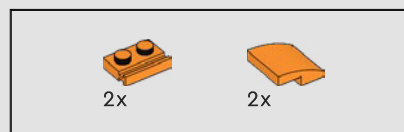
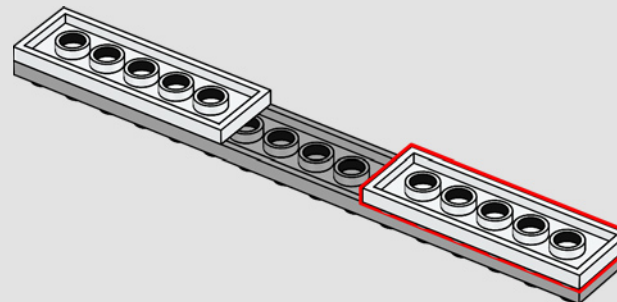




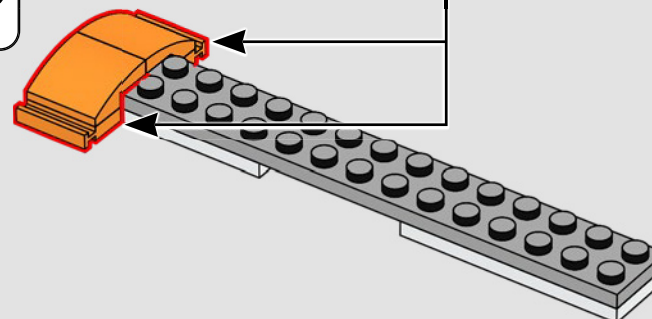
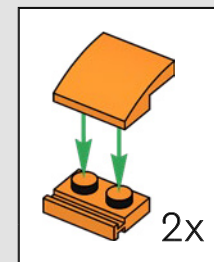
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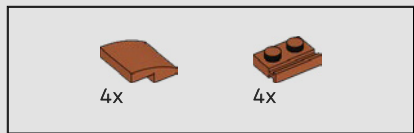


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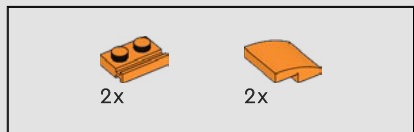
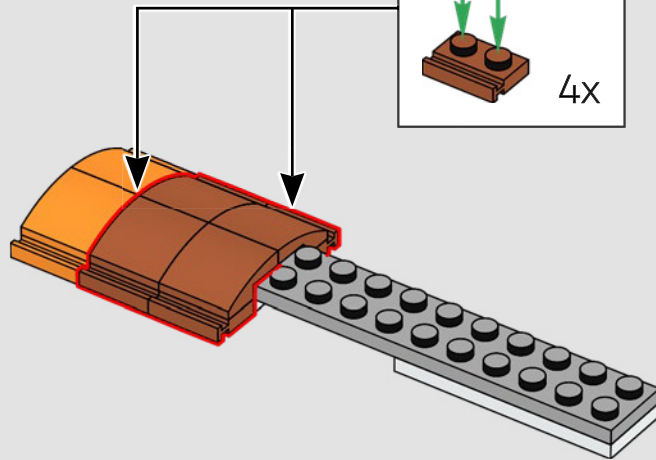
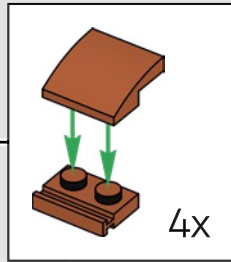


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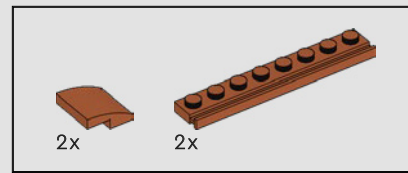
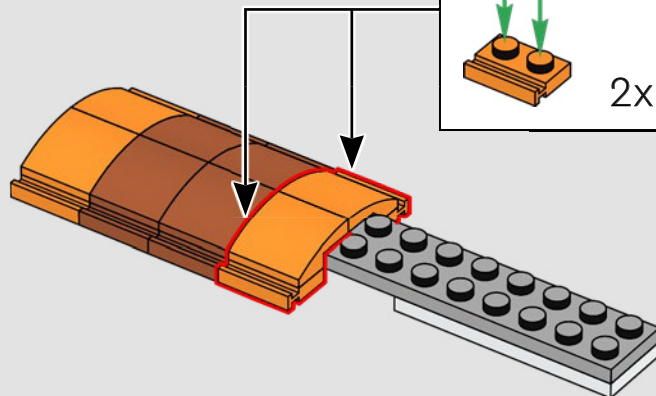
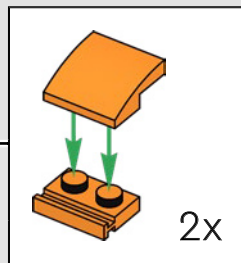




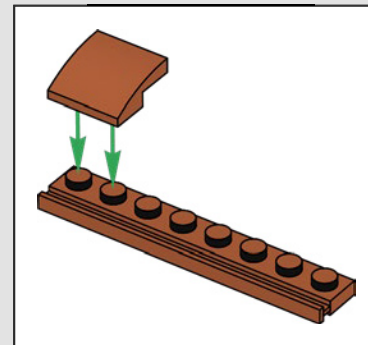
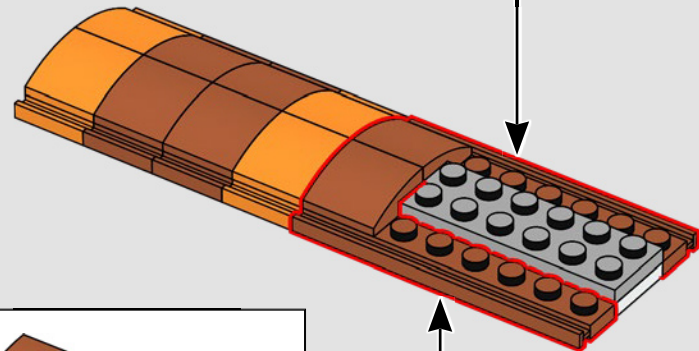
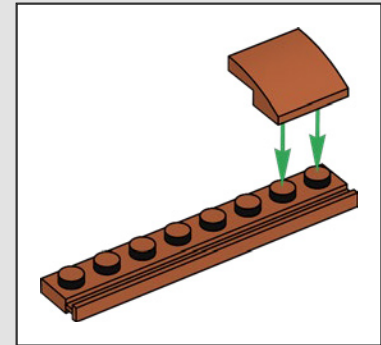
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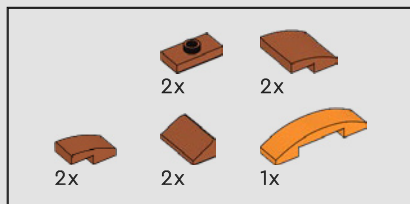


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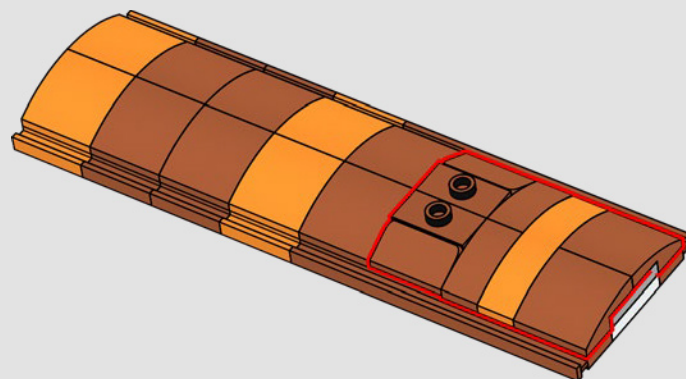


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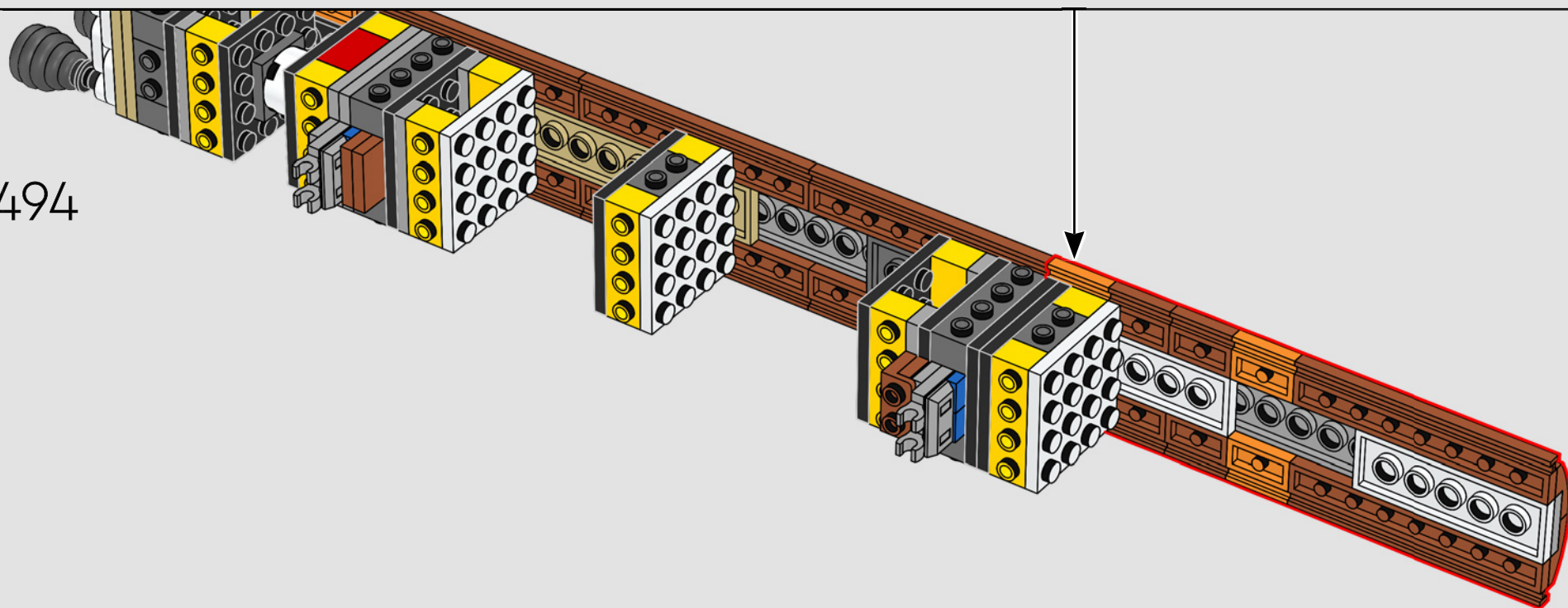


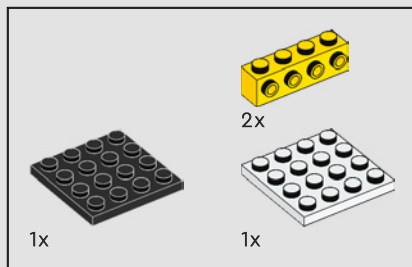


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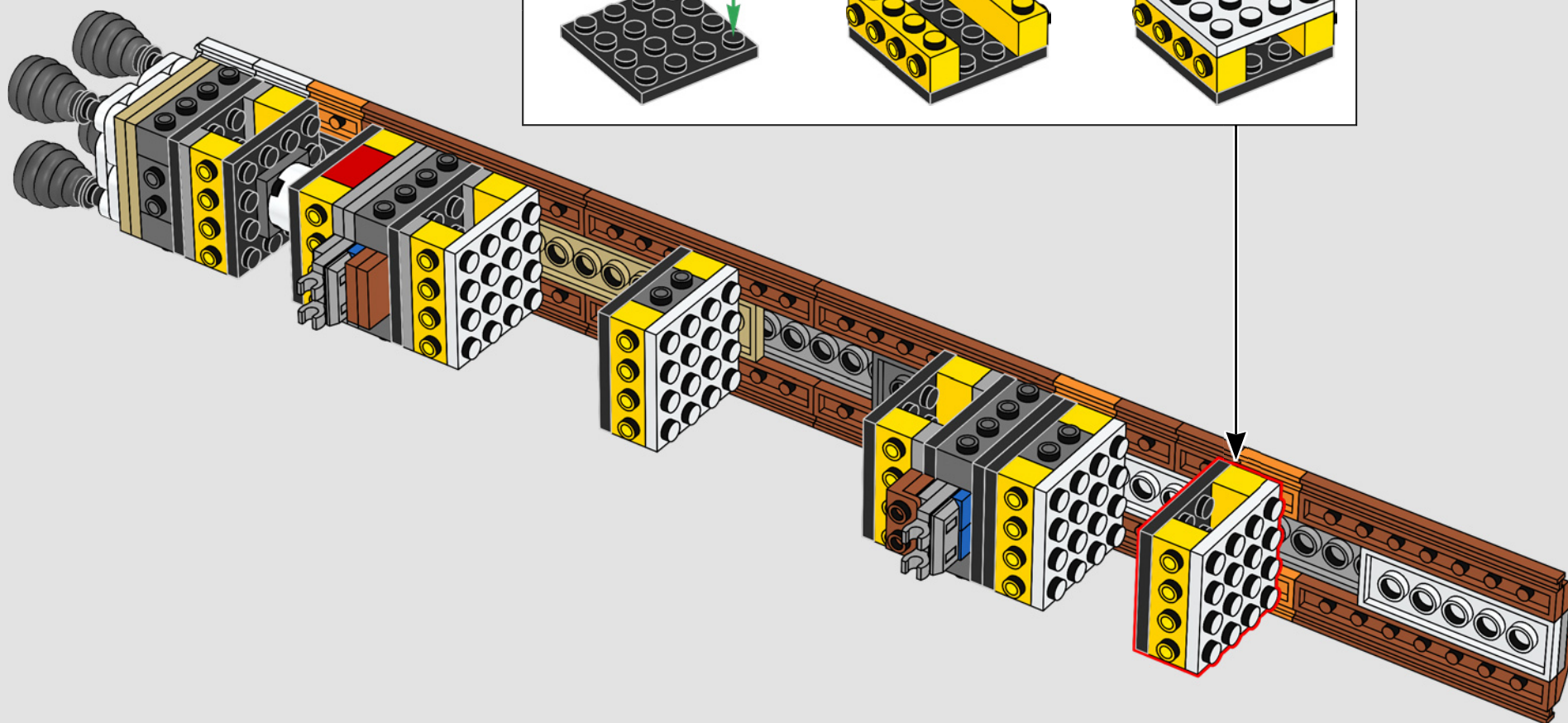
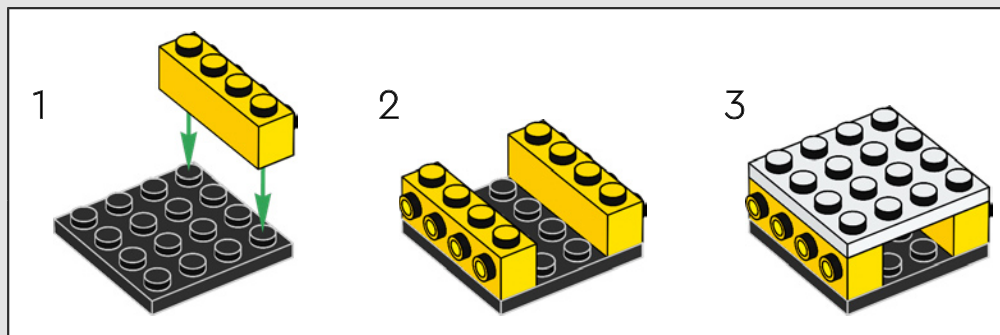


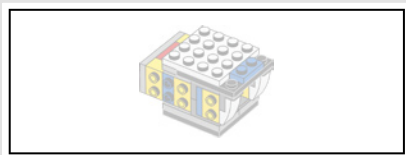
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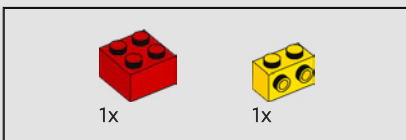
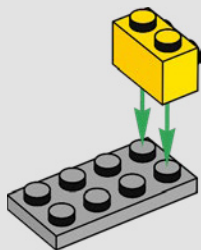


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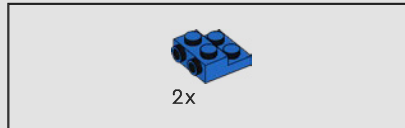
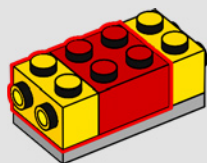




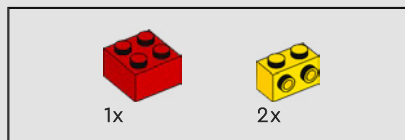
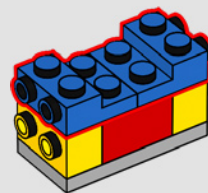
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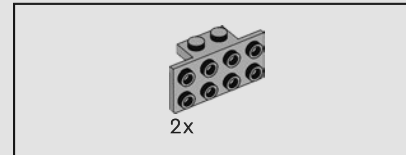
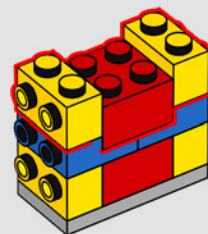
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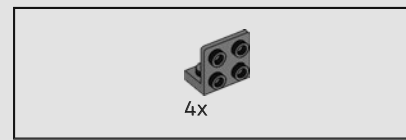
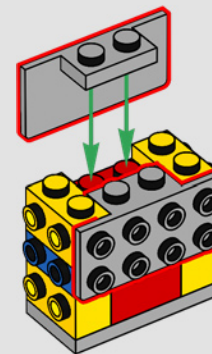
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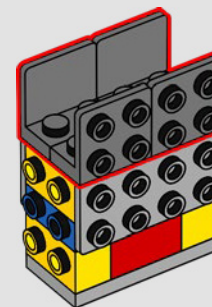
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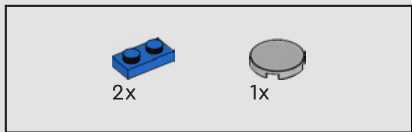


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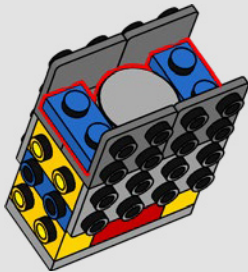


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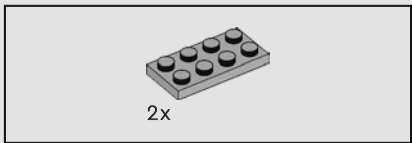
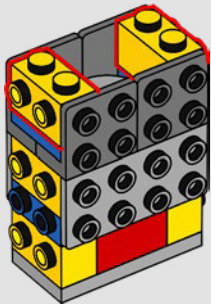




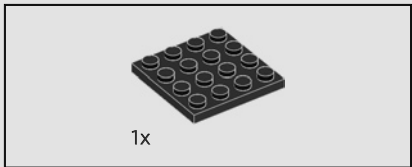
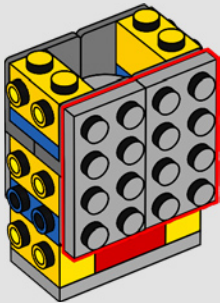
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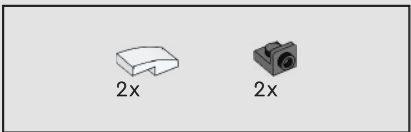
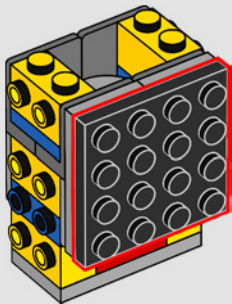
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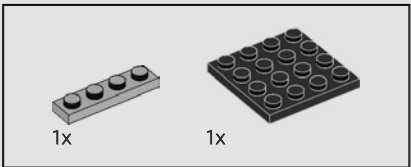
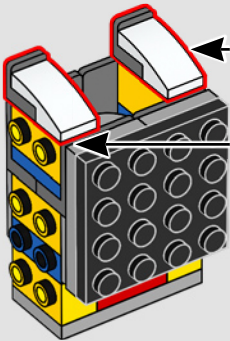
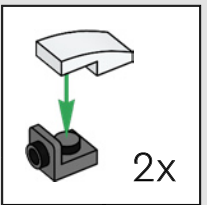
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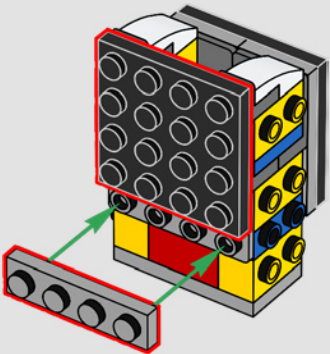
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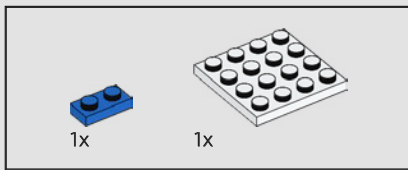


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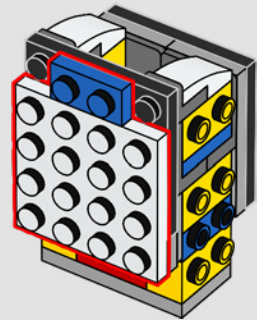


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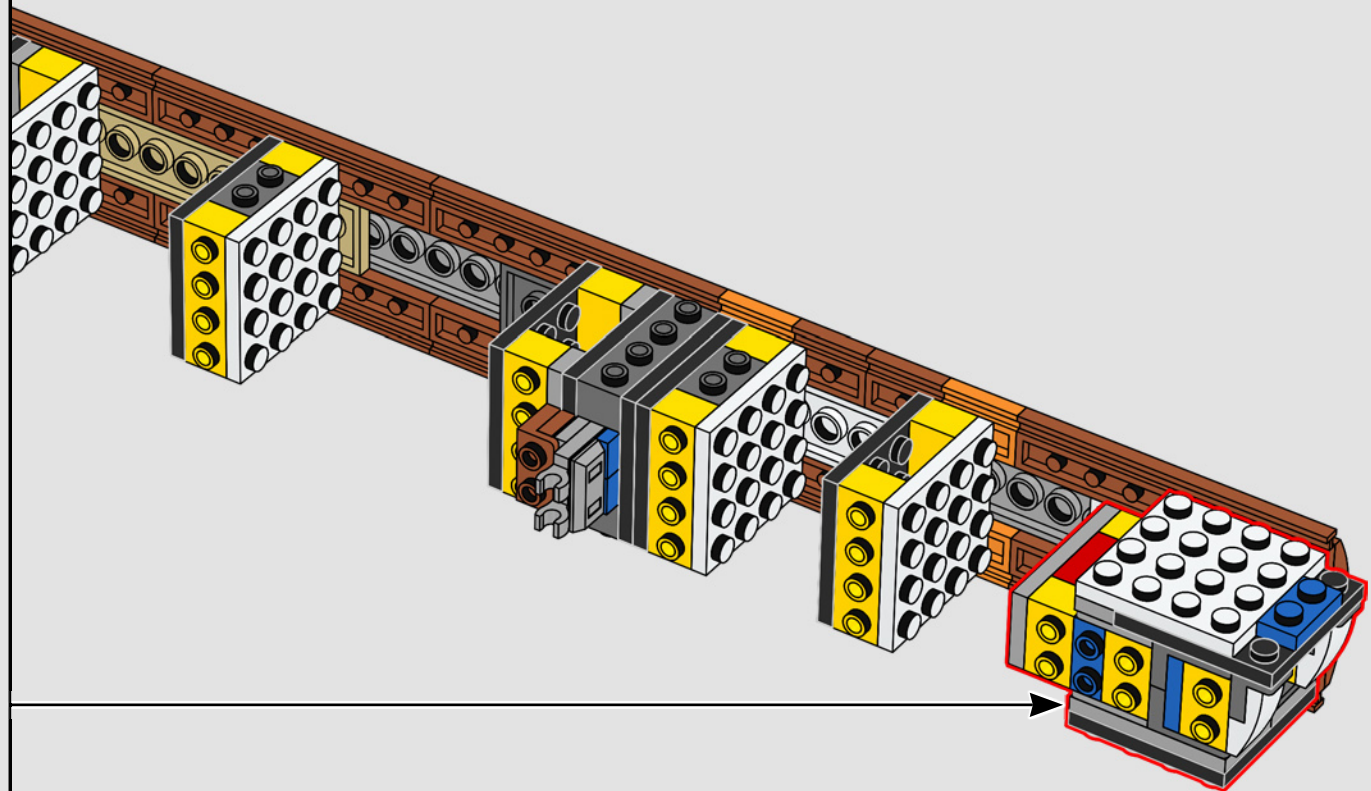




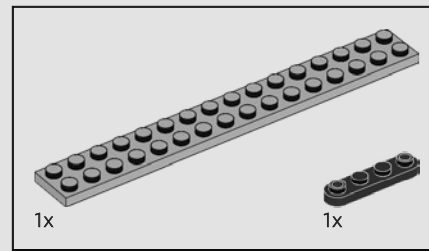
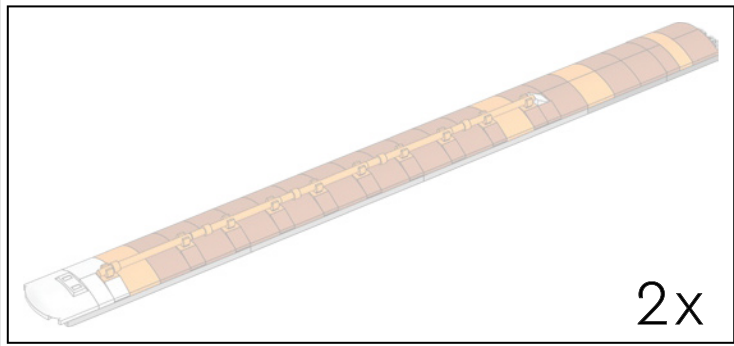
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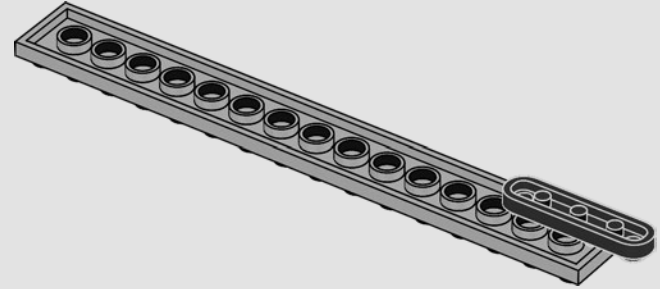
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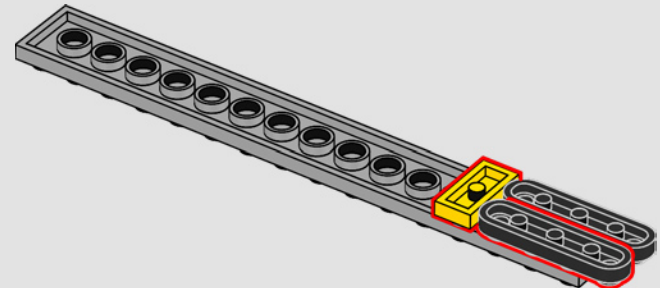
Die Hauptstufe wurde eigens für das SLS entwickelt.
 Sie beherbergt Treibstofftanks, Bordelektronik und die
 dazugehörige Ausrüstung. An den vier RS-25-Triebwerken
 befinden sich Befestigungspunkte für die Booster.

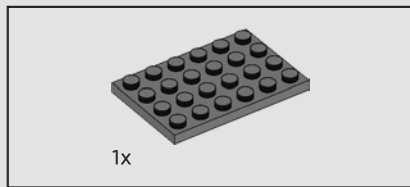


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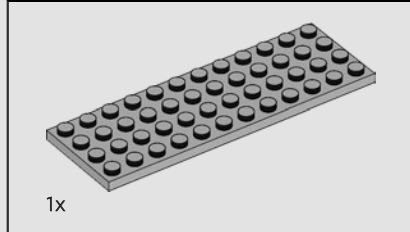
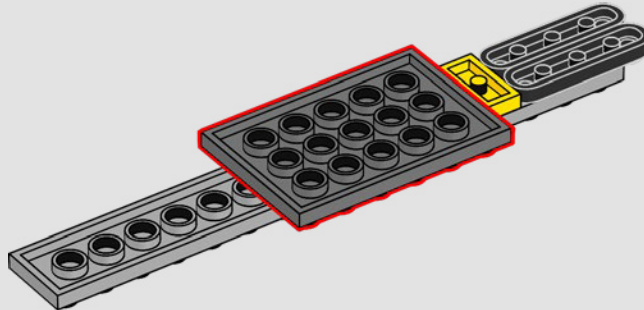


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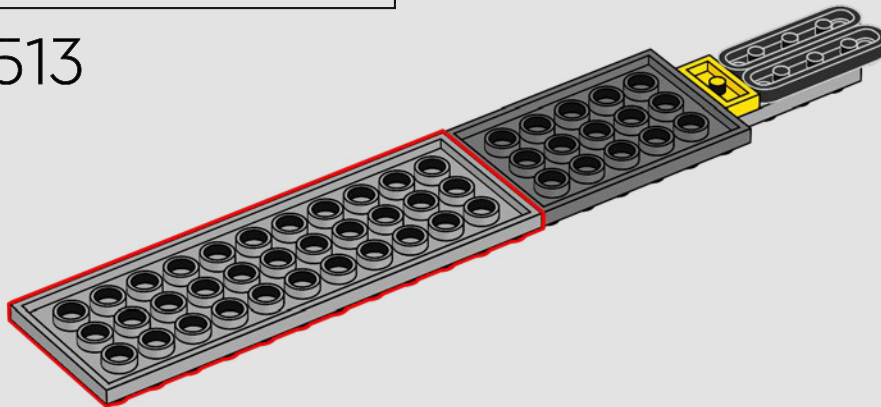




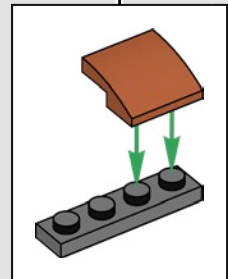
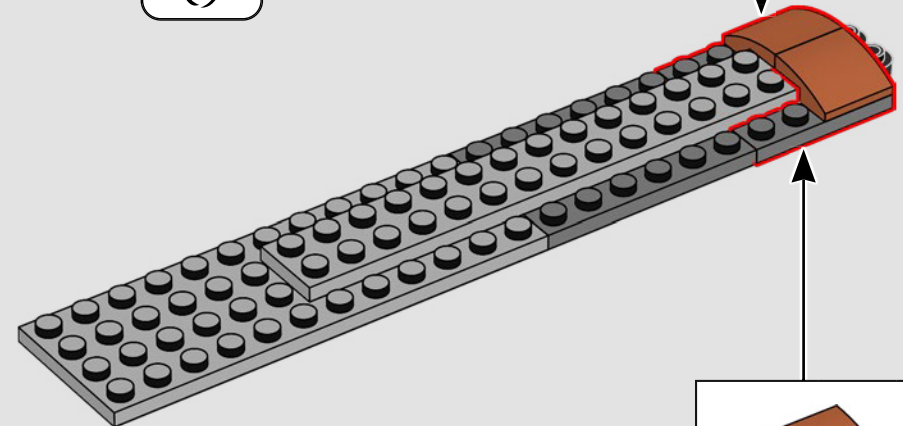
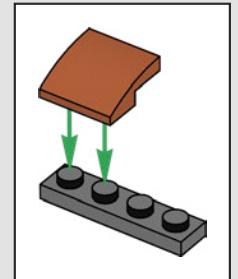
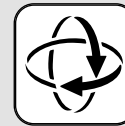
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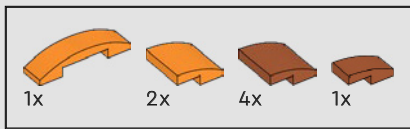


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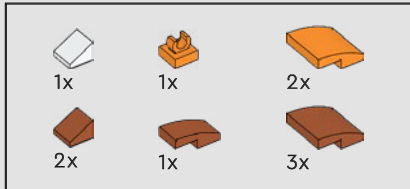
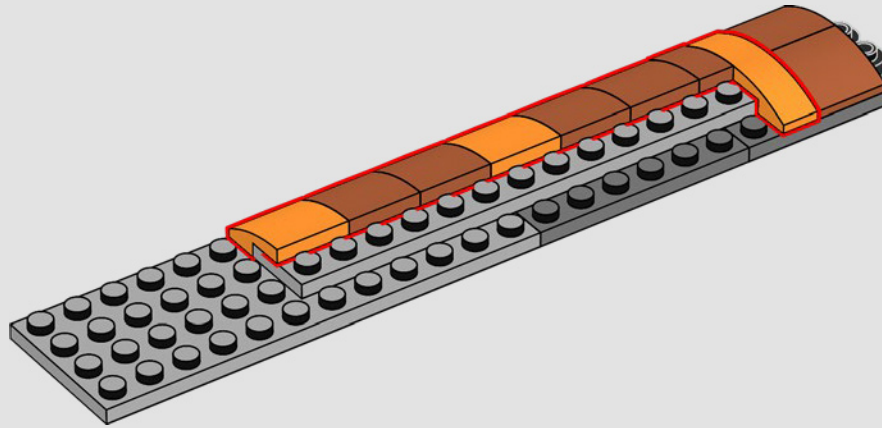


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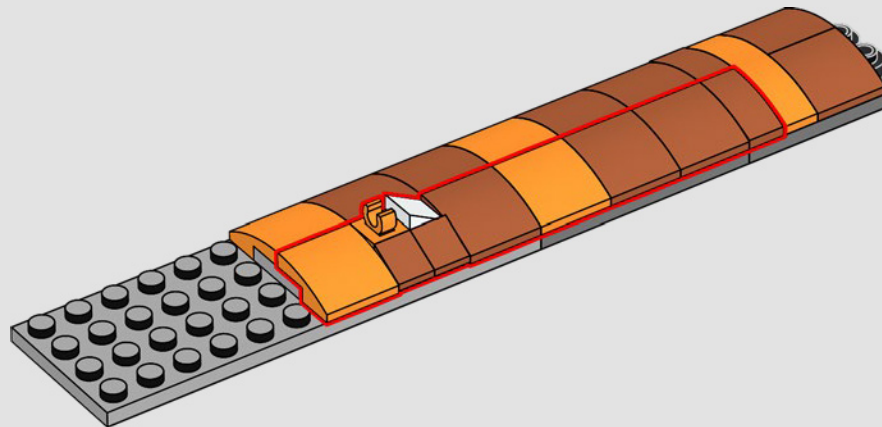


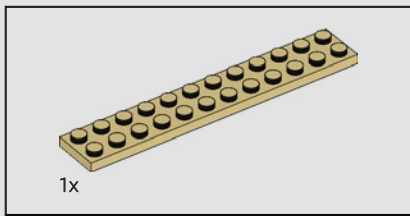


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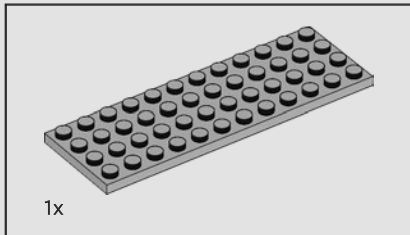
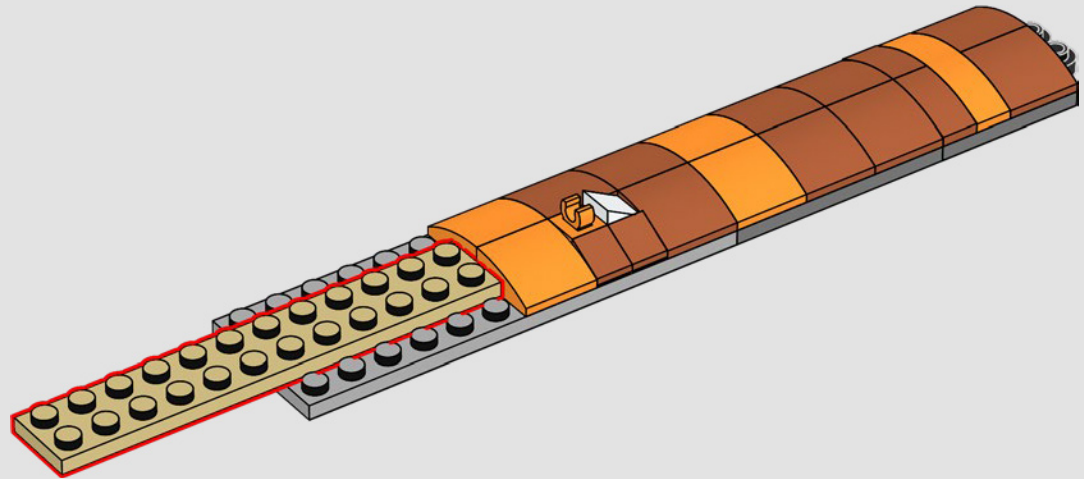


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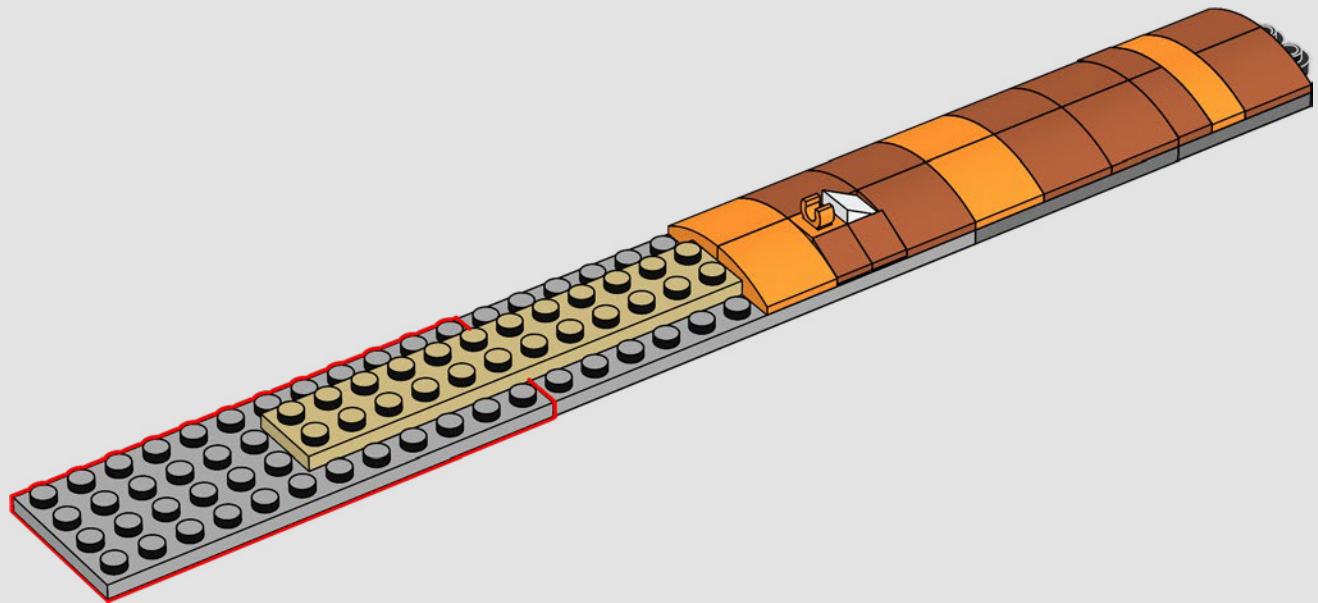




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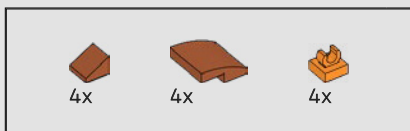
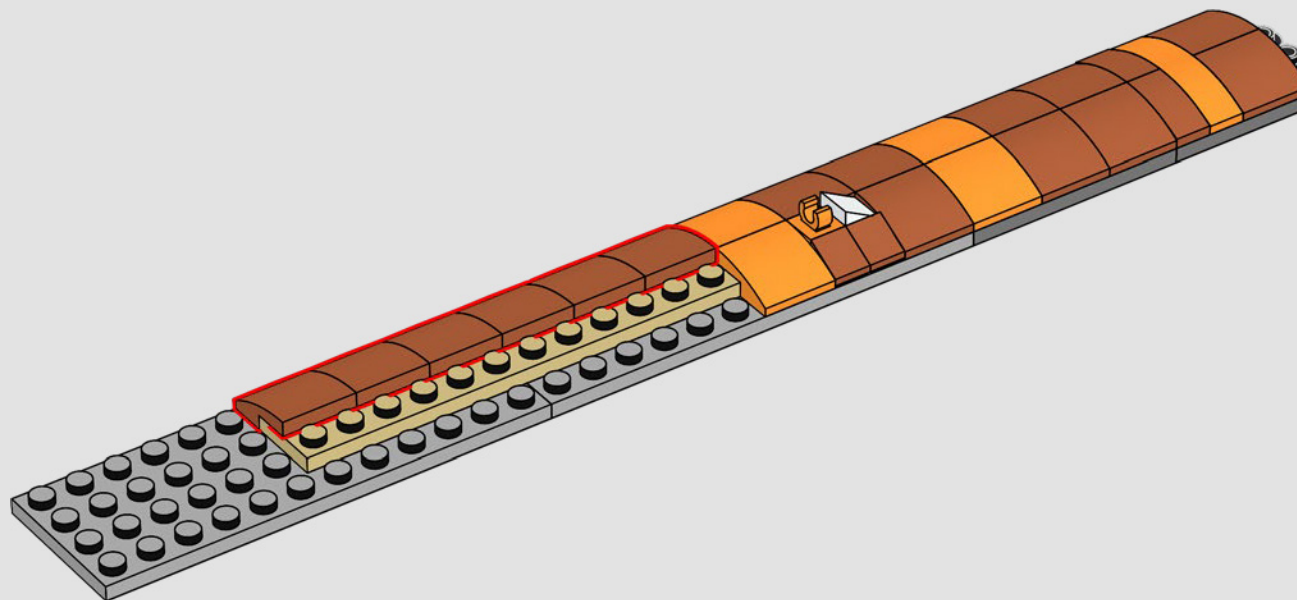


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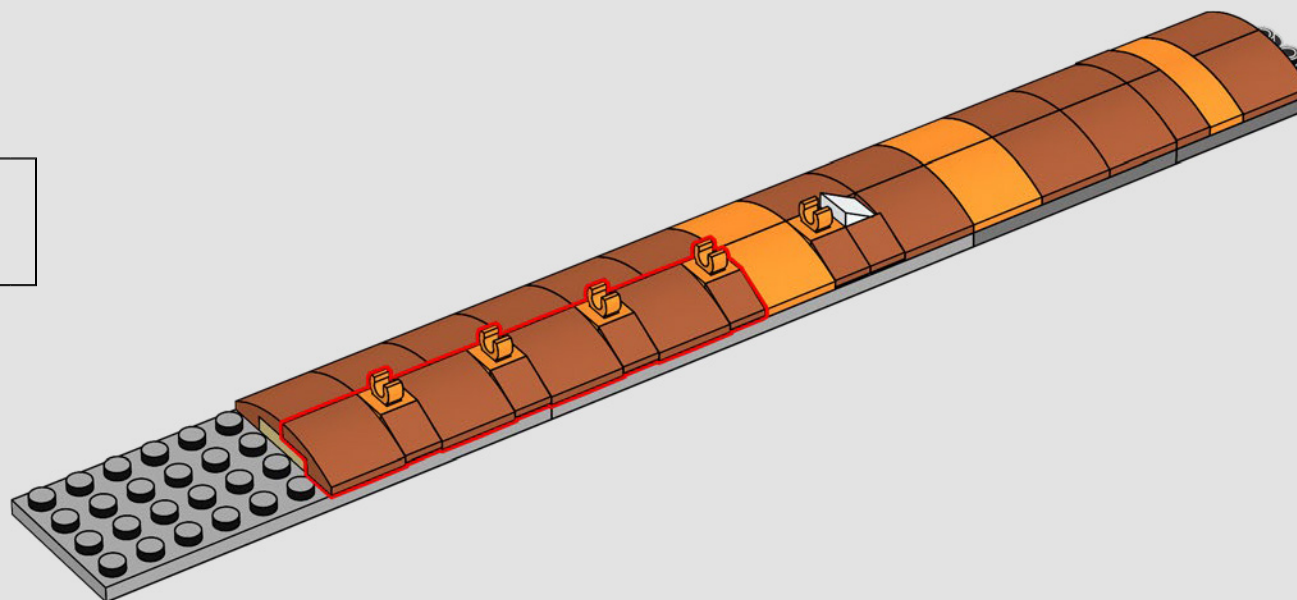


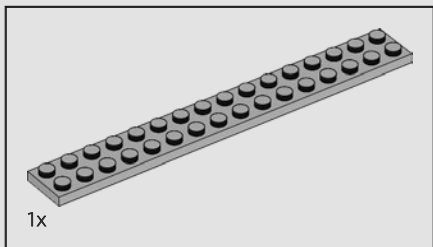


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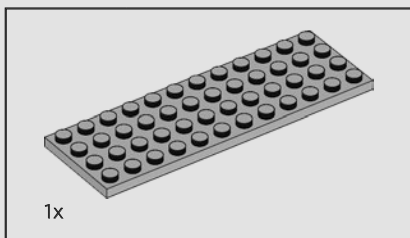
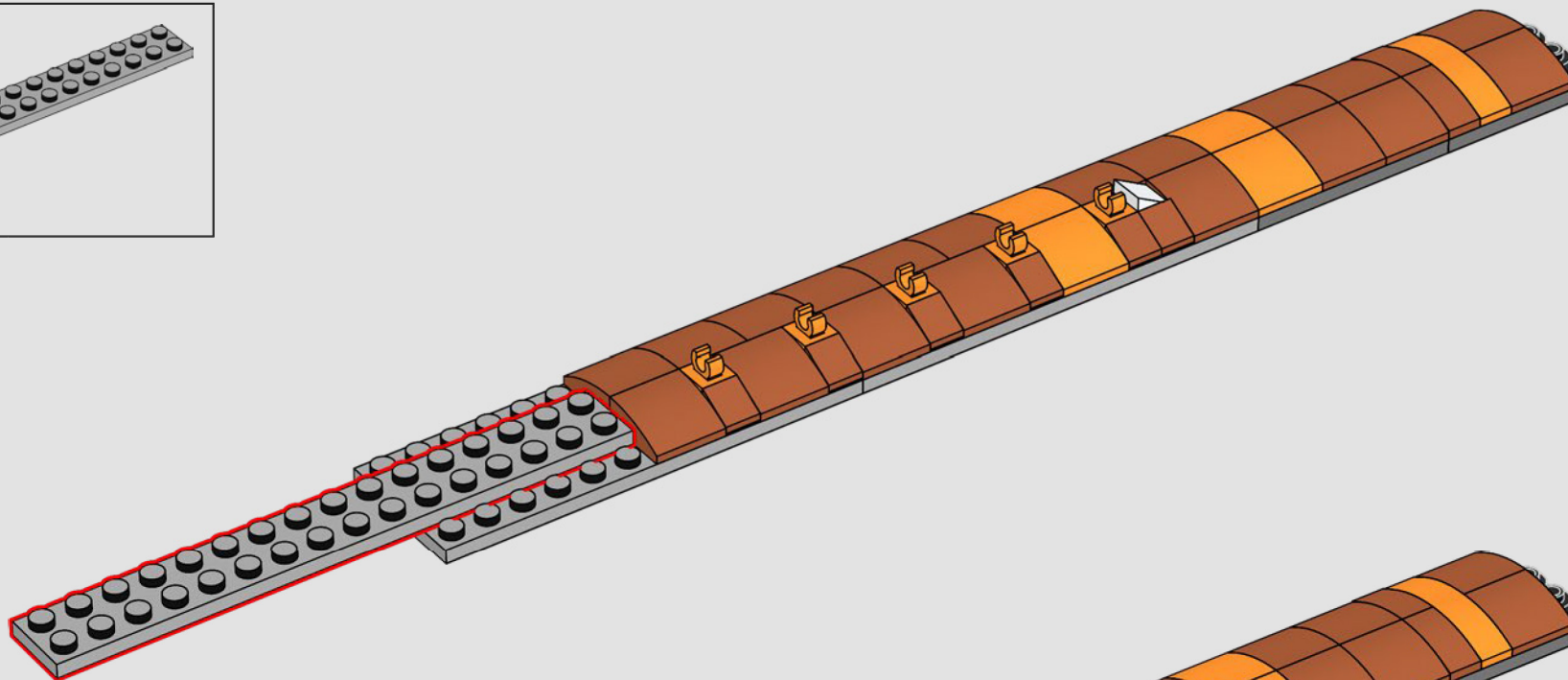


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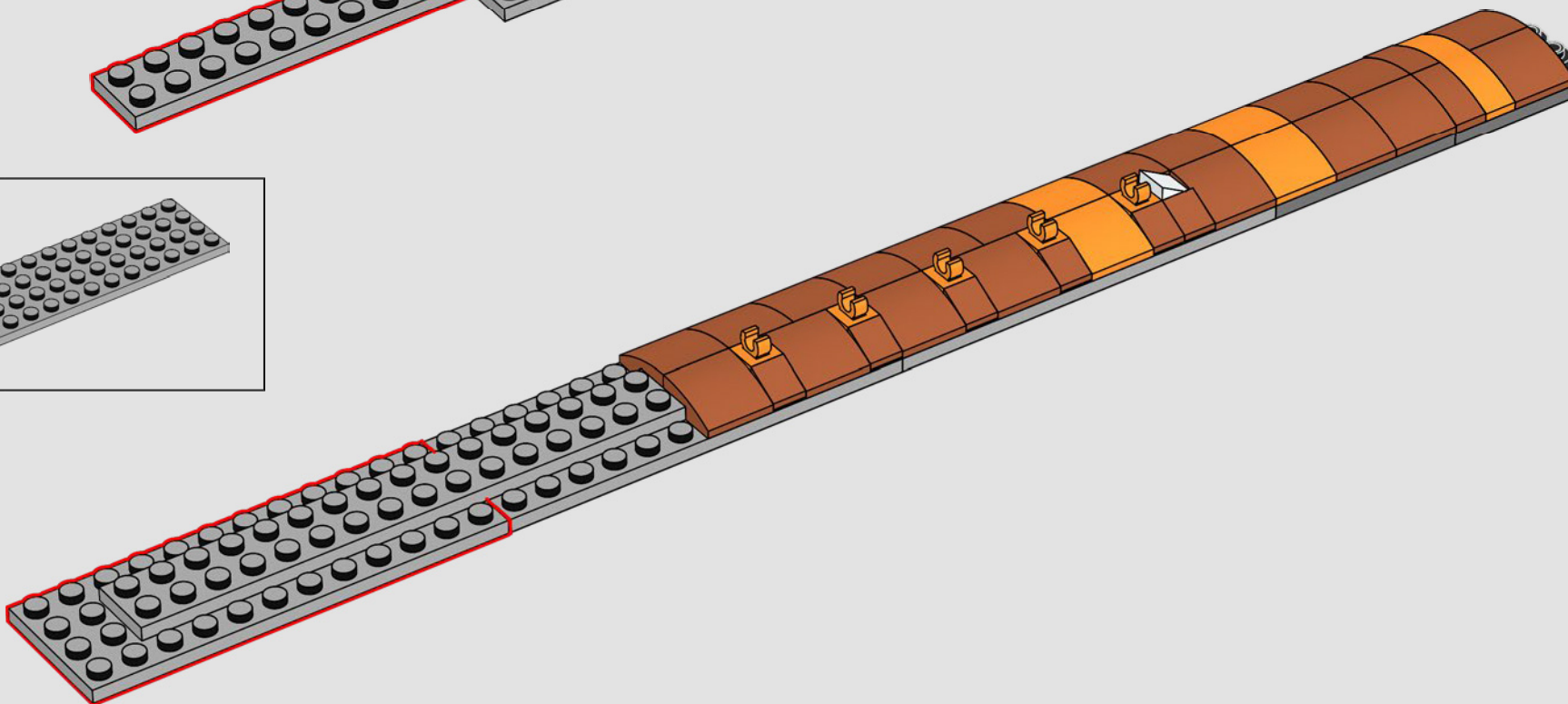


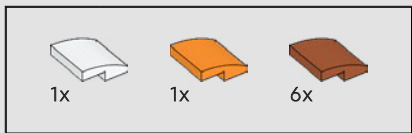


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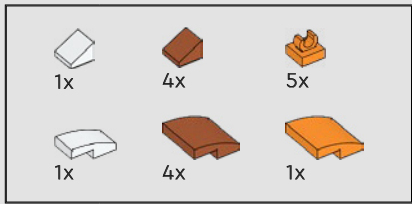
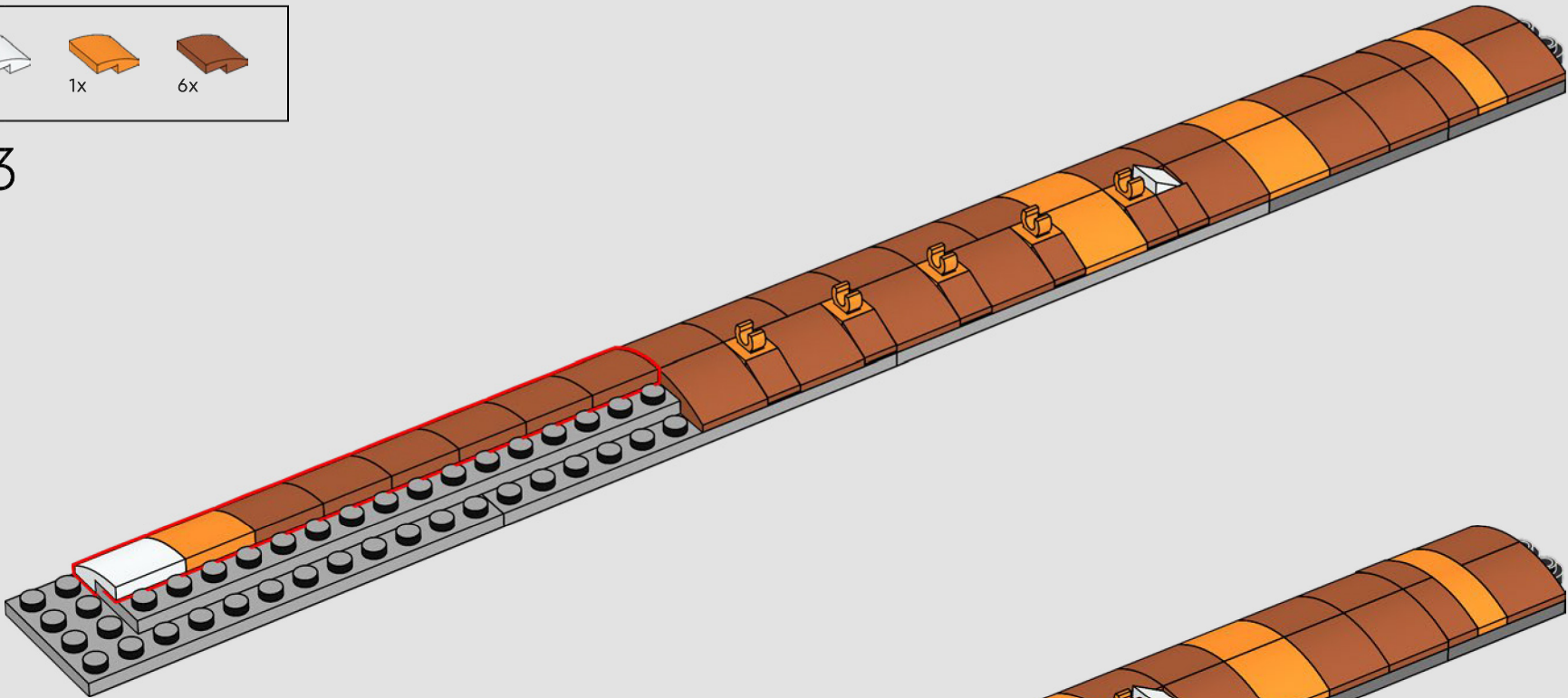


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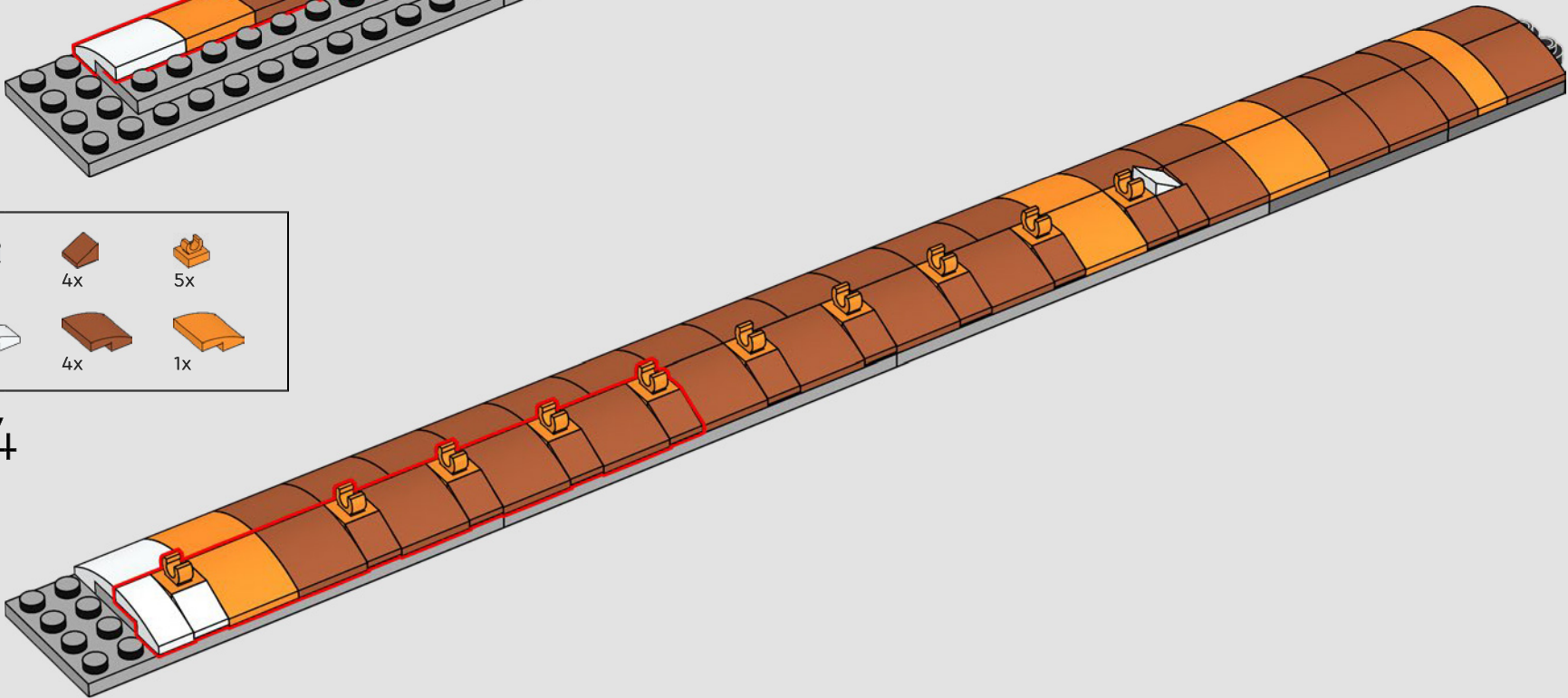




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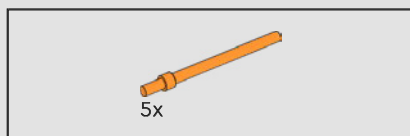
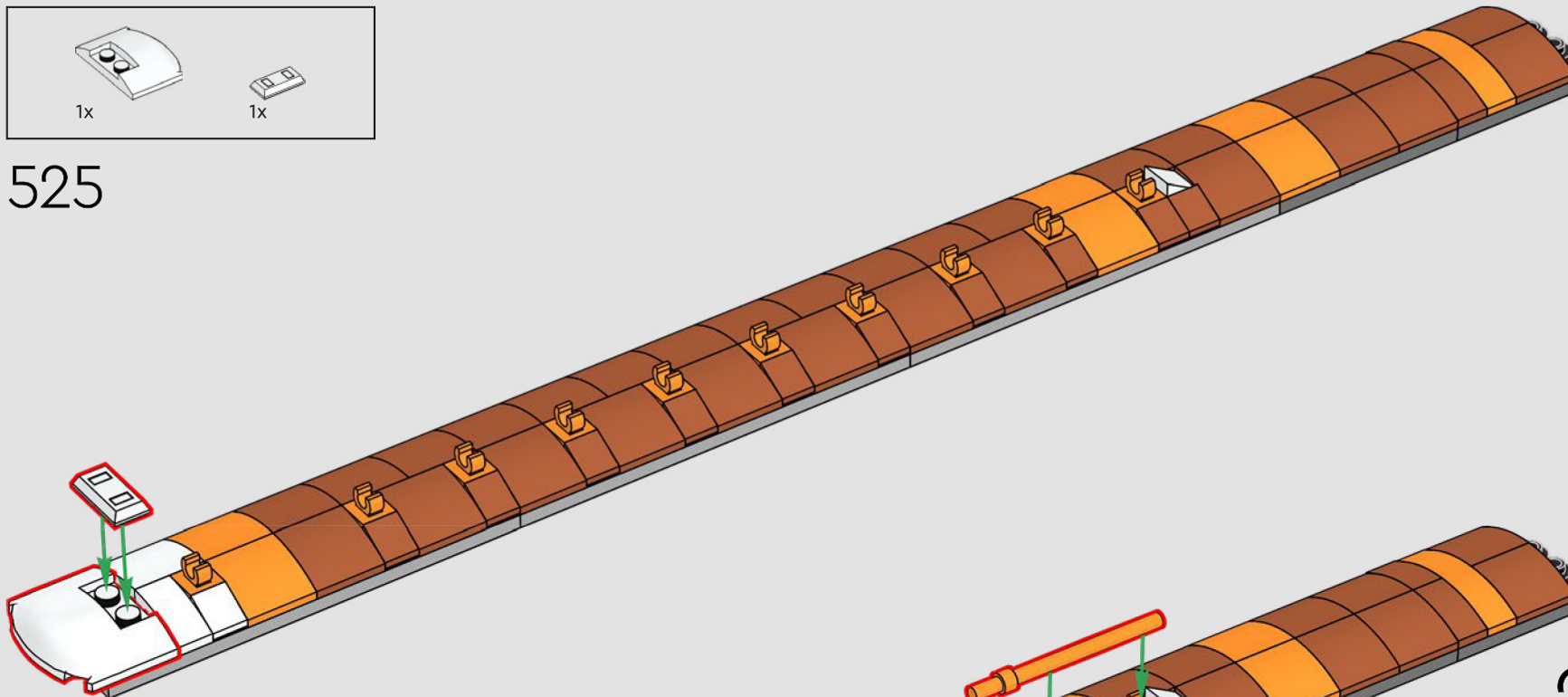


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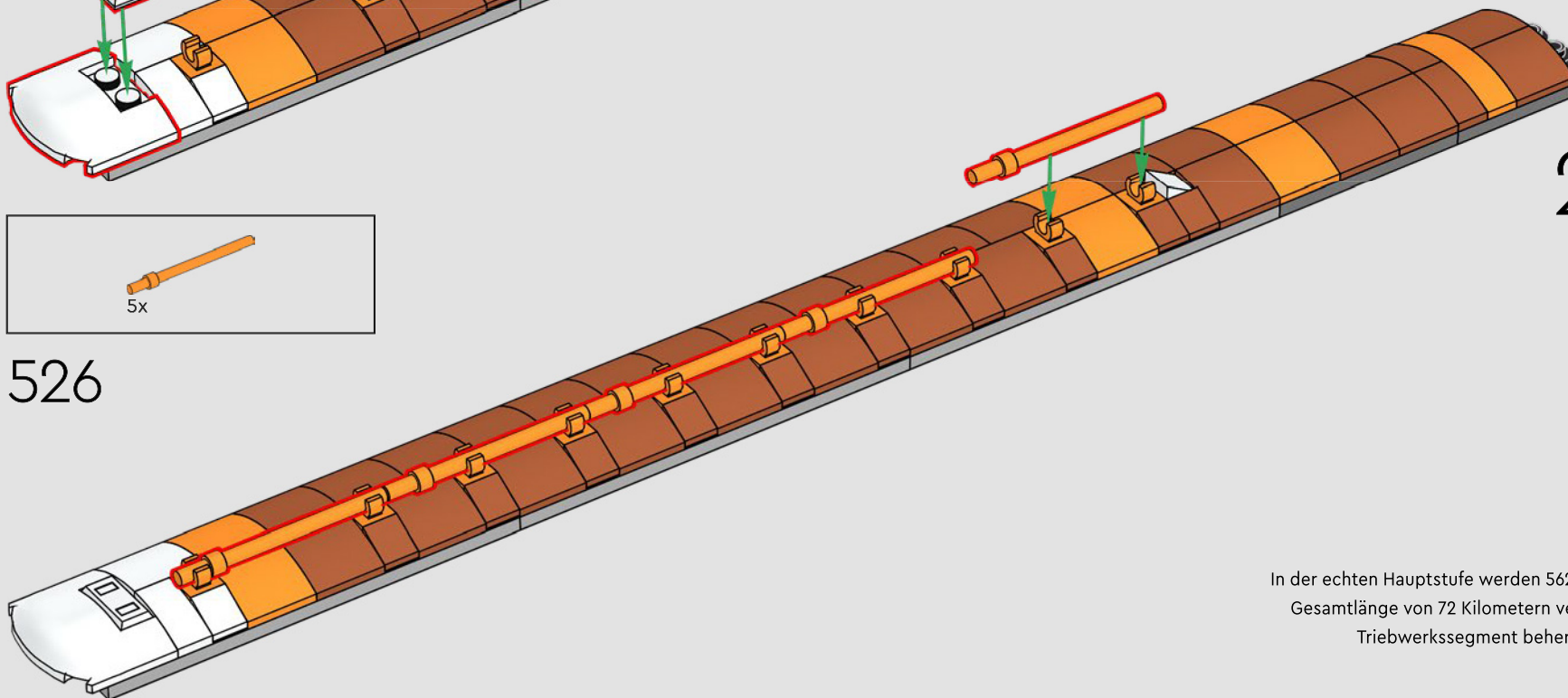




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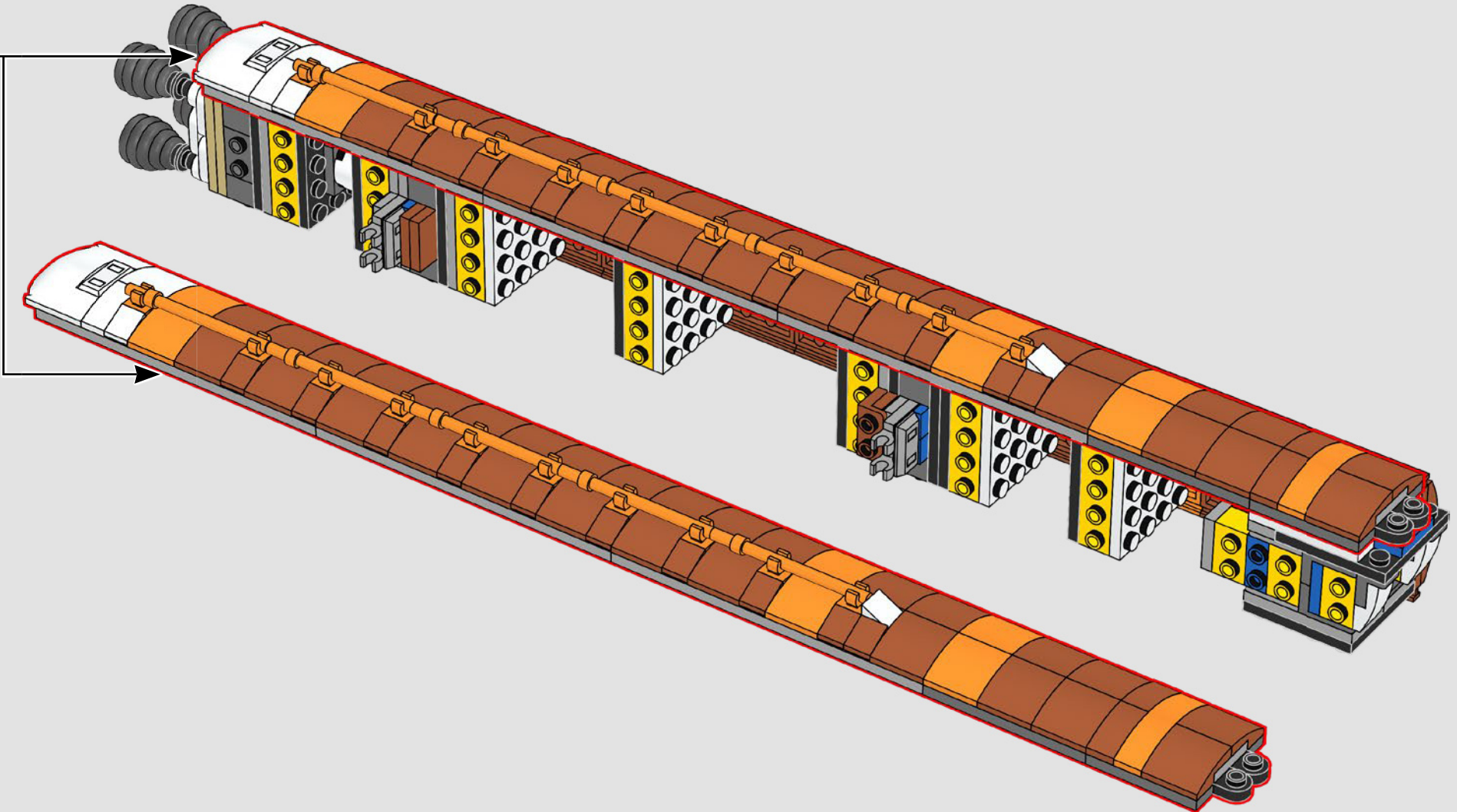


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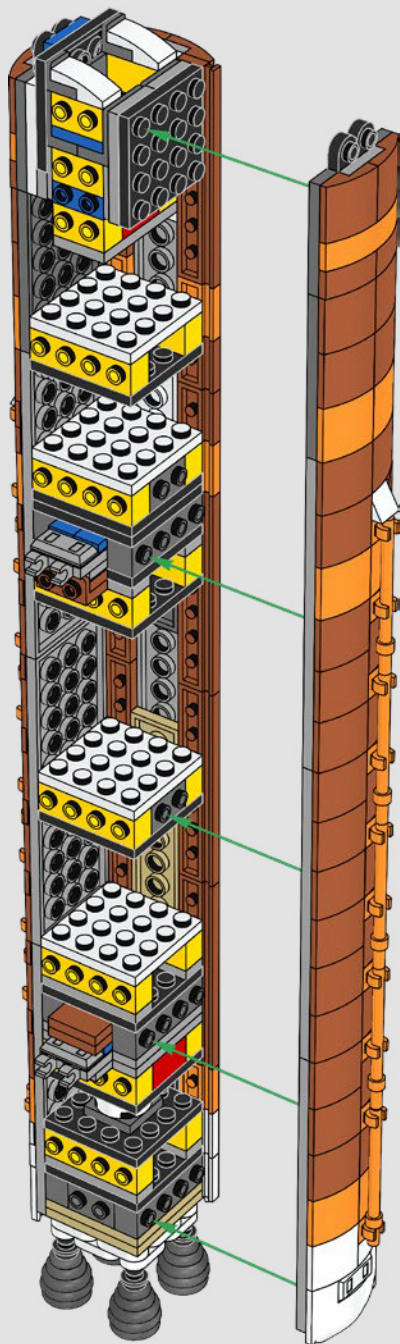
In der echten Hauptstufe werden 562 Kabel mit einer Gesamtlänge von 72 Kilometern verlegt. Allein das Triebwerkssegment beherbergt 231 Kabel.

Die Mehrfarbigkeit der ersten Raketenstufe lässt sich auf unterschiedliche Isolierschäume zurückführen. Diese Beschichtung wird umso dunkler, je länger sie dem Sonnenlicht ausgesetzt ist.

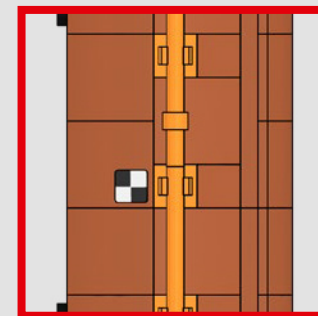
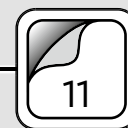
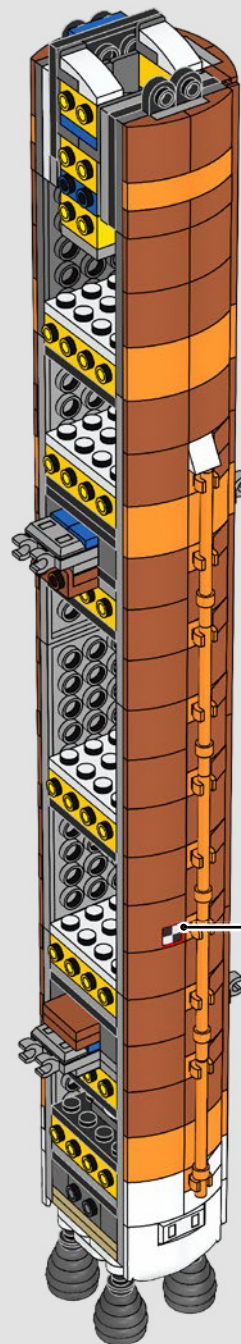
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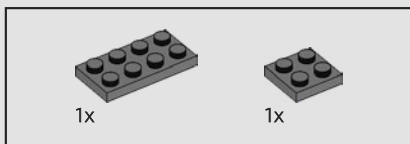
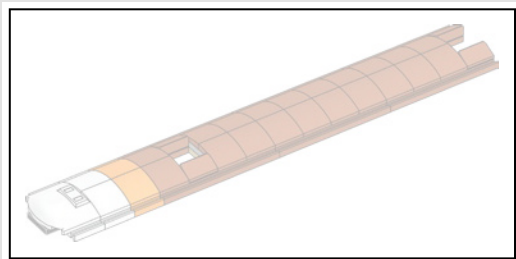


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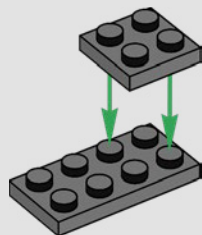


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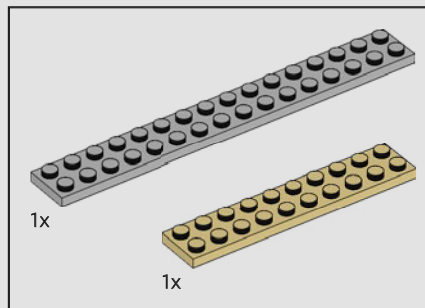
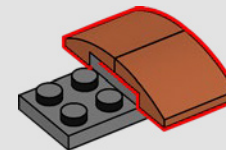




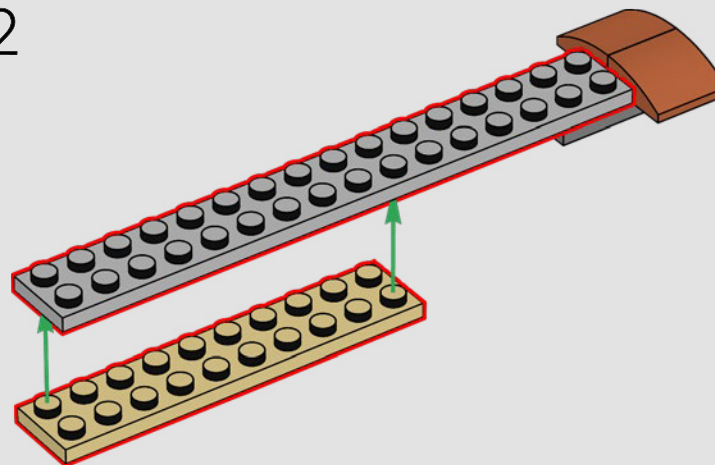
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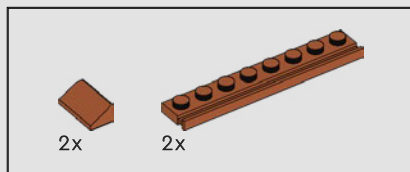


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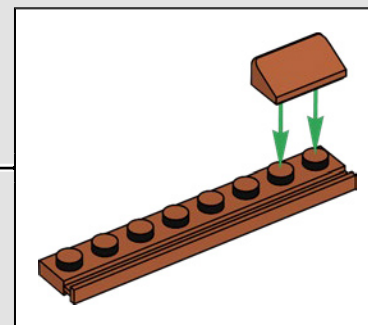
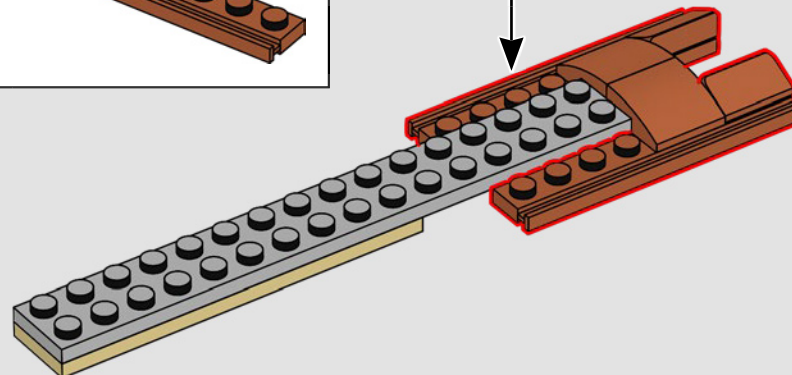
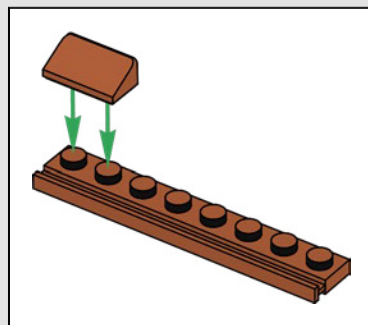


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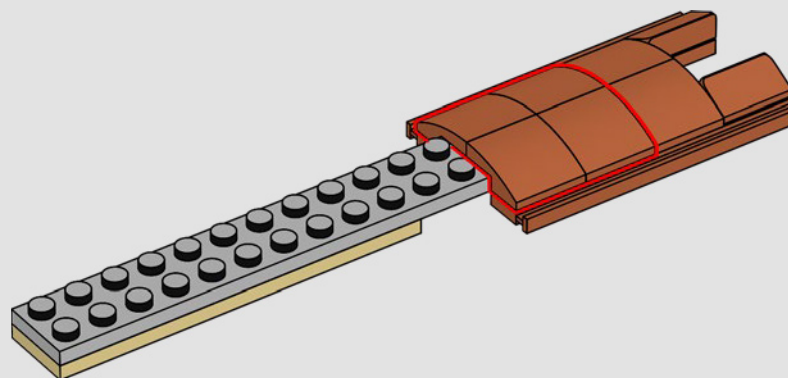


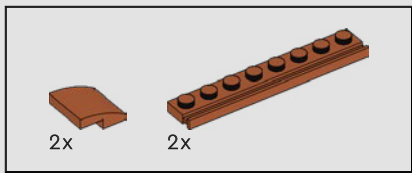


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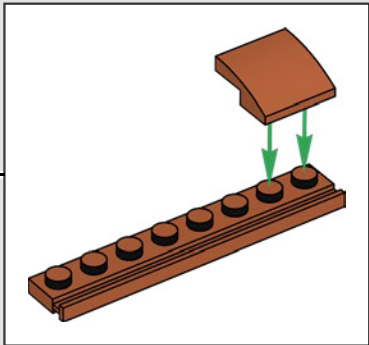
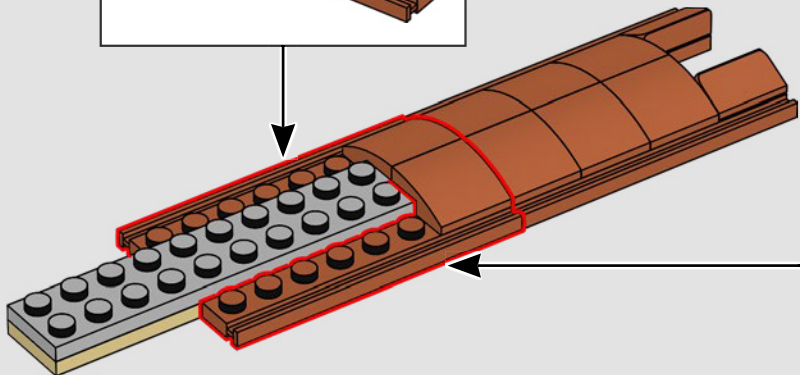
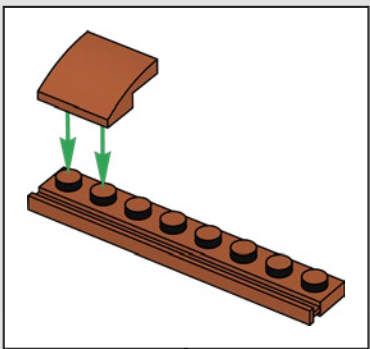


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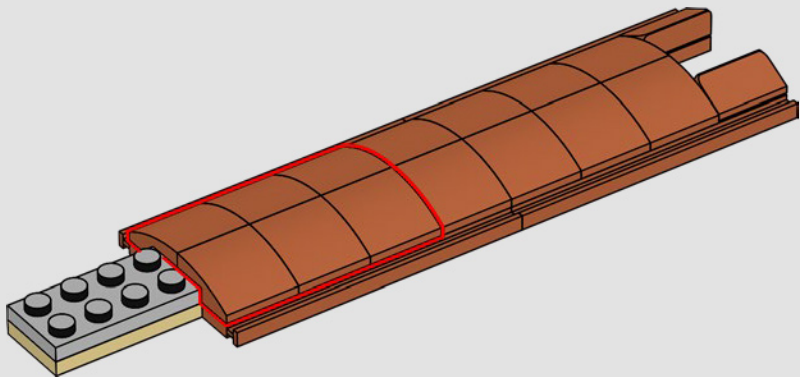


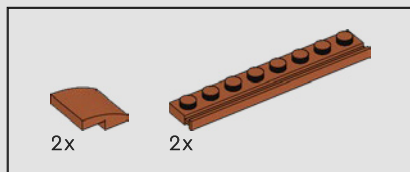


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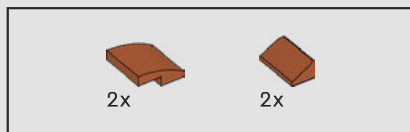
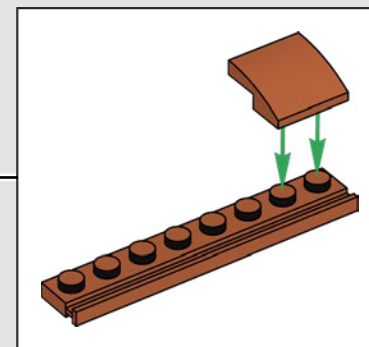
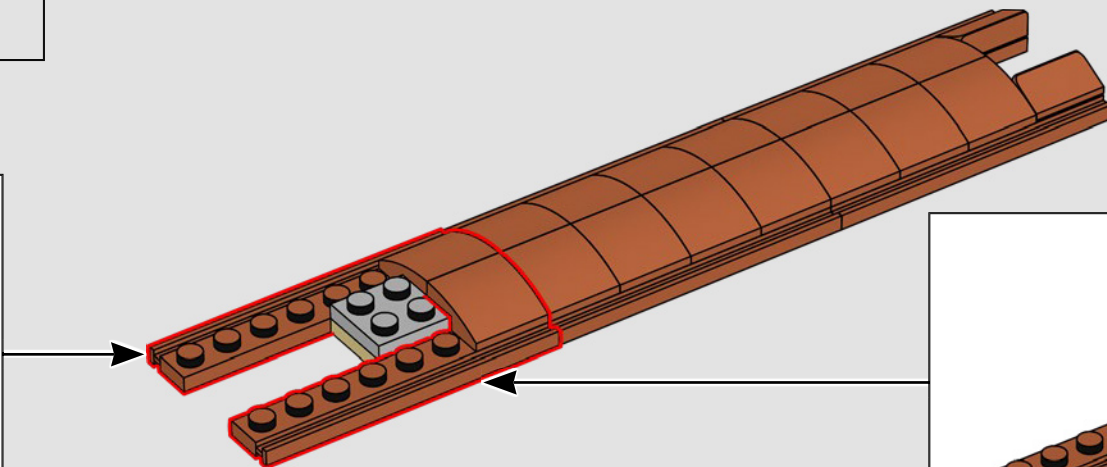
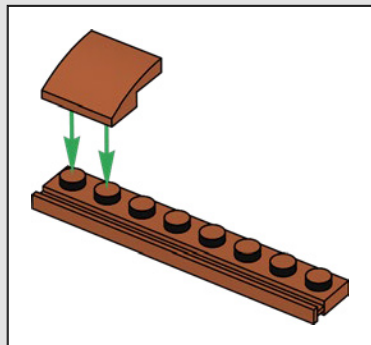


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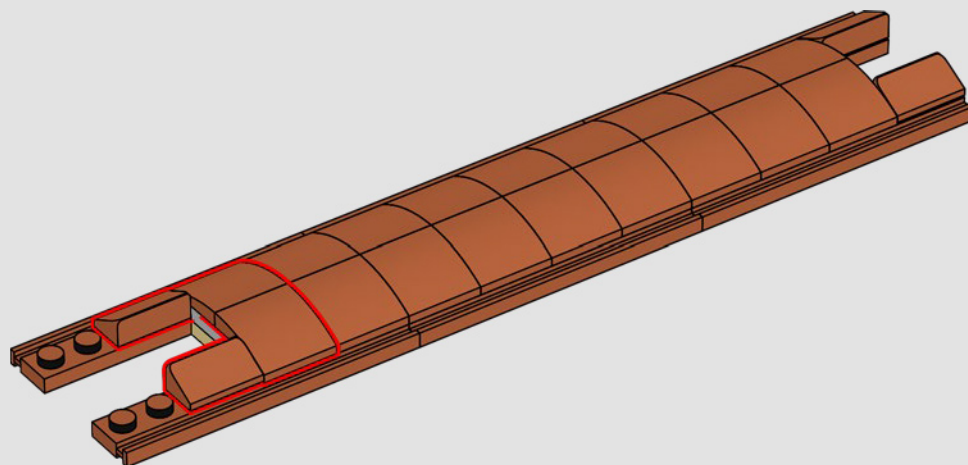


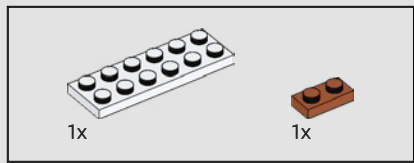


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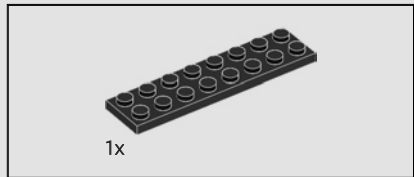
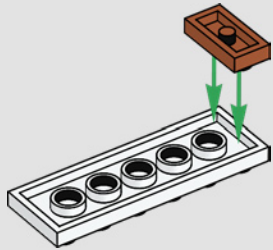


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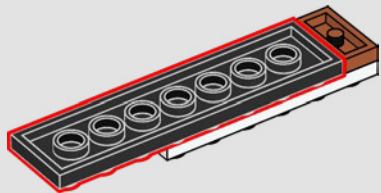




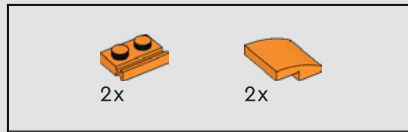
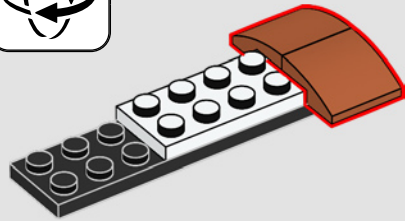
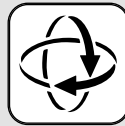
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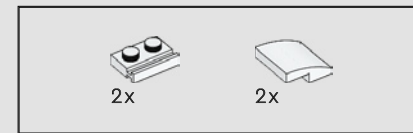
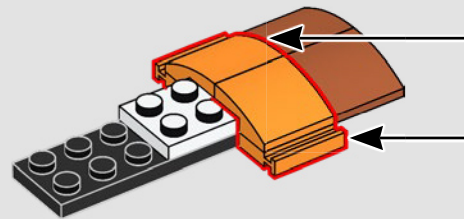
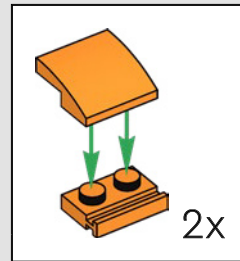
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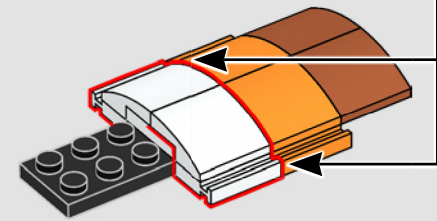
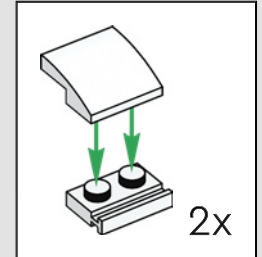
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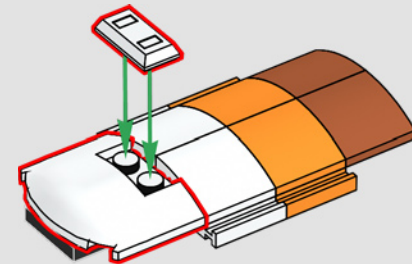
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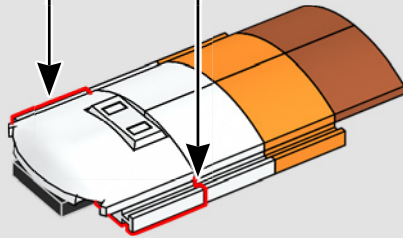
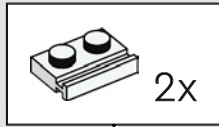


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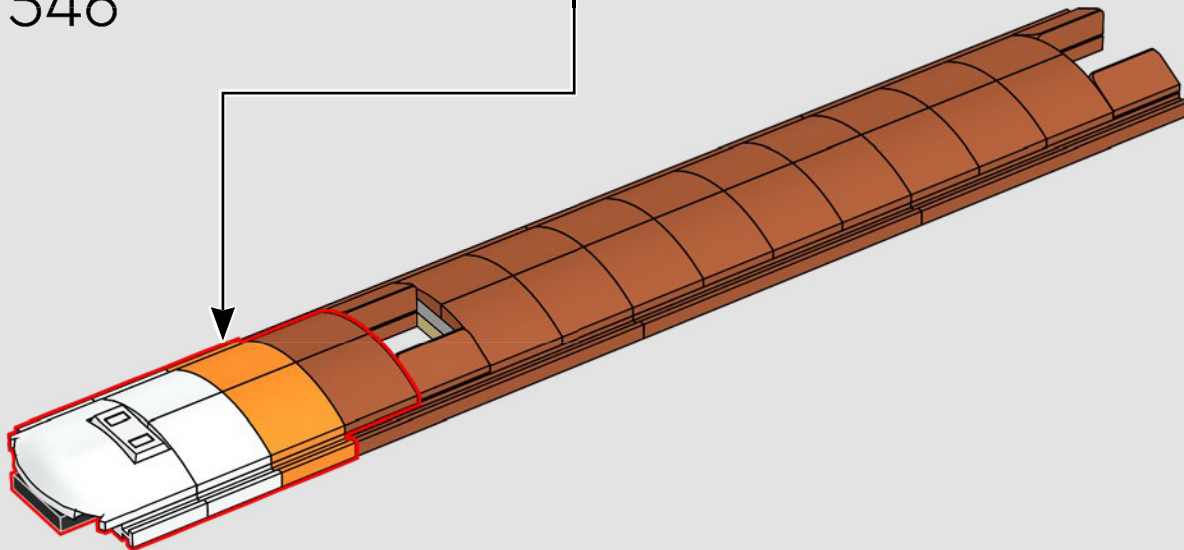




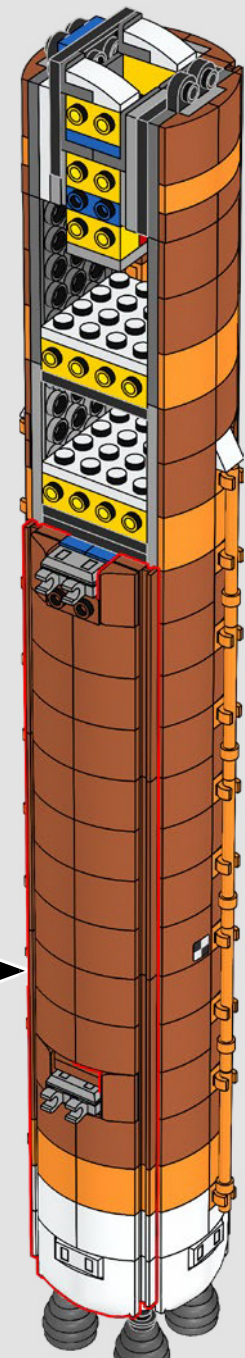
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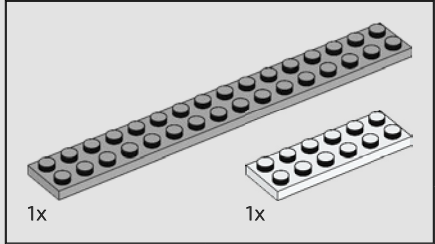
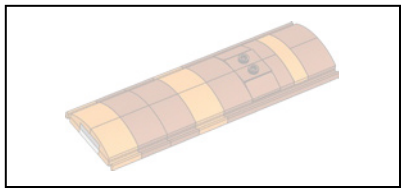


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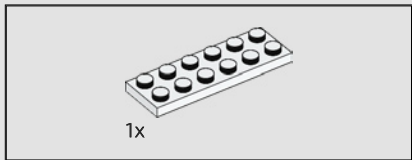
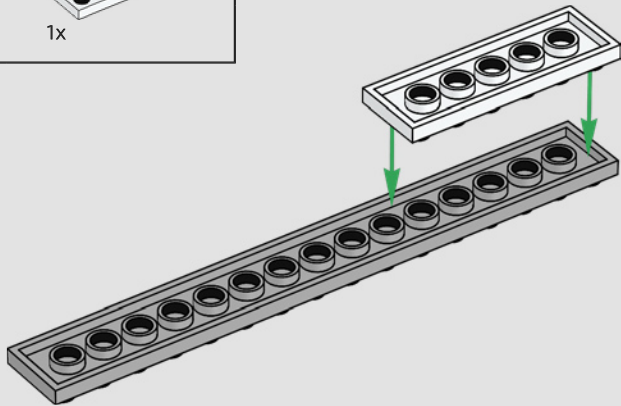


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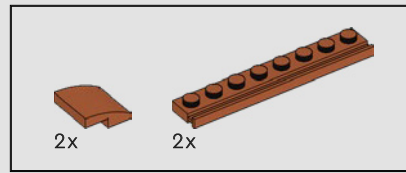
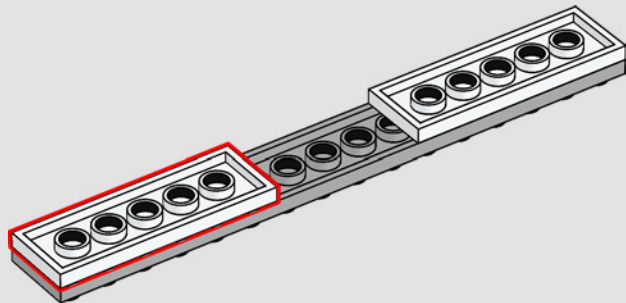




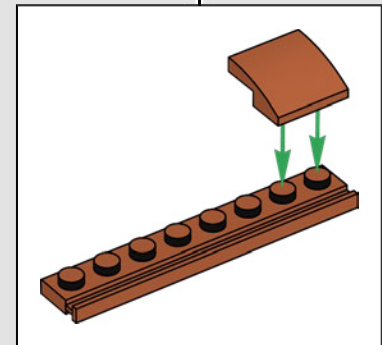
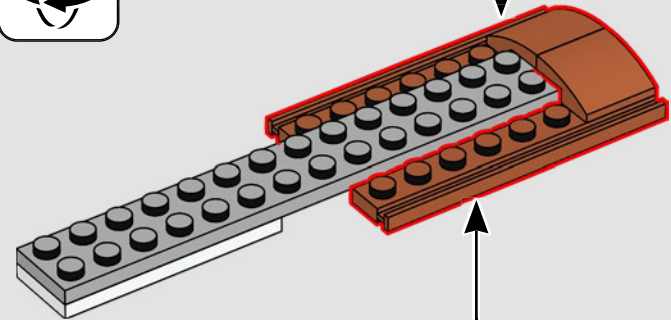
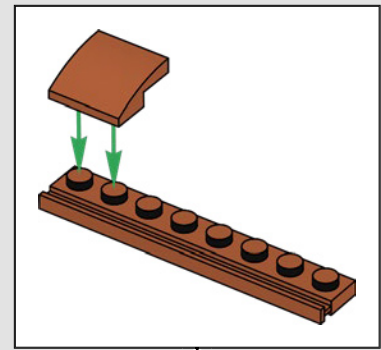
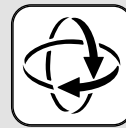
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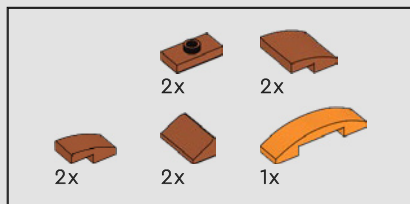


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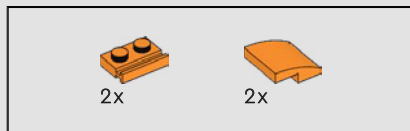
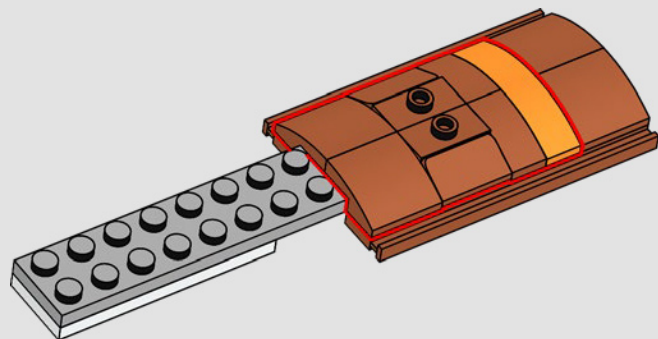


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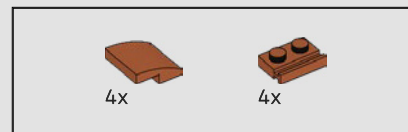
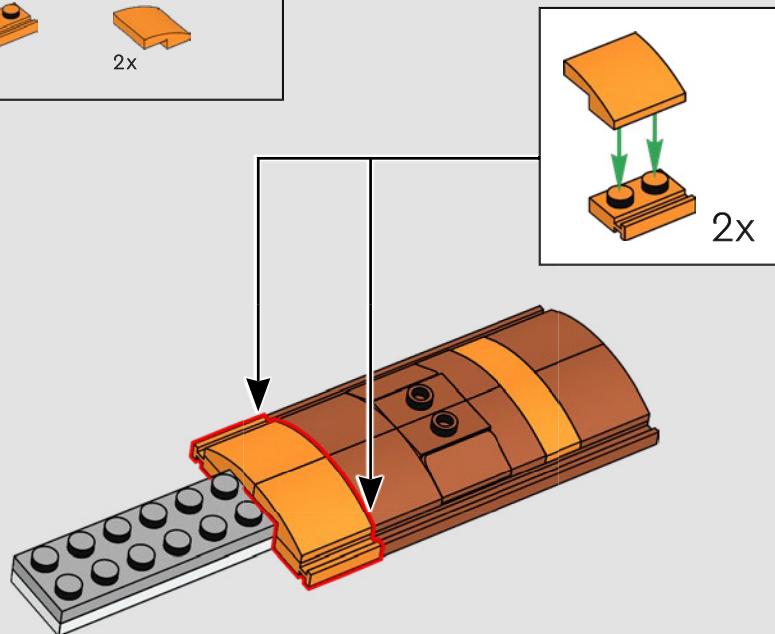




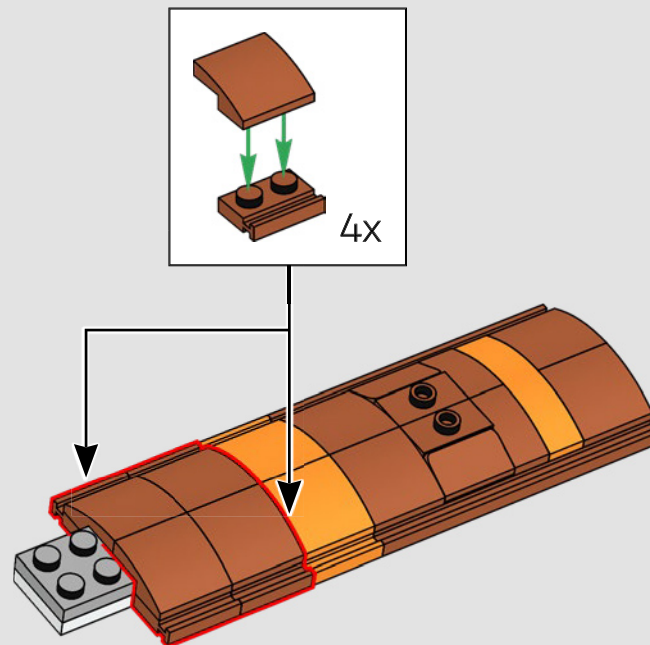
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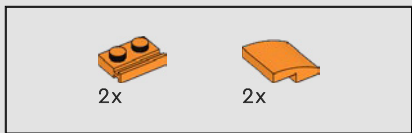


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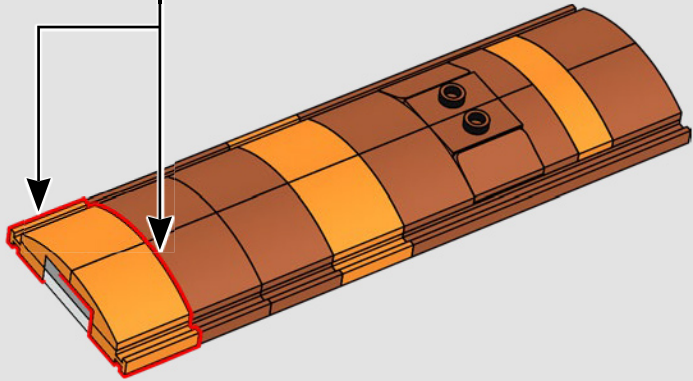
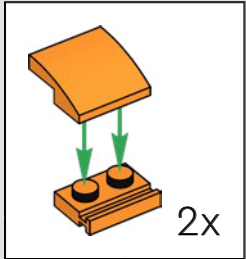


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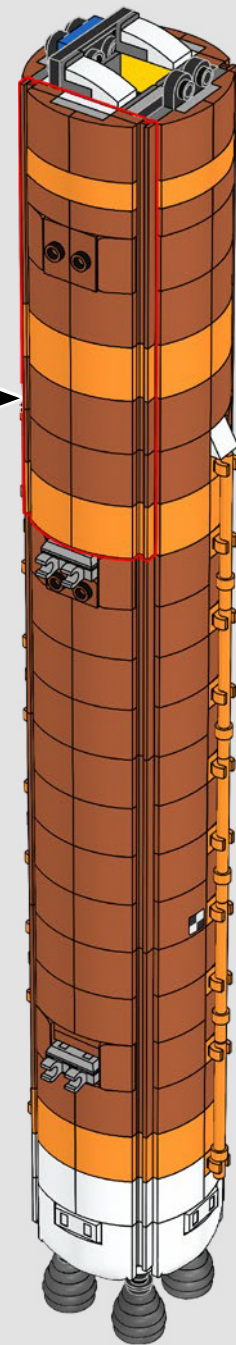


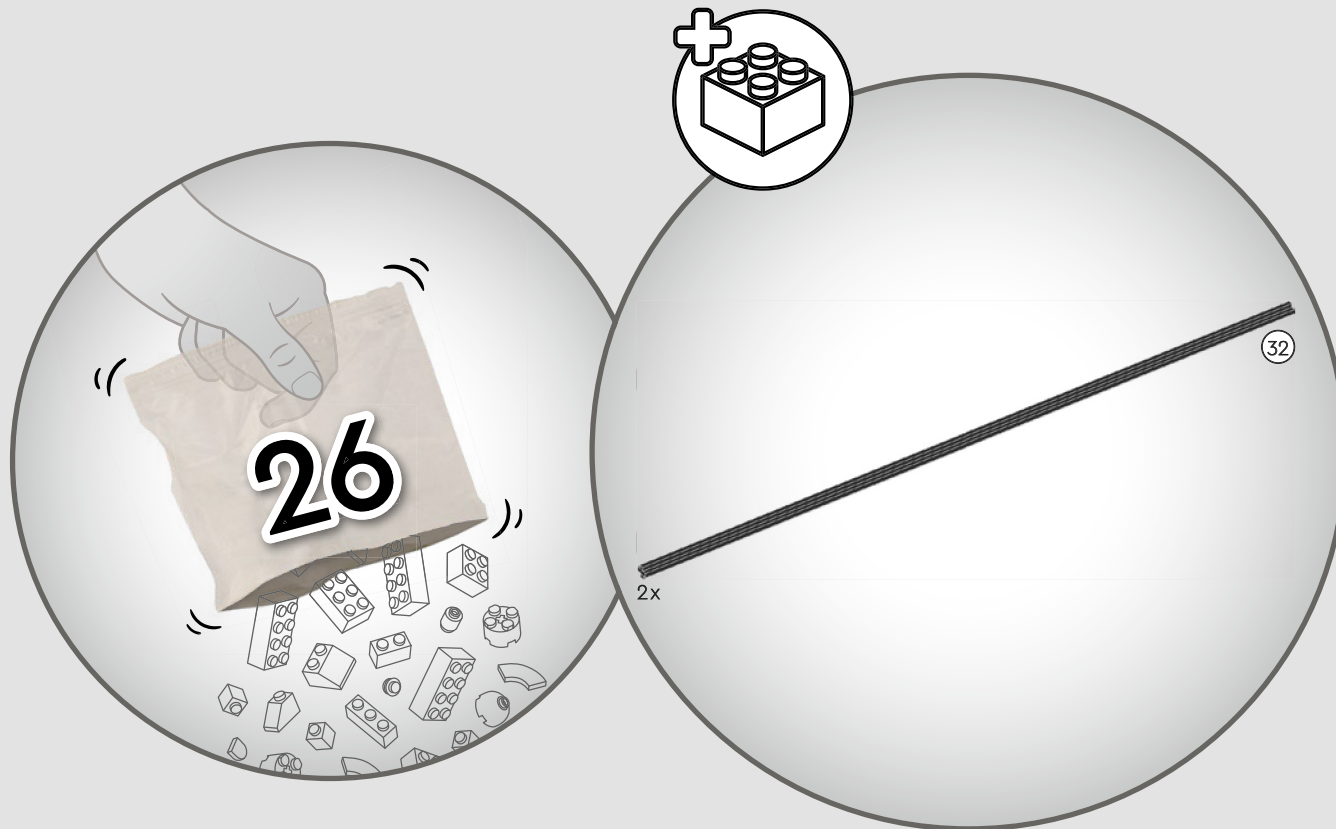


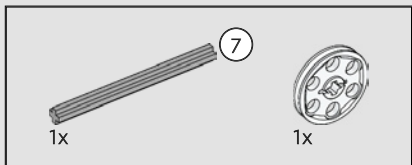
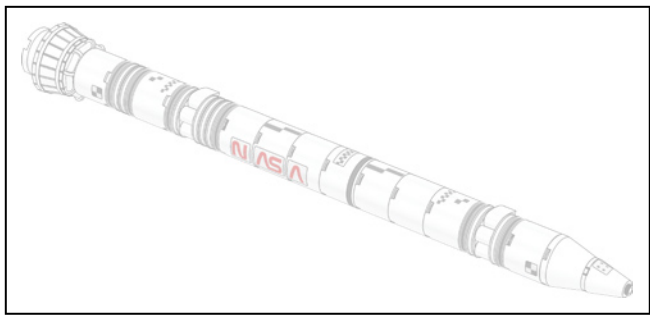
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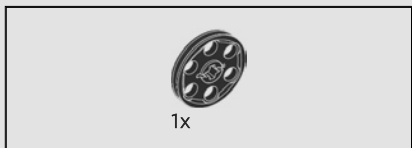
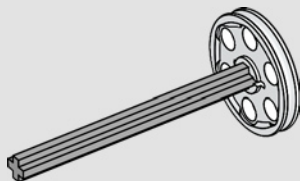
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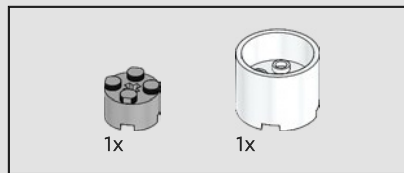
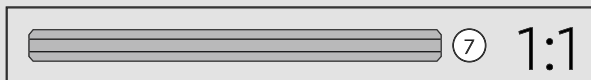
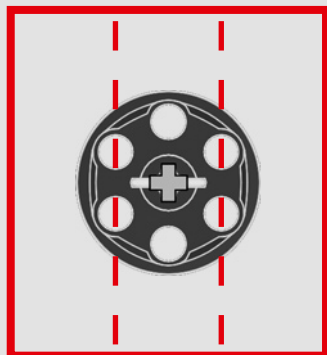
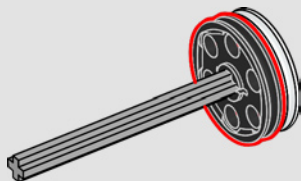




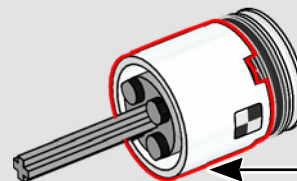
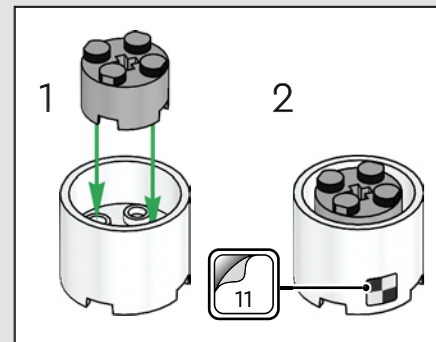
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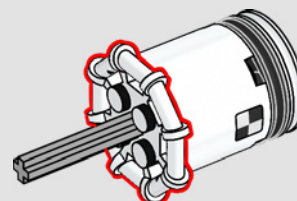
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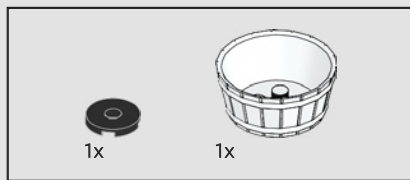


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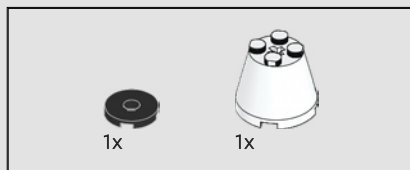
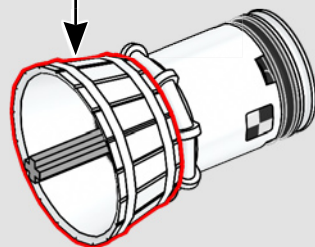
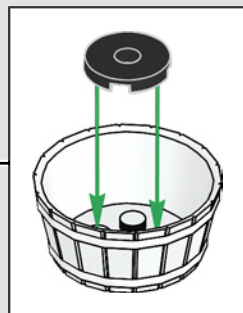


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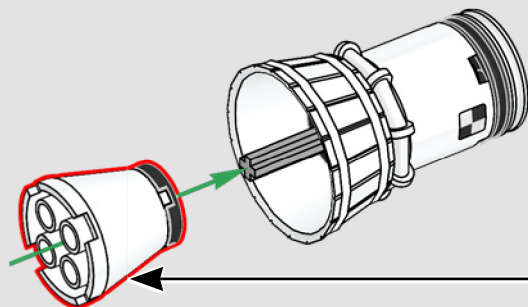
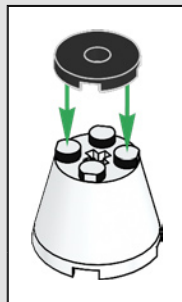




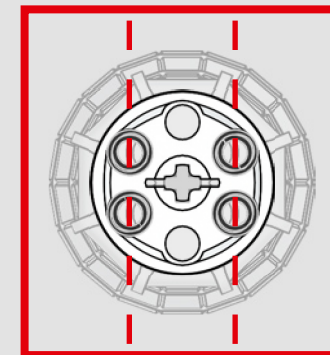
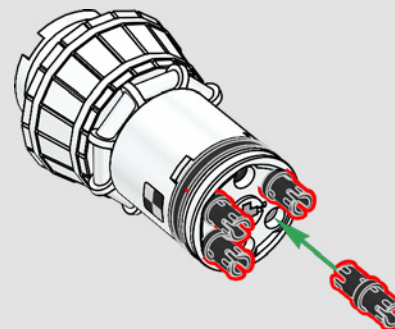
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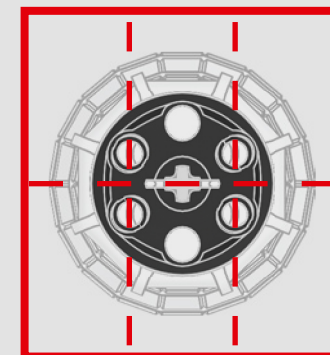
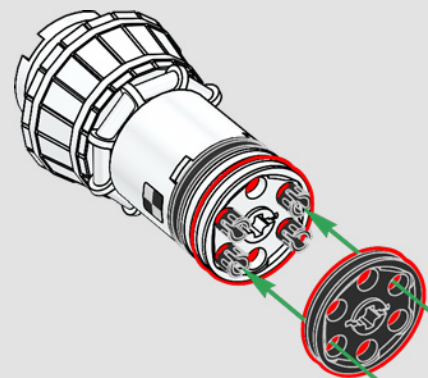
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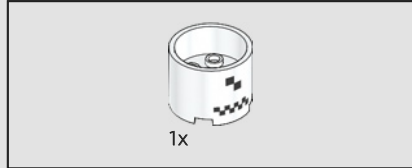
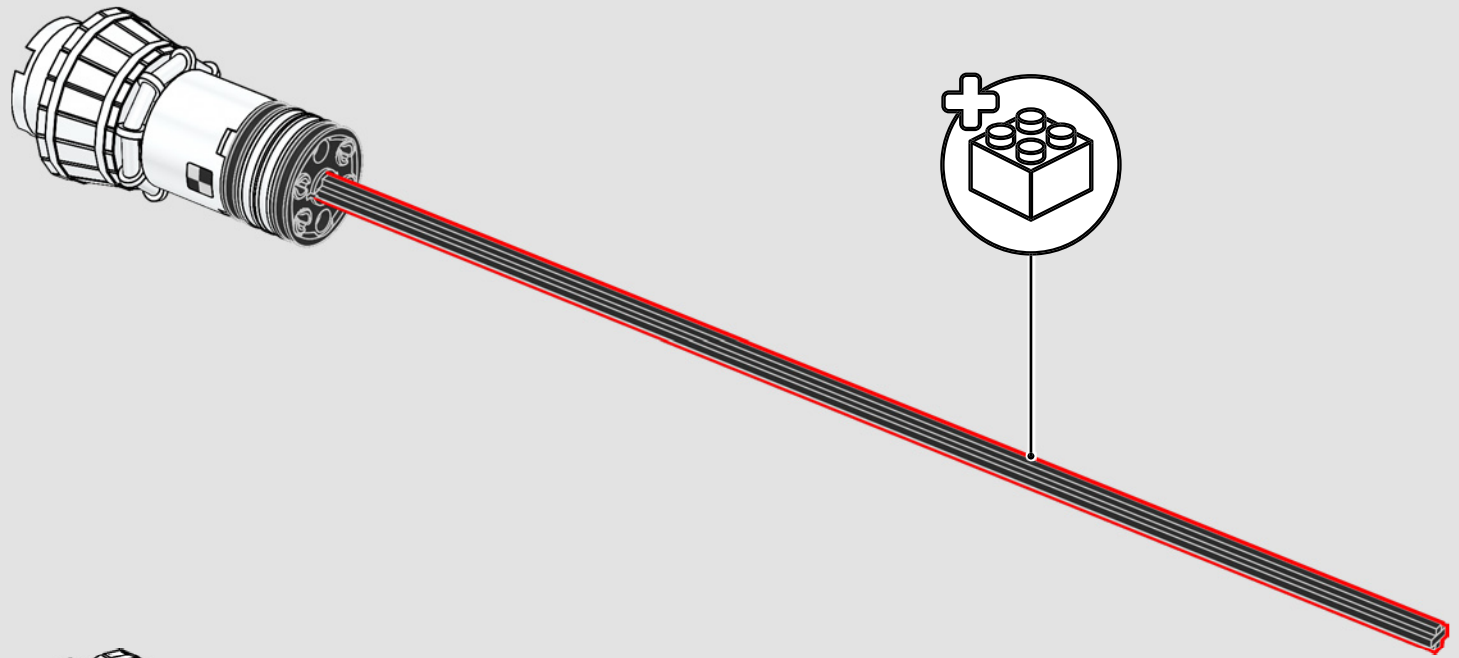
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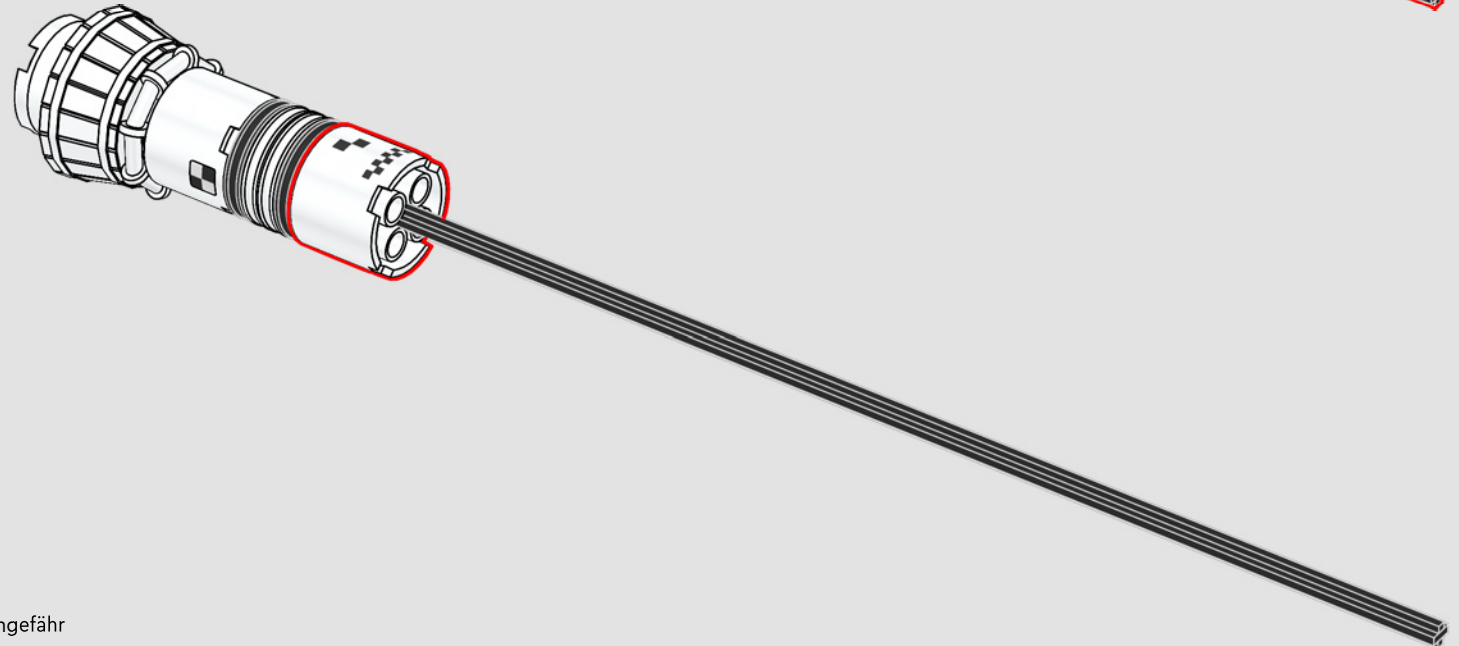
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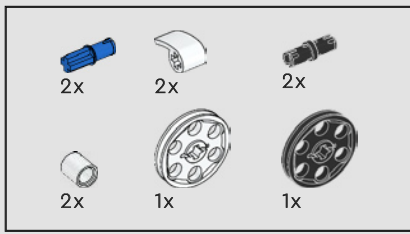
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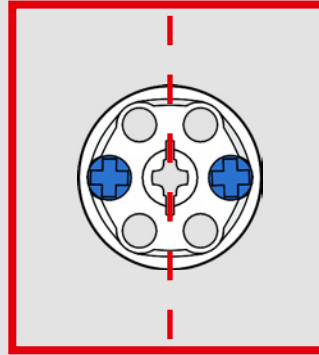
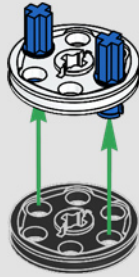


Nach dem Start des SLS brennen die Booster ungefähr zwei Minuten und lösen sich dann von der Hauptstufe.

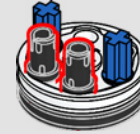


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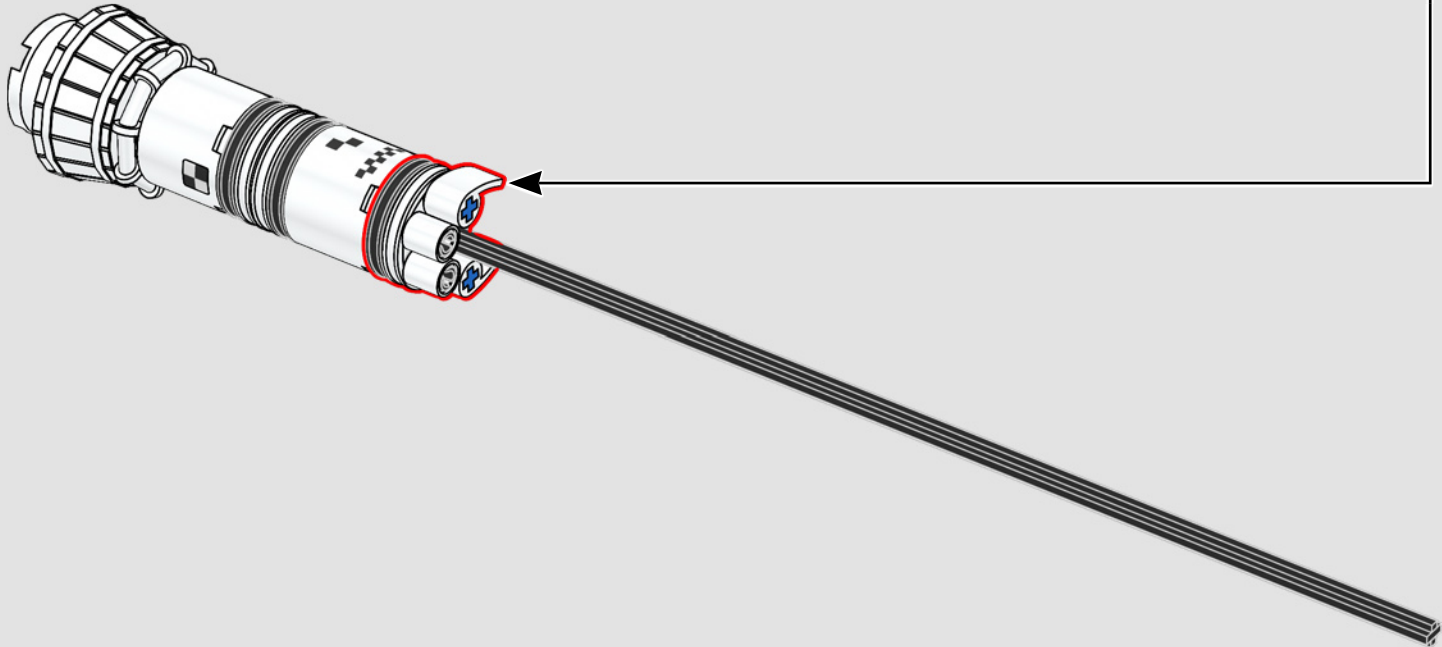
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2



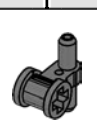
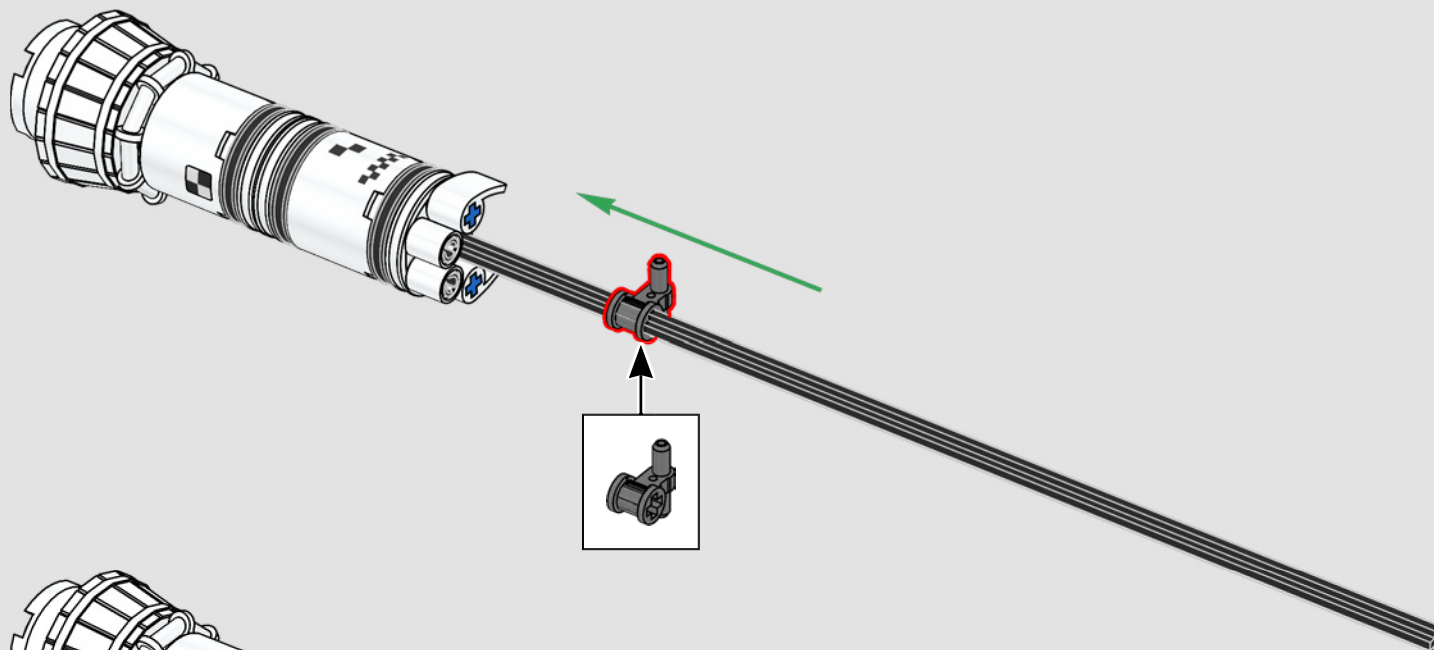
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1x

567

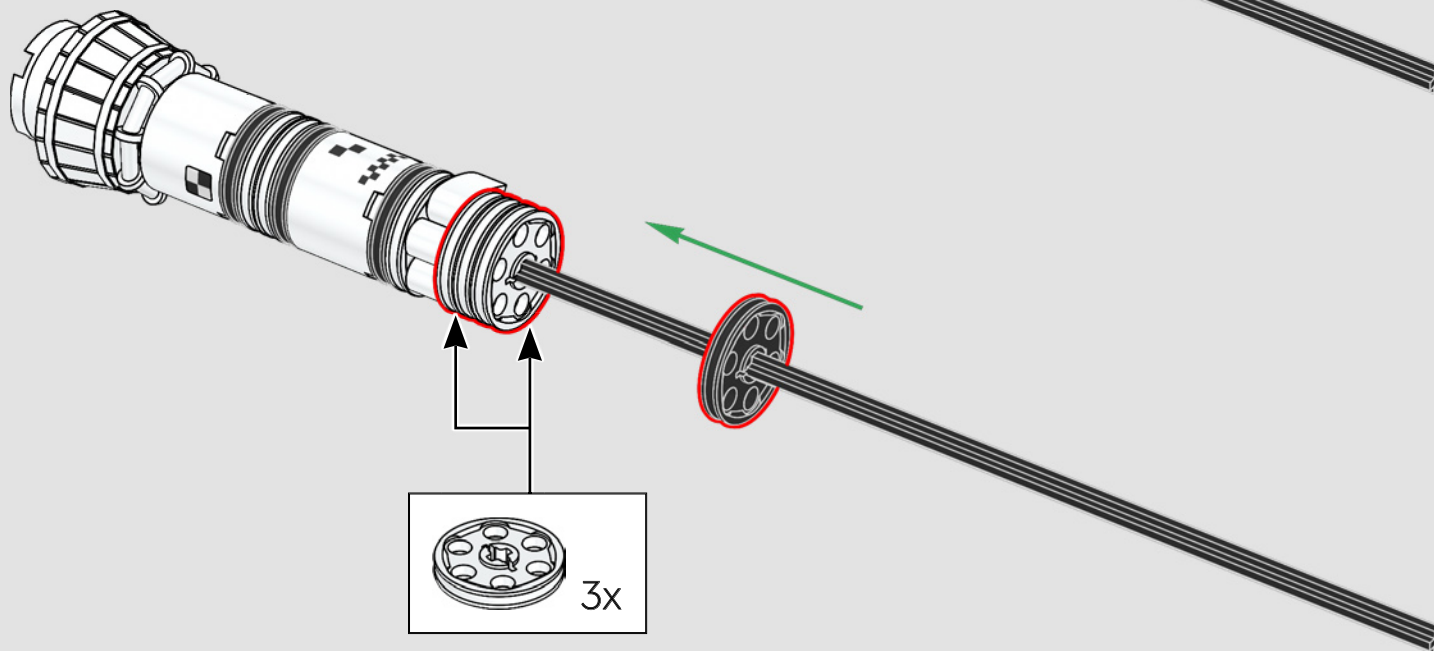


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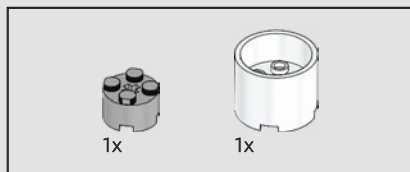


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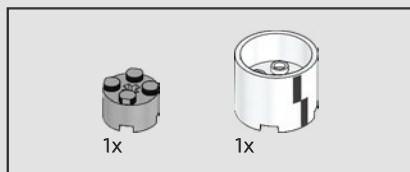
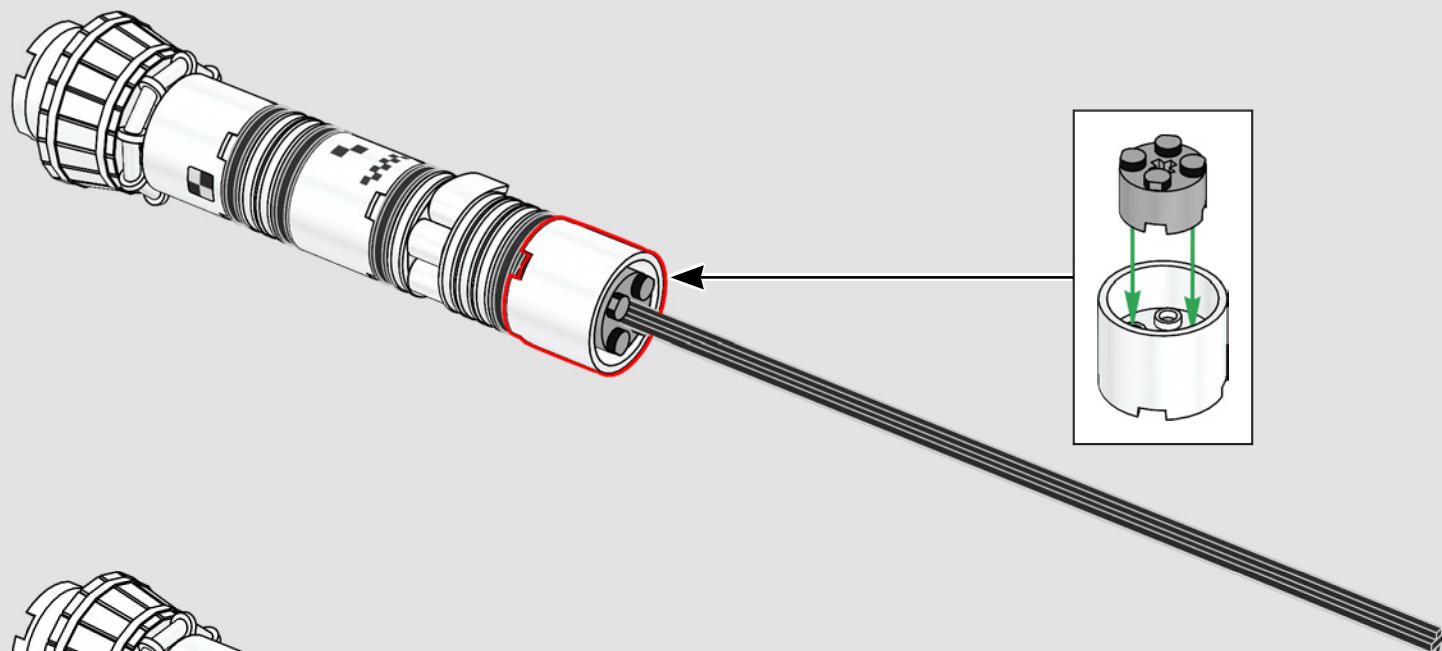
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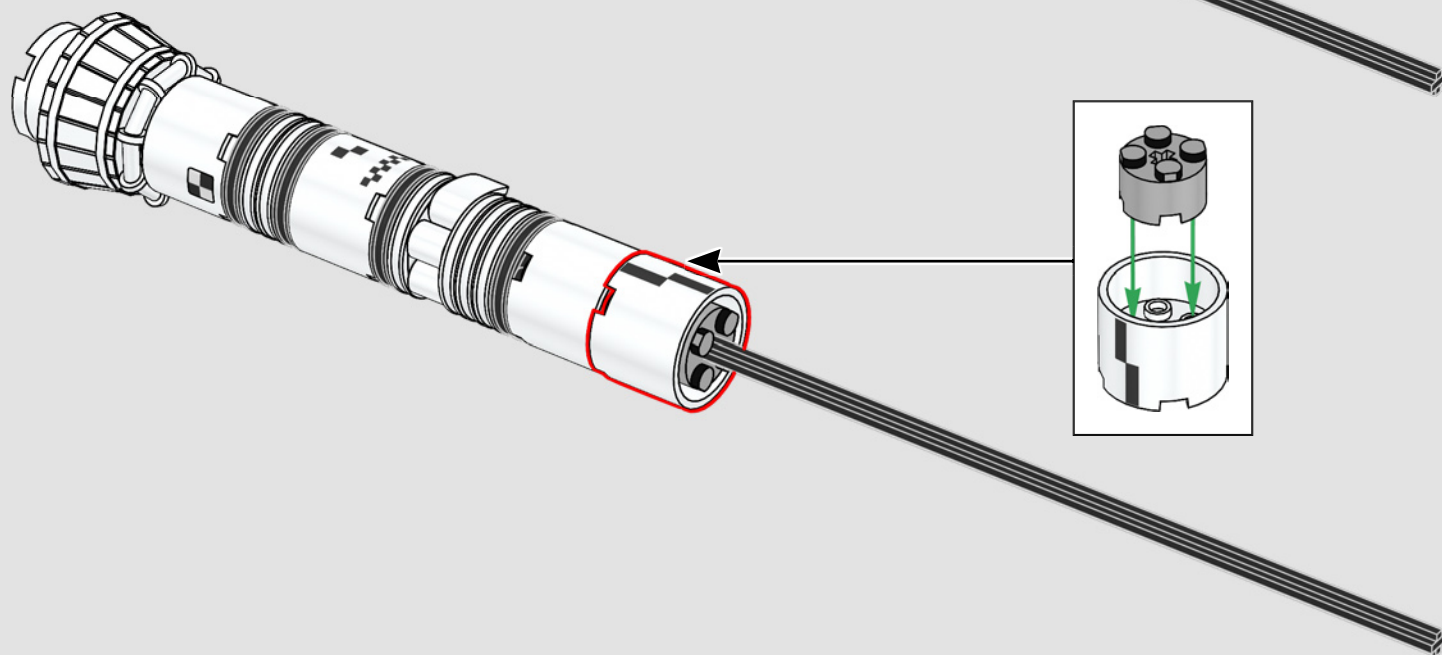
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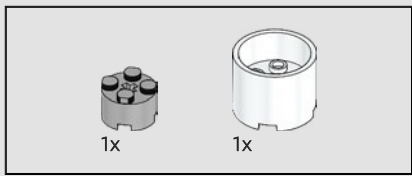


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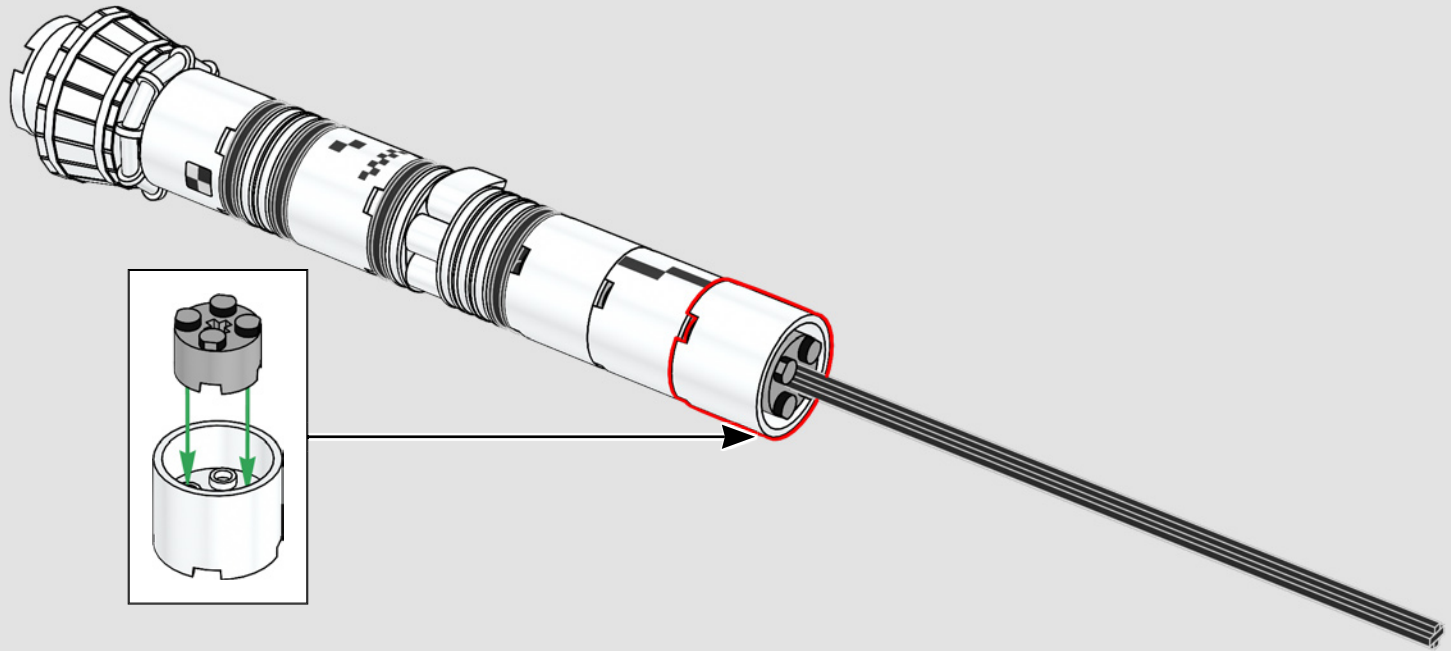


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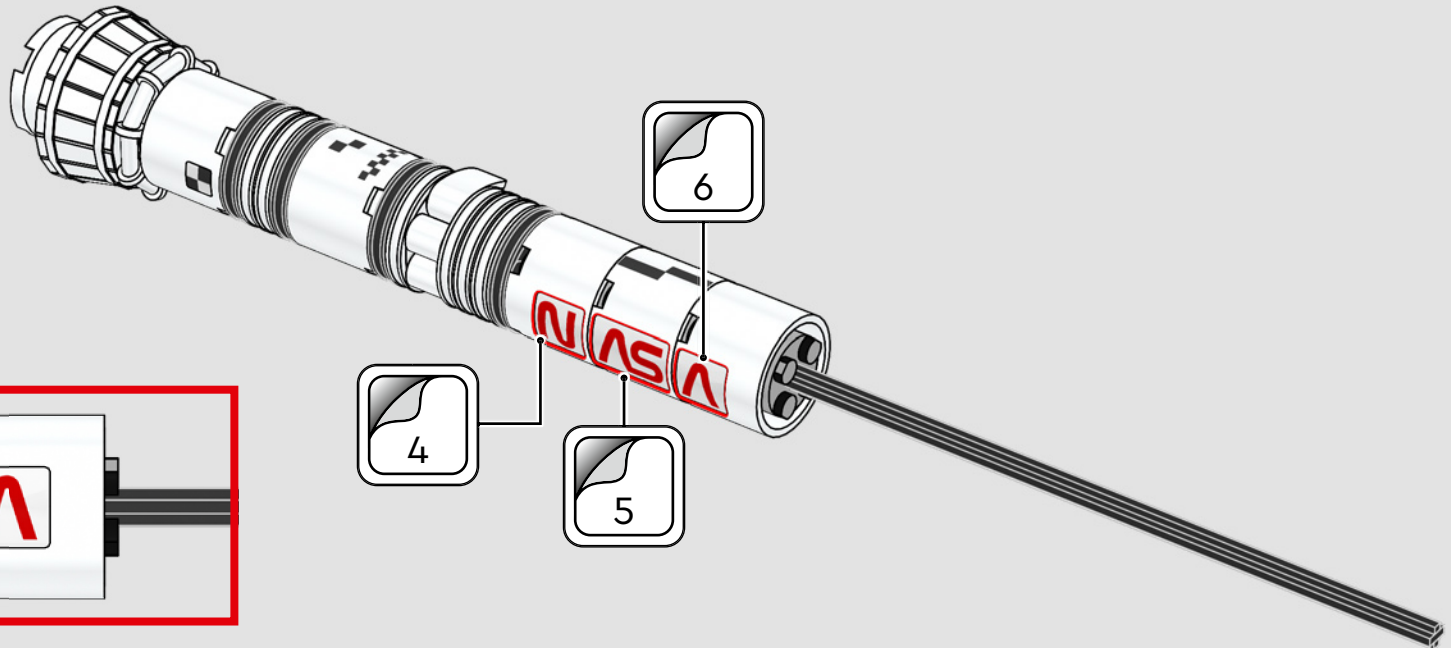
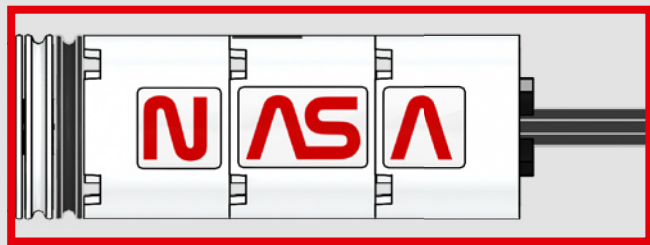


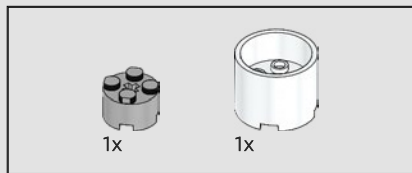


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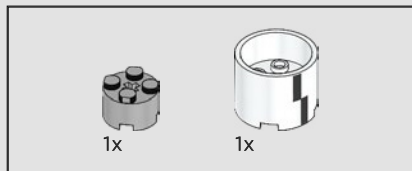
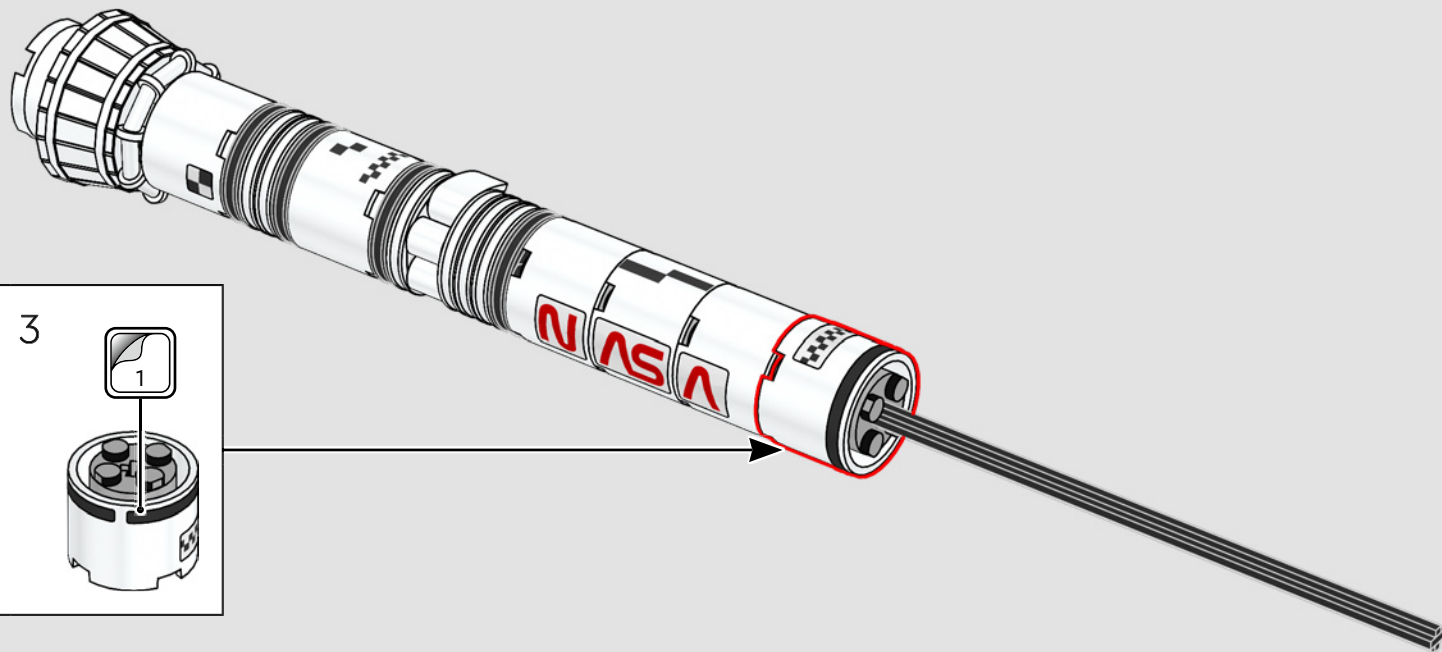
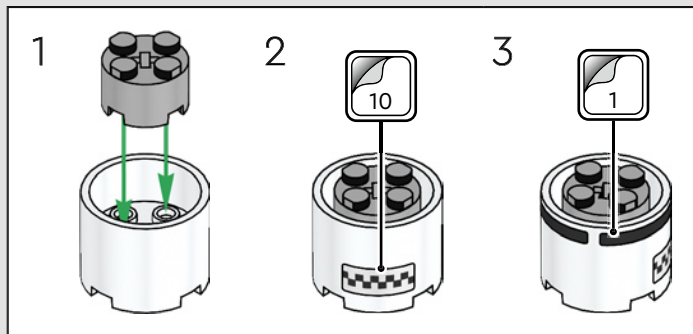


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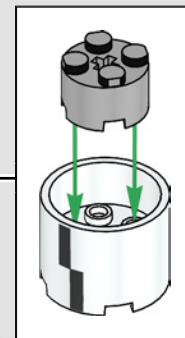
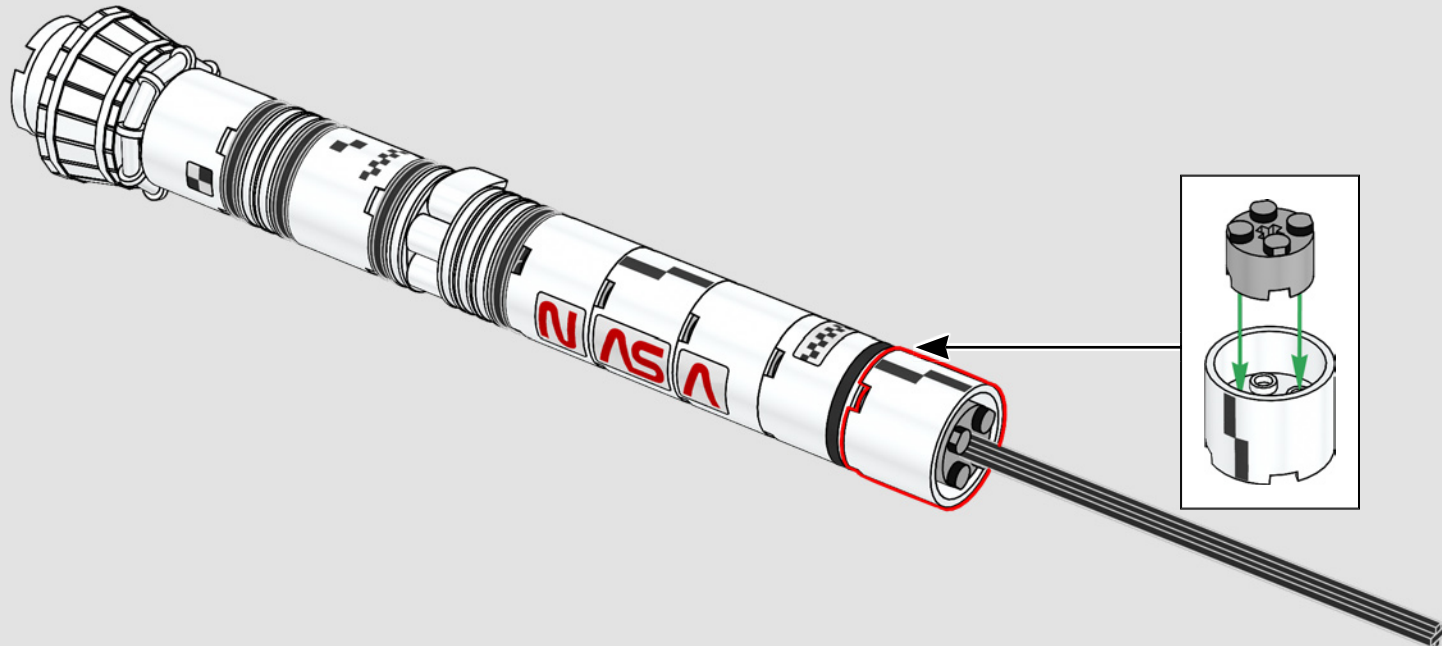


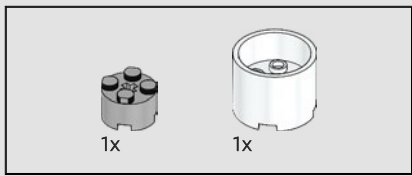


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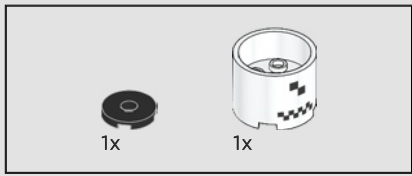
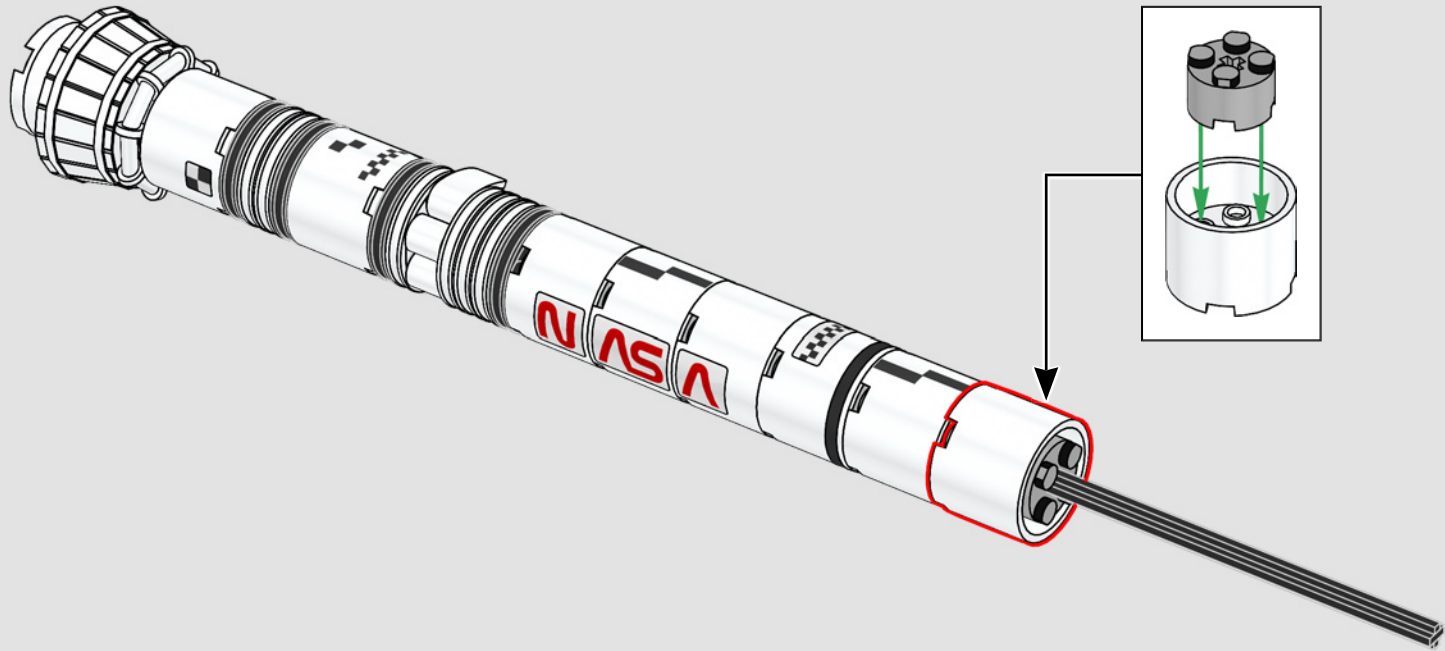


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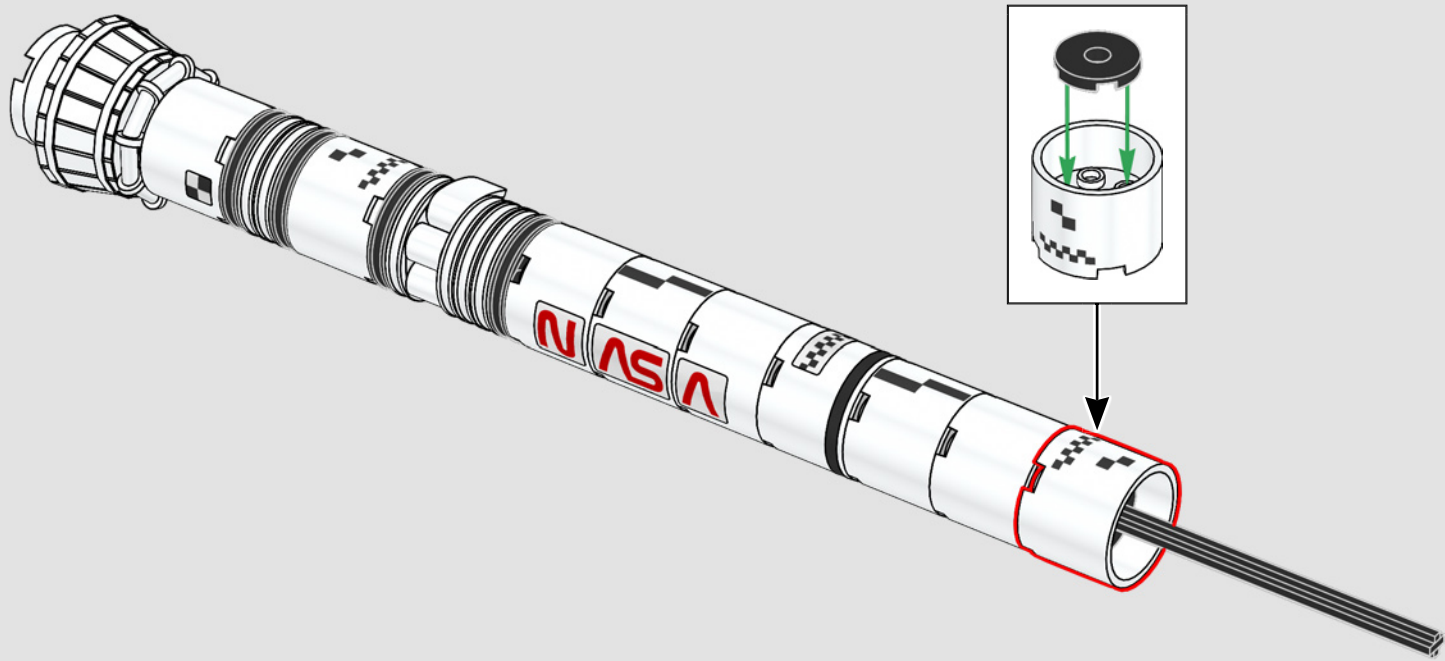


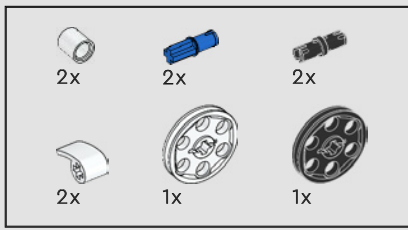


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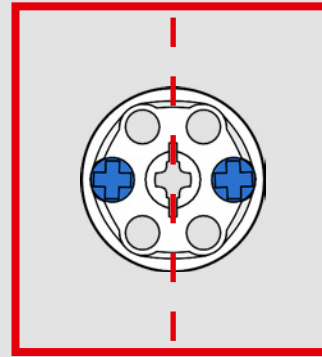
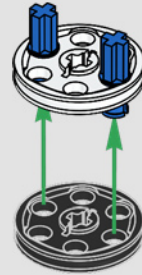
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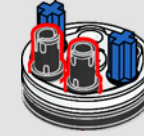


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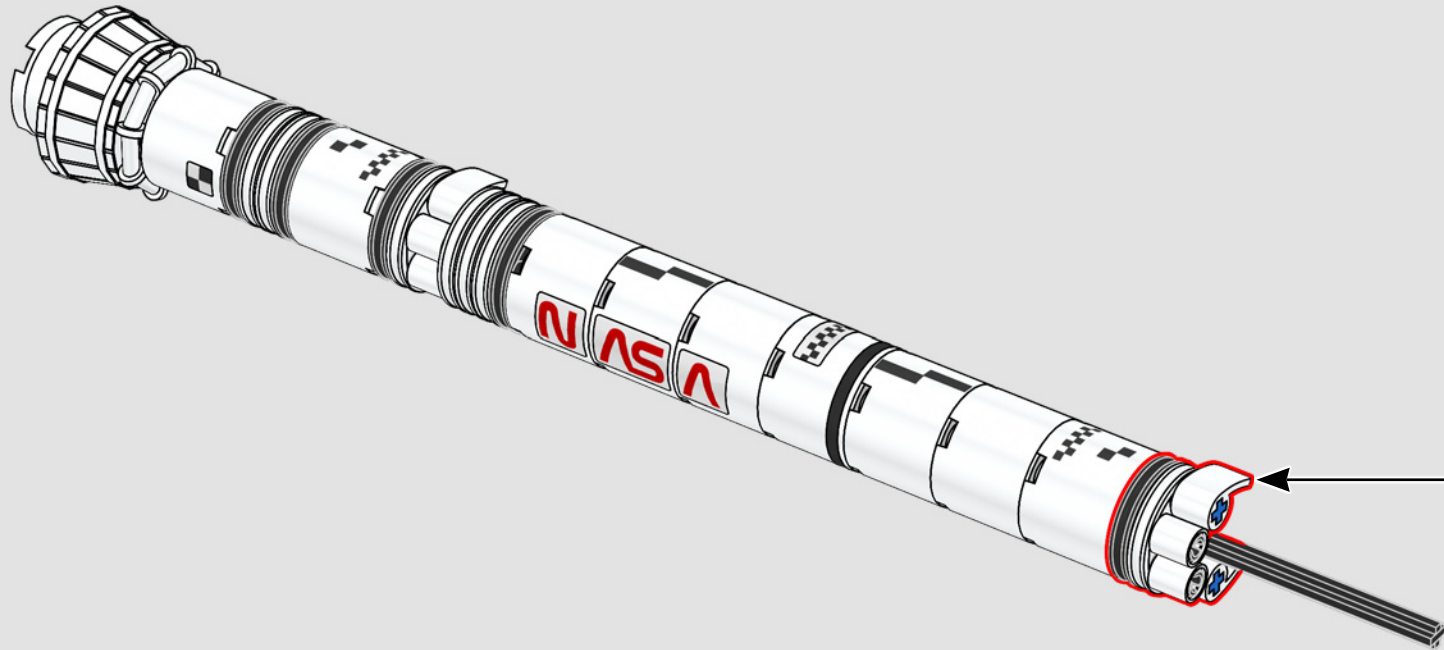
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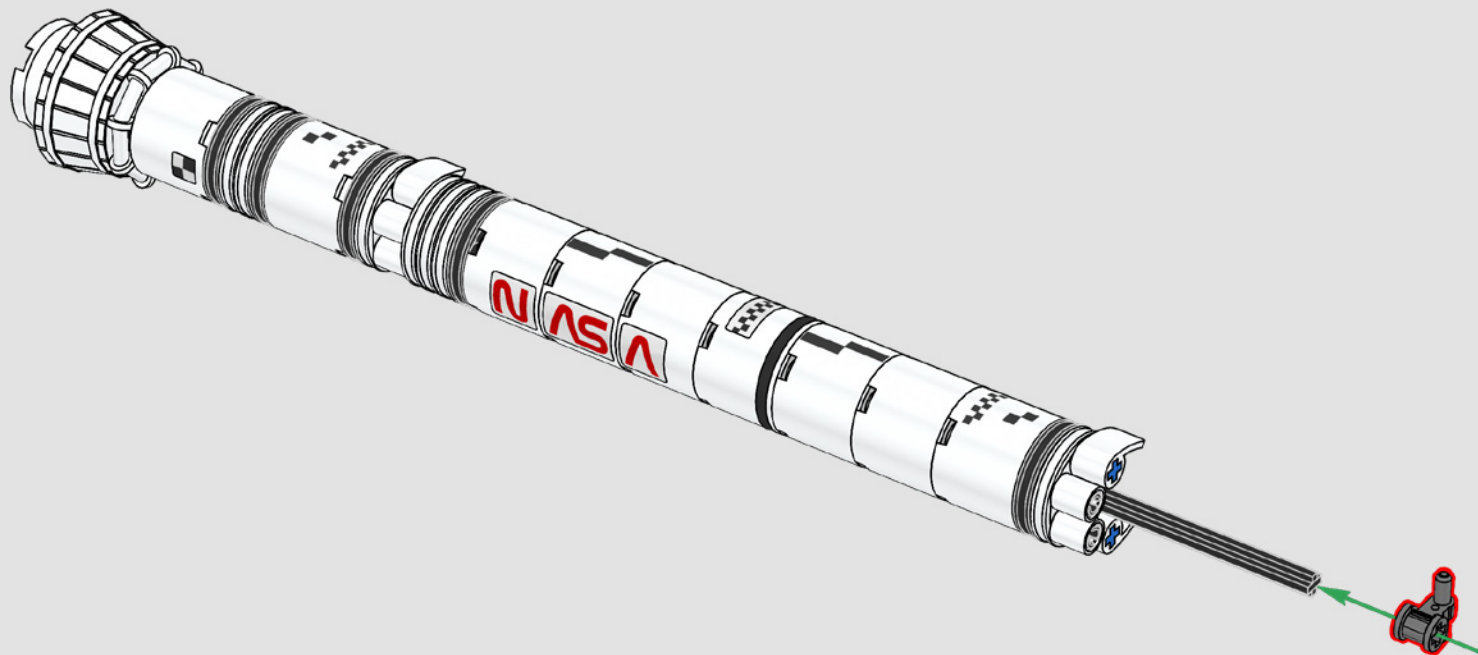
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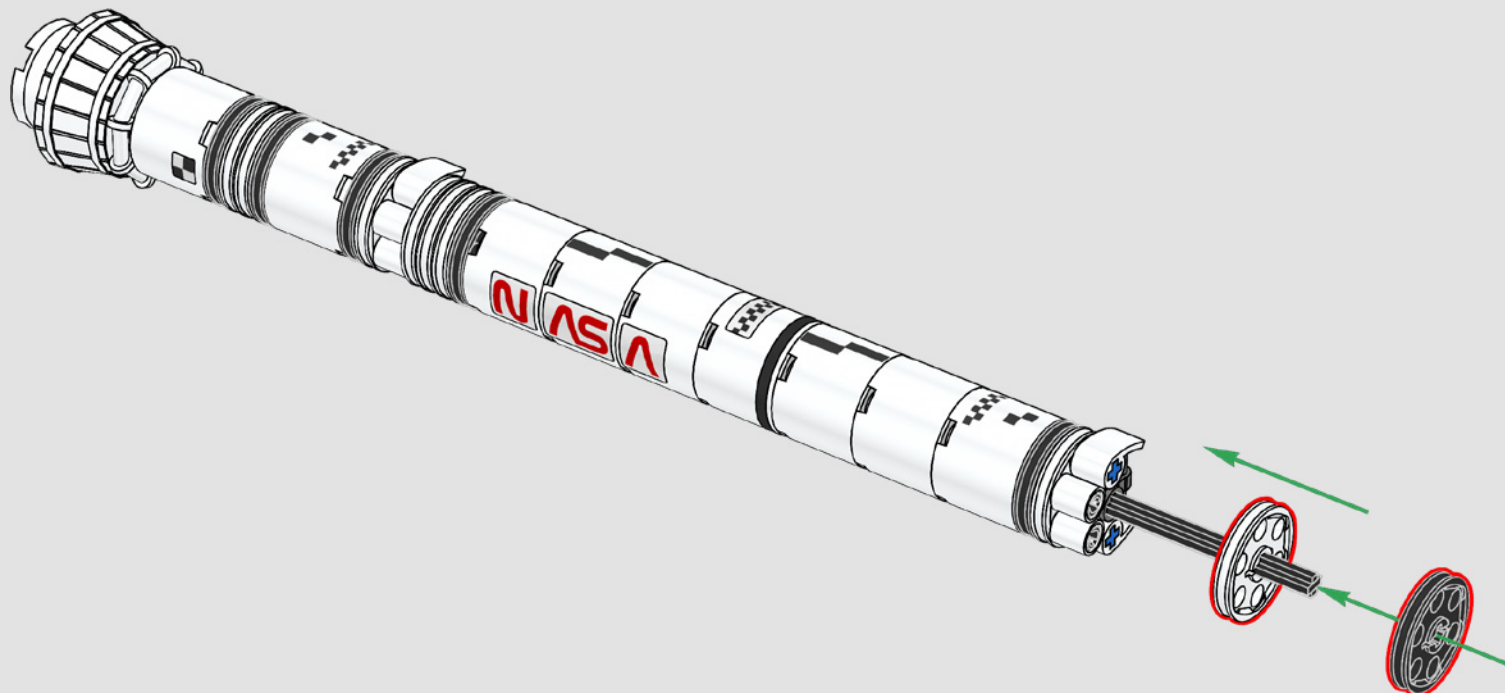


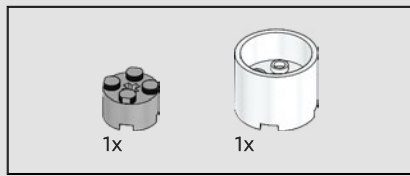
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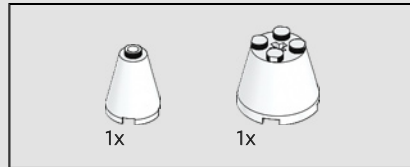
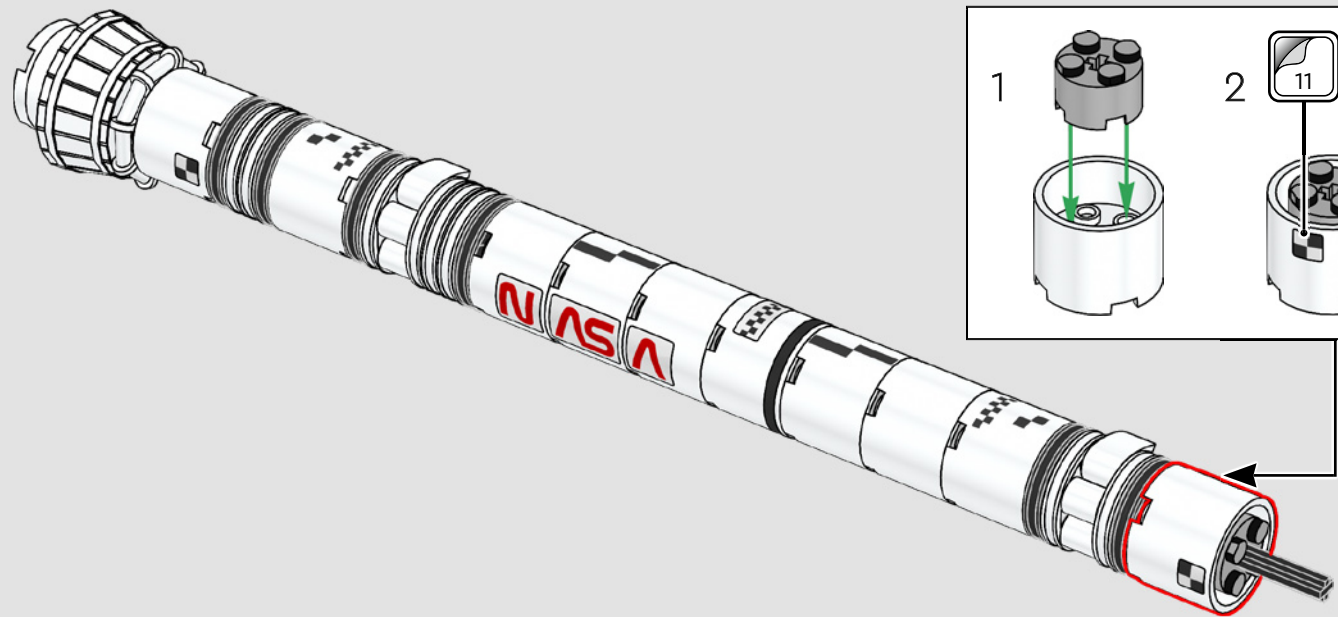
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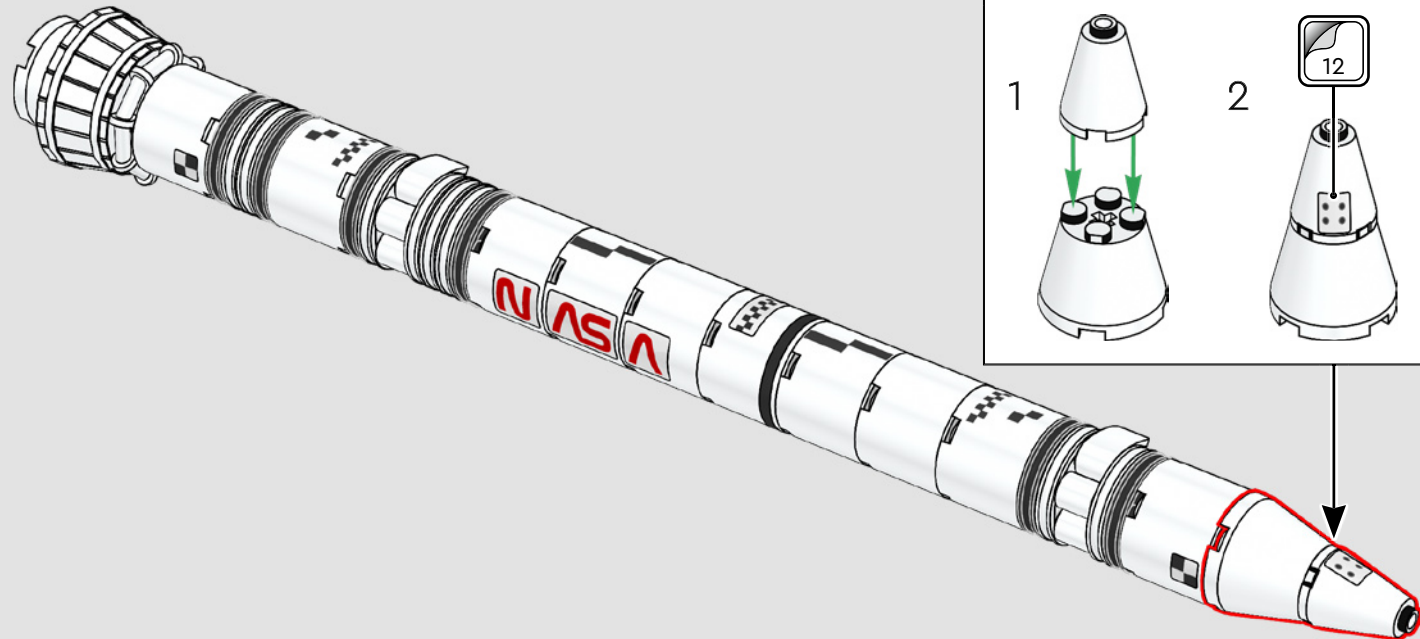




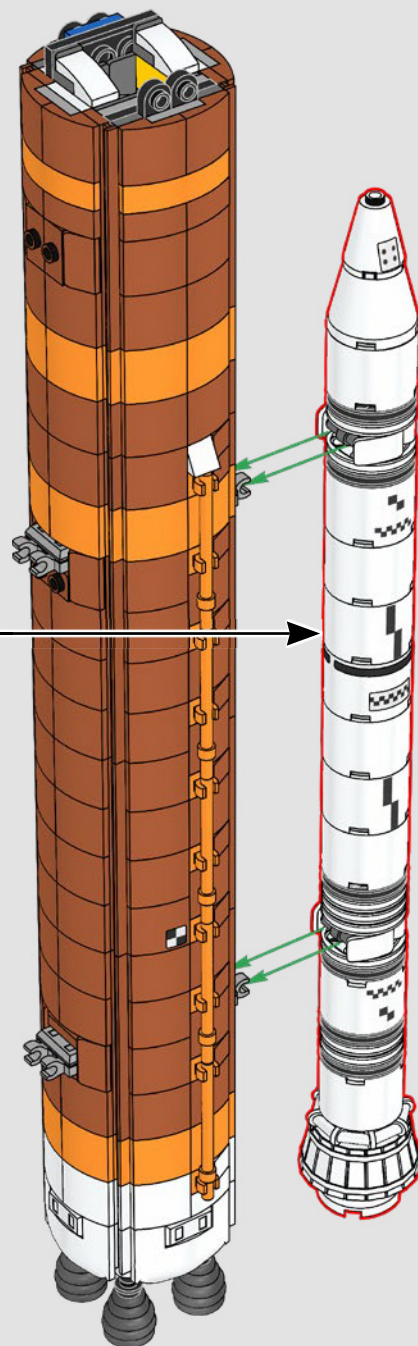
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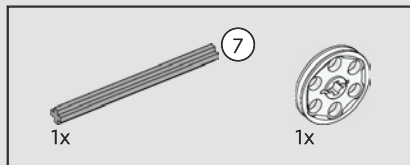
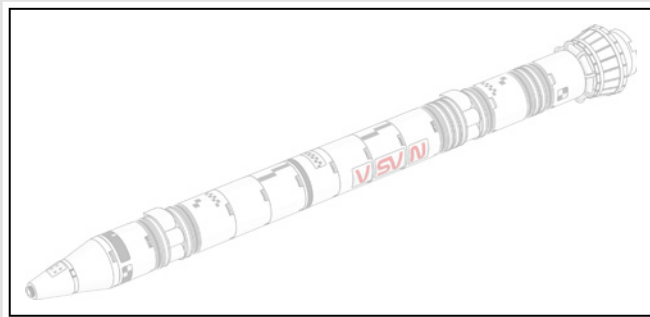


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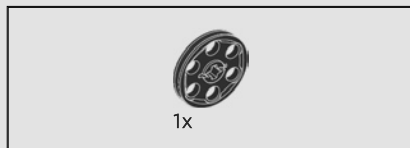
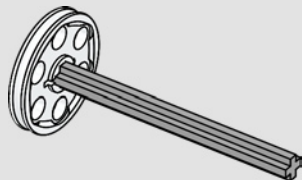


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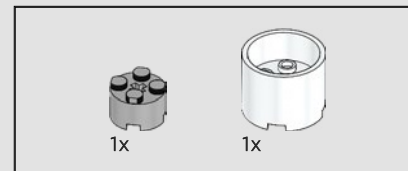
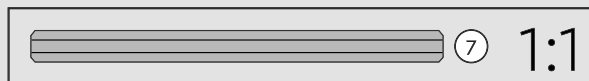
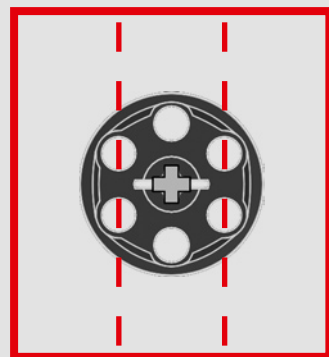
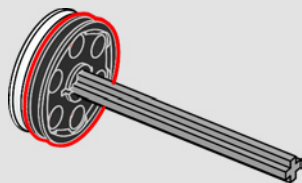




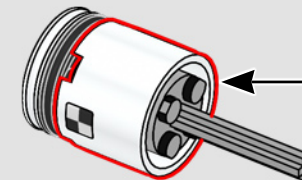
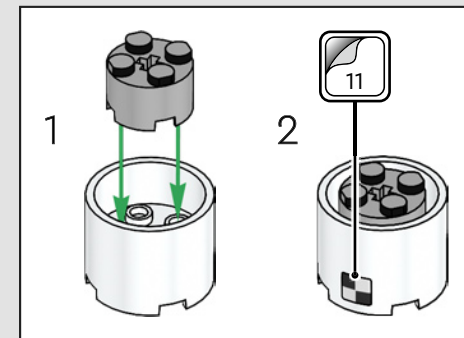
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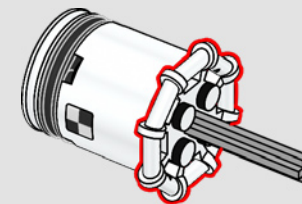
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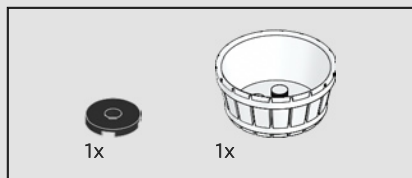


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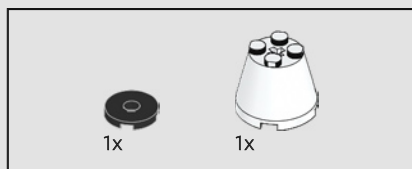
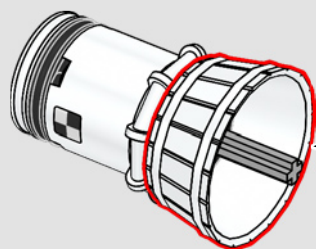
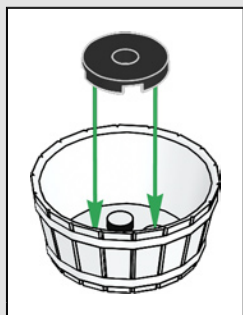


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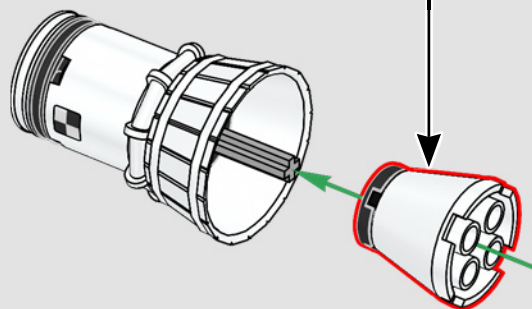
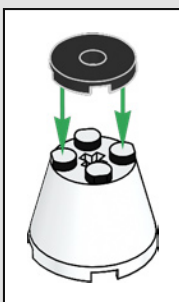




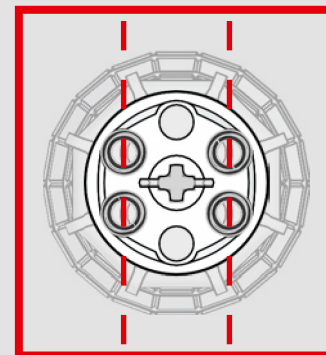
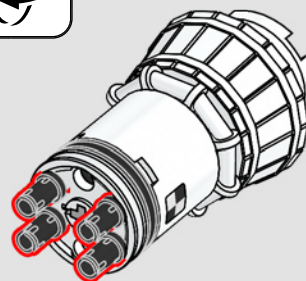
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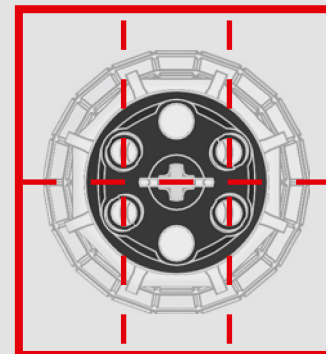
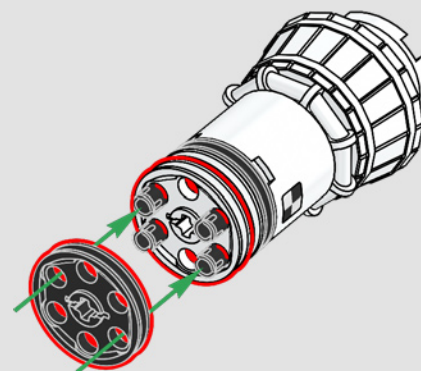
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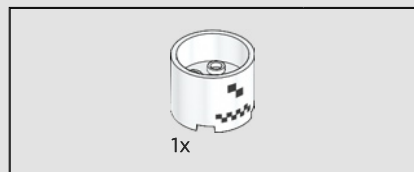
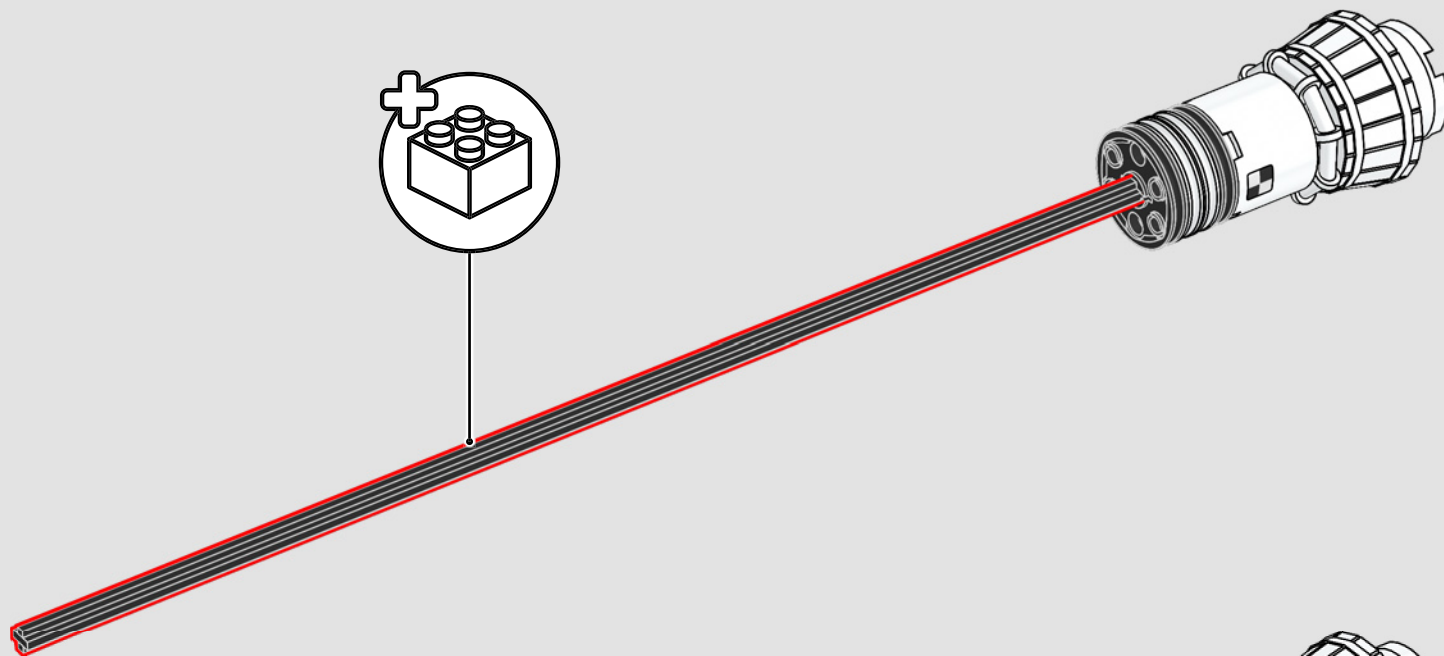
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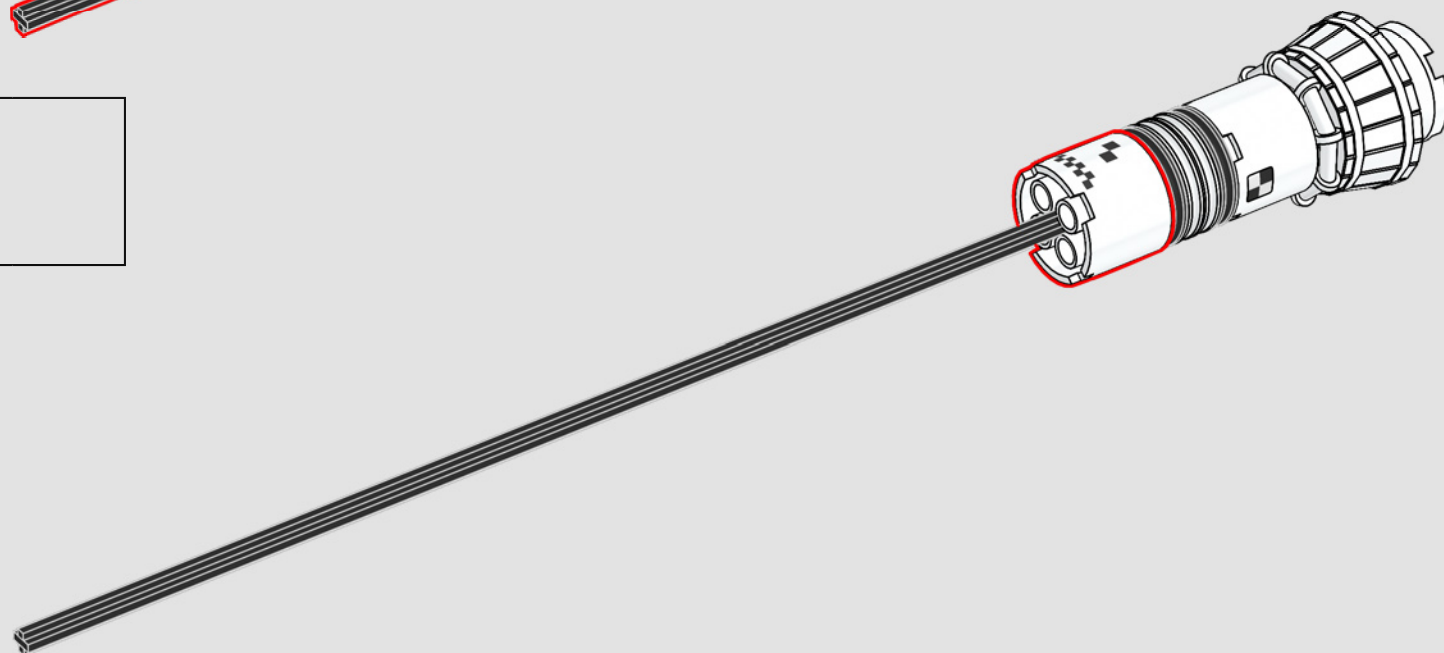
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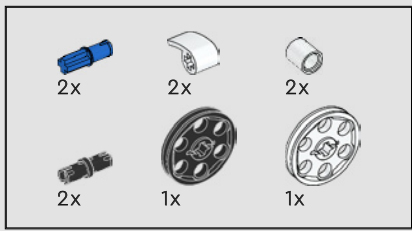


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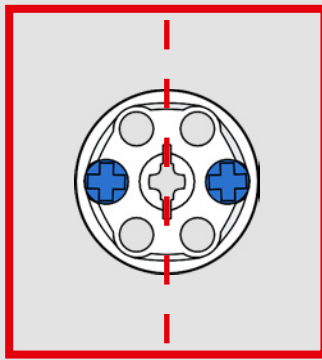
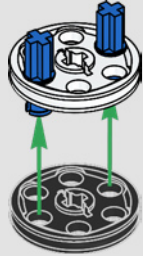
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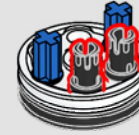


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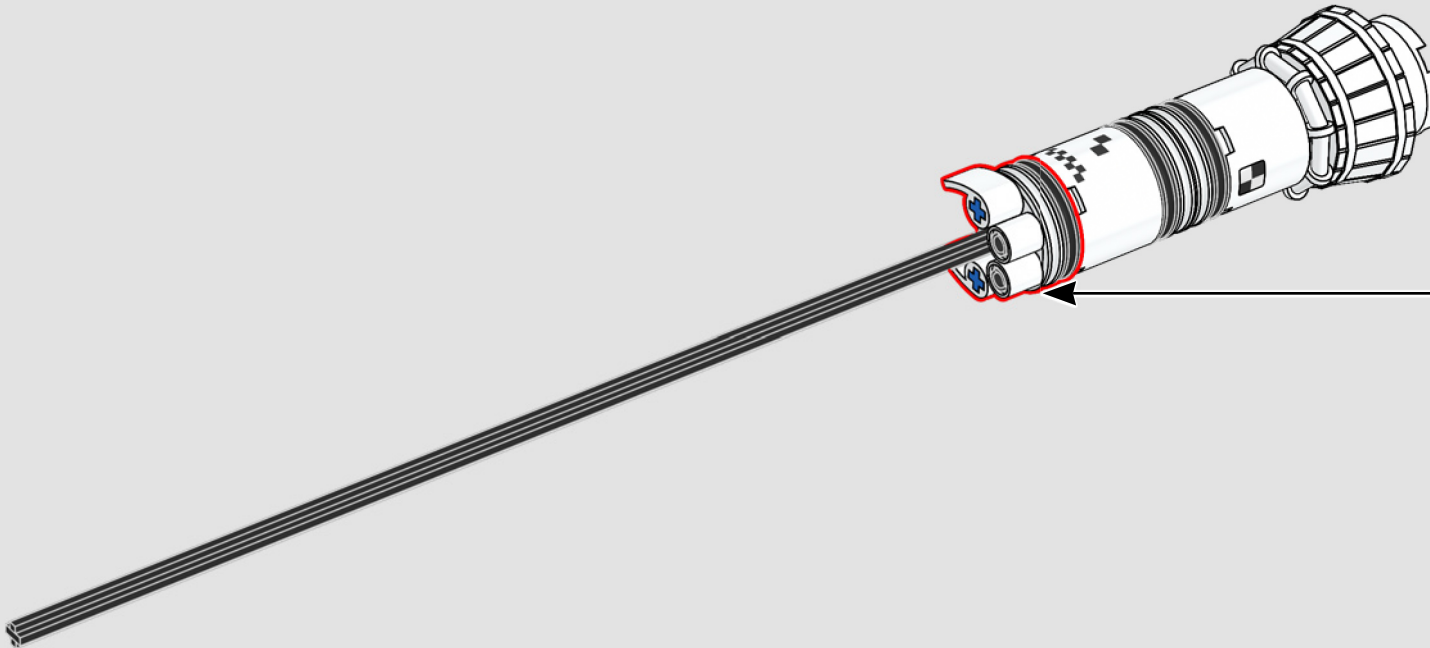
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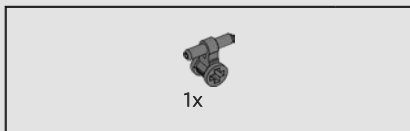


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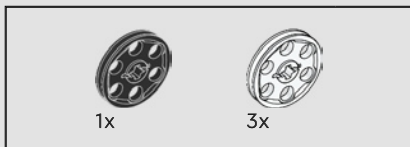
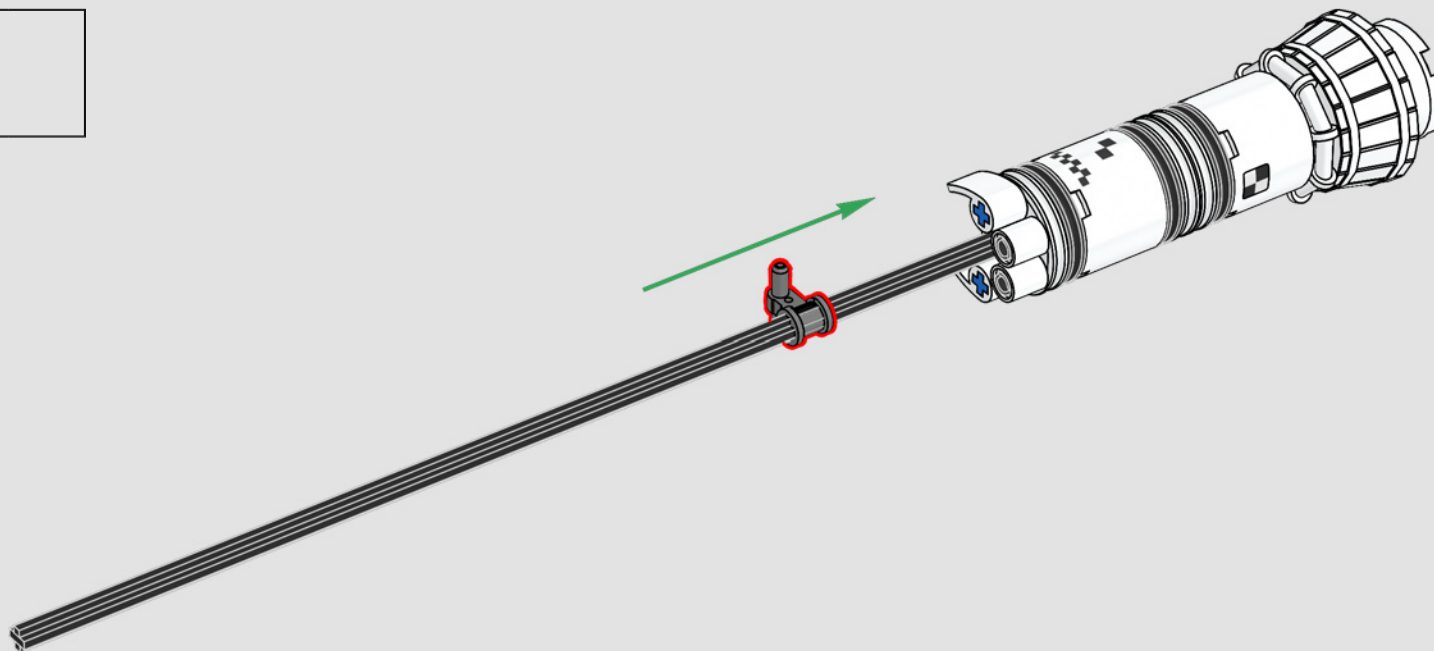


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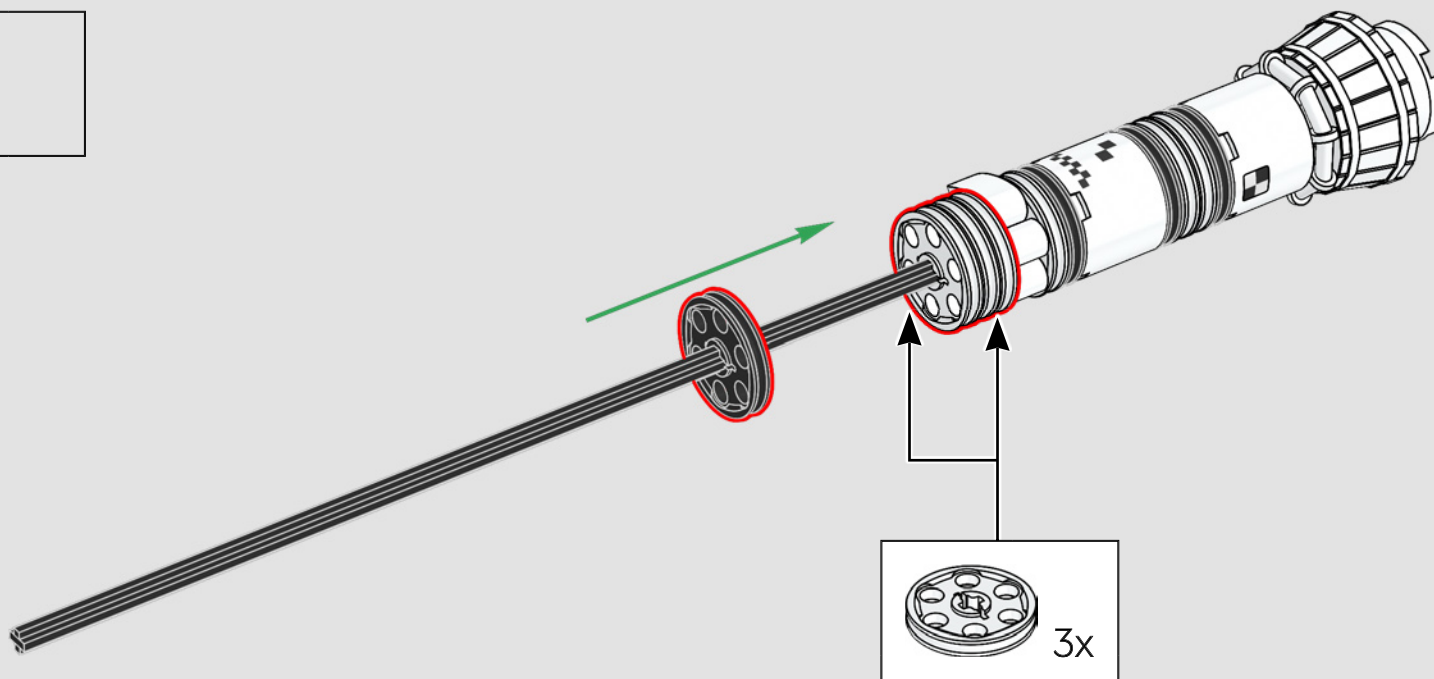


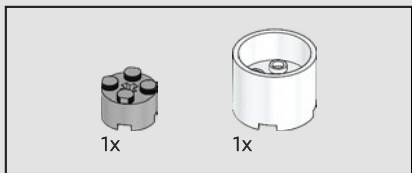


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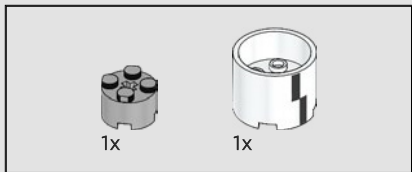
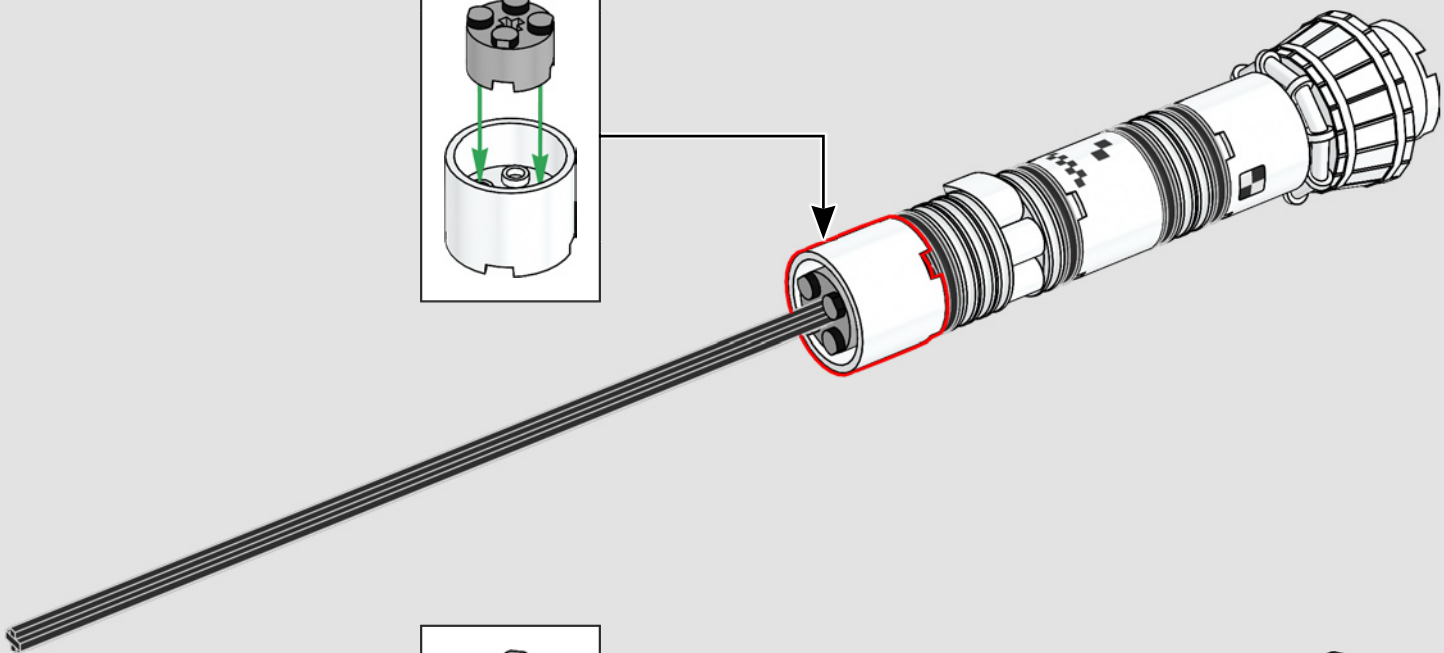
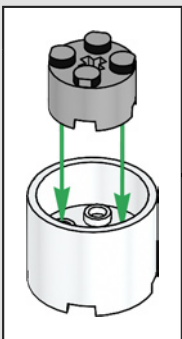


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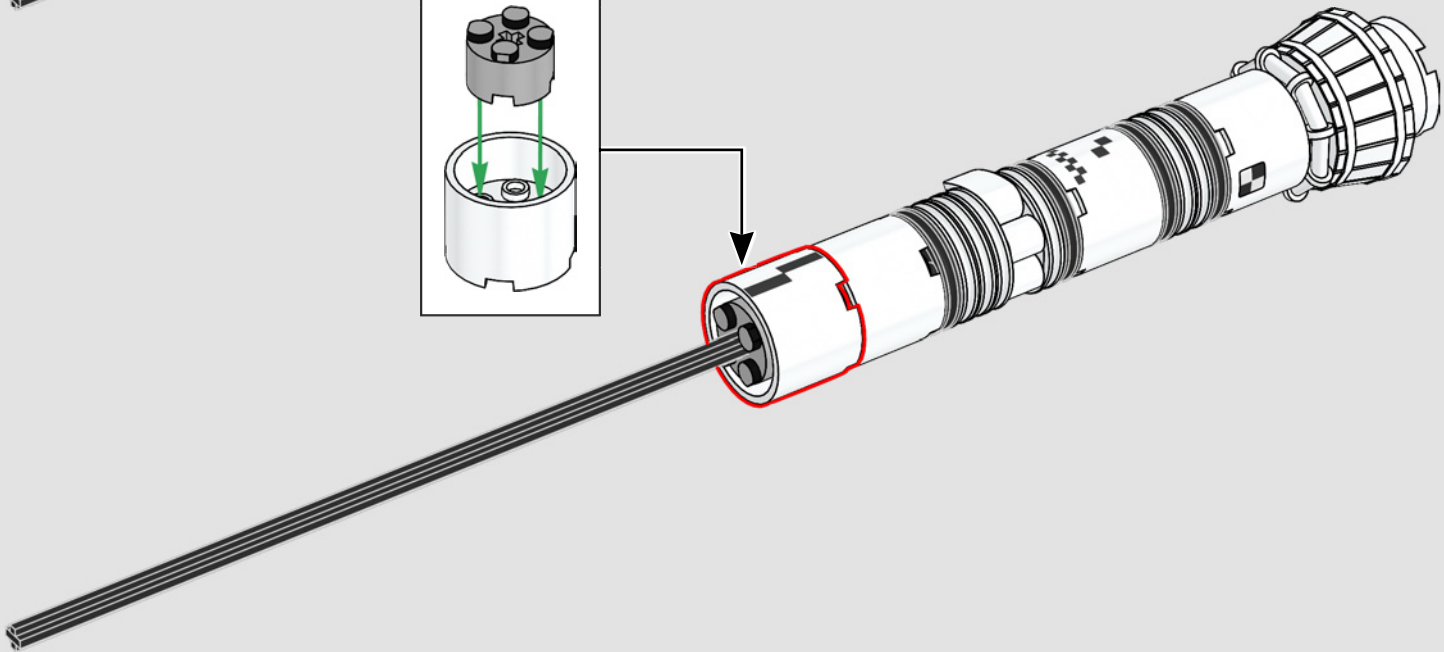
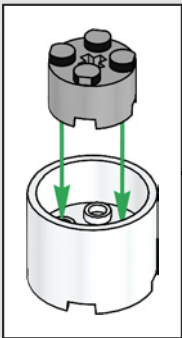


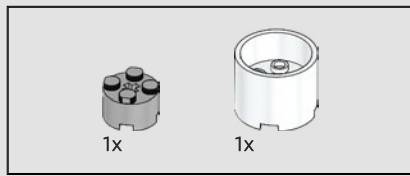


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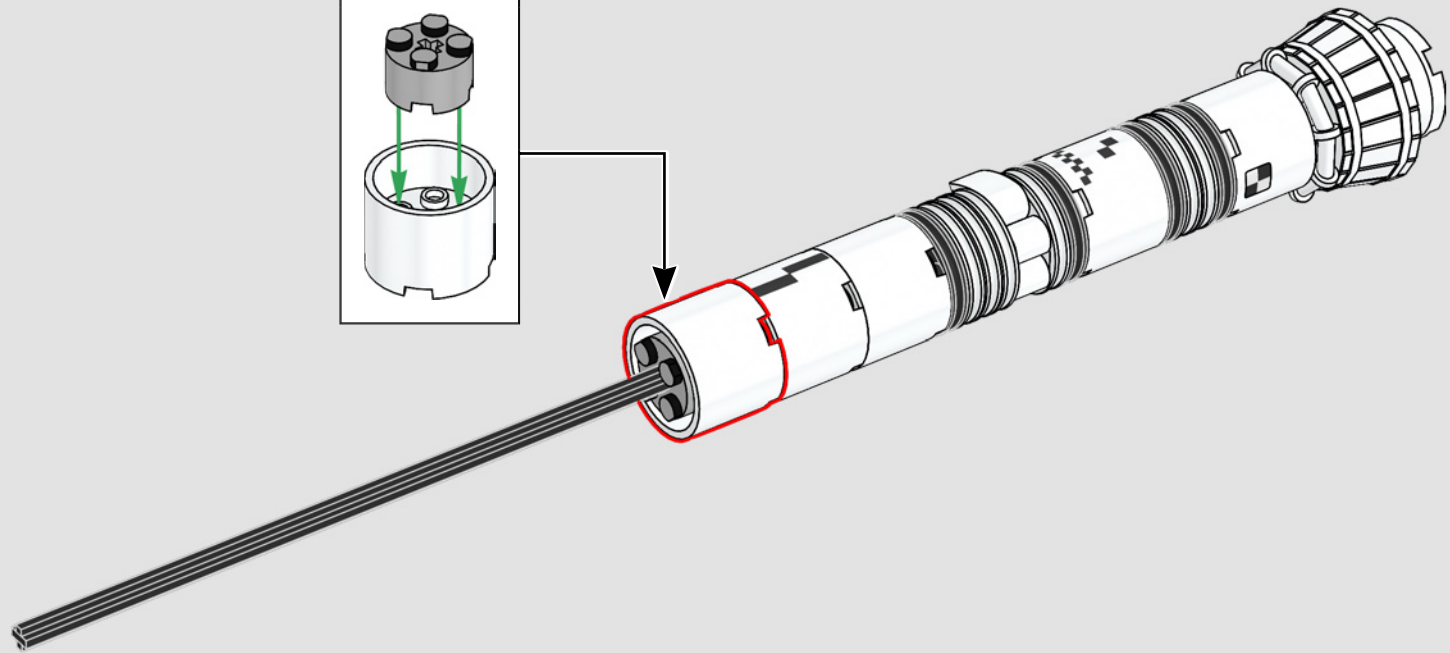
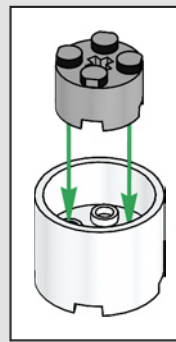


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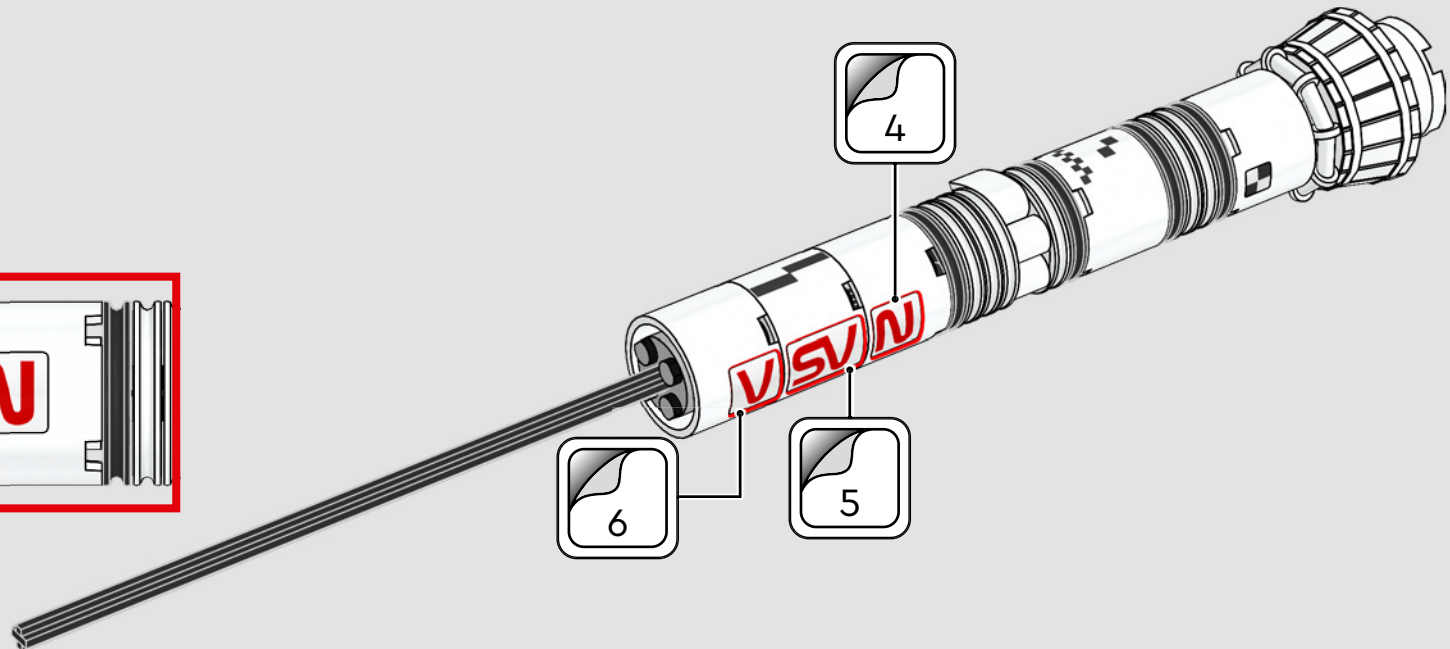
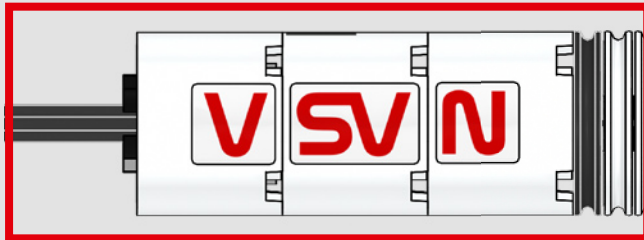


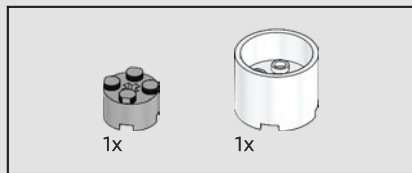


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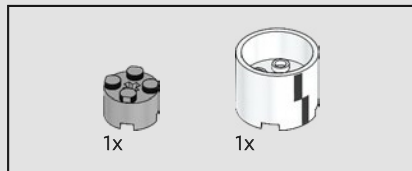
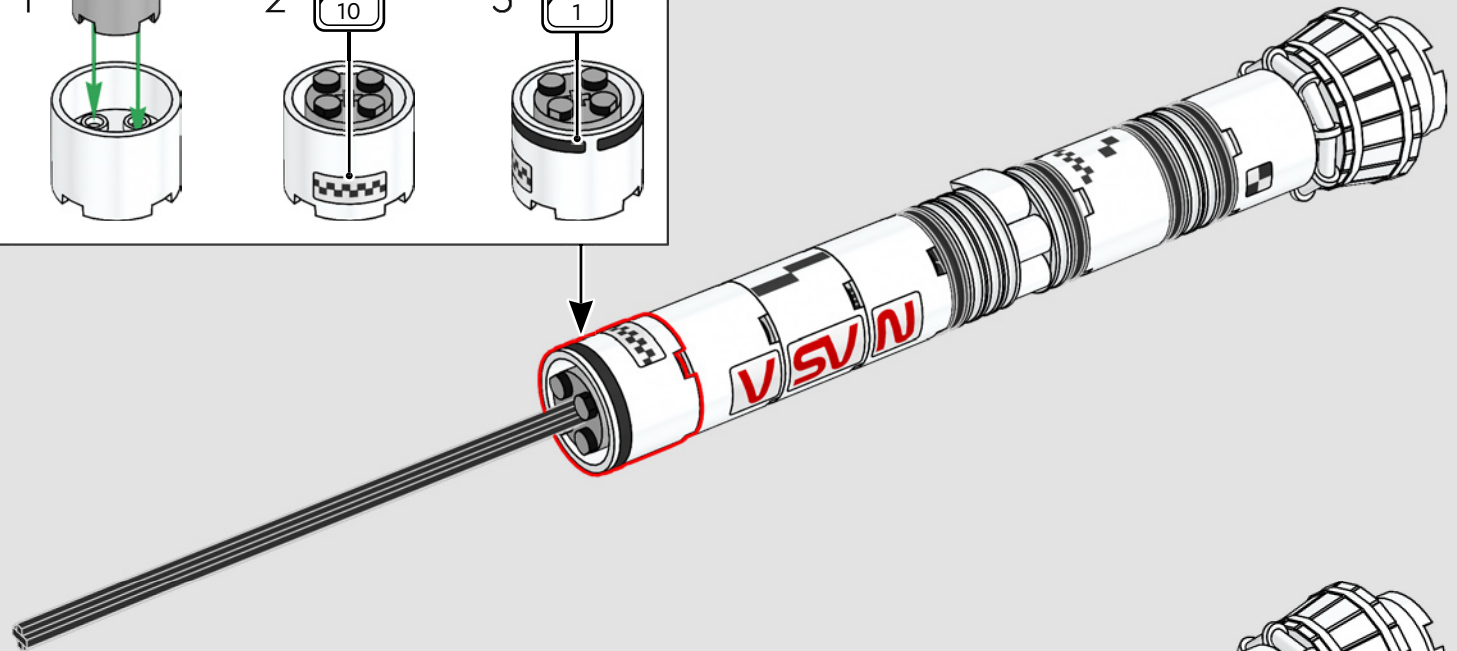
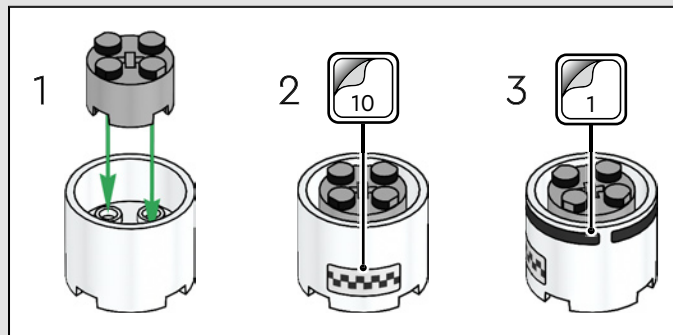


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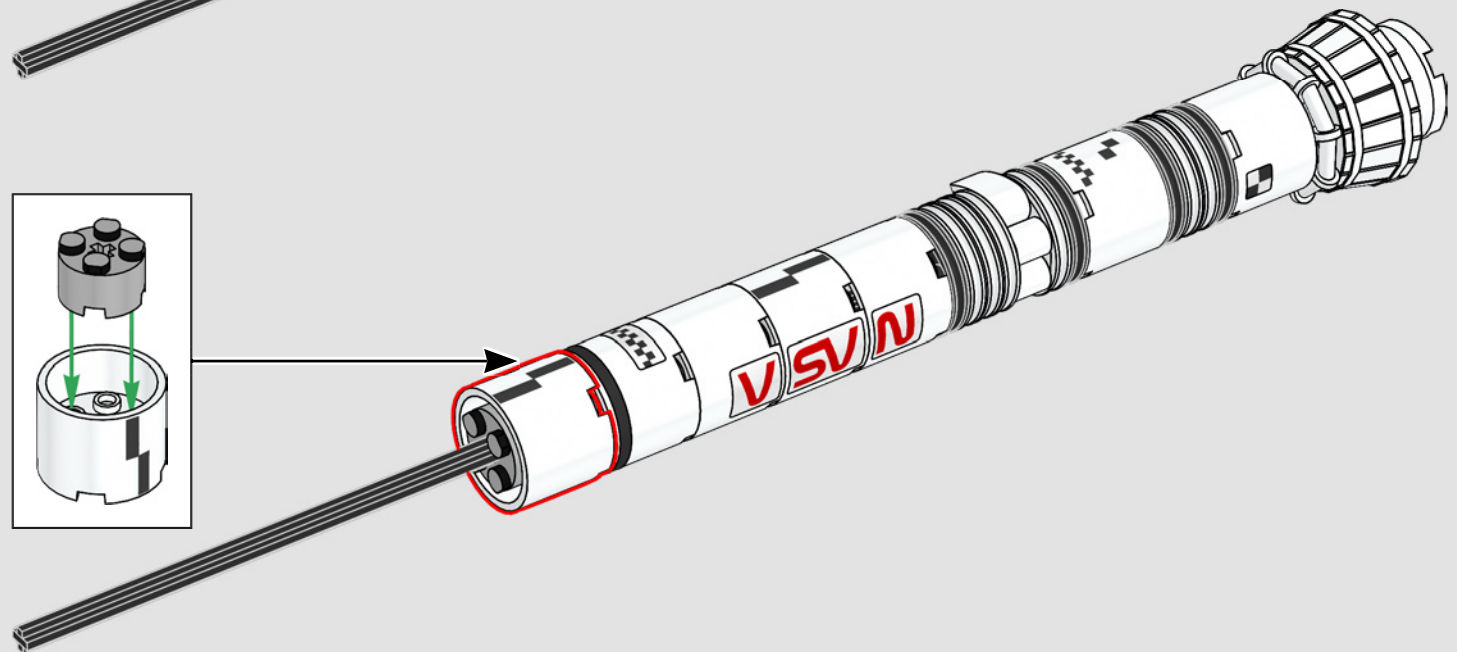
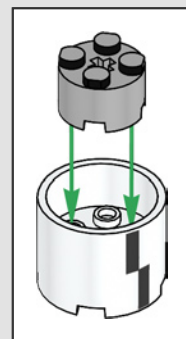


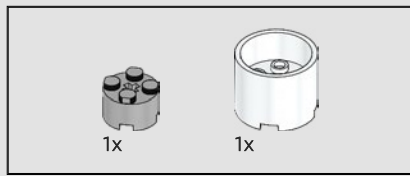


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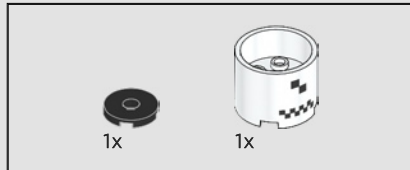
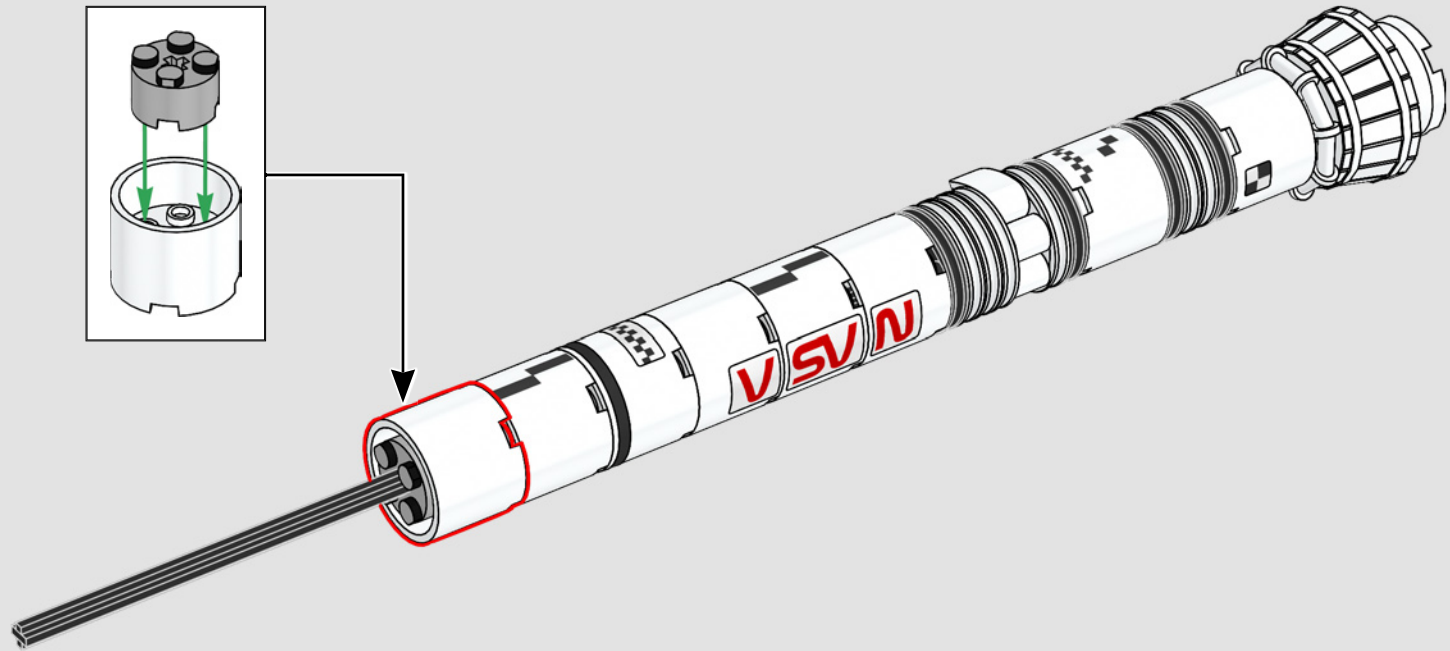
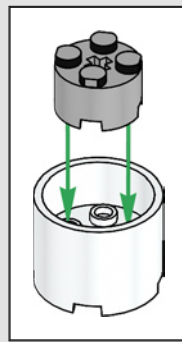


601

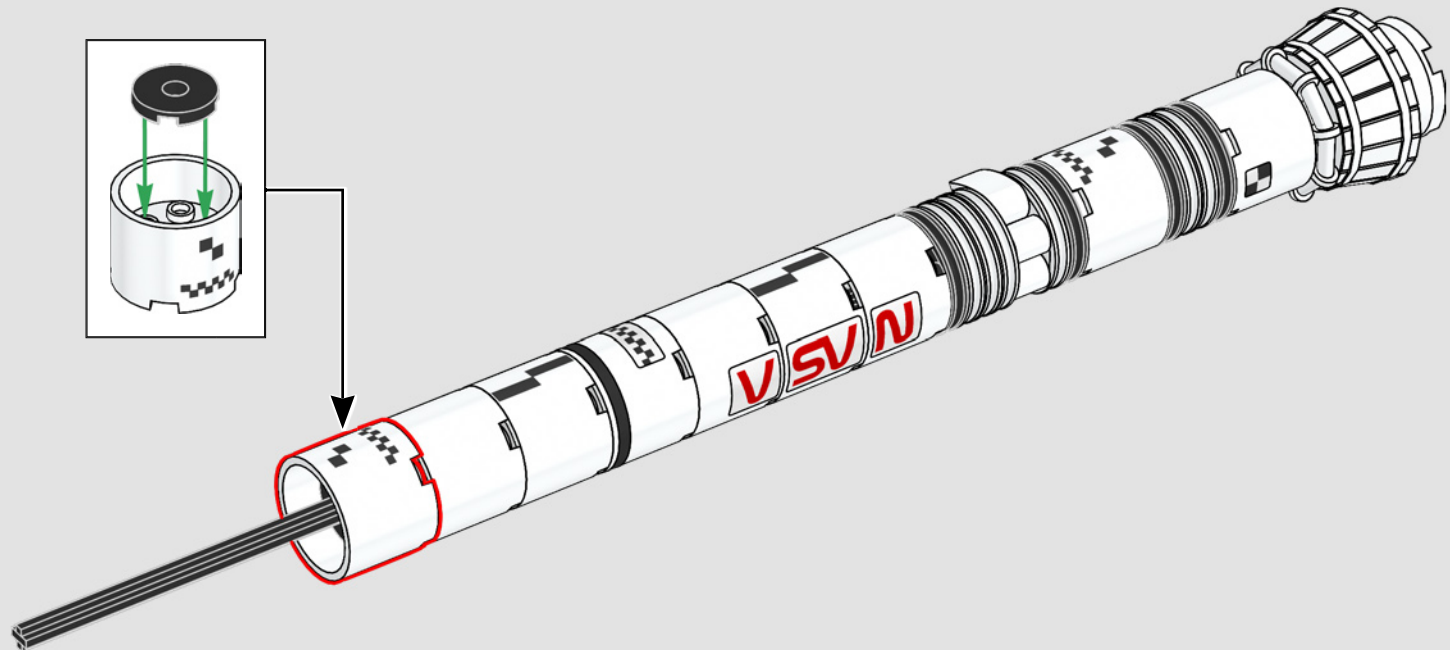
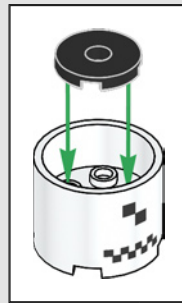


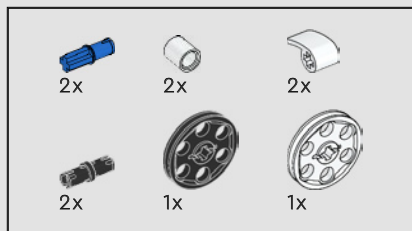


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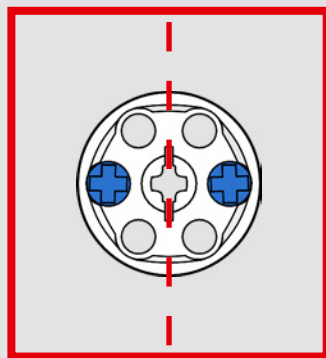
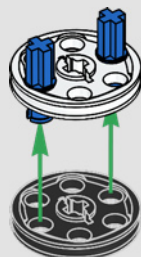
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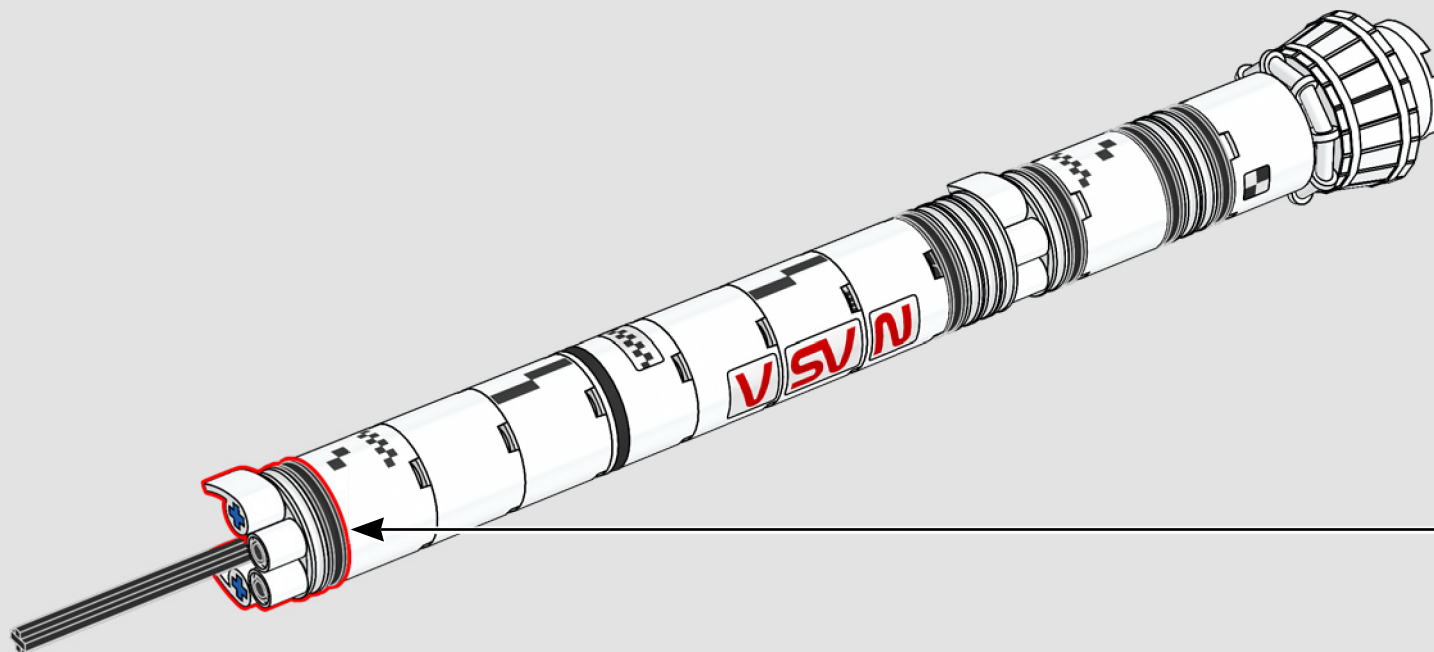
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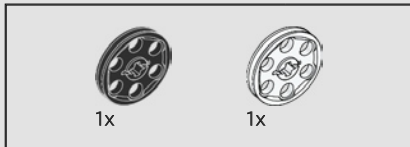
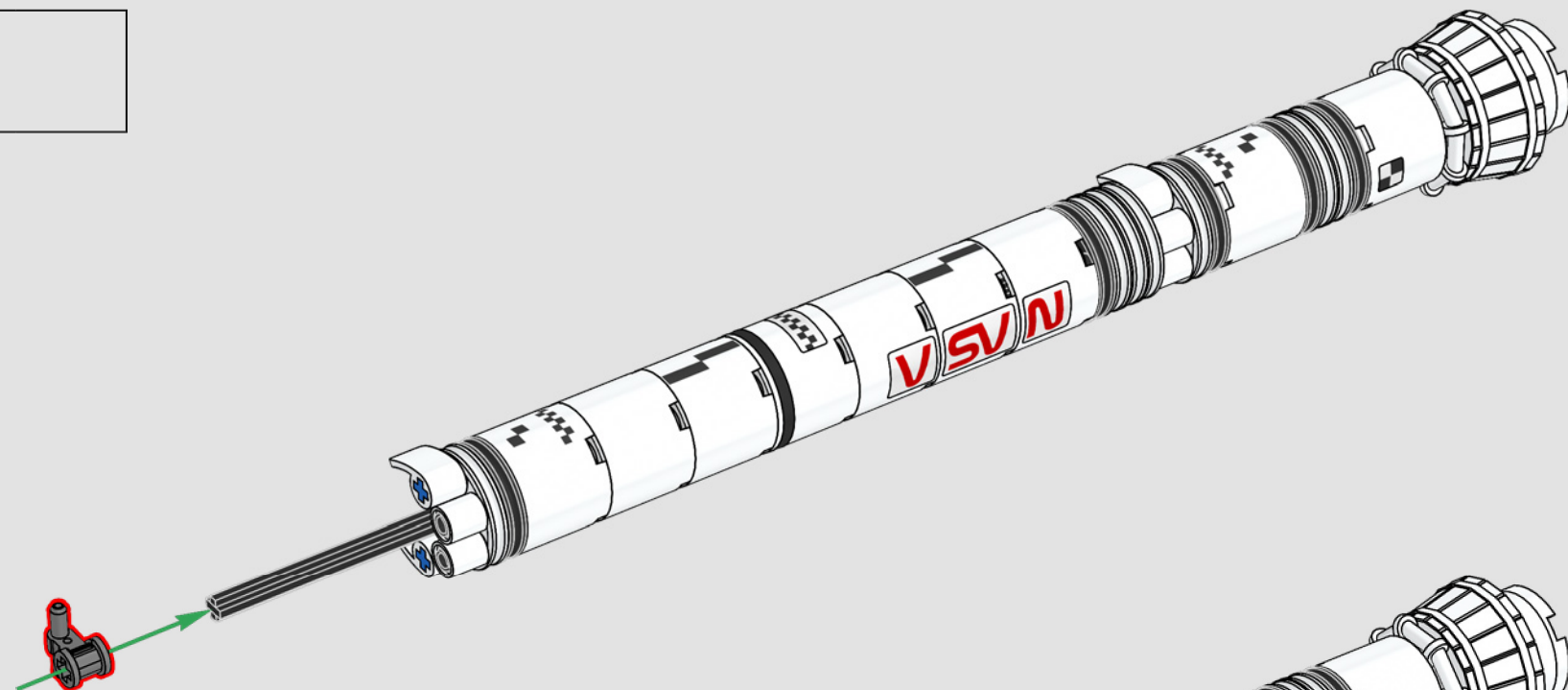


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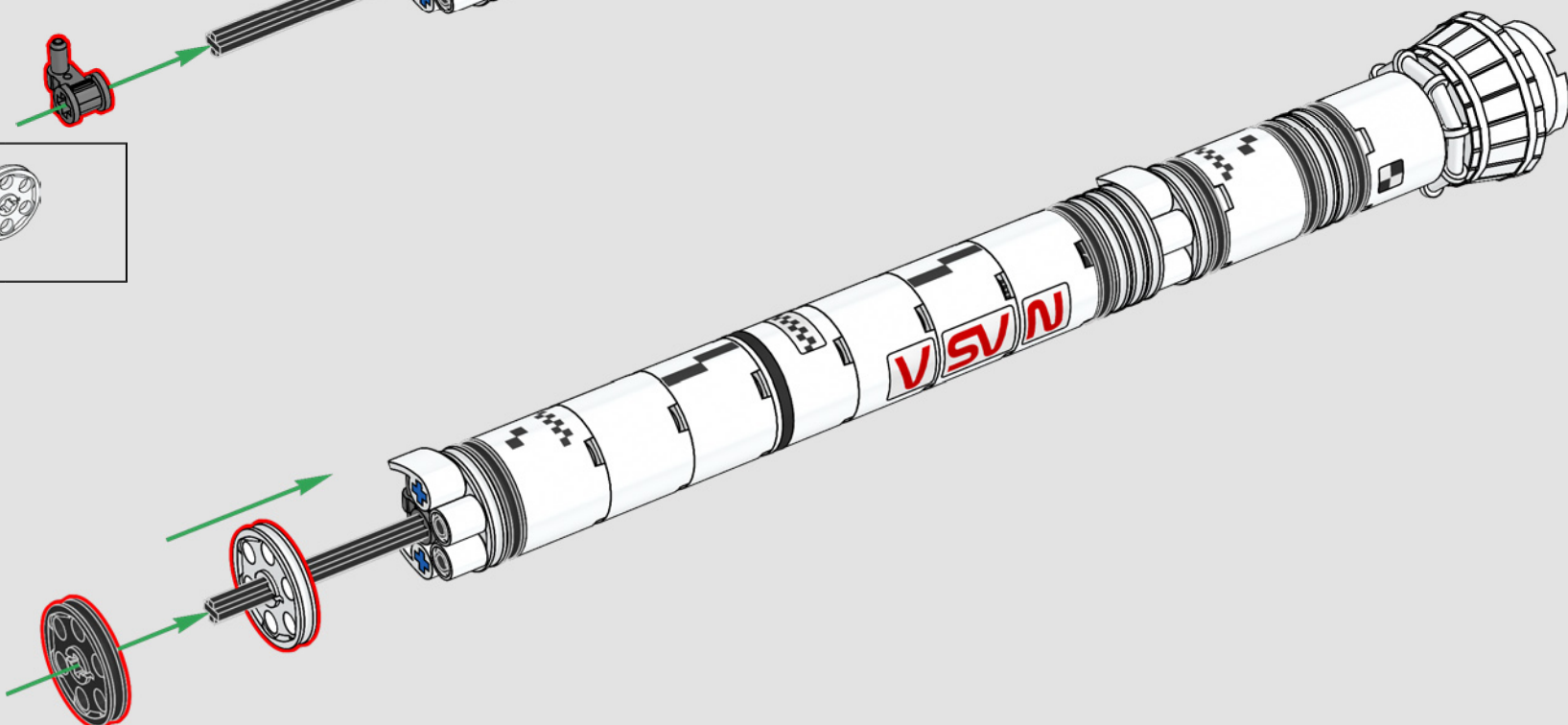


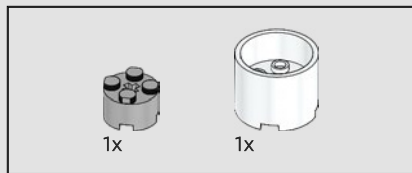


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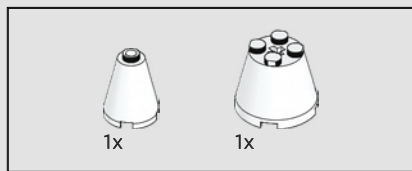
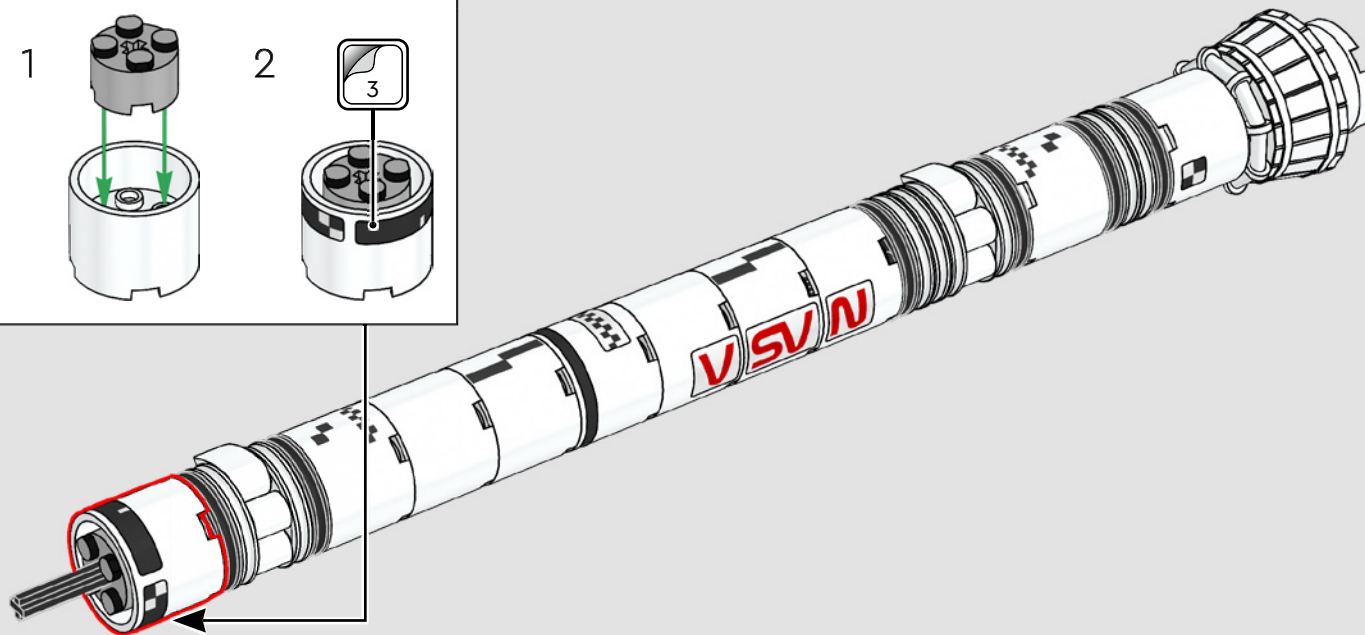
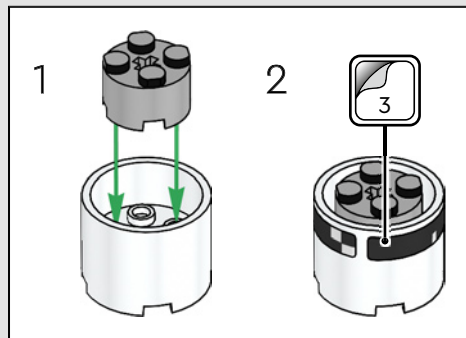


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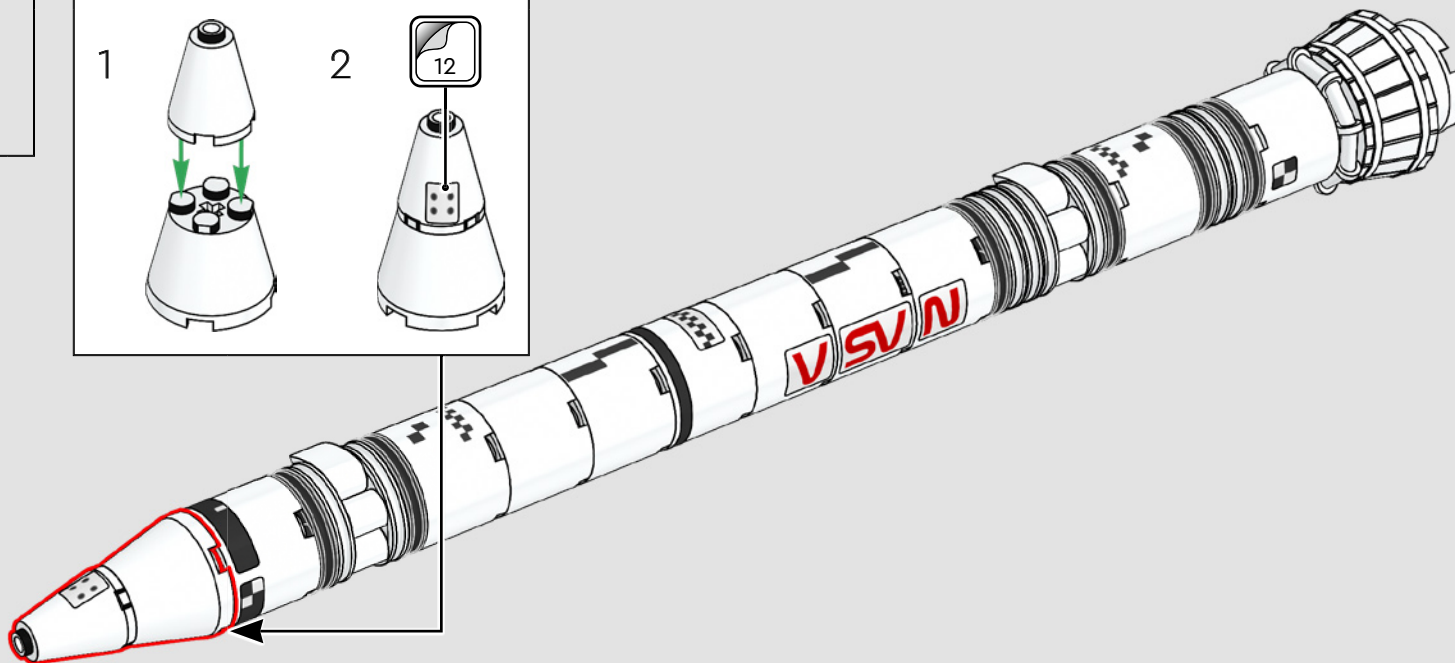
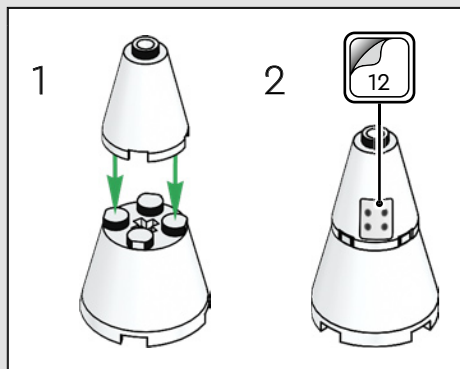




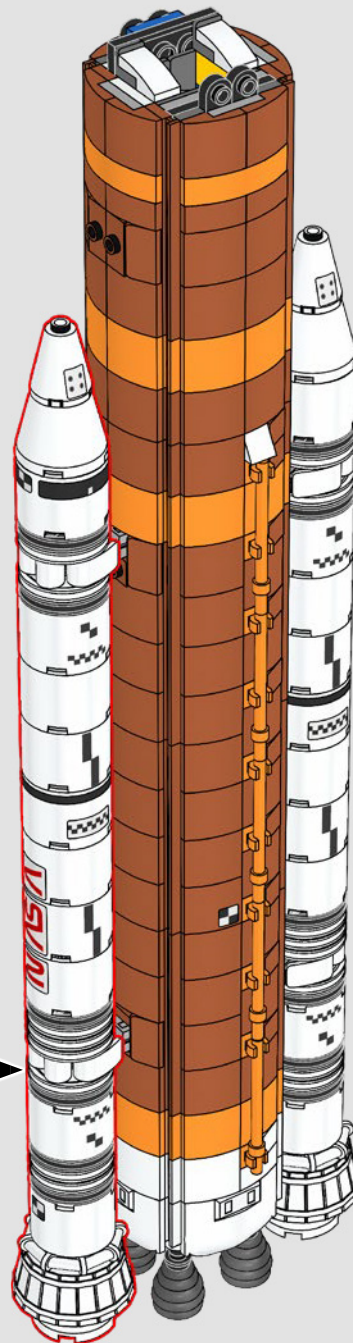
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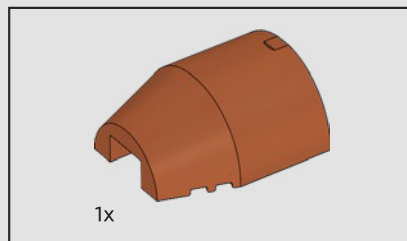
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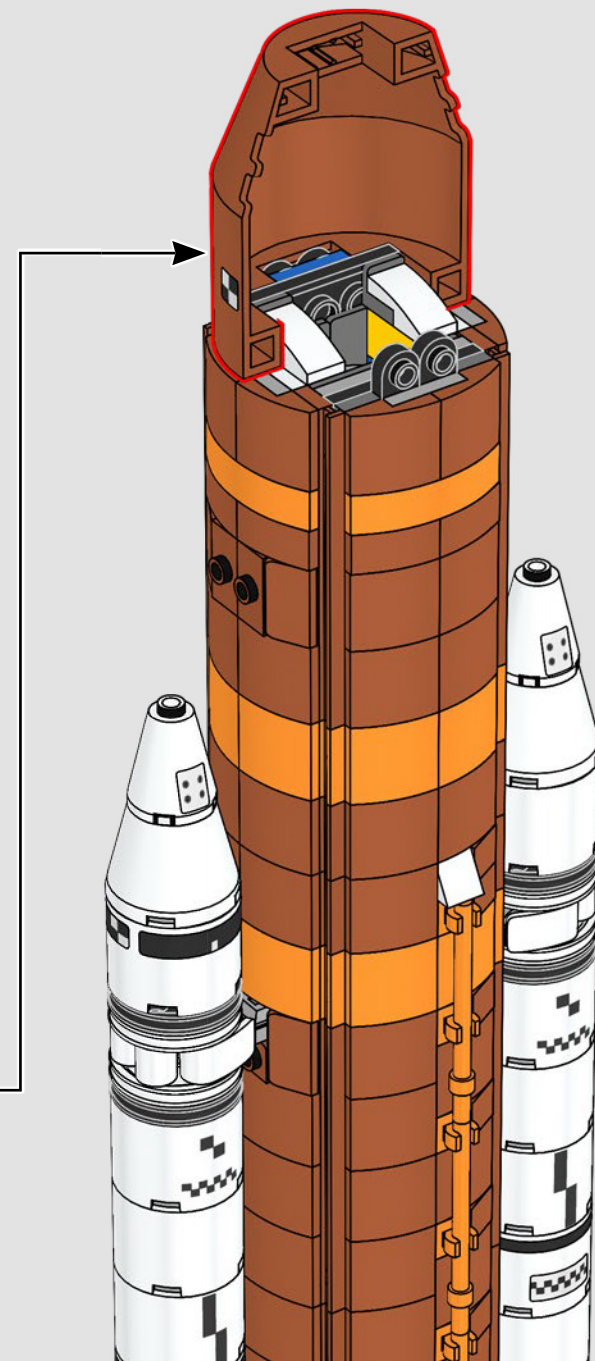
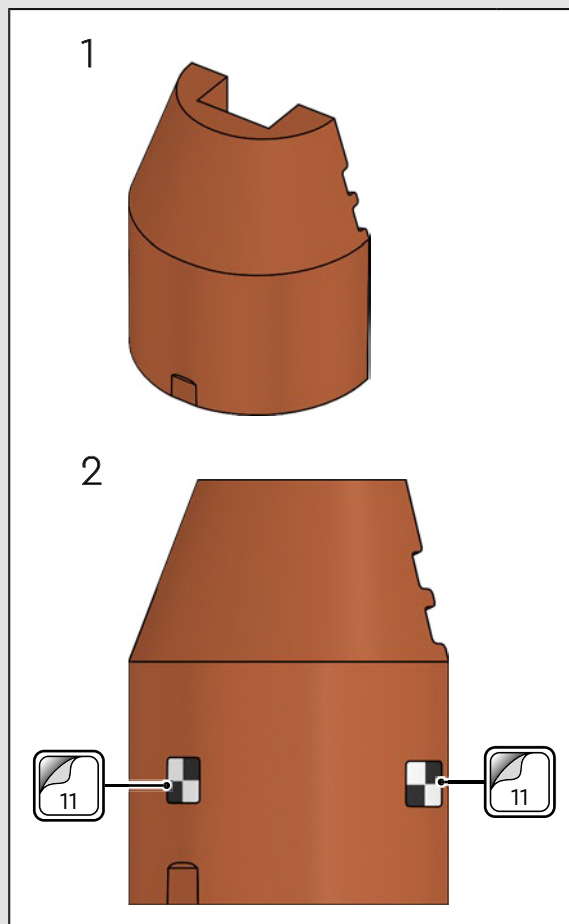
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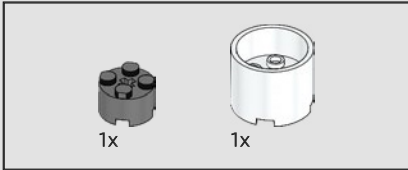
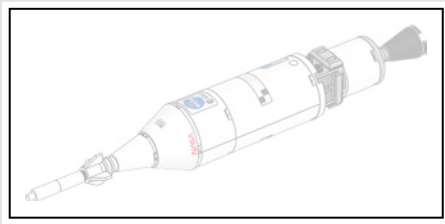


Das kegelförmige Element oben auf den Boostern wurde bereits 1979 für die Raketen aus der Themenwelt LEGO® Classic Space verwendet, hatte damals jedoch eine feste Noppe mit dem LEGO Logo.

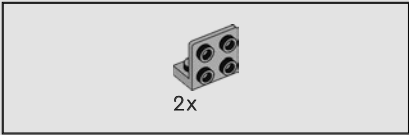
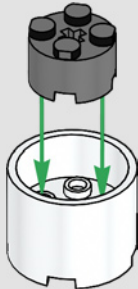


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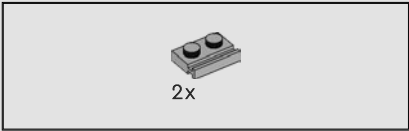
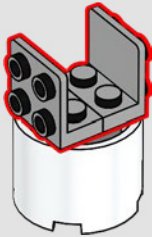




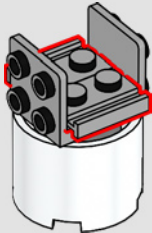
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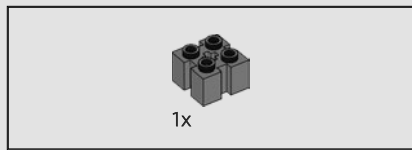


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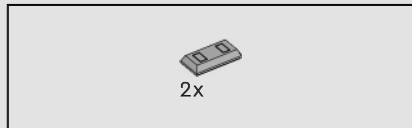
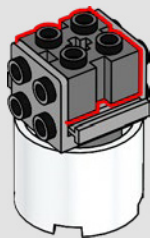


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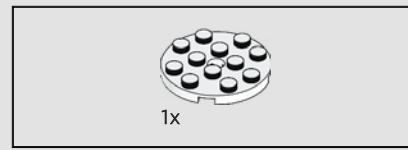
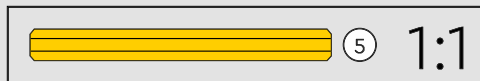
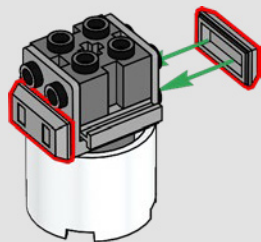




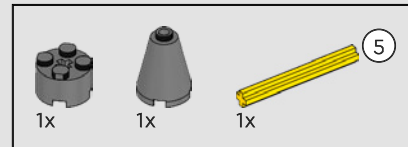
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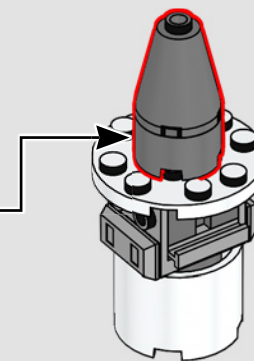
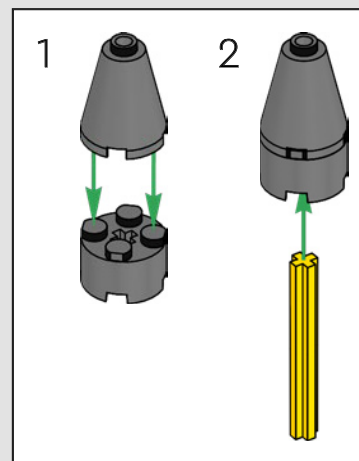
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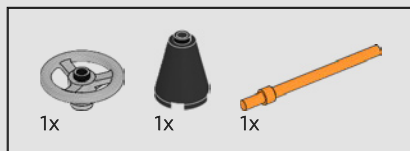


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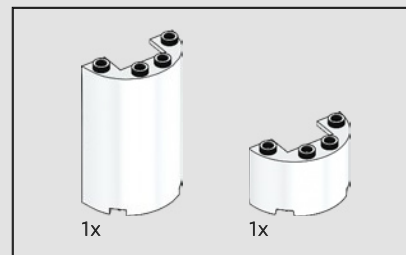
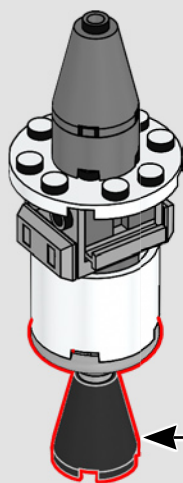
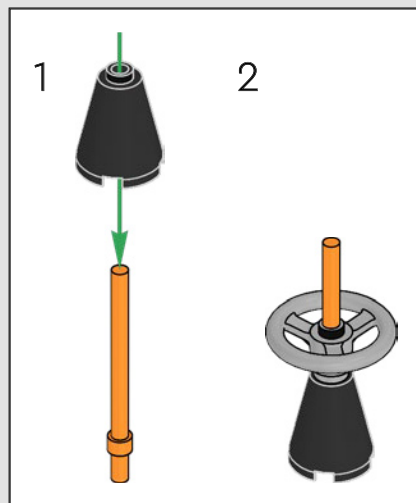


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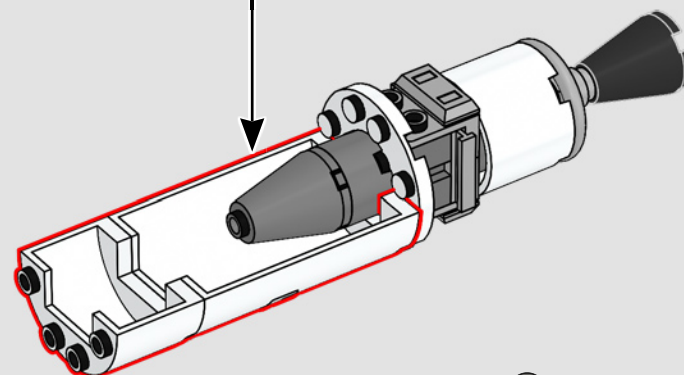
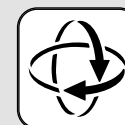
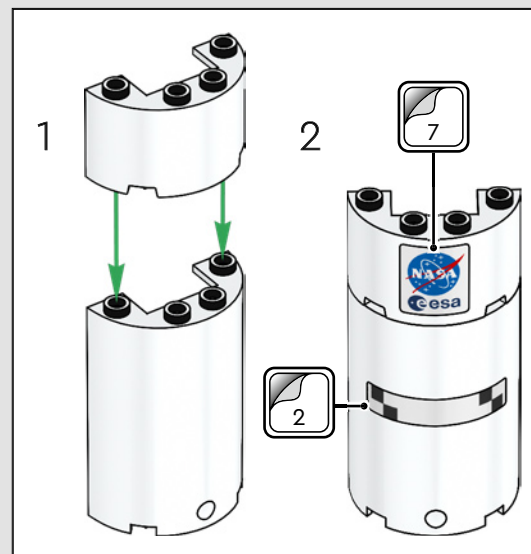


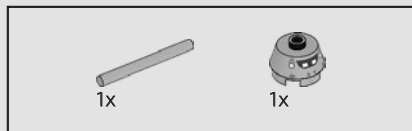


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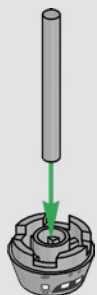


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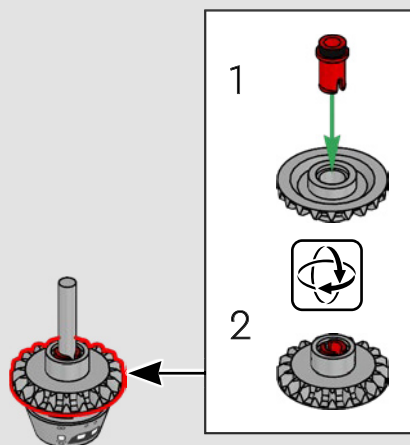




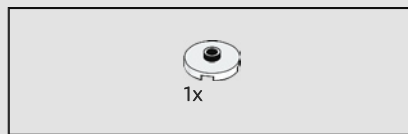
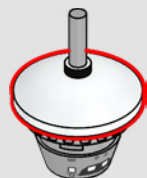
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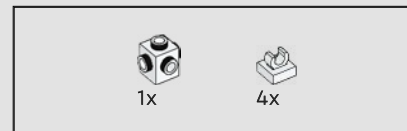
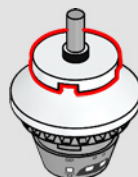
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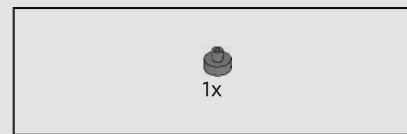
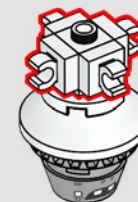
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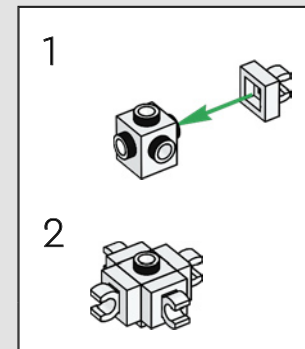
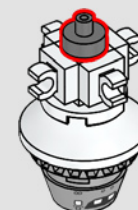
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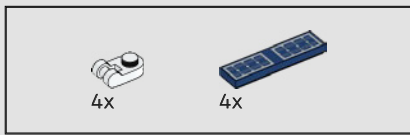


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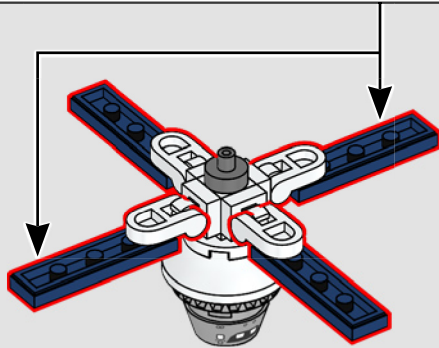
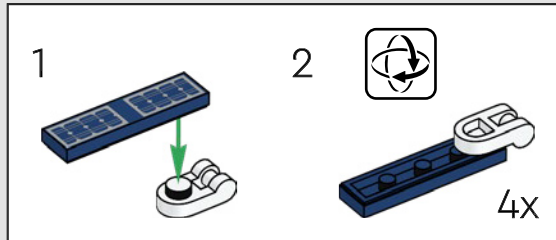


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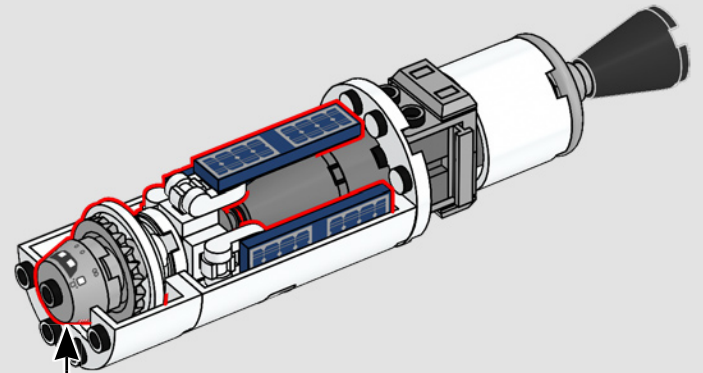
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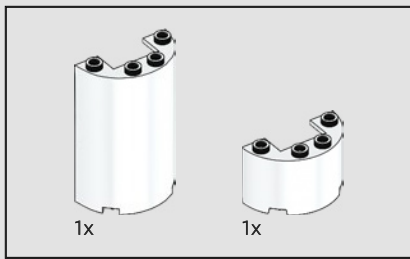


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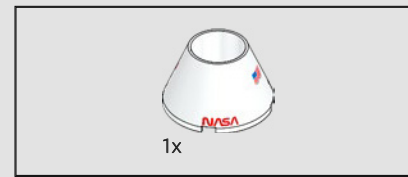
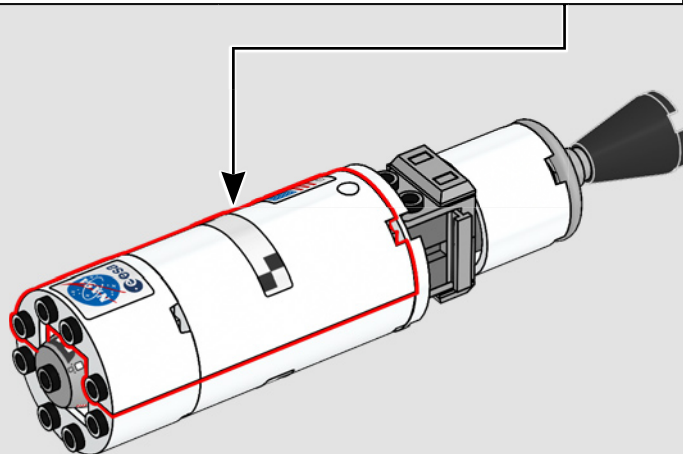
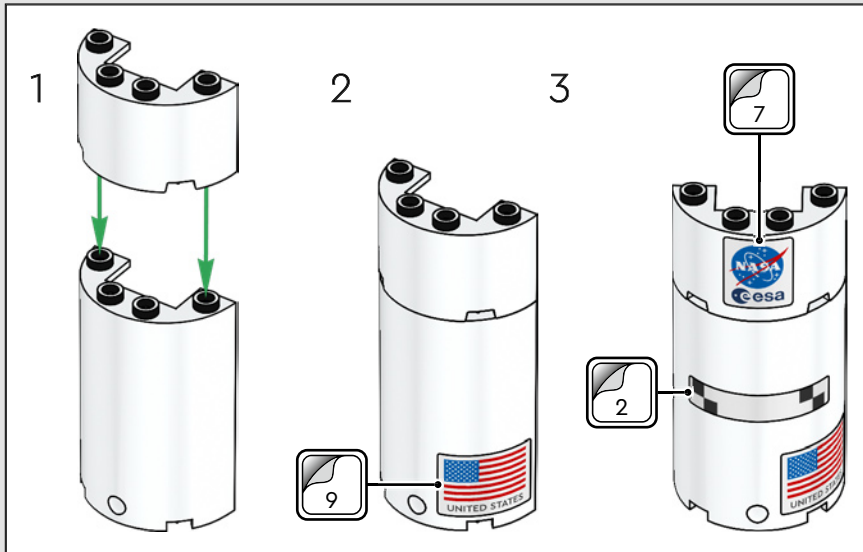


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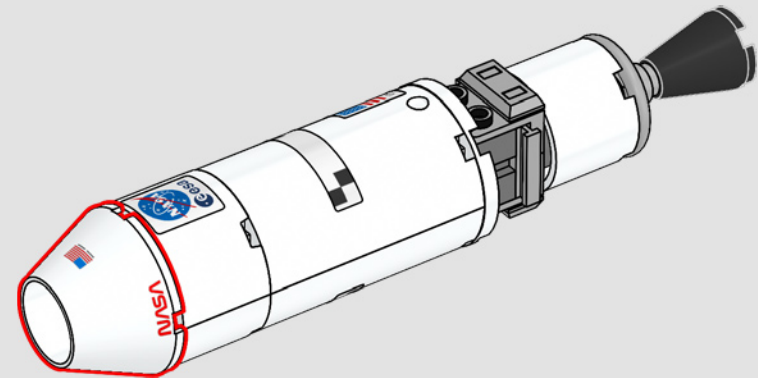


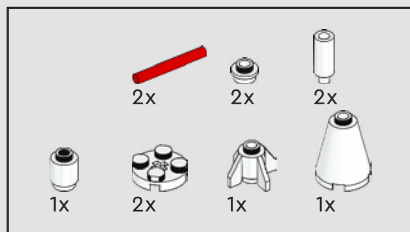


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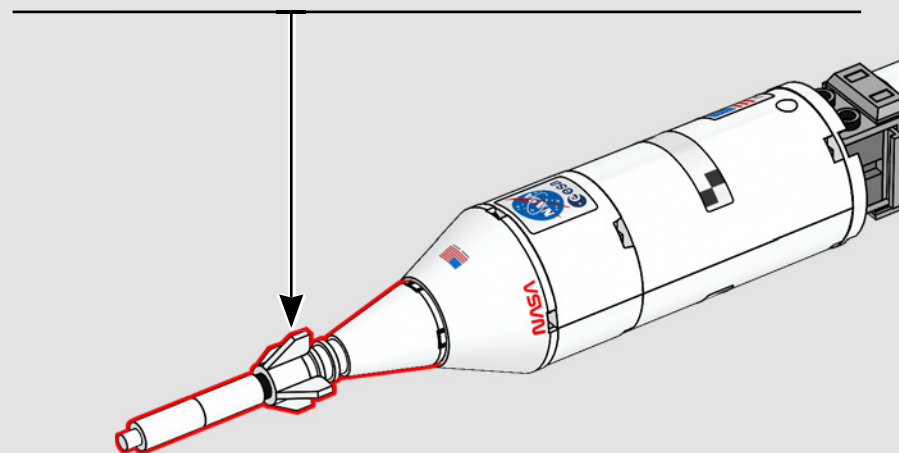
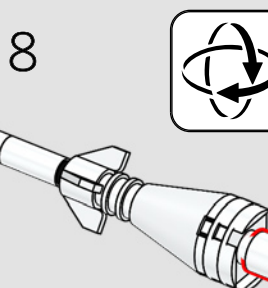
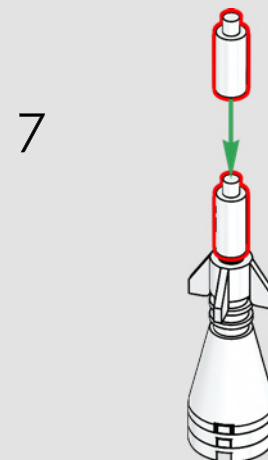
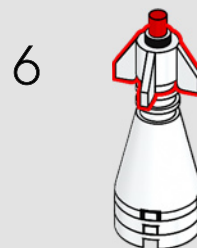
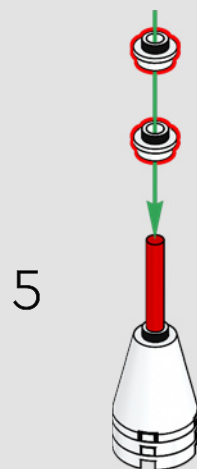
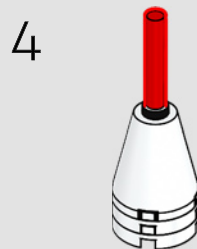
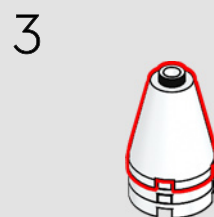
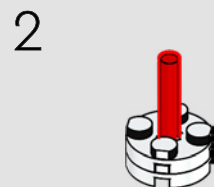
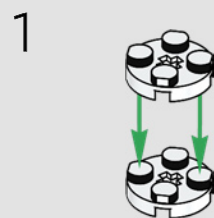


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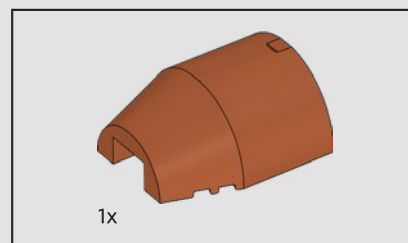
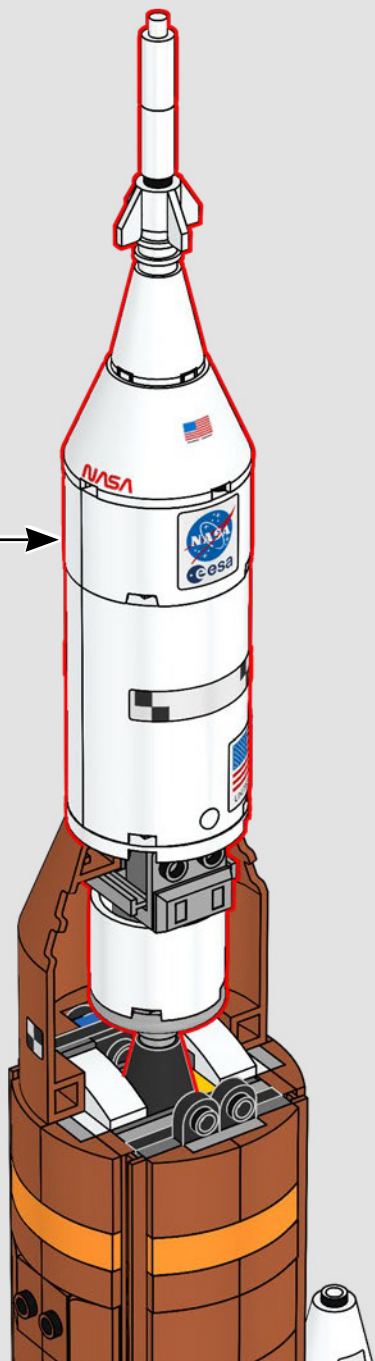




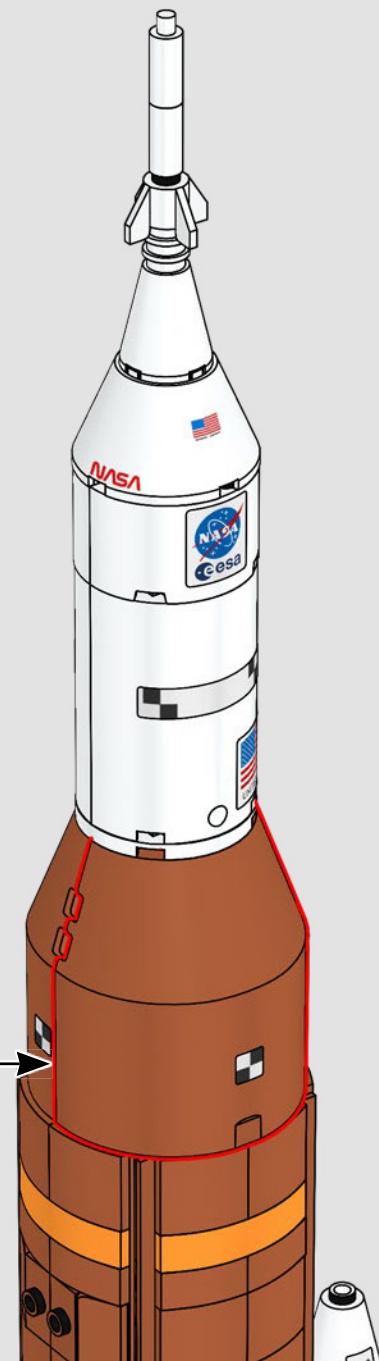
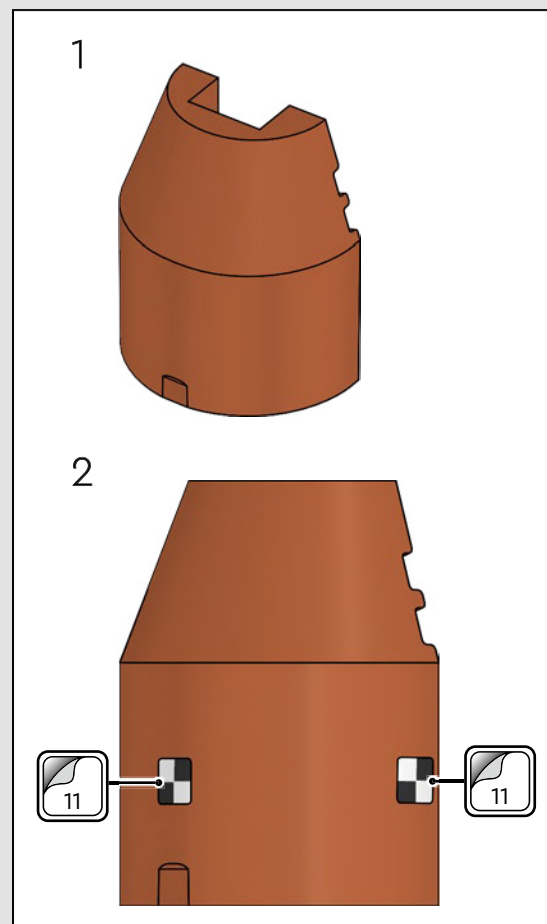
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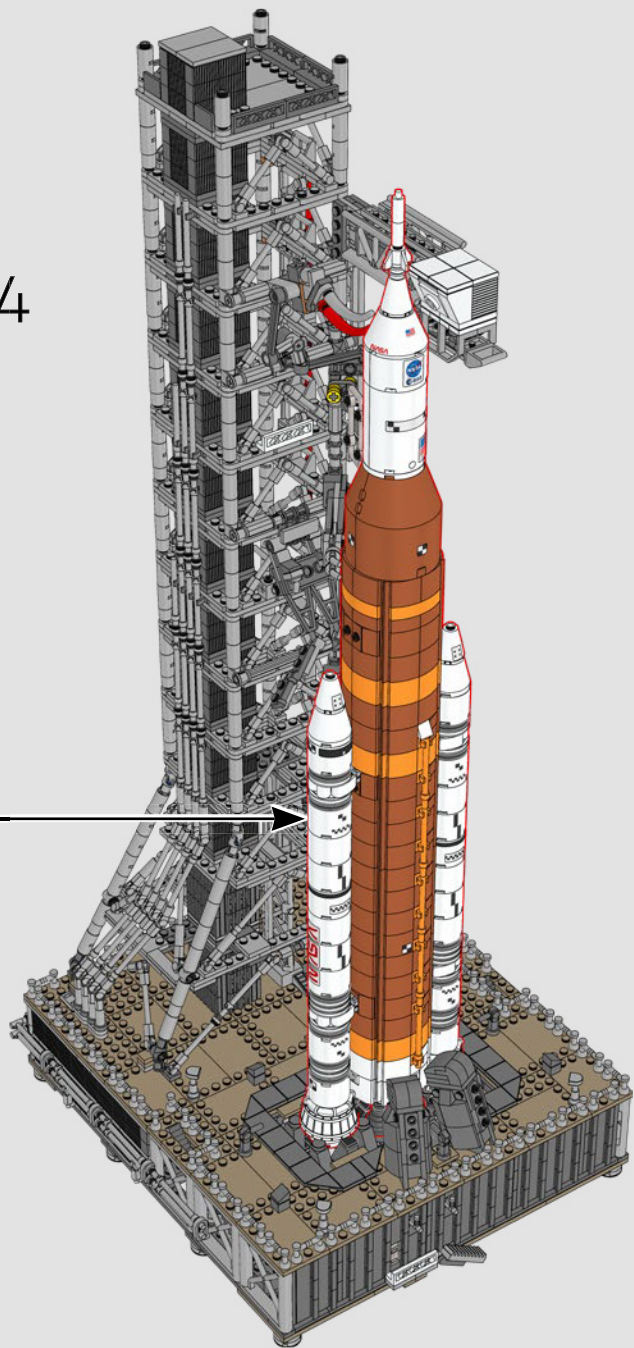
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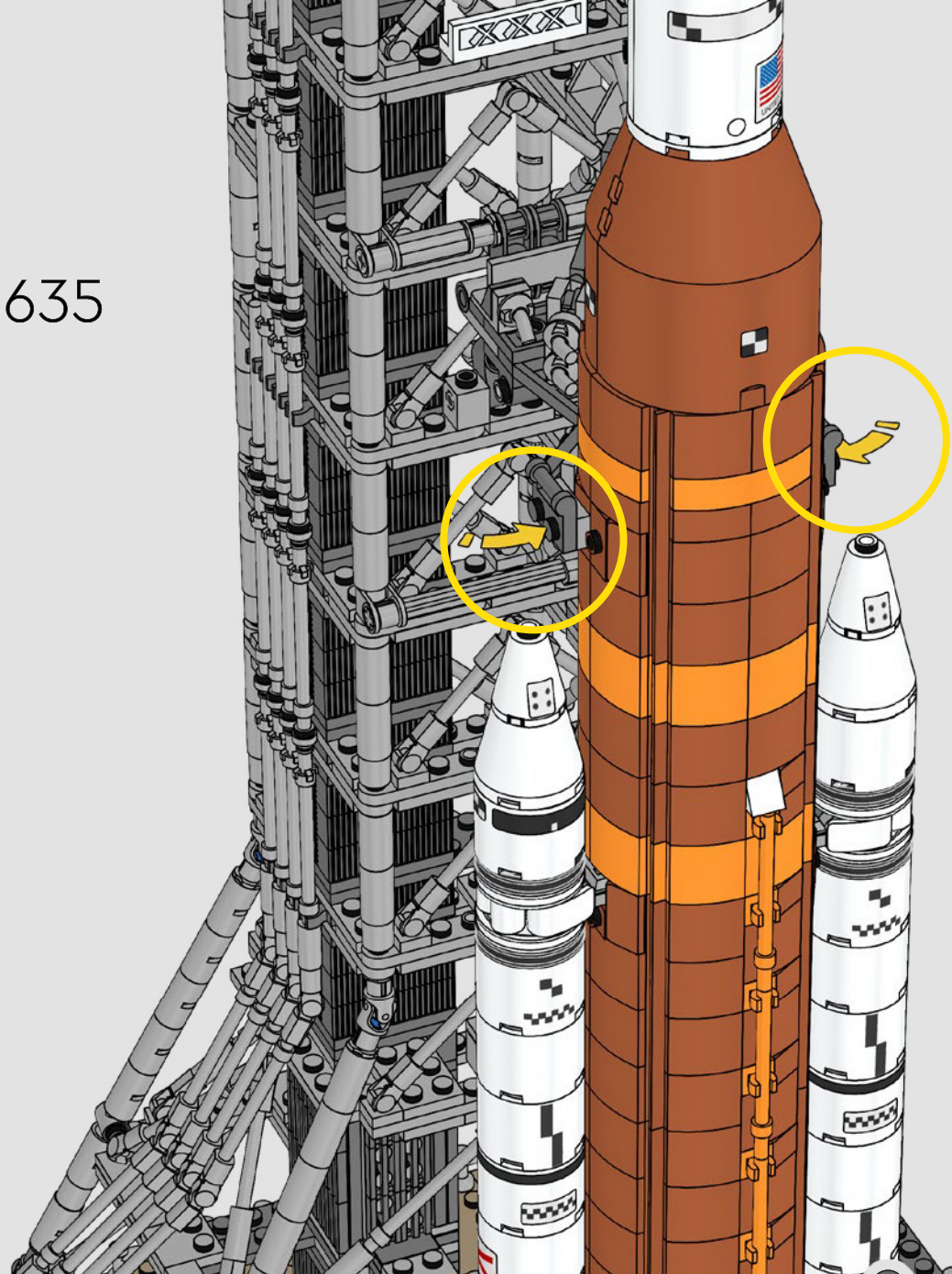
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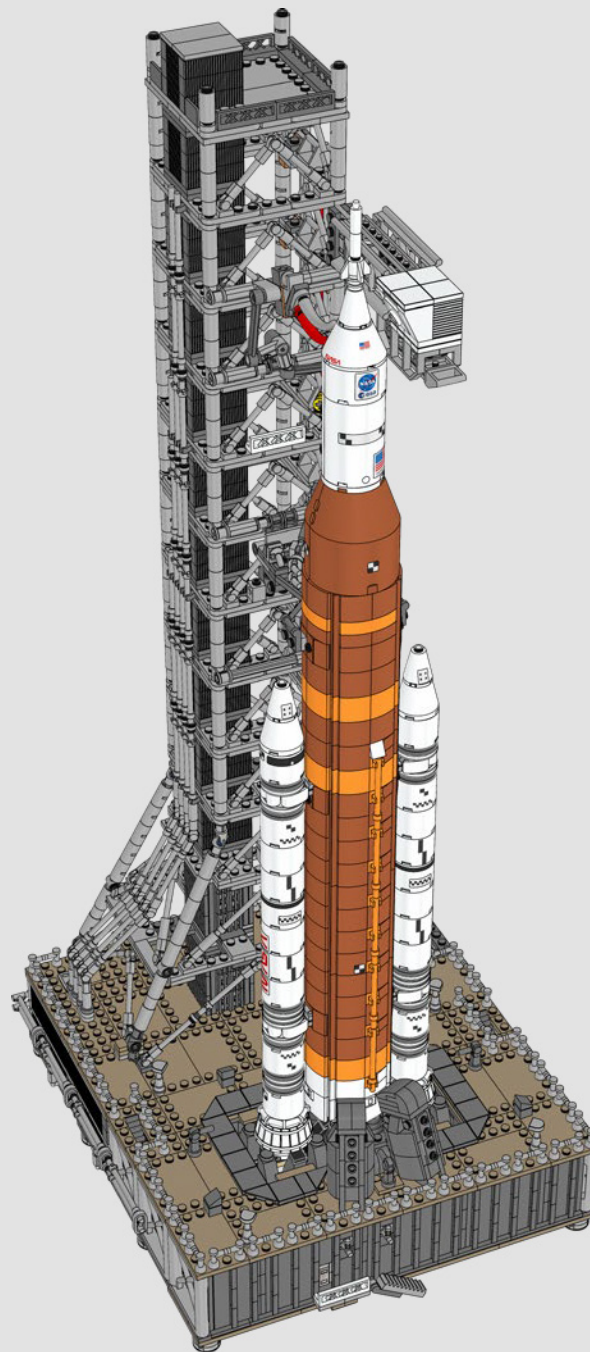
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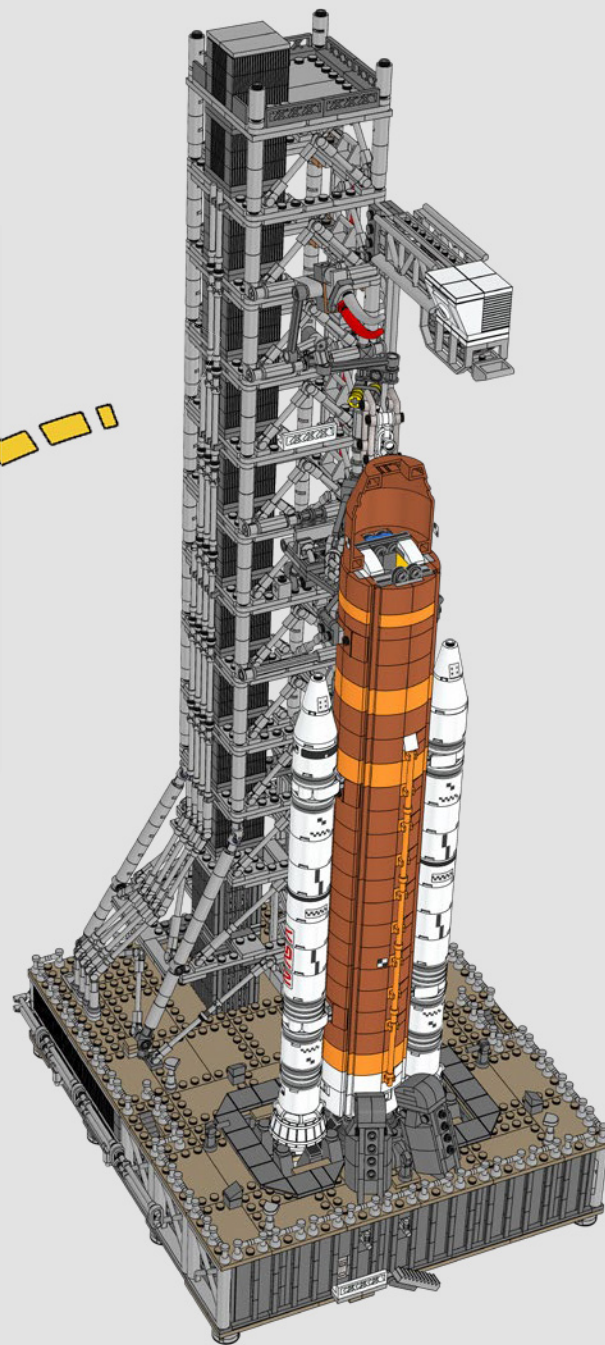
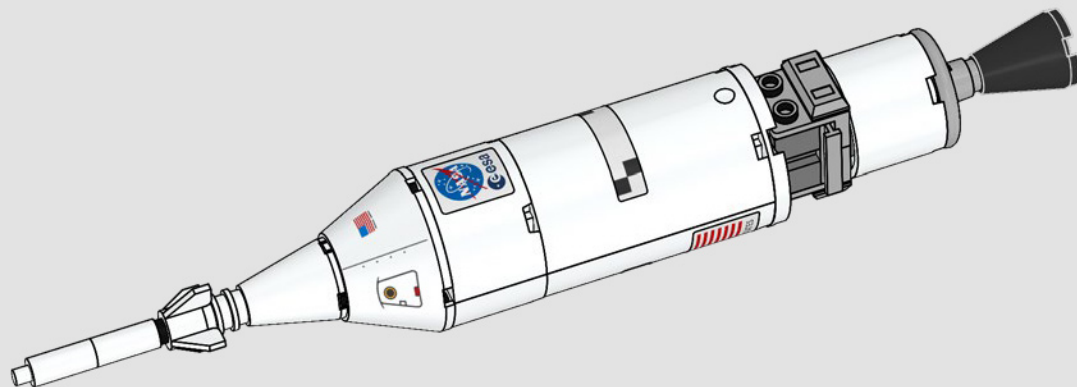
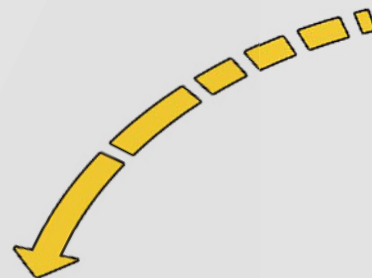
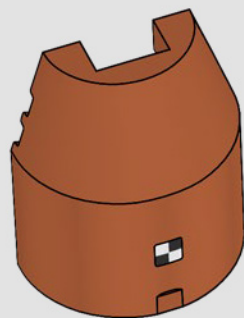
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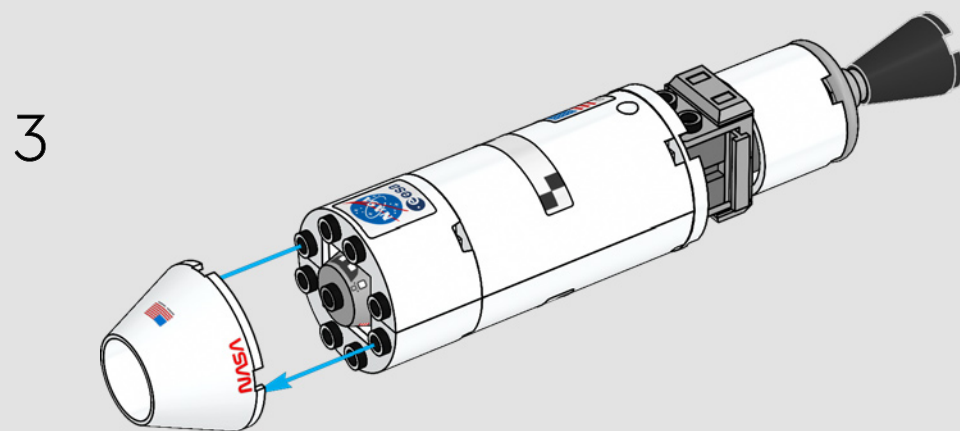
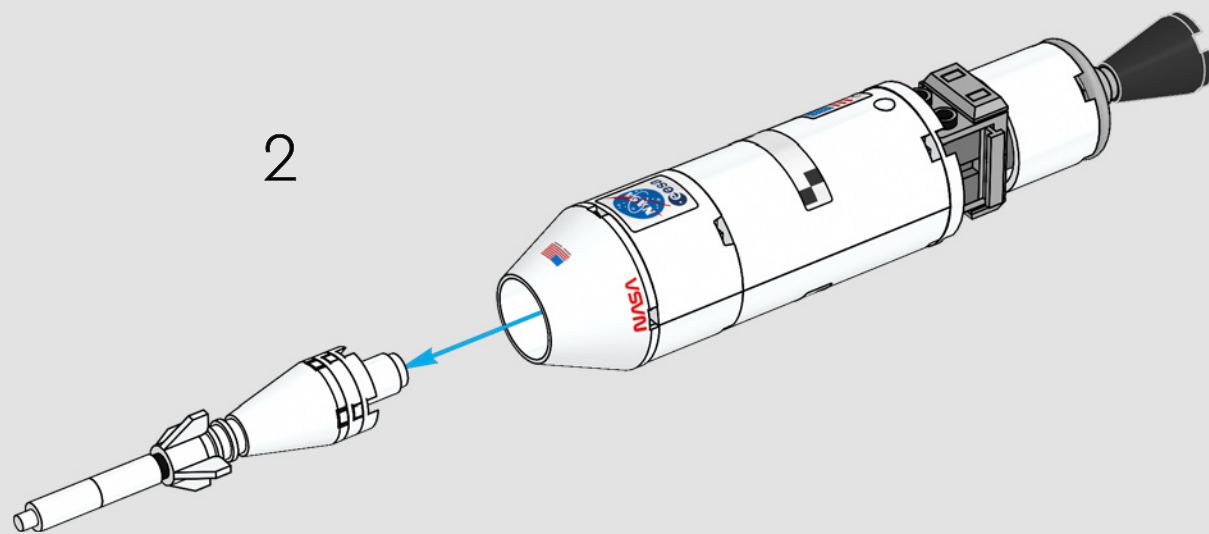


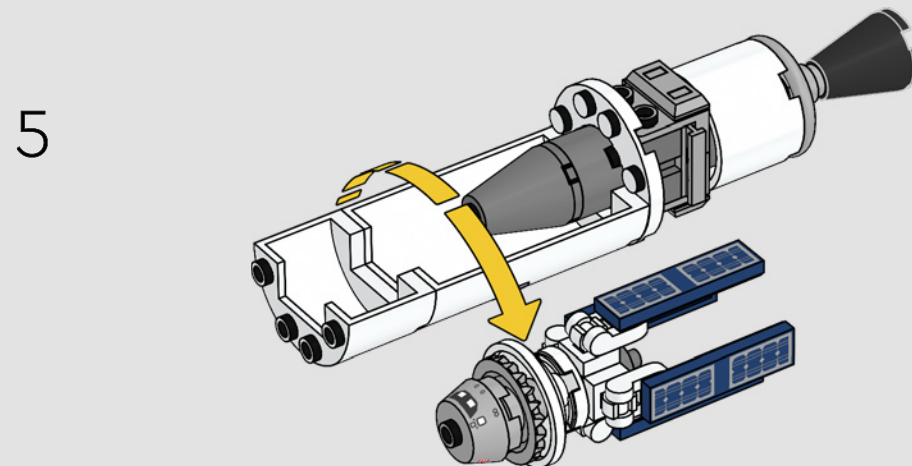
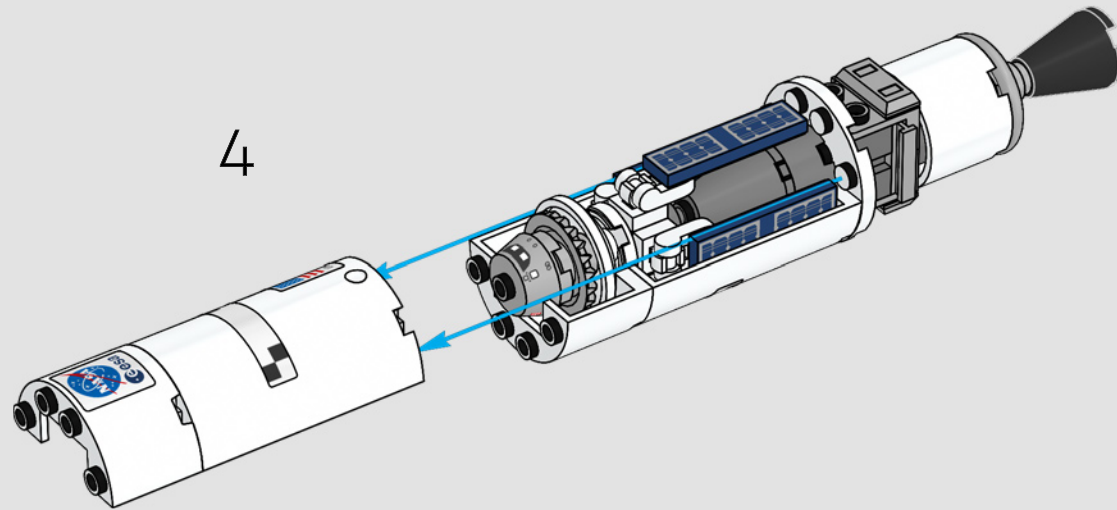
Genau wie beim Original steht die ganze
Rakete auf den Schürzen der Booster.

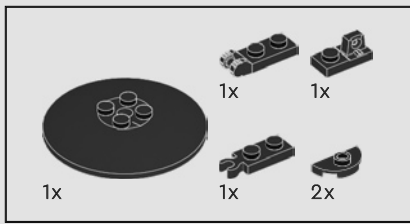


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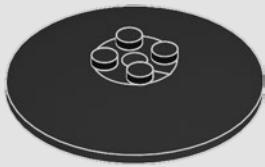




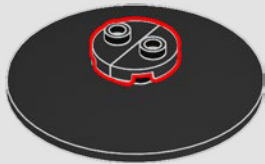


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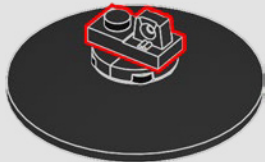
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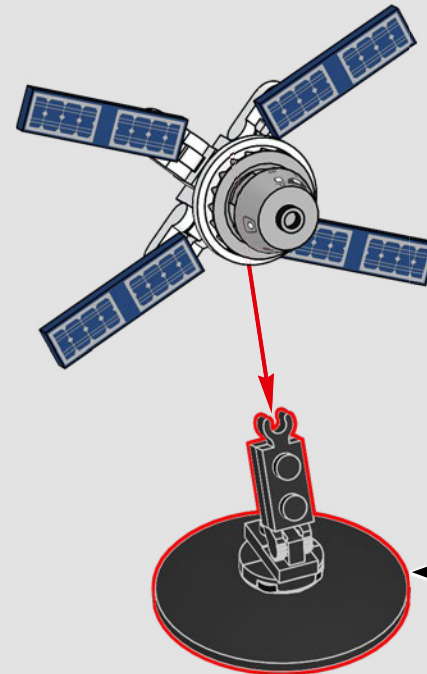
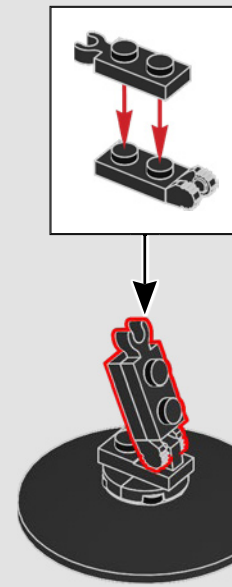
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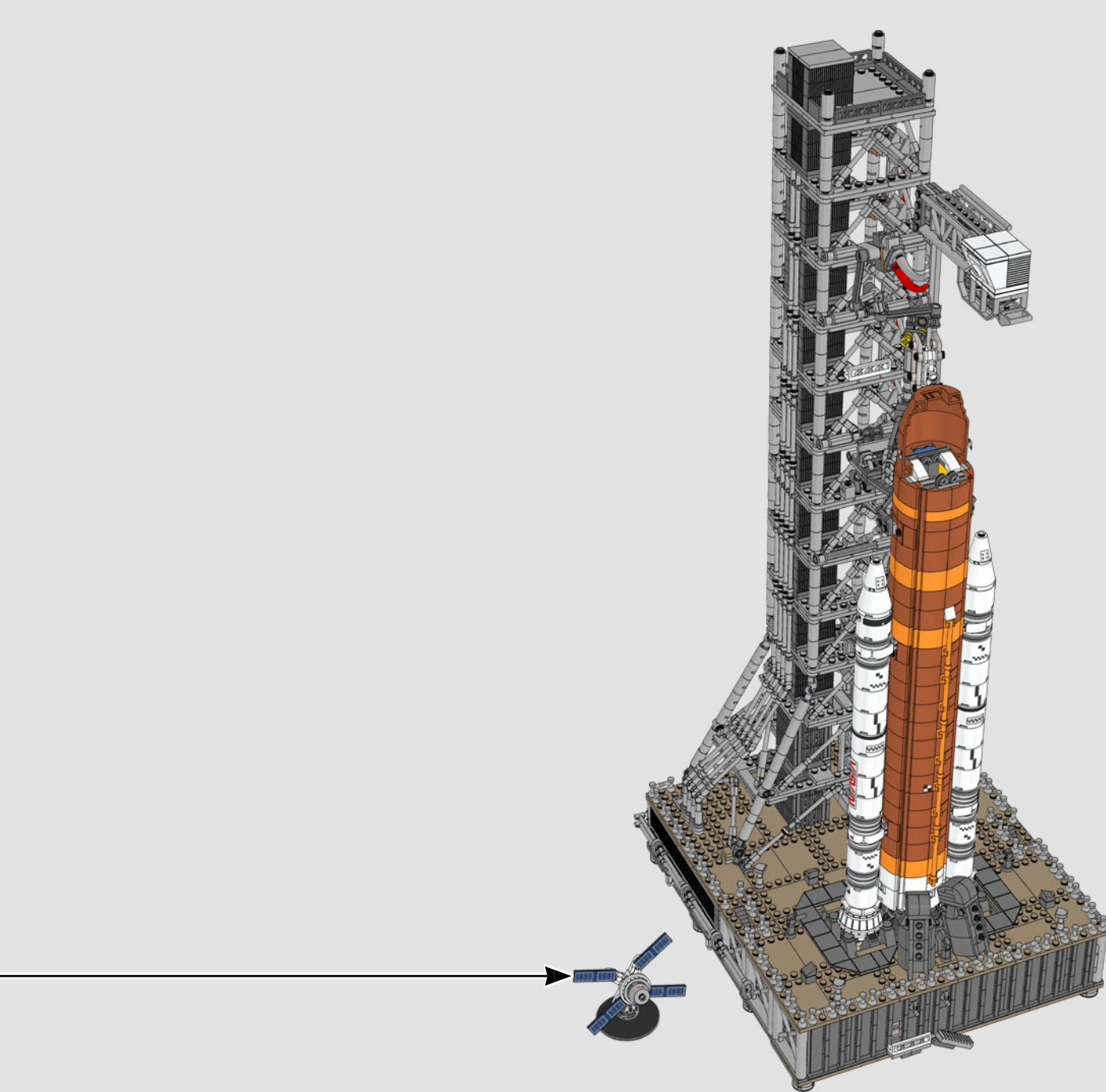


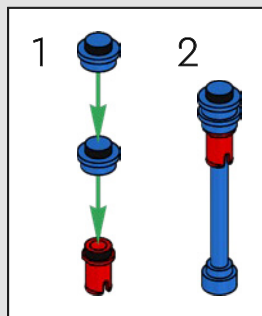
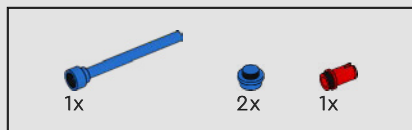
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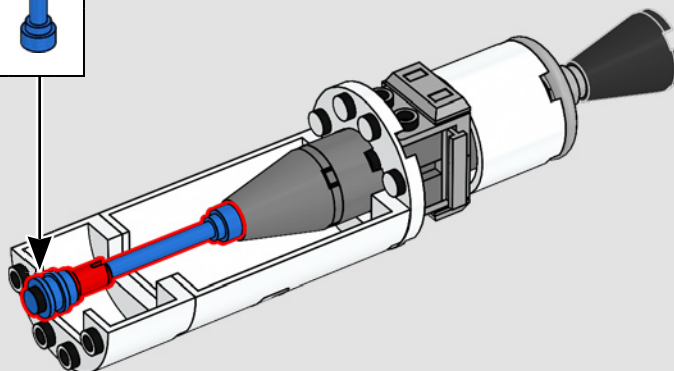
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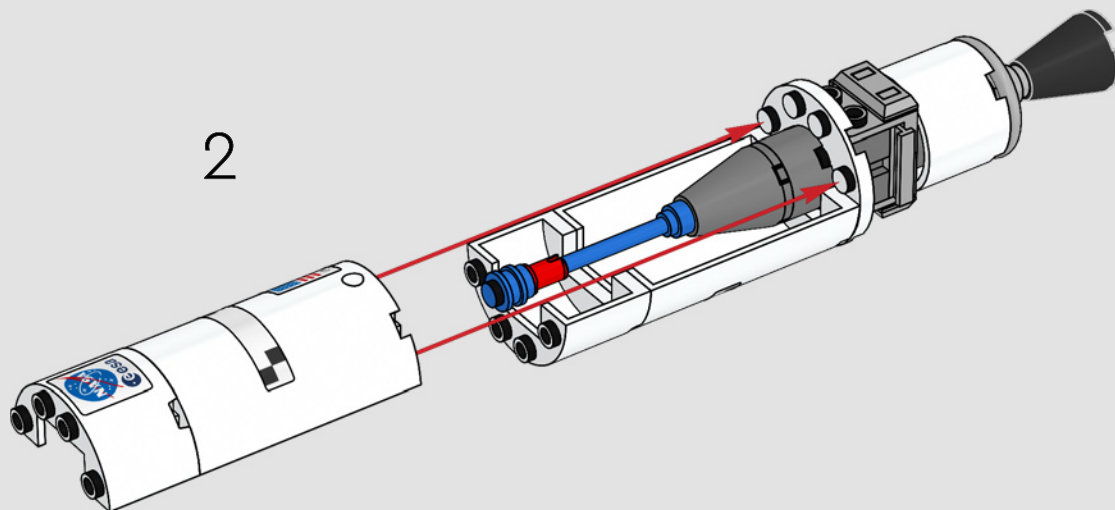


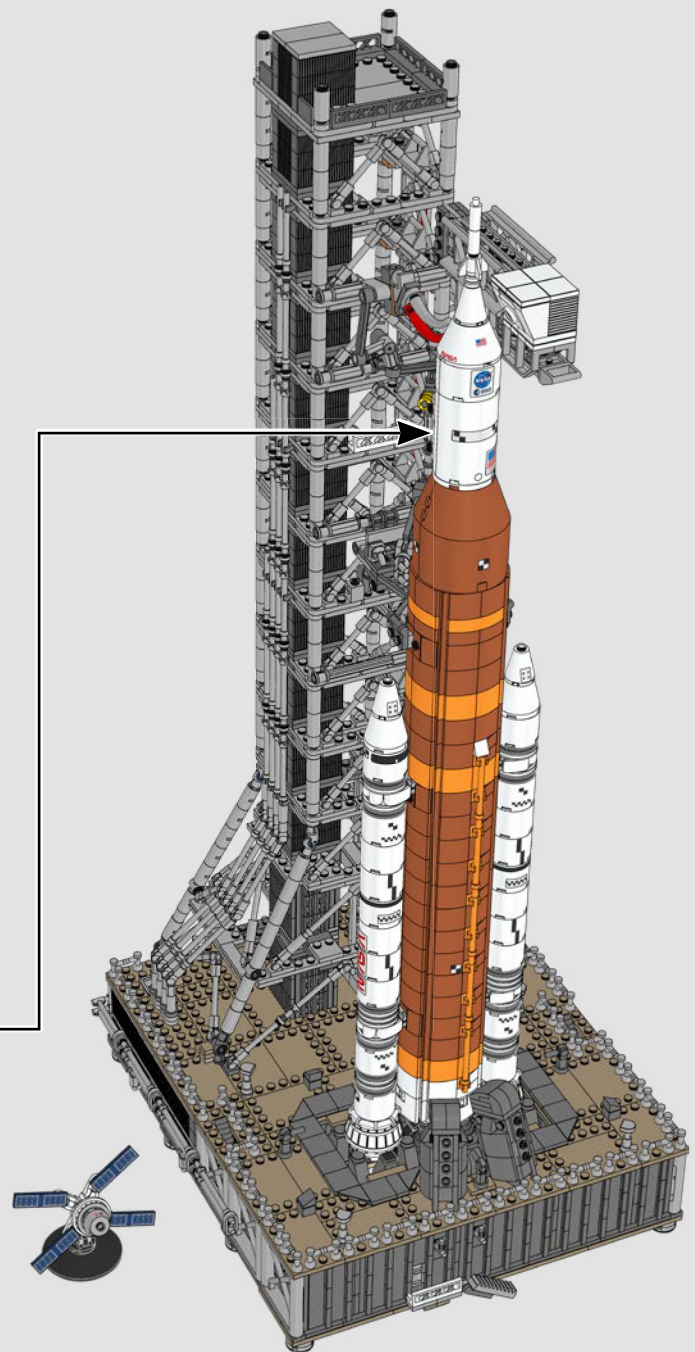
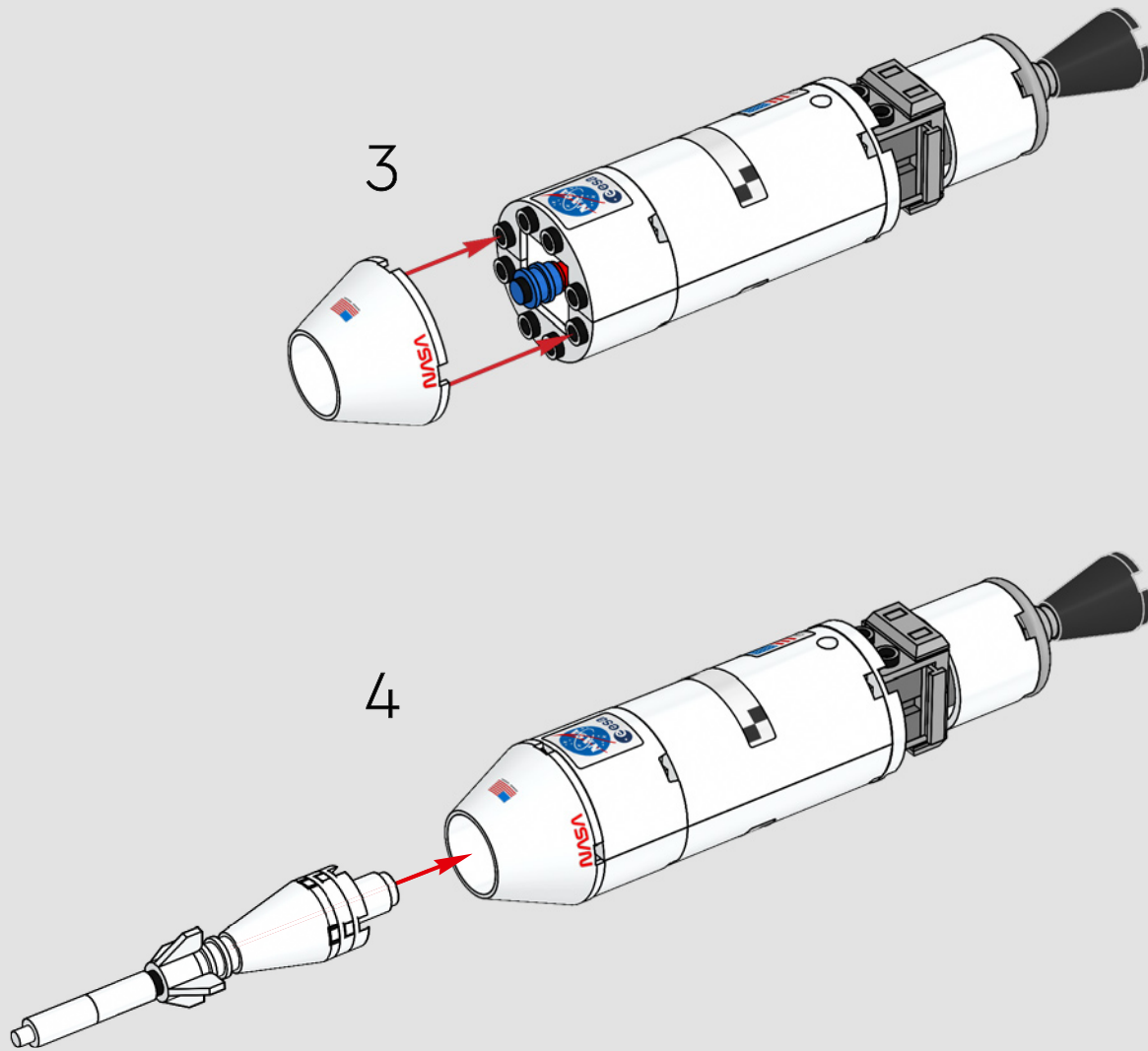


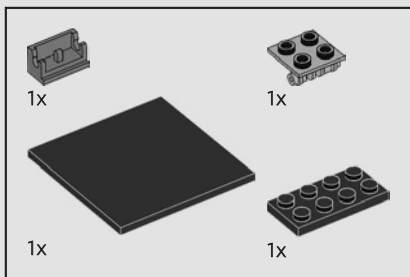
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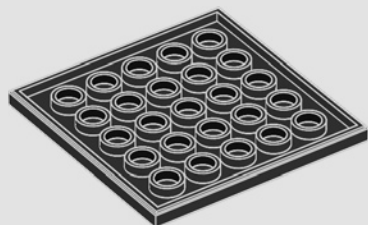
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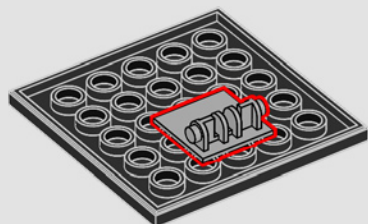




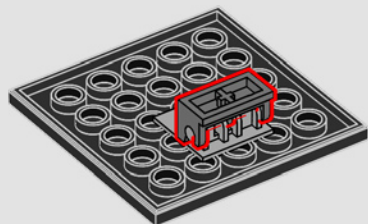
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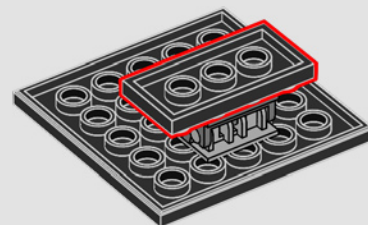
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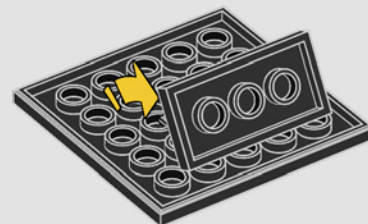
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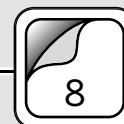
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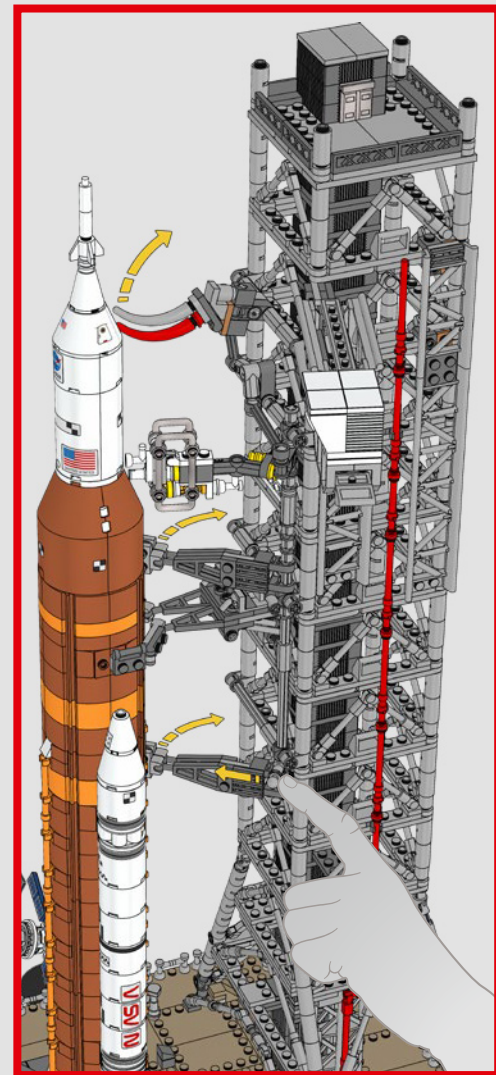
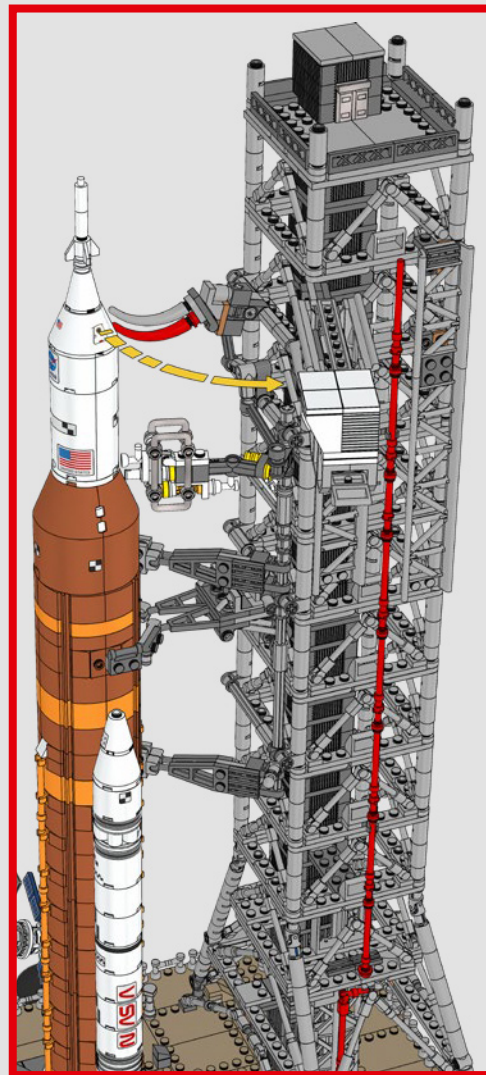
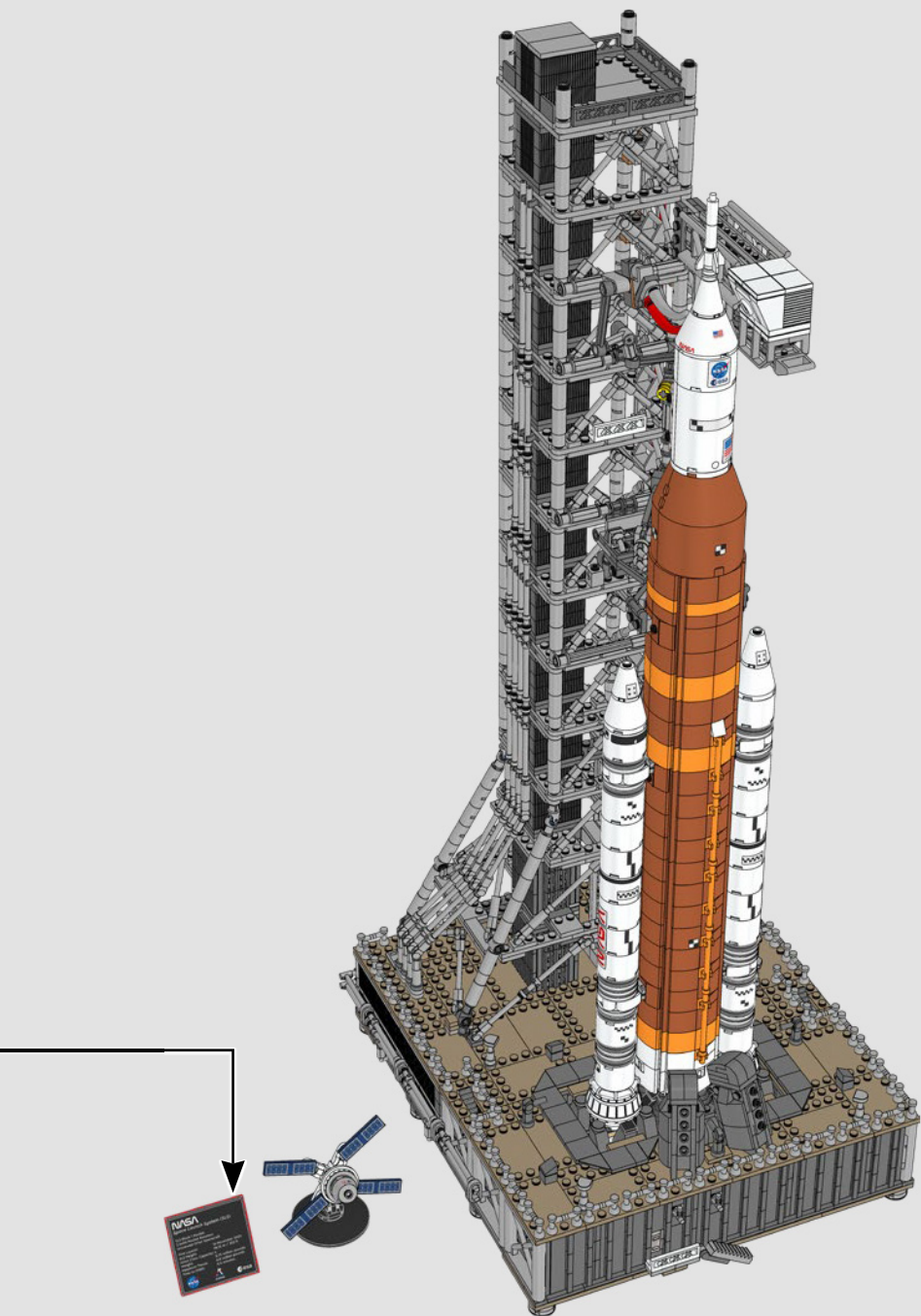


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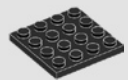


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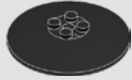




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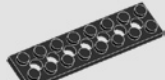
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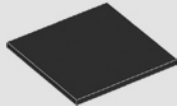
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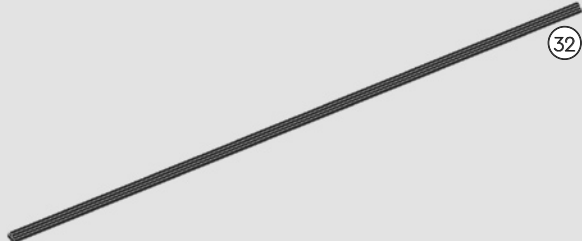
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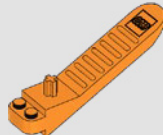
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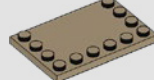
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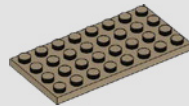
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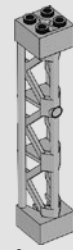
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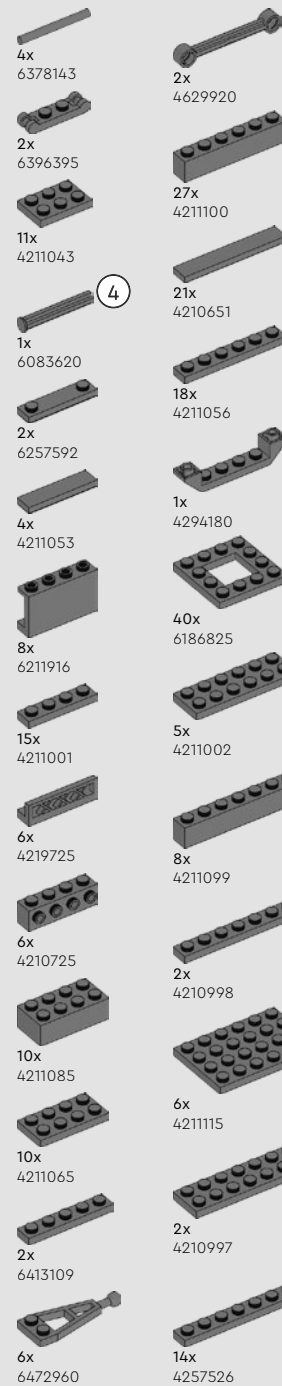
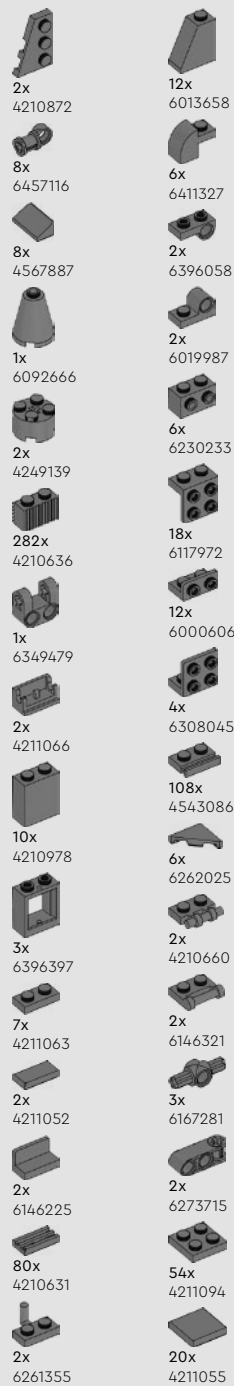
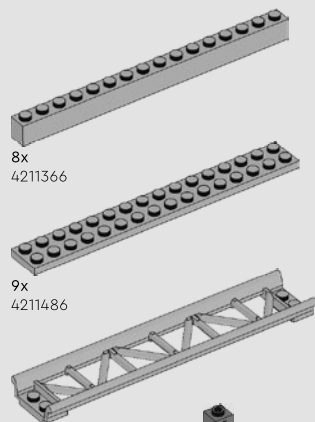
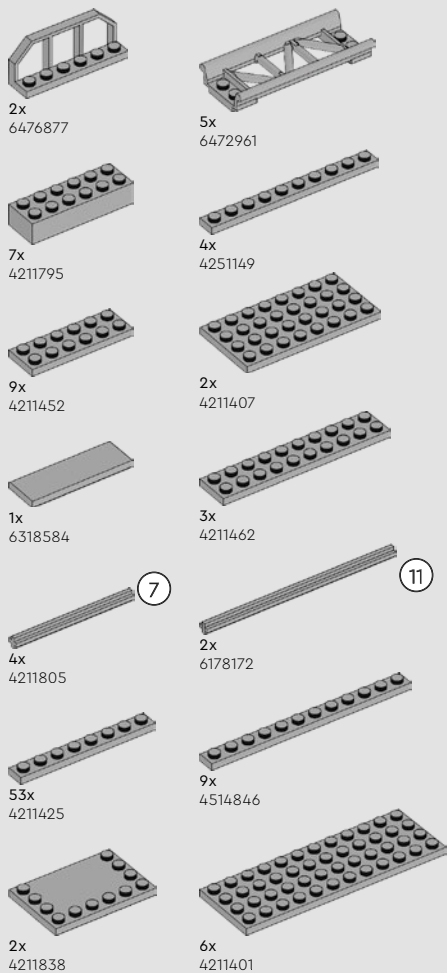


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3

32





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