



# SPACE NEEDLE

## SPACE NEEDLE

Seattle, Washington, America

The world's great architecture



6+ / 5238 / 1075 PCS  
Suitable Age / Product Number / Parts Total



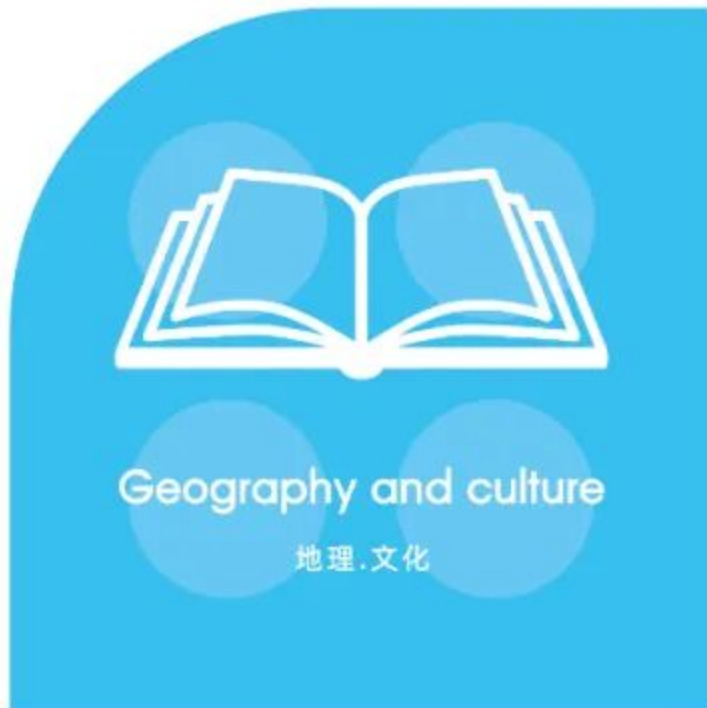
# Architecture

It will be a city...

这将构成一座城市...

# ABOUT THE PRODUCT

关于产品



## ARCHITECTURE

WANGE The world's great architect since 1991

# Space Needle



The Space Needle is an observation tower in Seattle, Washington, United States.

# Space Needle



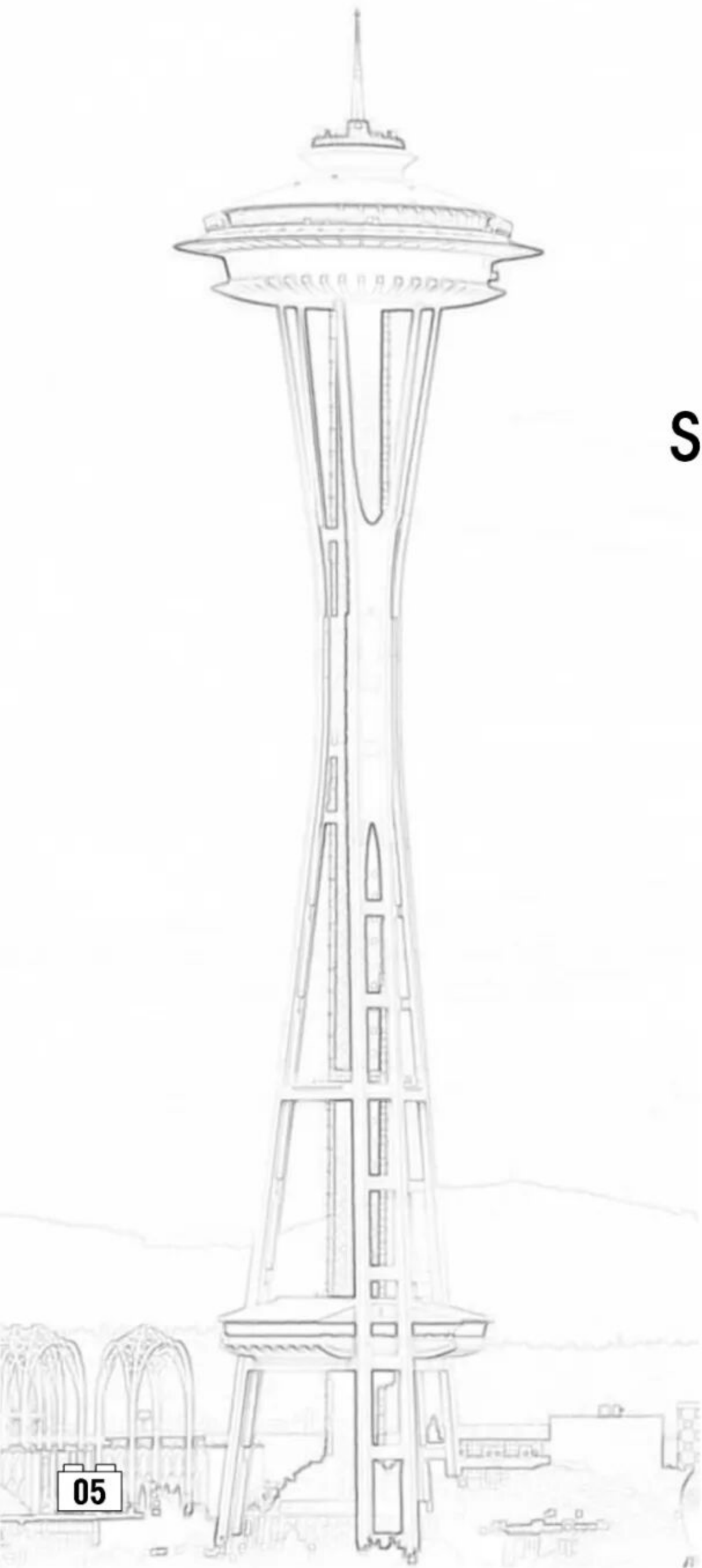
## Geography and culture

地理·文化



The Space Needle is an observation tower in Seattle, Washington, United States. Considered to be an icon of the city, it has been designated a Seattle landmark. It takes 41 seconds to reach the top in the elevators.





Space Needle

# Space Needle ■

America

The contents of this chapter refer to the Wikipedia website.

本章内容参考维基百科网站，更多资讯可自行查阅。

The world's great architecture

# Buildings and layout

■ 建筑物和布局



The Space Needle is an observation tower in Seattle, Washington, United States. Considered to be an icon of the city, it has been designated a Seattle landmark. Located in the Lower Queen Anne neighborhood, it was built in the Seattle Center for the 1962 World's Fair, which drew over 2.3 million visitors. The Space Needle was once the tallest structure west of the Mississippi River, standing at 605 ft (184 m). The tower is 138 ft (42 m) wide, weighs 9,550 short tons (8,660 metric tons), and is built to withstand winds of up to 200 mph (320 km/h) and earthquakes of up to 9.0 magnitude, as strong as the 1700 Cascadia earthquake.

La Space Needle ('Aguja Espacial') es una torre ubicada en Seattle, Washington, y es un símbolo de esa región del país. Fue inaugurada en 1962 en el centro de la ciudad para la Feria Mundial de Seattle de 1962. El proyecto fue idea de Edward E. Carlson e inspirado en la torre de telecomunicaciones de Stuttgart, en Alemania. Es una estructura de 184 metros de altura y pesa unas 9550 toneladas, colocando el centro de gravedad de la torre apenas a un metro del nivel del suelo. Para llegar a la cima es necesario tomar un ascensor que tarda tan sólo unos segundos en subir. Actualmente es un restaurante giratorio, desde donde se puede apreciar toda la ciudad de Seattle.



## Construction

The earthquake stability of the Space Needle was ensured when a hole was dug 30 ft (9.1 m) deep and 120 ft (37 m) across, and 467 concrete trucks took one full day to fill it. The foundation weighs 5,850 short tons (5,310 metric tons) (including 250 short tons or 230 metric tons of reinforcing steel), the same as the above-ground structure. The structure is bolted to the foundation with 72 bolts, each one 30 ft (9.1 m) long.

La torre también cuenta con 25 pararrayos en el techo para evitar daños por relámpagos. La Aguja Espacial de Seattle cuenta con una plataforma de observación a 520 pies (160 m), y una tienda de regalos con el restaurante giratorio SkyCity a 500 pies (152 m). Desde lo alto de la aguja, se puede ver no sólo el centro de Seattle, sino también los Montes Olímpicos y las Montañas de la cordillera de las Cascadas, el Monte Rainier, Monte Baker, Elliott Bay y las islas circundantes.



## History

Edward E. Carlson, chairman of the 1962 World's Fair in Seattle, had an idea for erecting a tower with a restaurant at the World's Fair. Carlson was president of a hotel company and was not recognized in art or design, but he was inspired by a recent visit to the Stuttgart Tower of Germany. Local architect John Graham soon became involved as a result of his success in designing Northgate Mall. Graham's first move was to alter the restaurant's original design to a revolving restaurant, similar to his previous design of the La Ronde tower restaurant at the Ala Moana Shopping Center in Hawaii.

Durante décadas, el disco flotante de la Space Needle fue el hogar de dos restaurantes a 500 pies (152 m) por encima del suelo: el restaurante Space Needle, que fue llamado originalmente ojo de la aguja y el Suite Esmeralda. Ambos fueron cerrados en el año 2000 para dar paso al SkyCity, un restaurante más grande que cuenta con gastronomía del noroeste del Pacífico. Gira 360 grados en exactamente cuarenta y siete minutos. En 1993, los elevadores fueron sustituidos por nuevas versiones computerizadas. Los nuevos ascensores descienden a una velocidad de 10 mph. El cartel original de la Exposición Universal de 1962 mostraba una entrada en espiral de cola que conducía al ascensor, pero esto también fue omitido en los planos de construcción definitivos. La escalera se reemplazó por una nueva en un pabellón de dos pisos cerrado con acristalamiento. Algunos consideran que el diseño de este nivel se asemeja al de un nautilus.

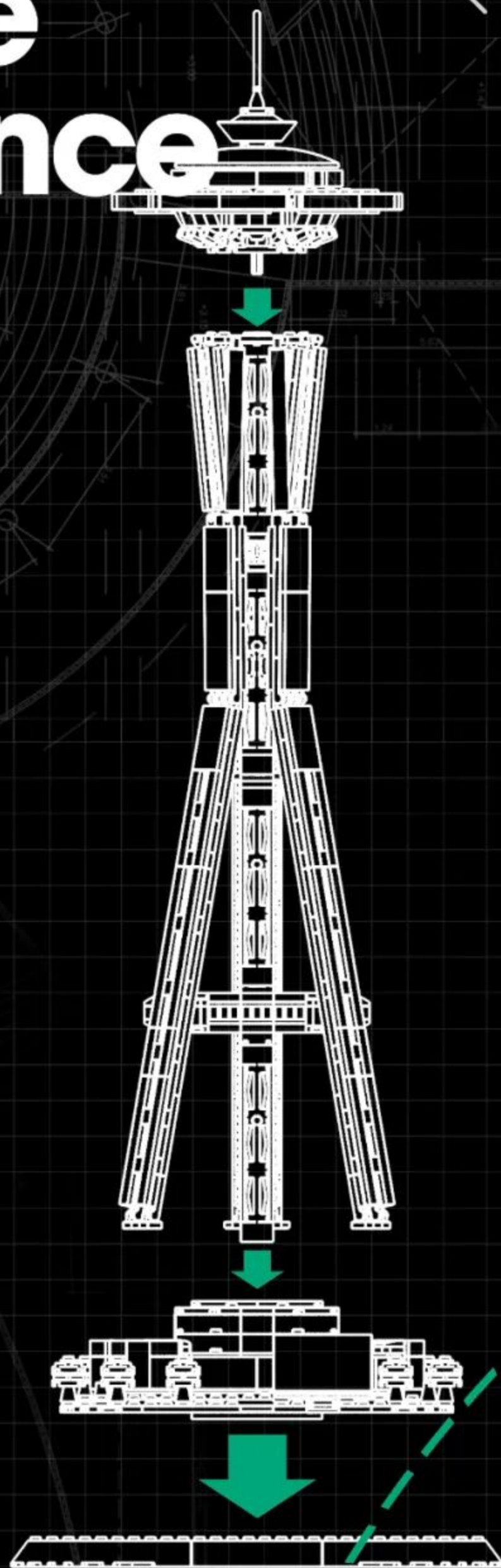
# Force Balance

受力平衡

$$F = G \frac{m_1 m_2}{d^2}$$

Physical operations

物理运算



Creation and thinking

创作·思考

08

# Special parts

特殊零件的开发利用

$$S=4\pi \cdot r^2$$

$$a^2+b^2=c^2$$



**WG1345**  
竖纹2倍2孔



**WG1408**  
圆角底板10孔



**WG0928**  
直角底板10x8



**WG1219**  
凸双面圆4孔

$$\sin^2 a + \cos^2 a = 1$$

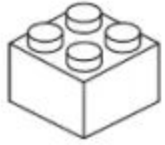


features and functions

特点.功能

# Main Color Matching

配色方案



White



Pantone Cool Gray 6C



Pantone 5285C



Pantone black6C



Pantone 109C



Pantone 278C



Pantone 477C



Pantone 7500C



Pantone 3435C



Pantone 2635C



Pantone 431C



Pantone 348C



Pantone 509C



Pantone 7509C



## Color matching

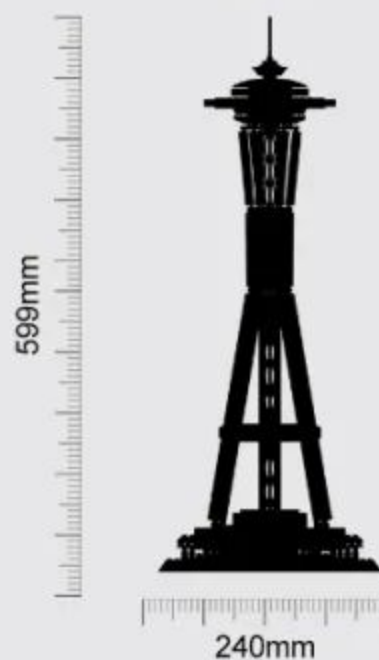
Adopting 3 main colors, White, Blue grey and Dark grey as the main color, the more reasonable and Black color matching on the original building, making the product more atmospheric and the whole design is more reasonable.

# Space Needle

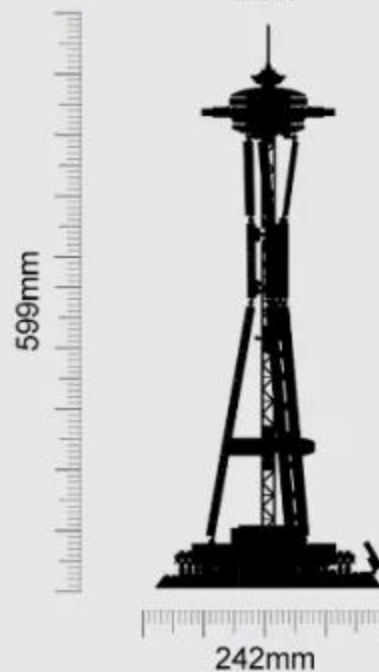
西雅图太空针塔



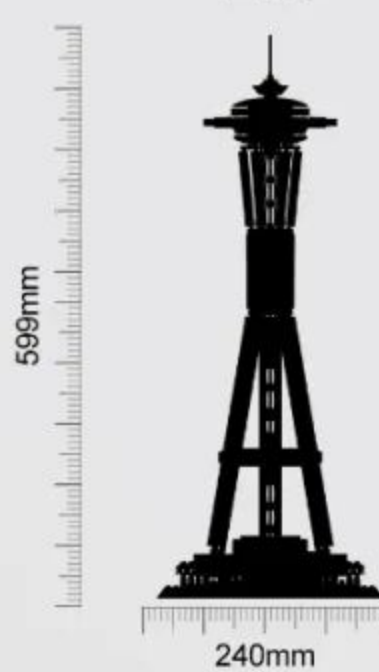
Back



Left



Front



Product Size:240X242x599mm

Creative Ability



Family Interaction



Observation Ability



Thinking Ability

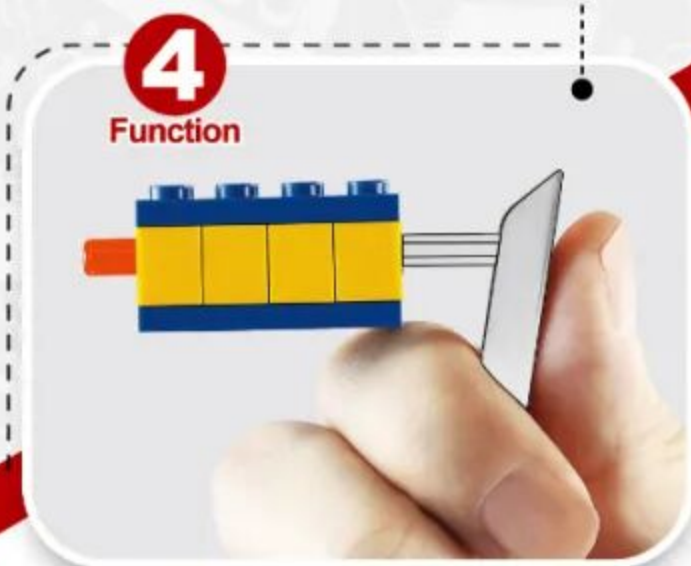
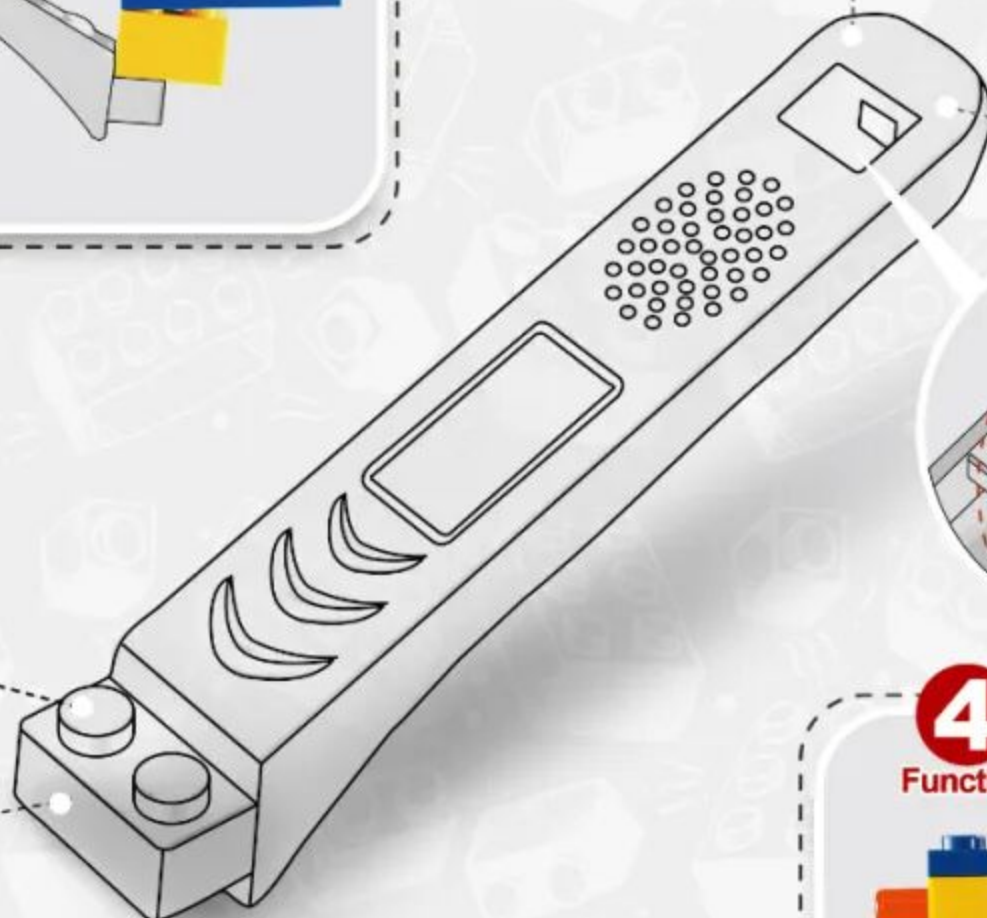
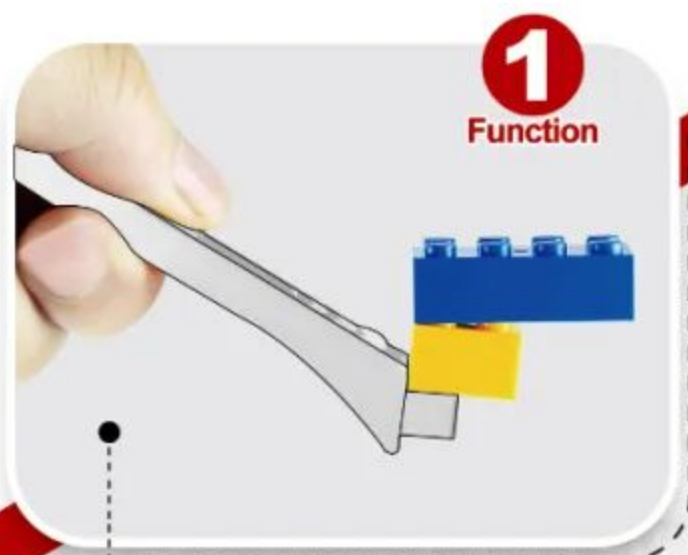


Practical Ability



# Instructions For Use

积木起件器使用说明  
Brickseparator



4 ways to make installation easier  
让安装更简单



- First open the product packaging according to the instructions.

按指导用正确方式拆解产品外包装。



- Summarize all parts to count the number of familiar accessories.

对照说明书清单确认积木包数量与积木数量。



- Arranging all accessories by color helps to quickly install the product.

把确认好的积木以类型、颜色进行分类排好以便安装。



- Carefully install the product and learn about building.

按说明书步骤拼装并完成你的积木模型。



# 1:1 Physical Reference Table

十字棒配件1:1尺寸参照表



Instructions For Use

让安装更简单



**2**  $(1 \times 2) = 2$



**3**  $(1 \times 3) = 3$



**4**  $(1 \times 4) = 4$



**5**  $(1 \times 5) = 5$



**6**  $(1 \times 6) = 6$



**7**  $(1 \times 7) = 7$



**8**  $(1 \times 8) = 8$



**9**  $(1 \times 9) = 9$



**10**  $(1 \times 10) = 10$



**12**  $(1 \times 12) = 12$

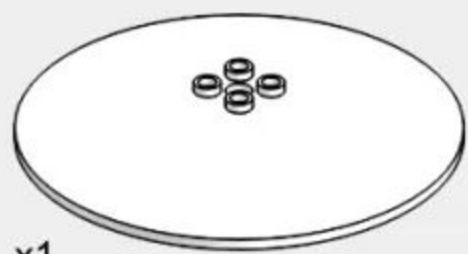


**16**  $(1 \times 16) = 16$

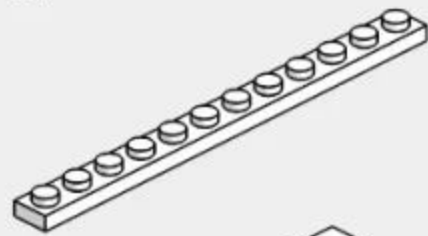


# PARTS LIST

配件清单



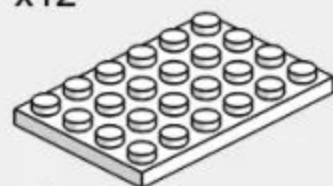
x1



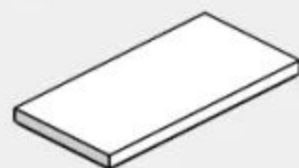
x12



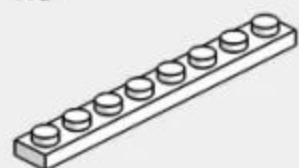
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x1



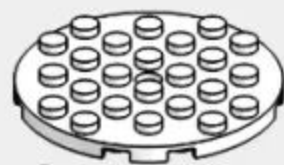
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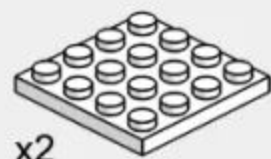
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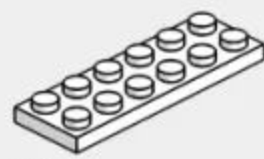
x6



x3



x2



x3



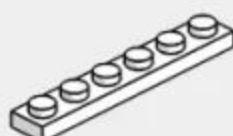
x4



x7



x6



x8



x1



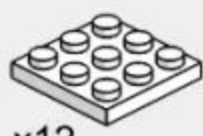
x6



x1



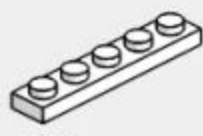
x2



x12



x2



x16



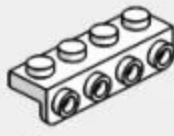
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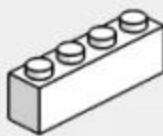
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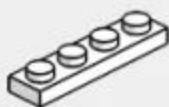
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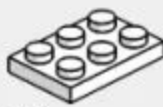
x1



x13



x2



x3



x10



x9



x11



x2



x2



x1



x54



x6



x6



x7



x4



x6



x15



x4



x4



x23



x6



x6



x3



x1



x6



x1



x3



x10



x1



x6



x44



x8



x8



x2



x1



x1



x1



x3



x8



x2



x6



x16



x6



x23



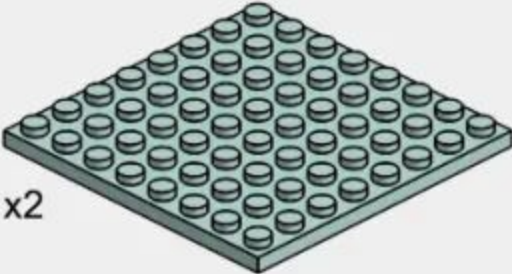
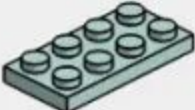

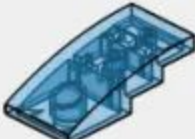

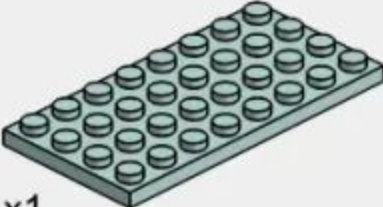


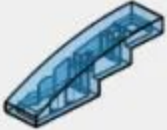

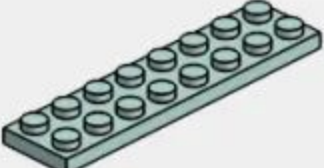


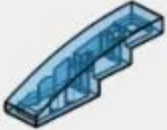

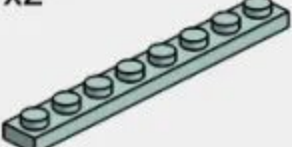

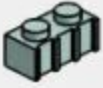


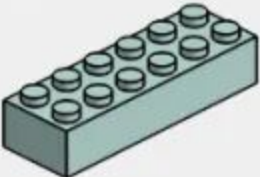





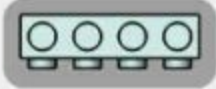



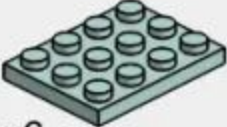




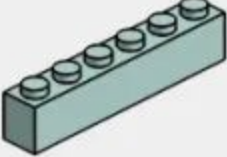
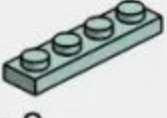



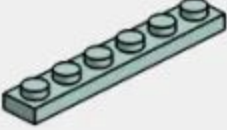
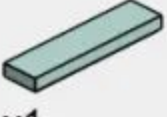



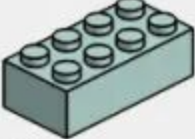




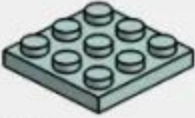












x21



x6

# PARTS LIST

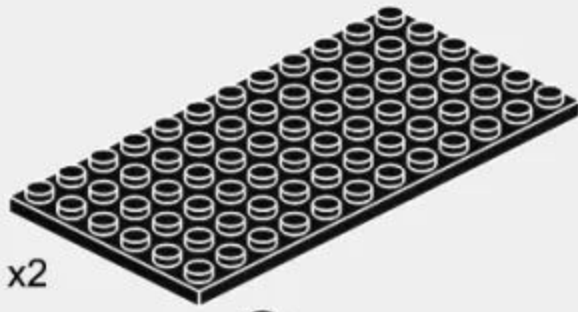
配件清单

 x2	 x3	 x4	 x6	 x8
 x1	 x4	 x1	 x6	 x4
 x2	 x2	 x3	 x6	 x4
 x2	 x4	 x9	 x6	 x3
 x3	 x3	 x4	 x6	 x3
 x8	 x9	 x4	 x6	 x60
 x6	 x9	 x5	 x8	 x24
 x3	 x2	 x8	 x1	 x10
 x8	 x1	 x3	 x1	 x1
 x5	 x7	 x4	 x28	 x12
 x6	 x17	 x8	 x3	 x2
	 x6	 x8	 x2	 x3
	 x1	 x6	 x2	 x12

产品有增补件请以实物为准  
If product has additional parts, please in kind prevail.

# PARTS LIST

配件清单



x2



x1



x2



x2



x2



x2



x1



x1



x1



x2



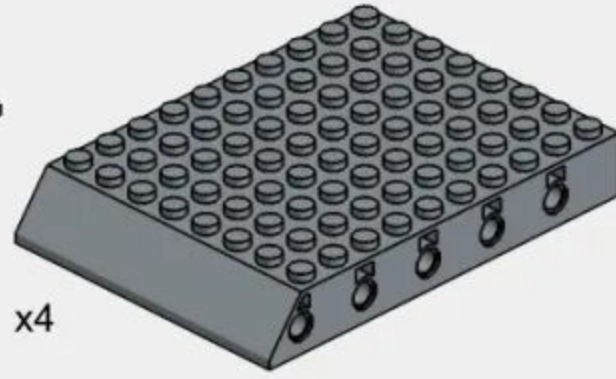
x1



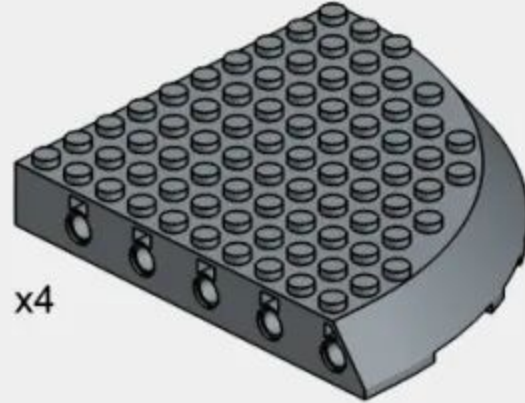
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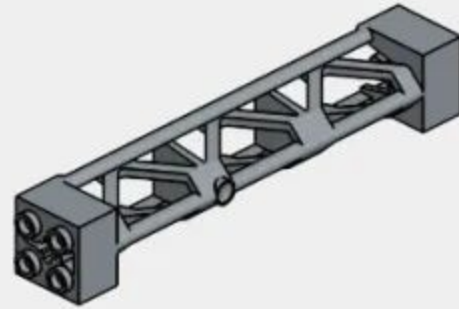
x1



x4



x4



x4



x2



x4



x4



x2



x32

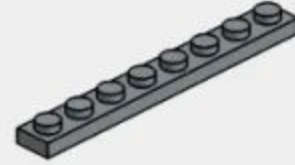


x8



10

x1



x4

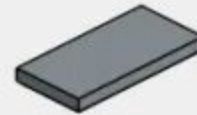


x4



6

x2



x4



x1



4

x2



x2



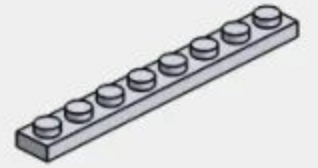
x2



x6



x6



x1



x4



x4



x4



x1



x4



x4



x4



x8



x4



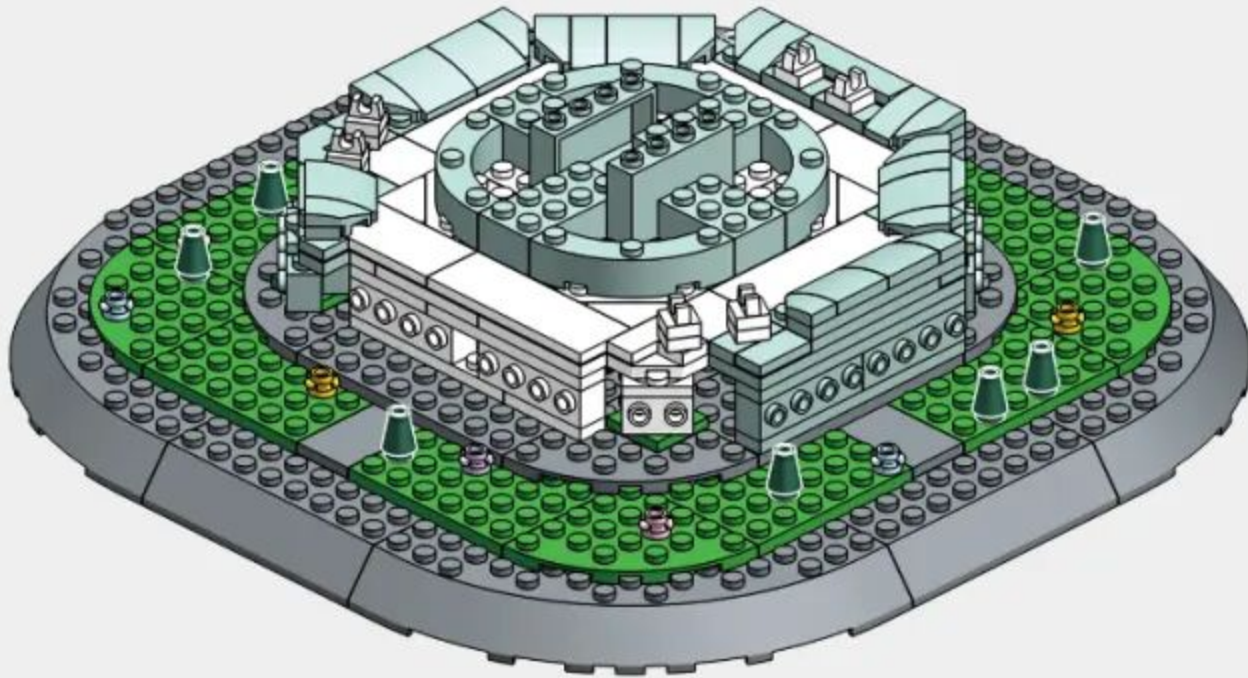
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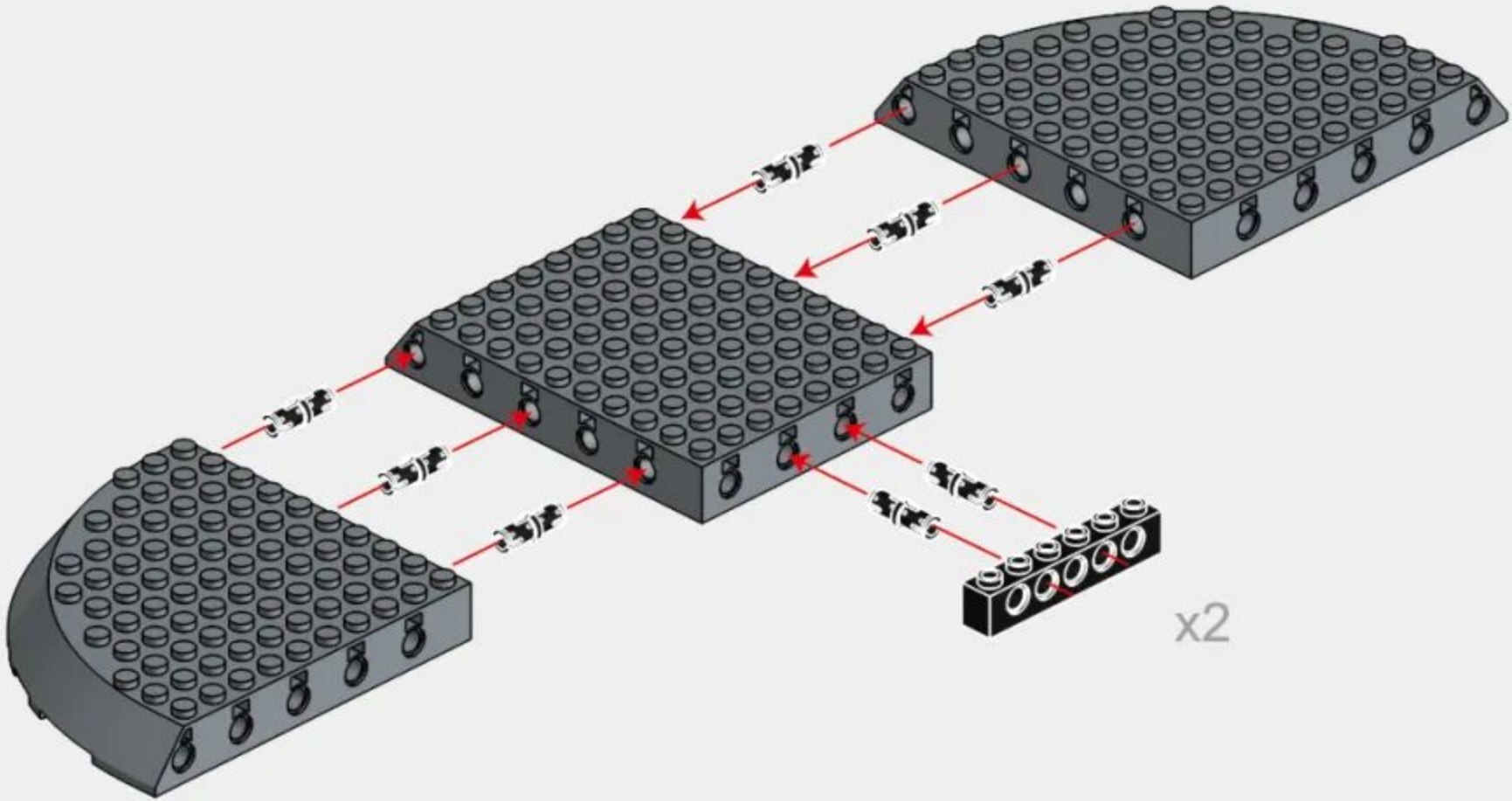
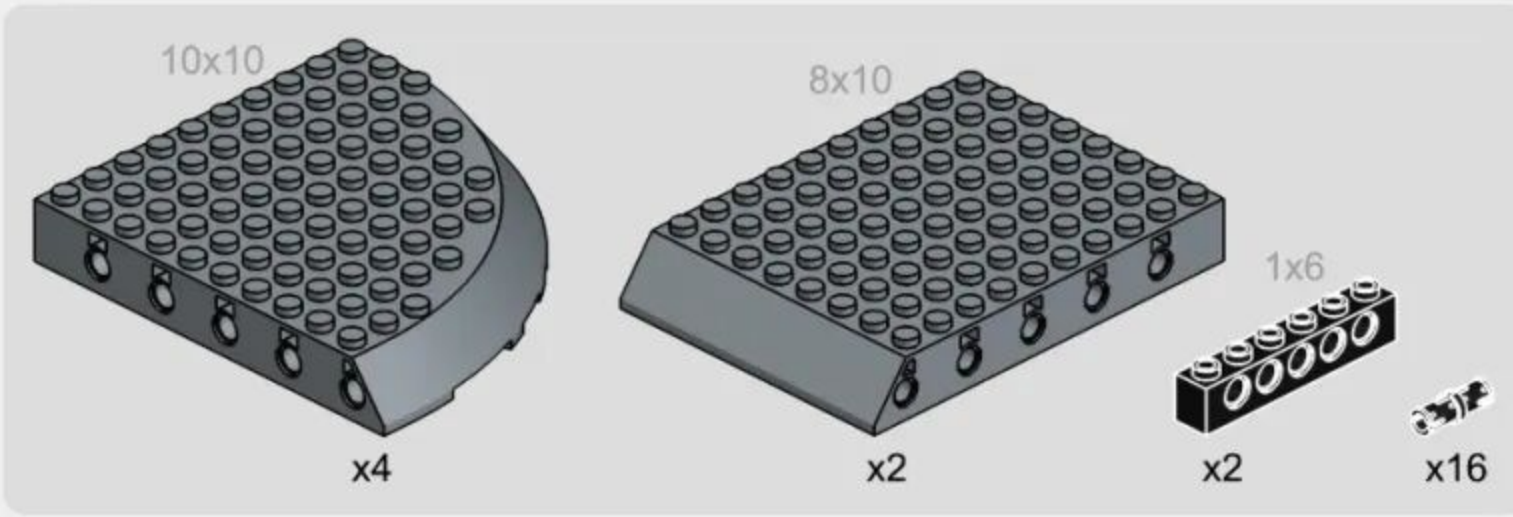
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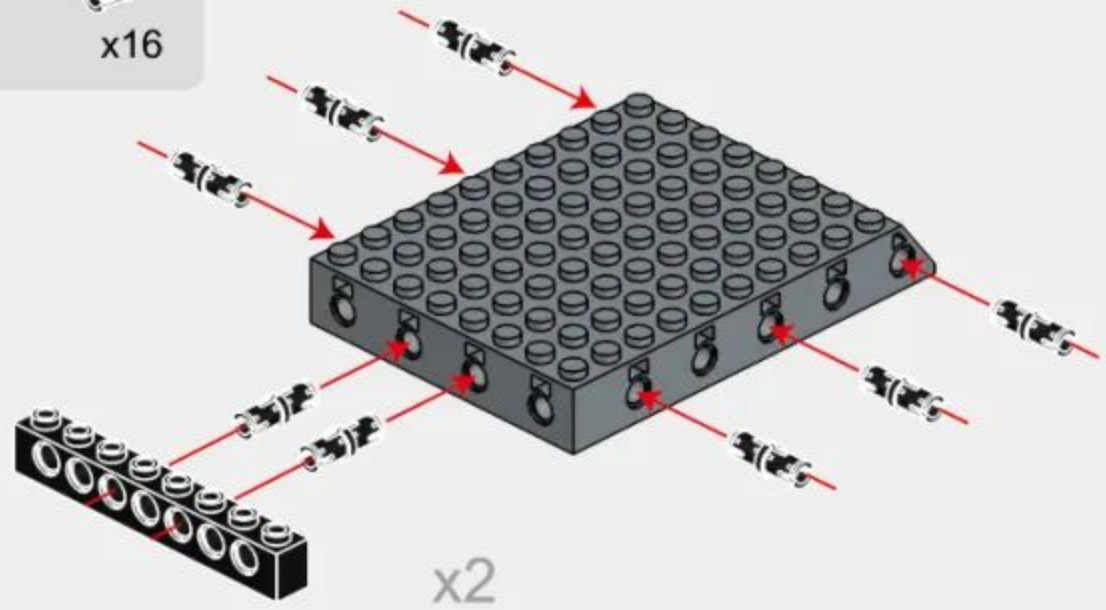
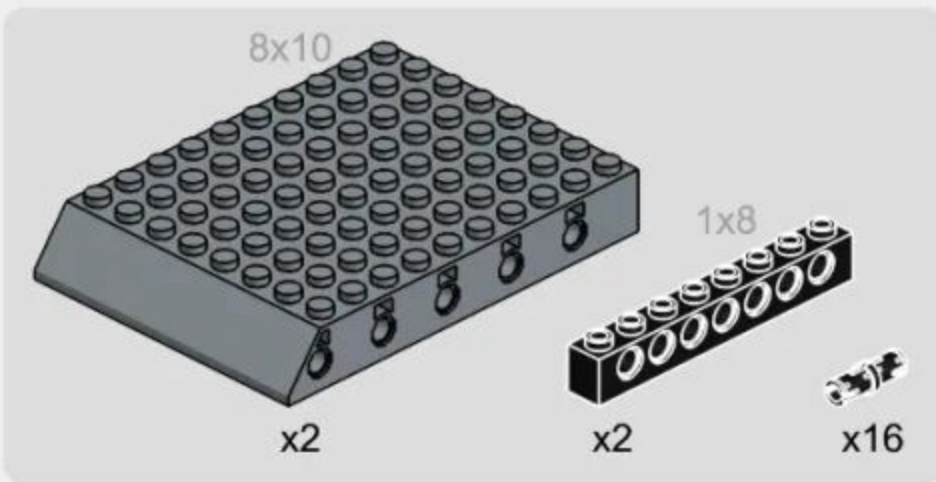
264PCS



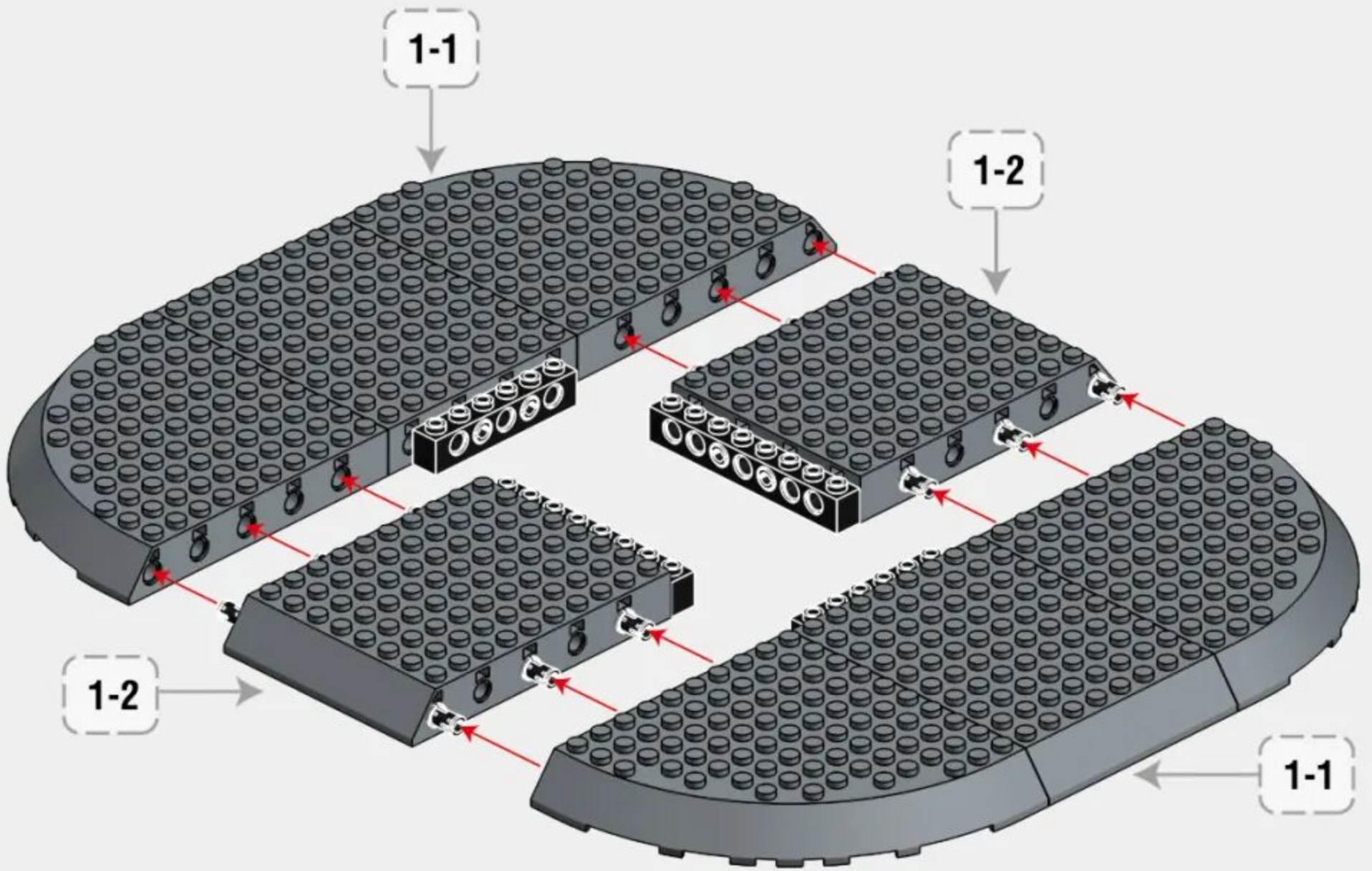
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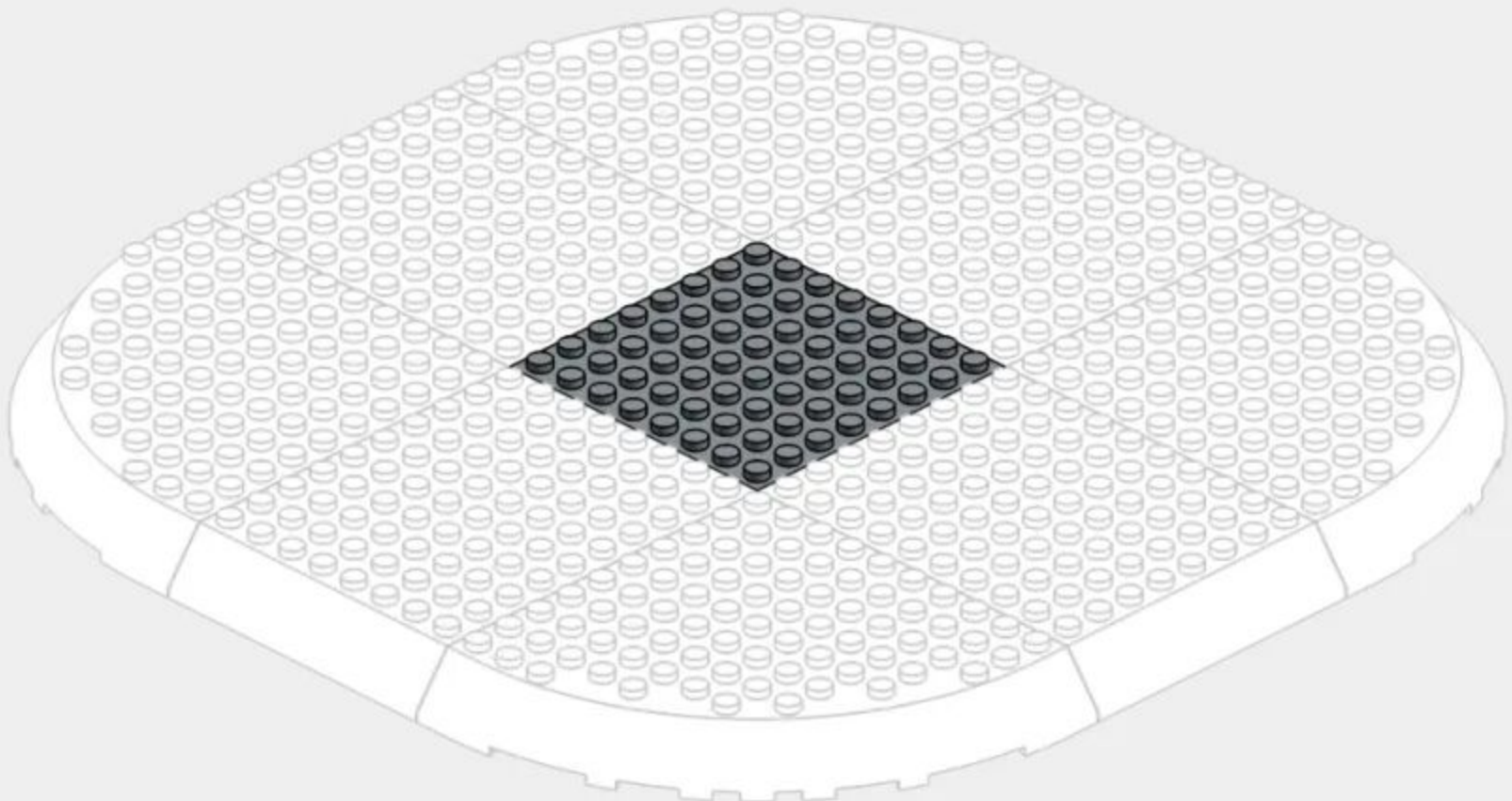
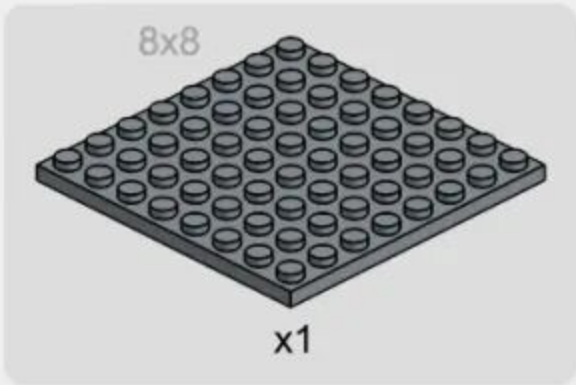
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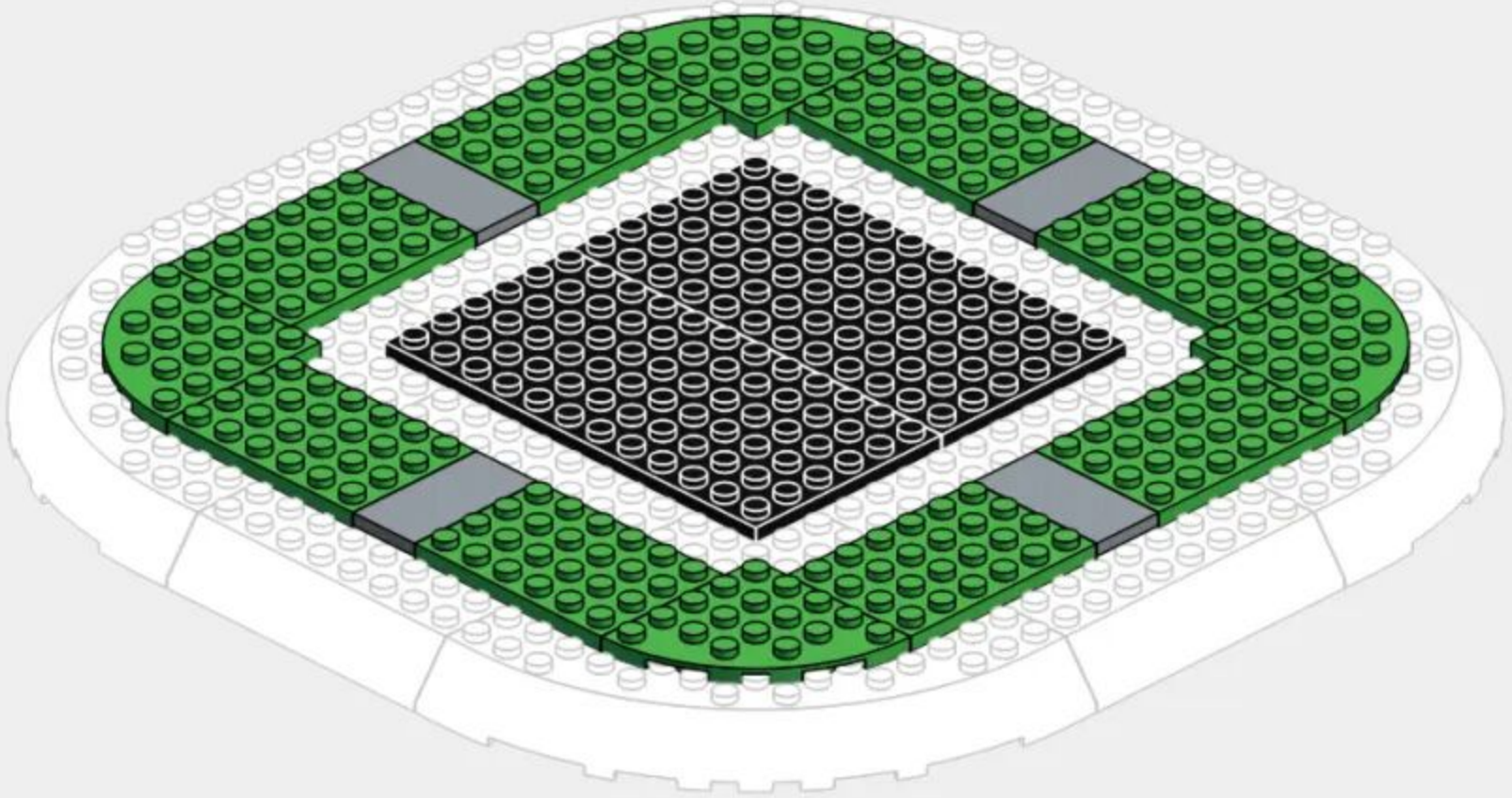
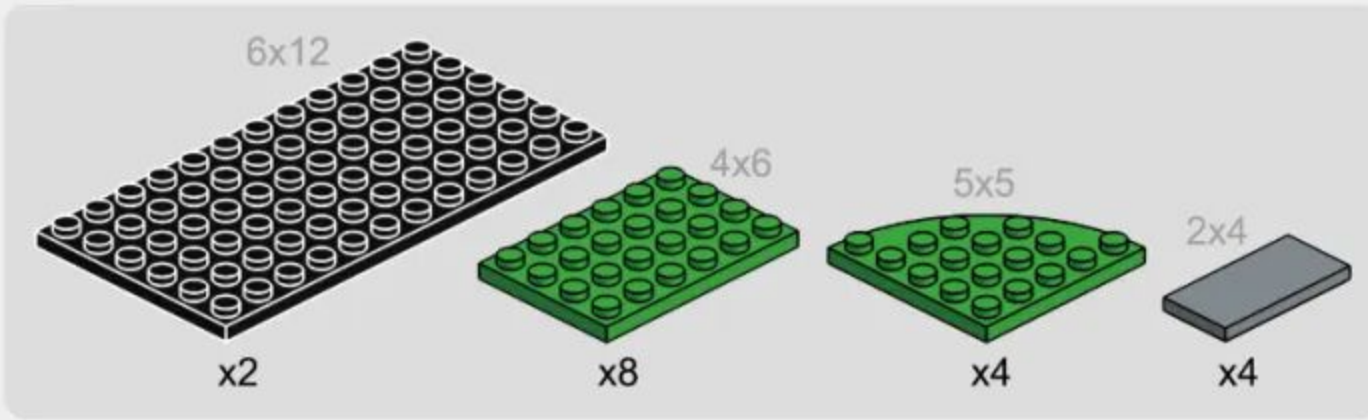
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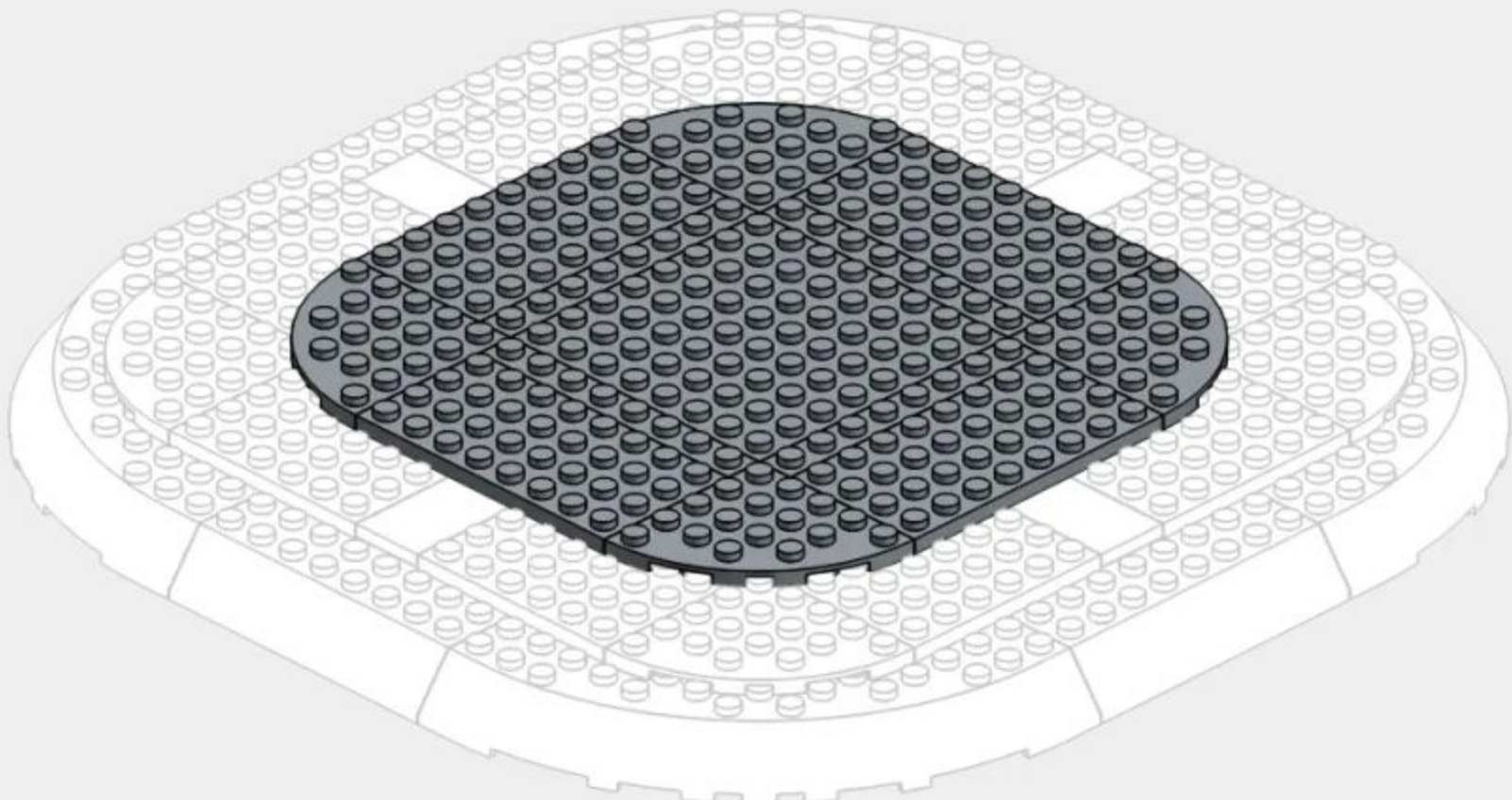
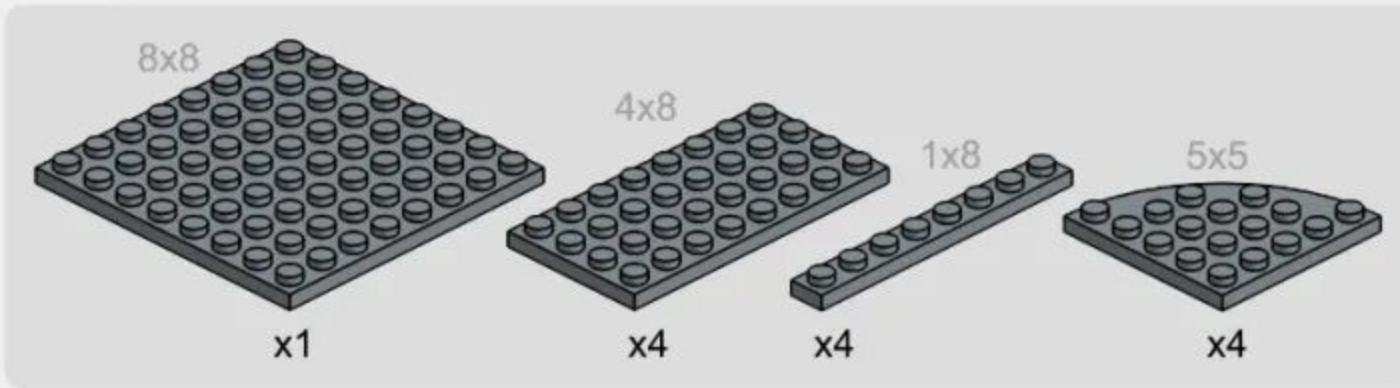
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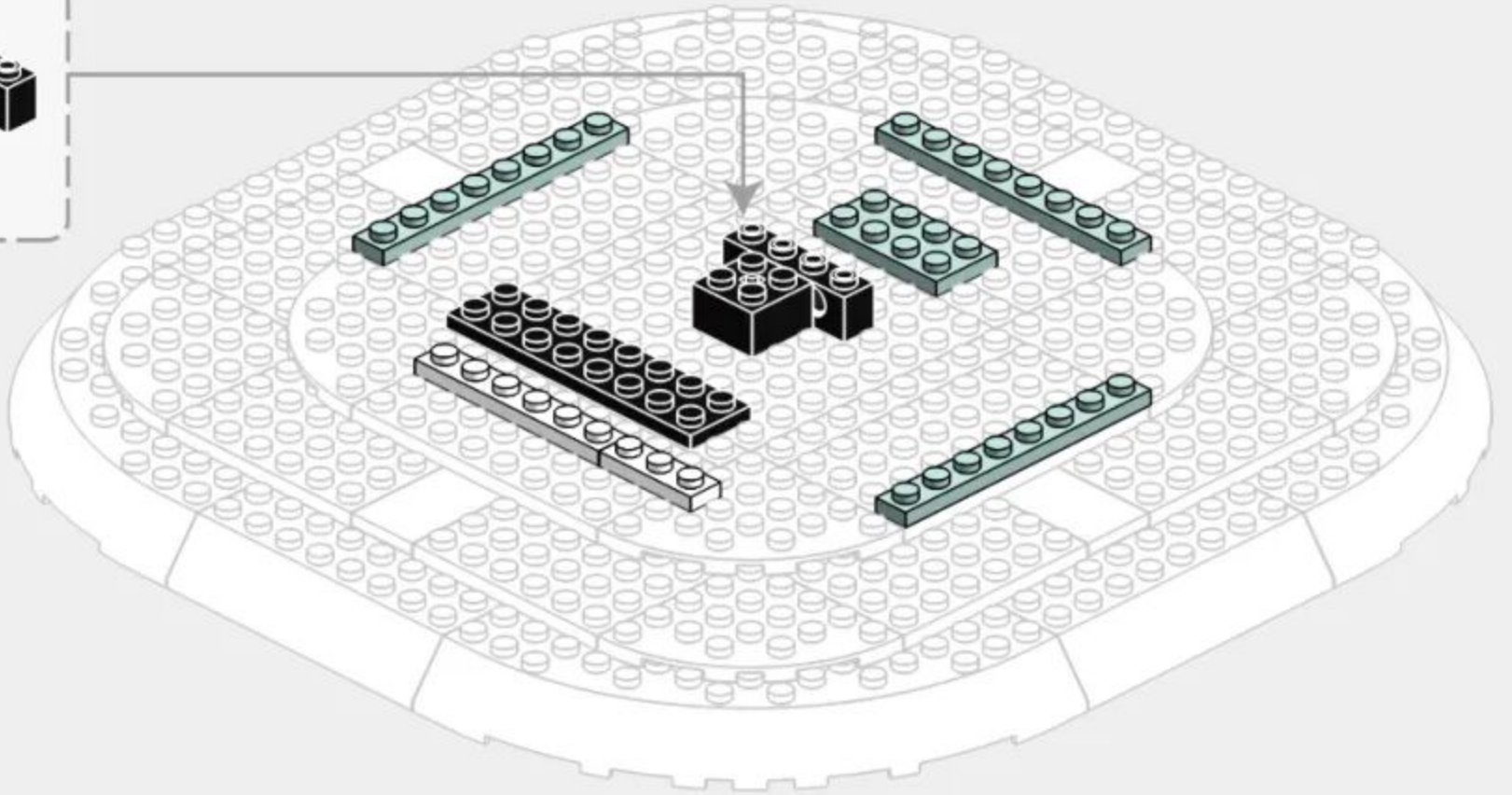
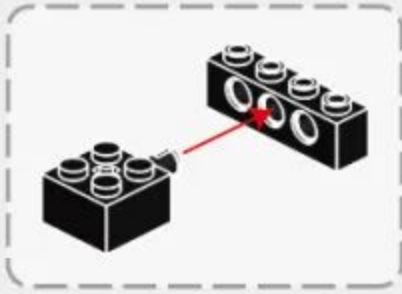
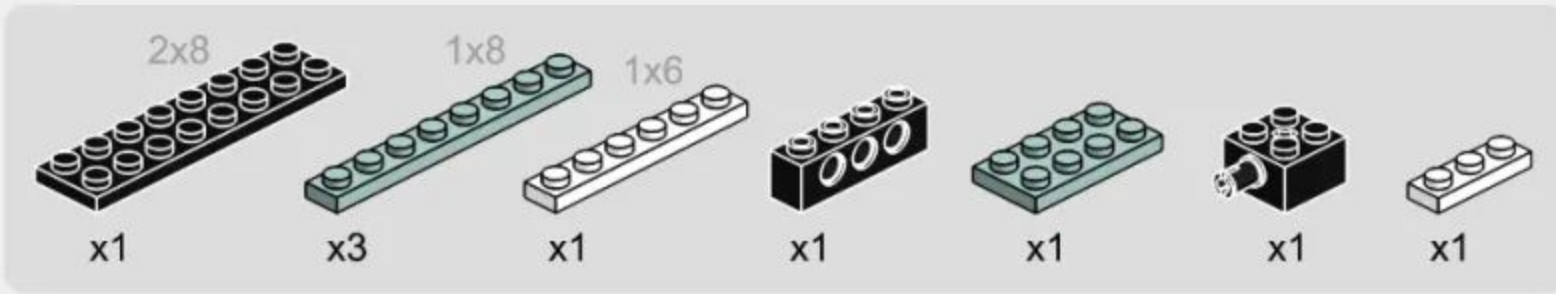
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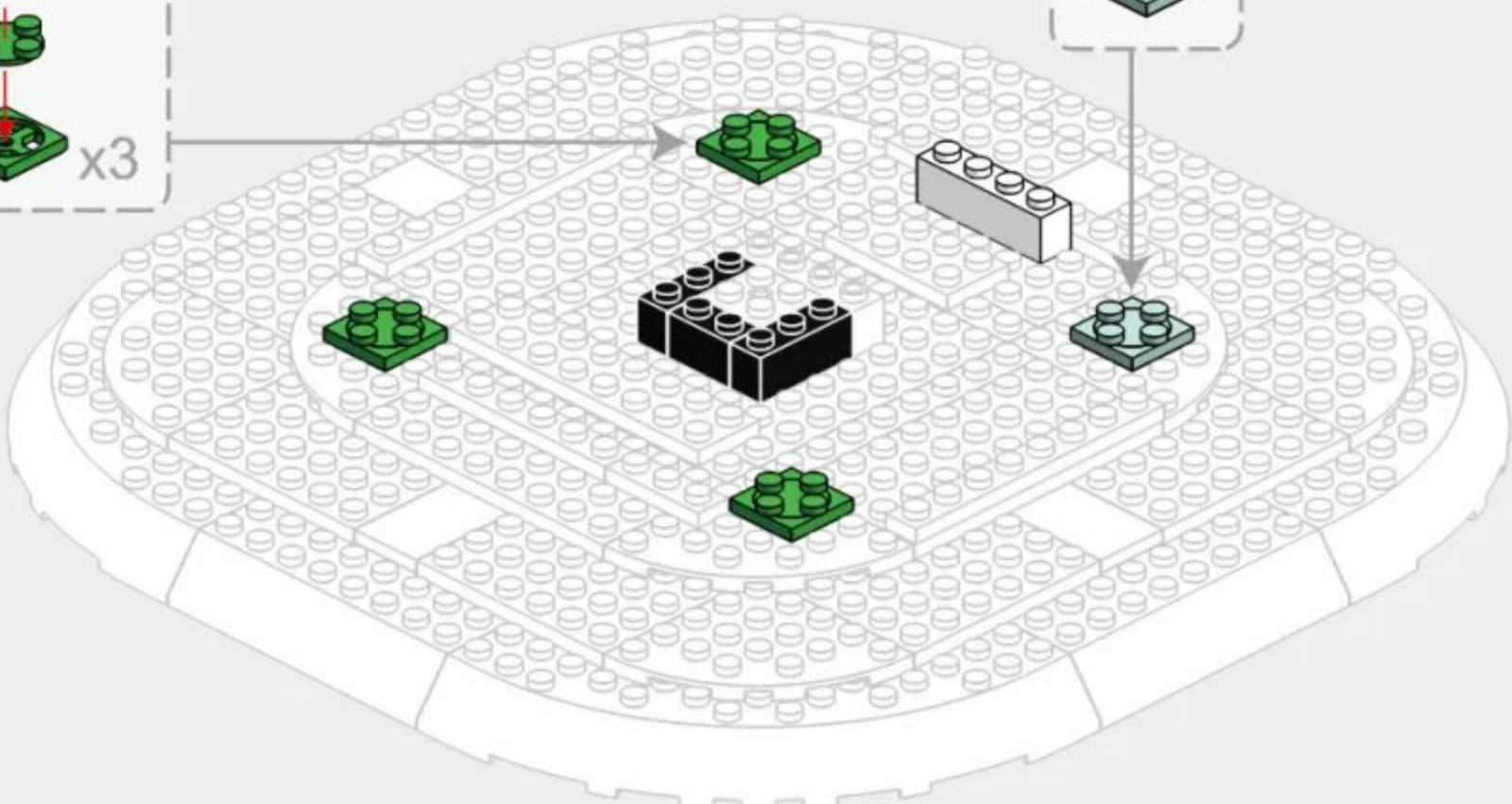
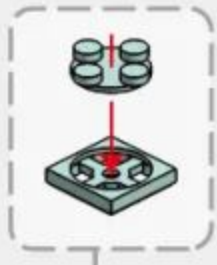
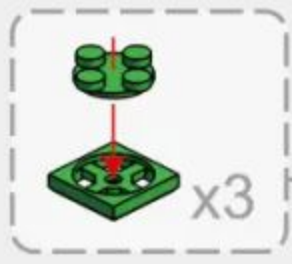
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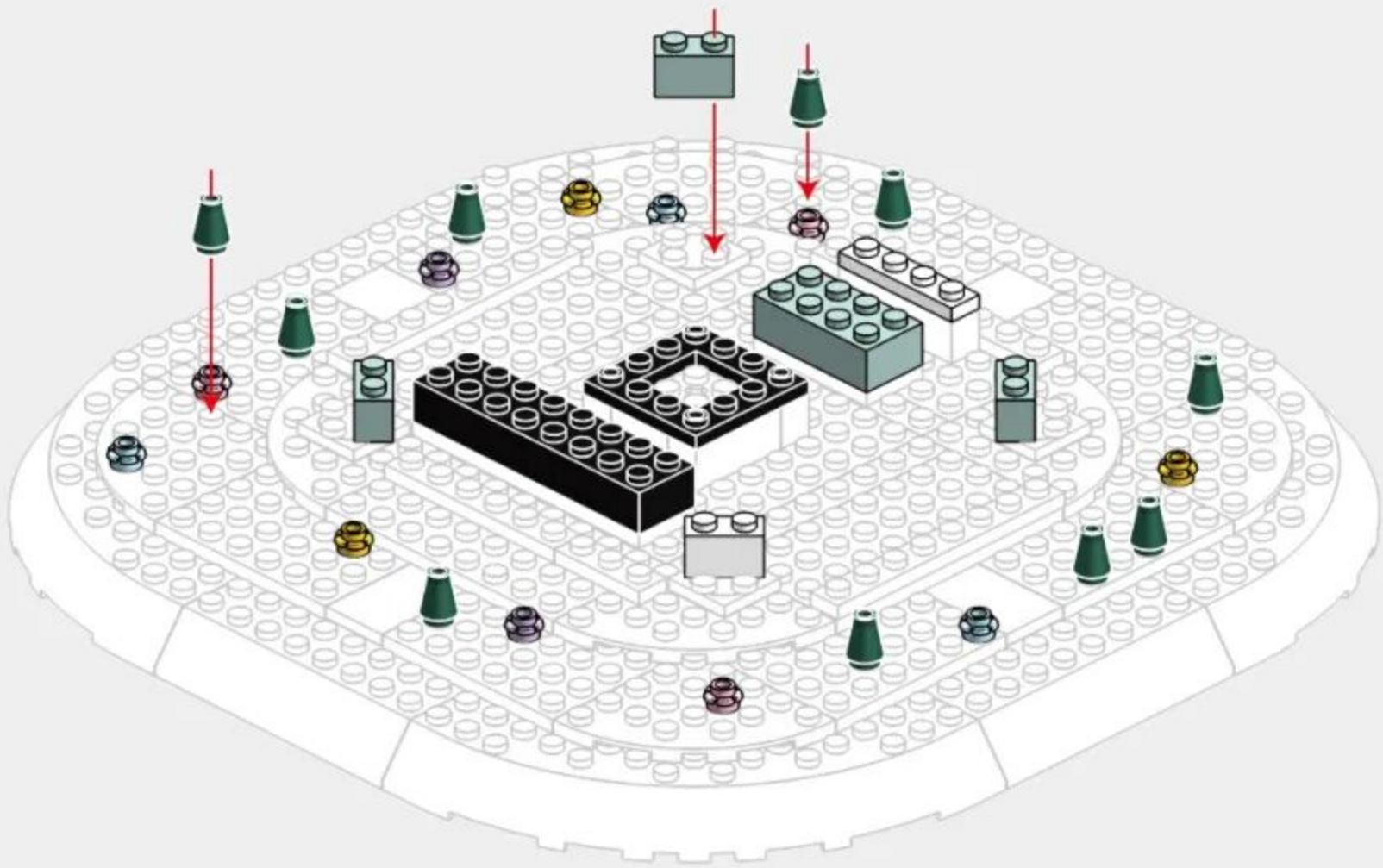
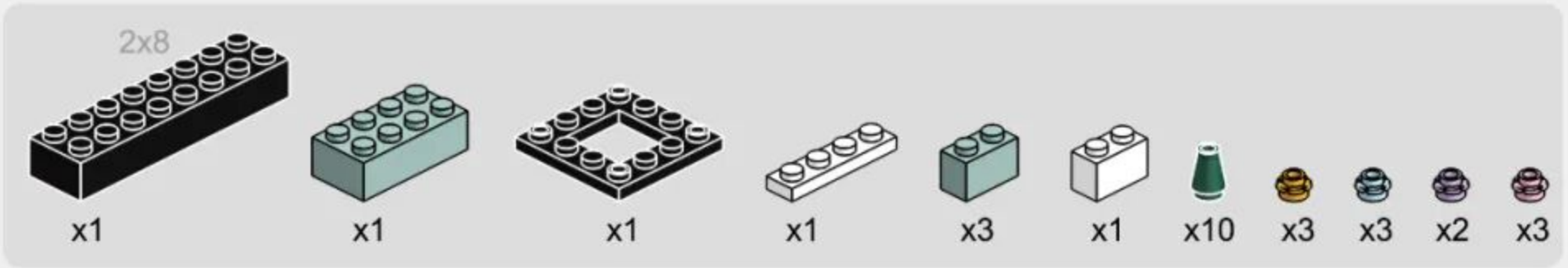
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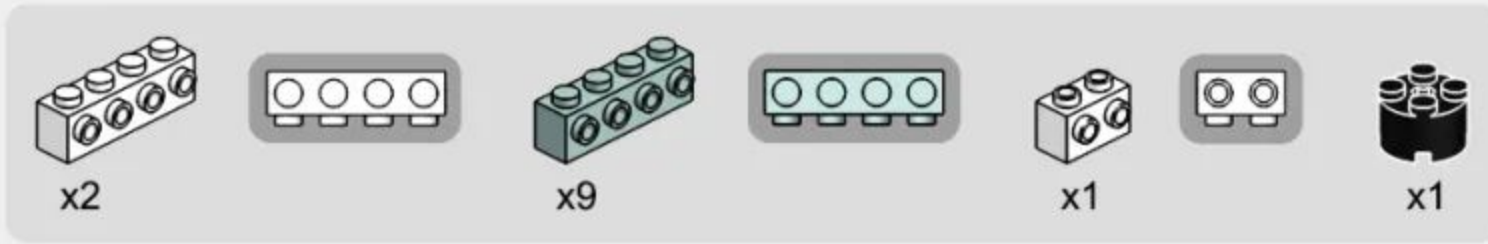
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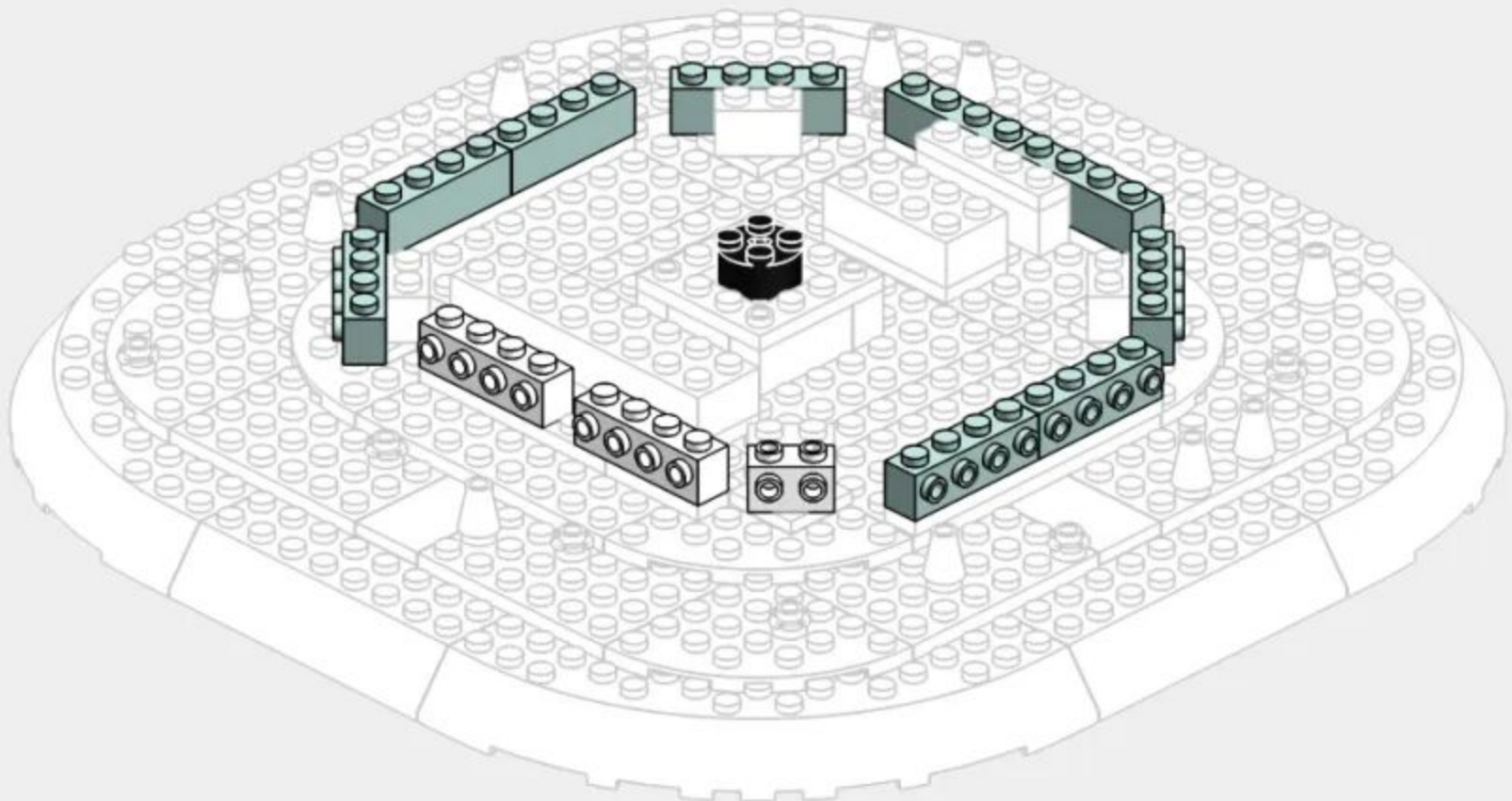
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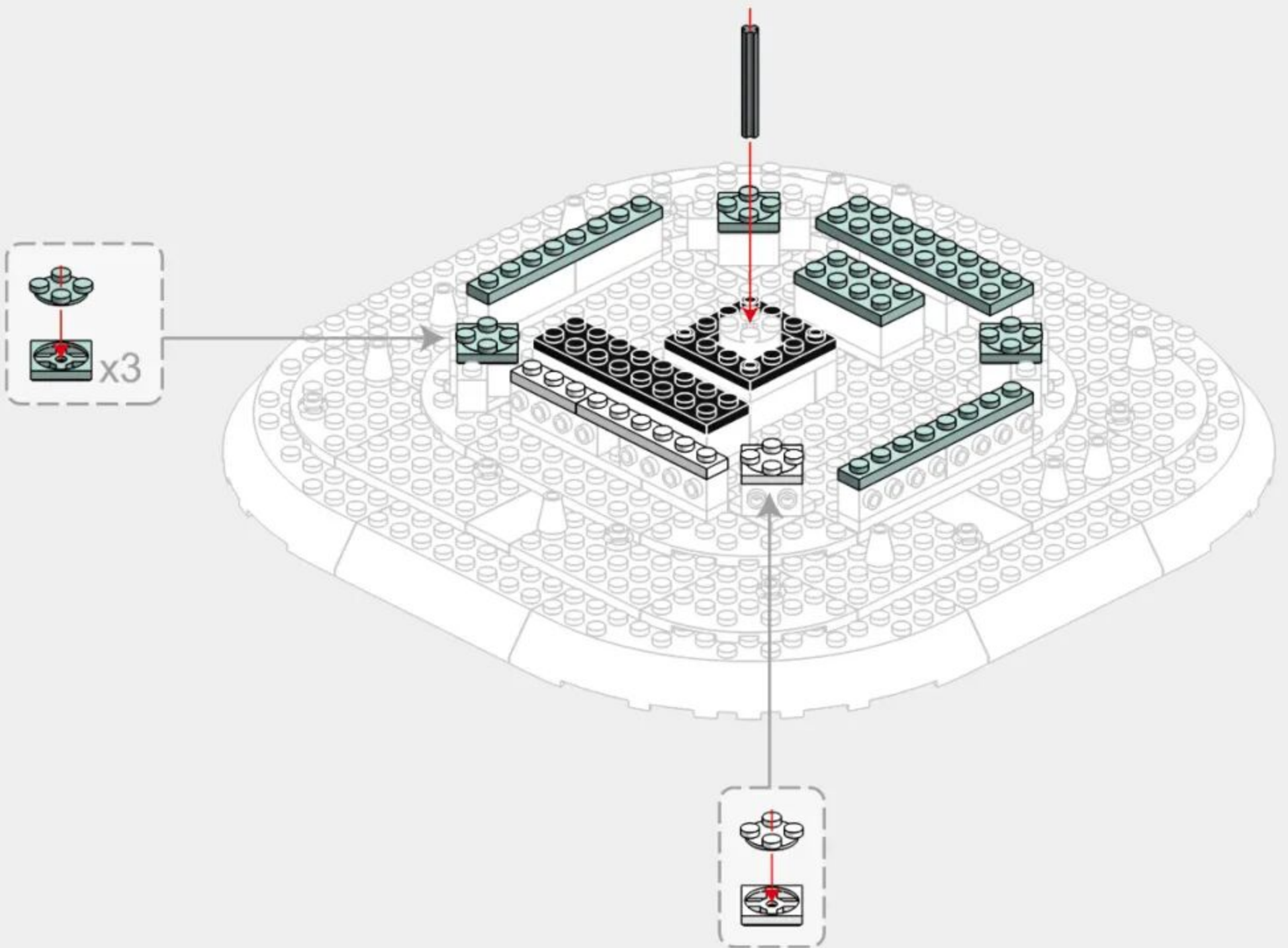
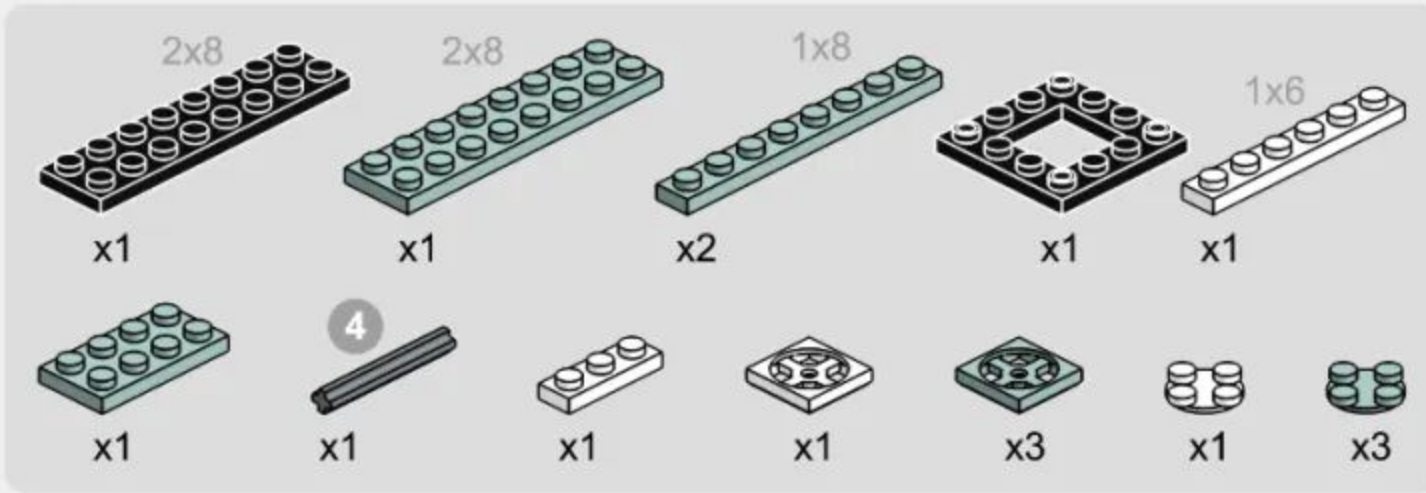
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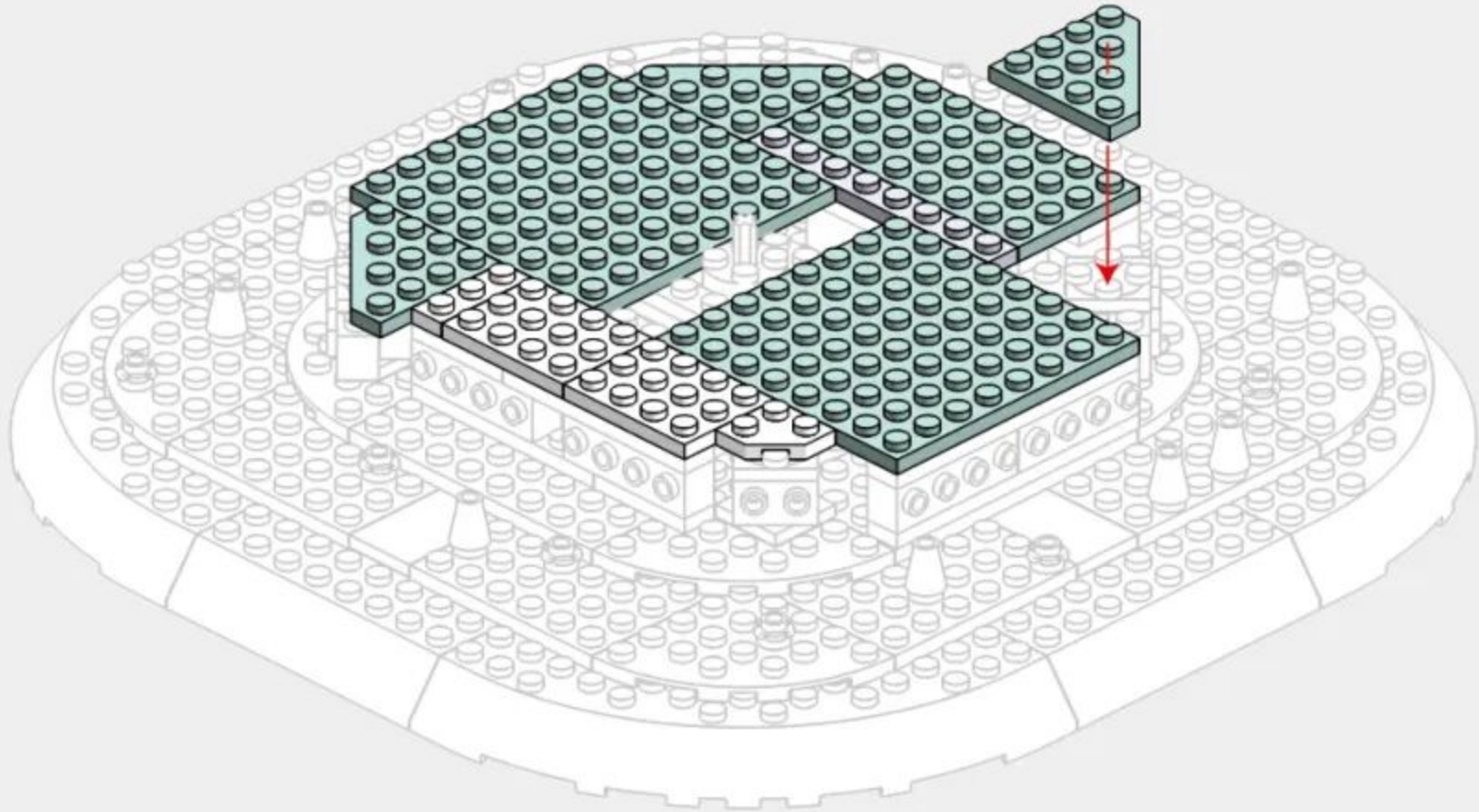
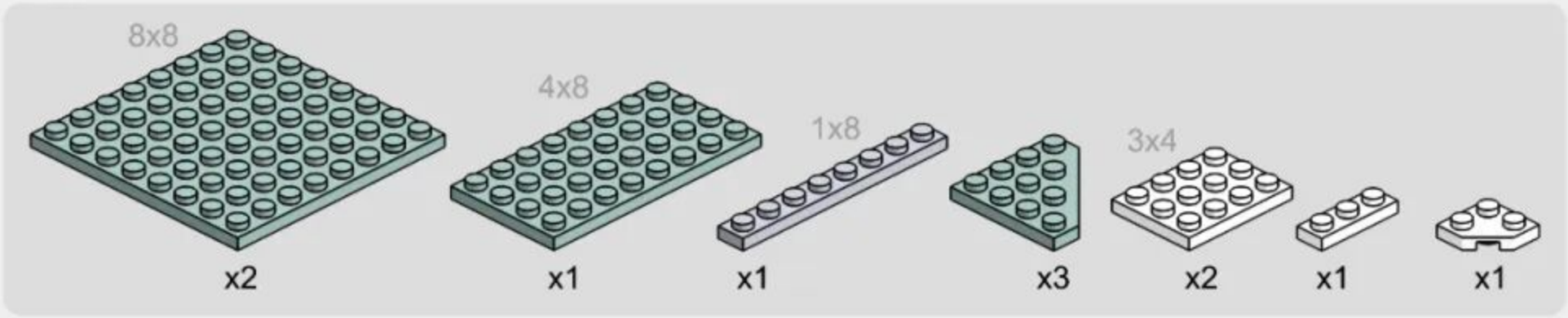
Vertical View of Installation Drawing  
安装图顶面



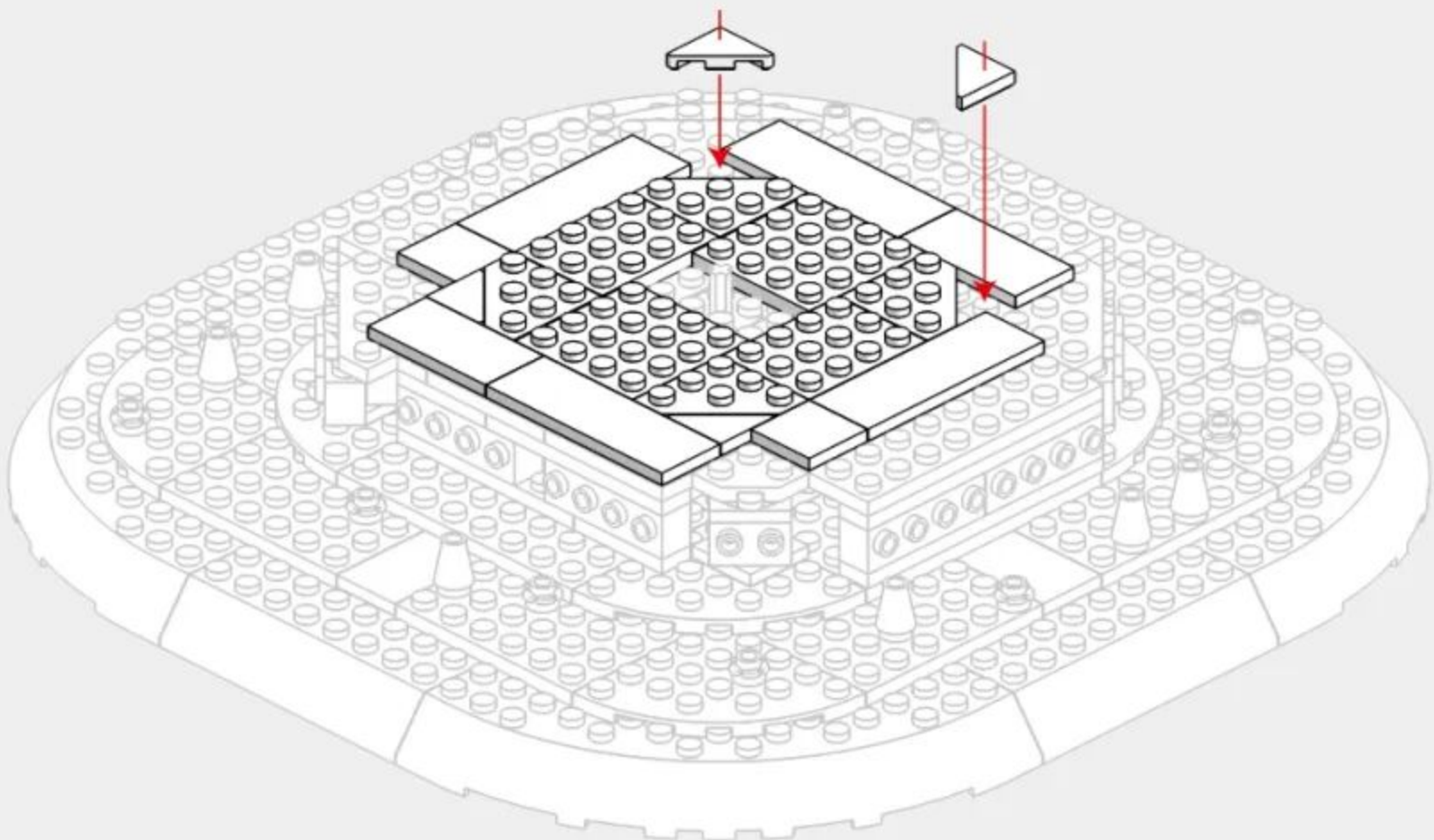
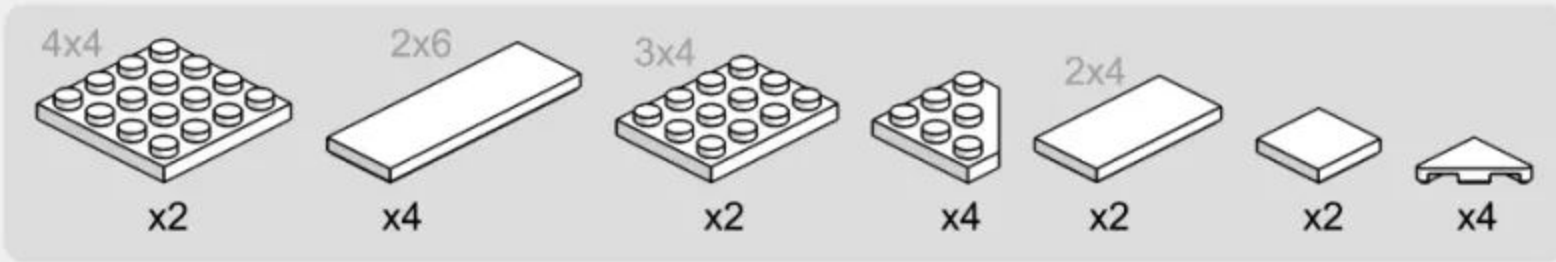
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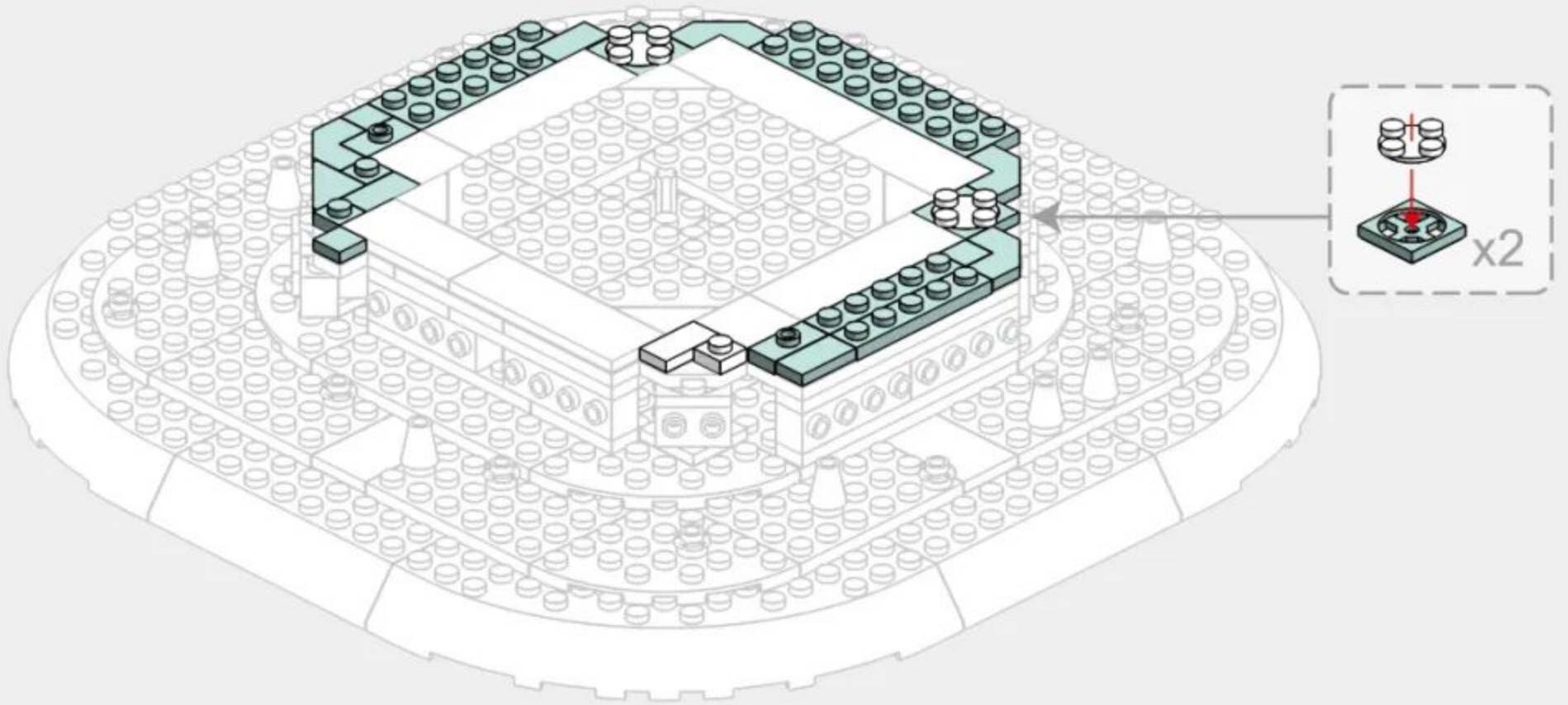
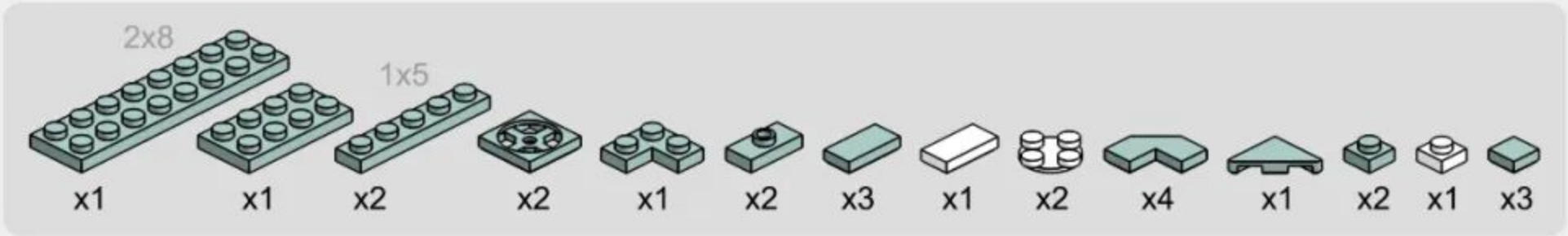
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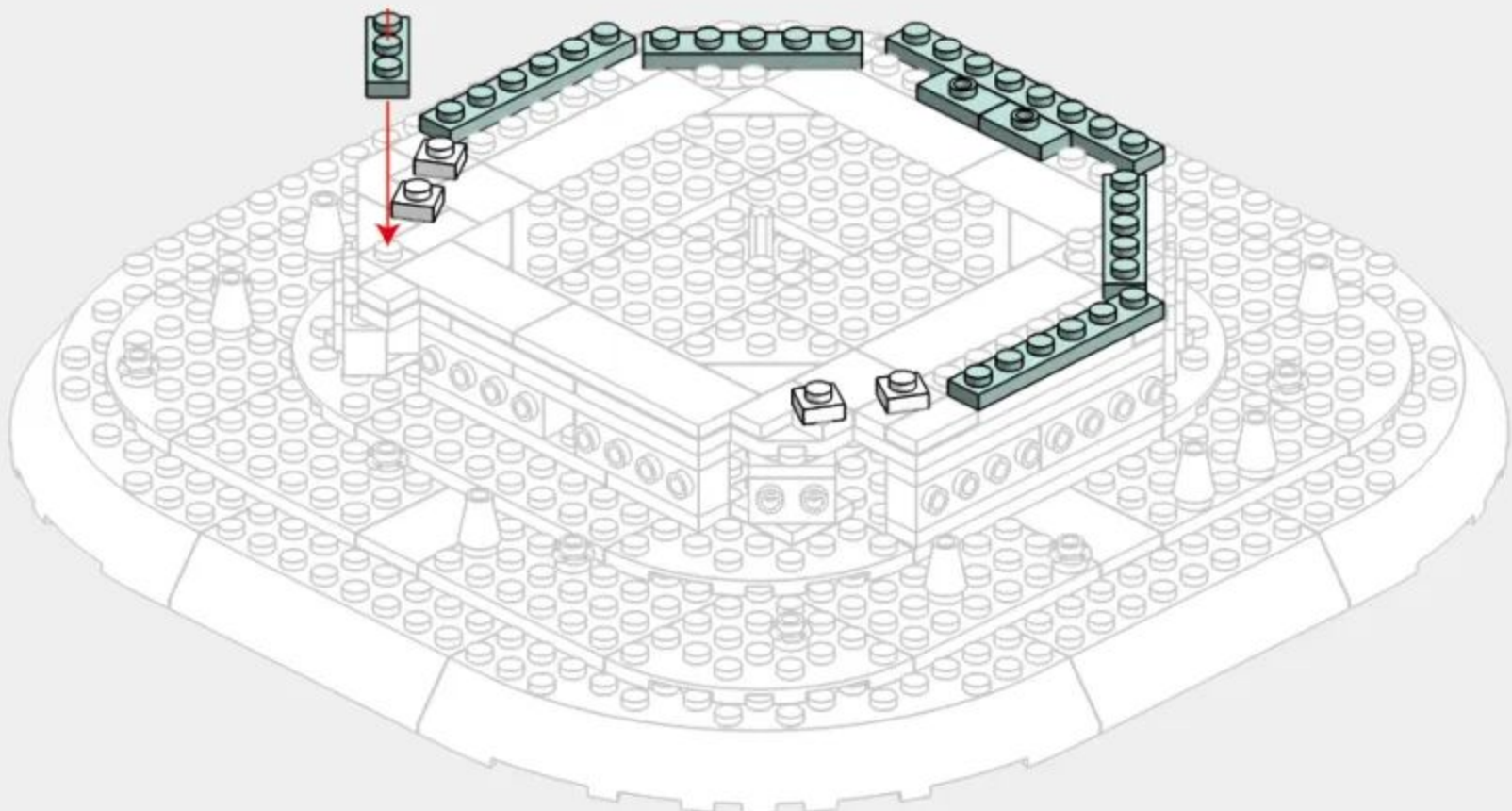
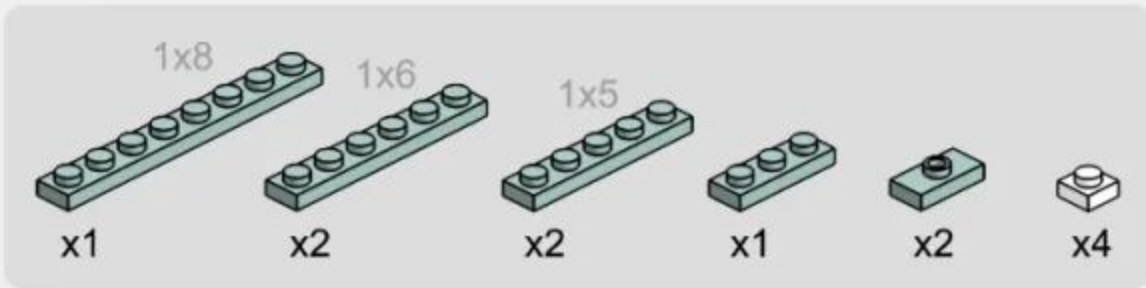
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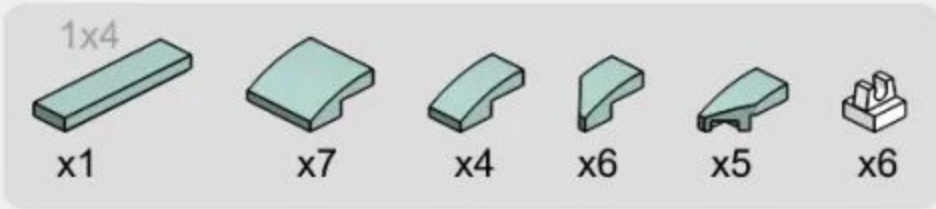
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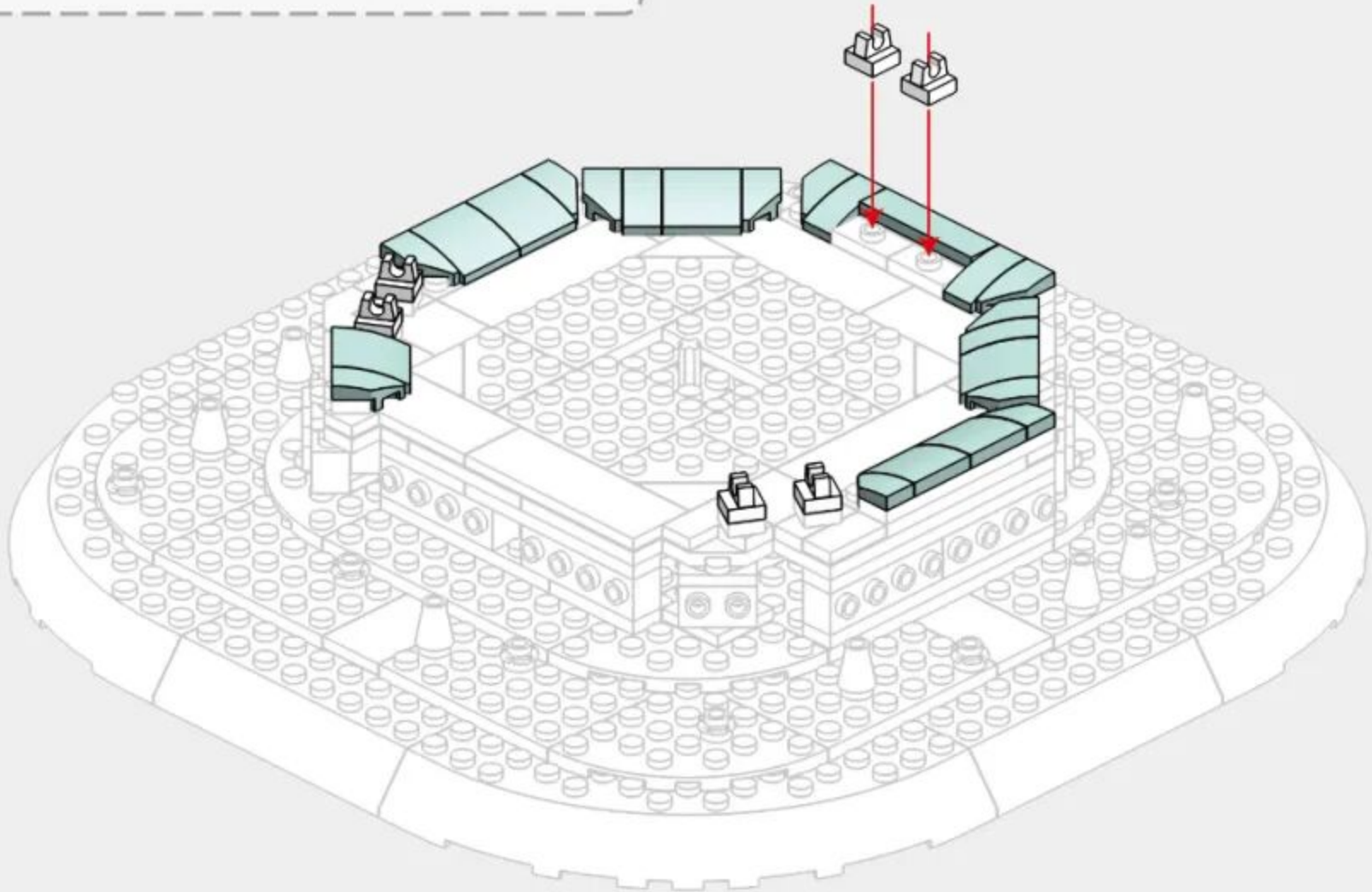
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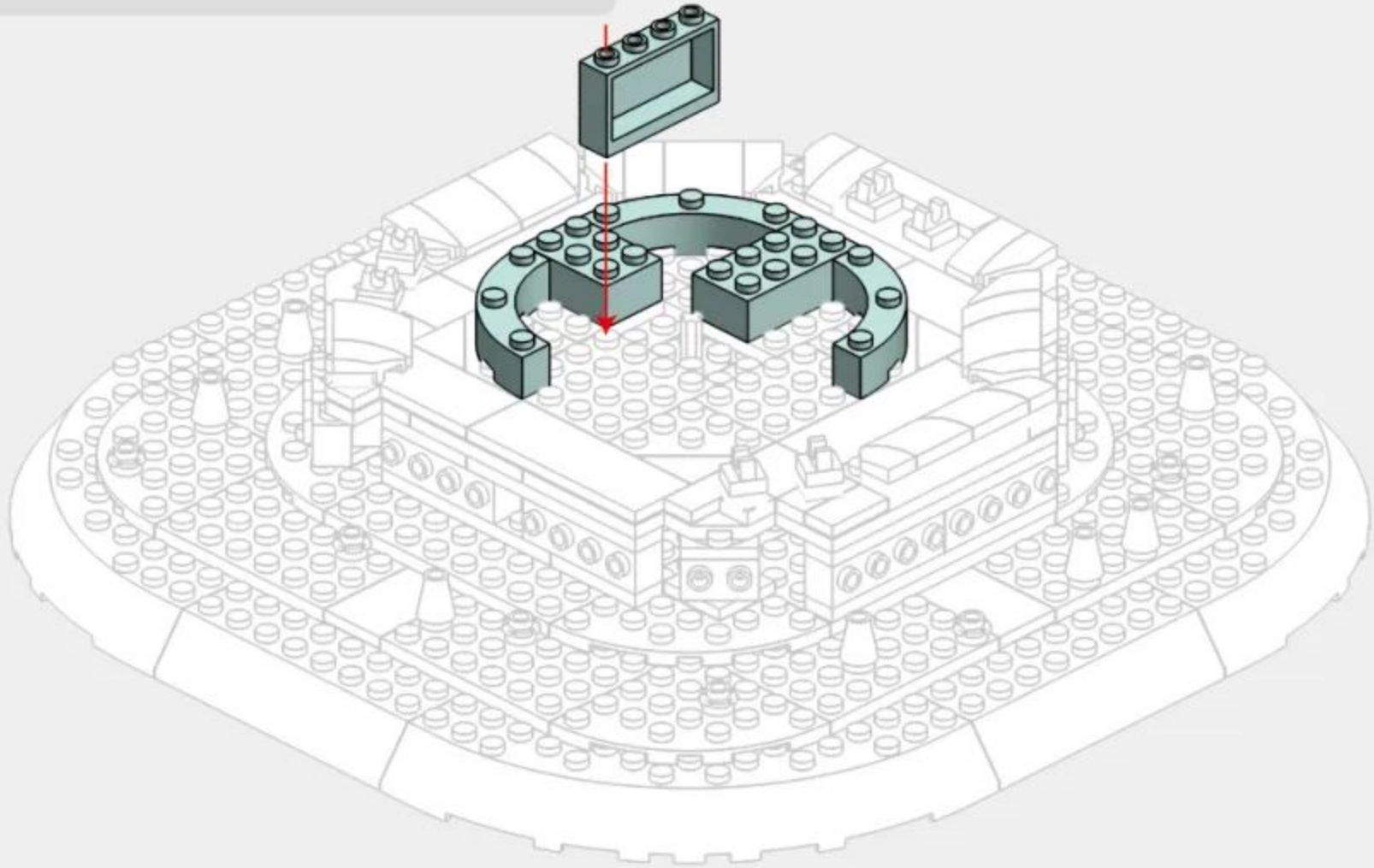
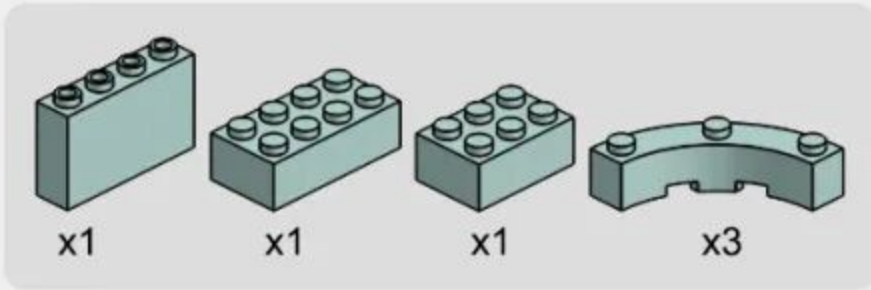
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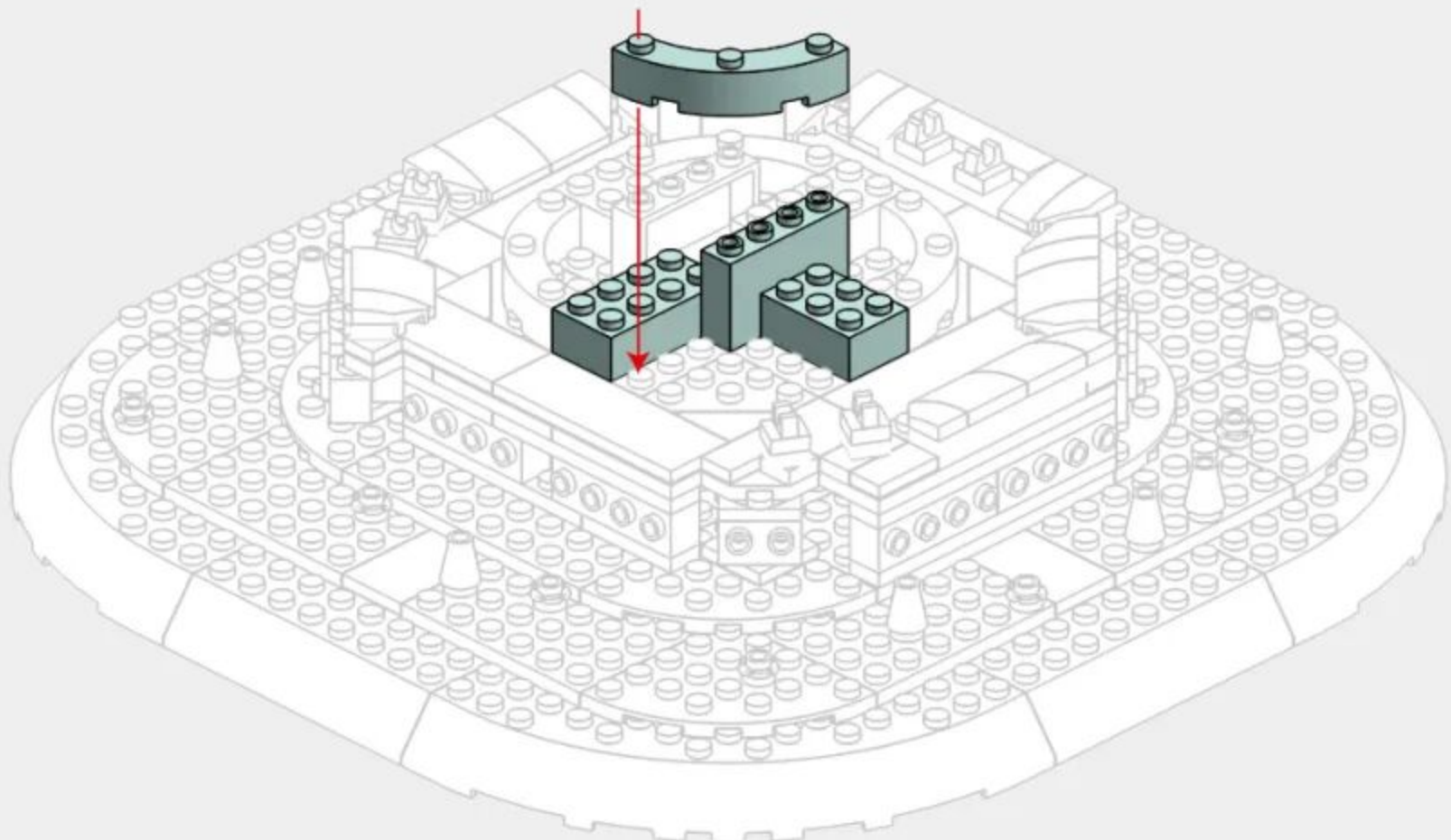
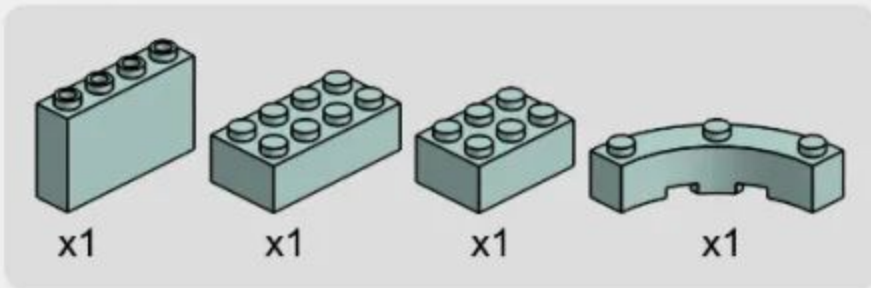
Vertical View of Installation Drawing  
安装图顶面



# 1-17

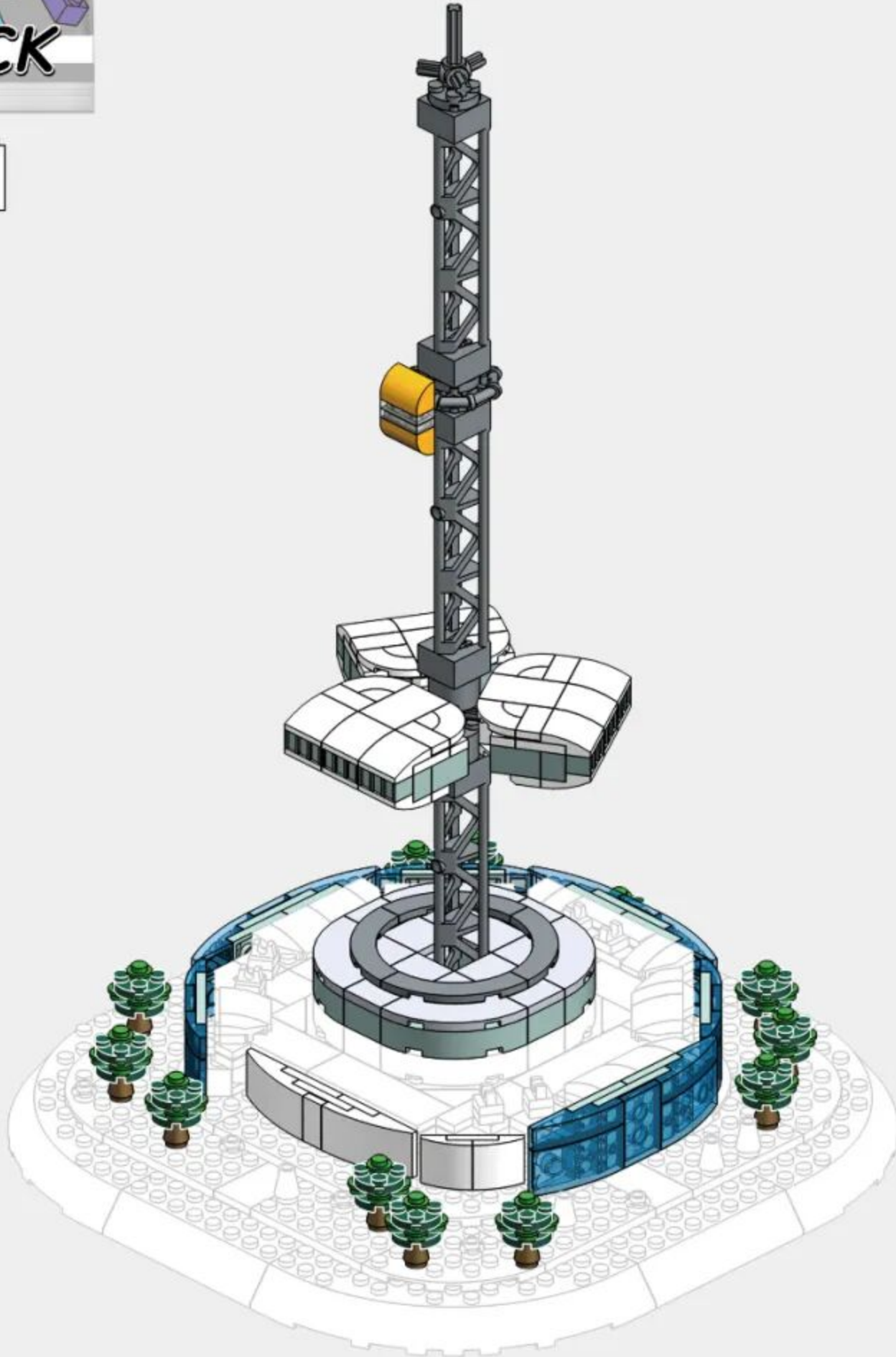


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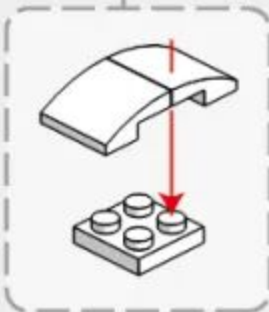
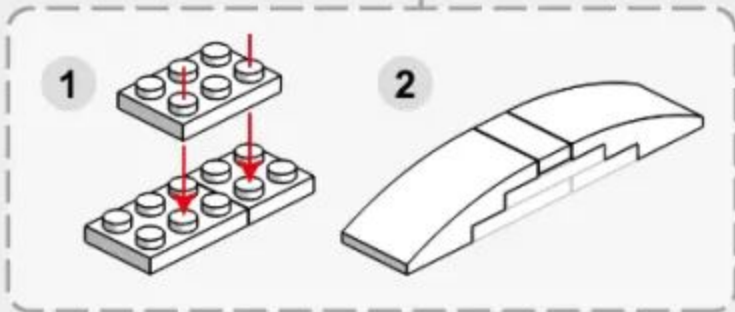
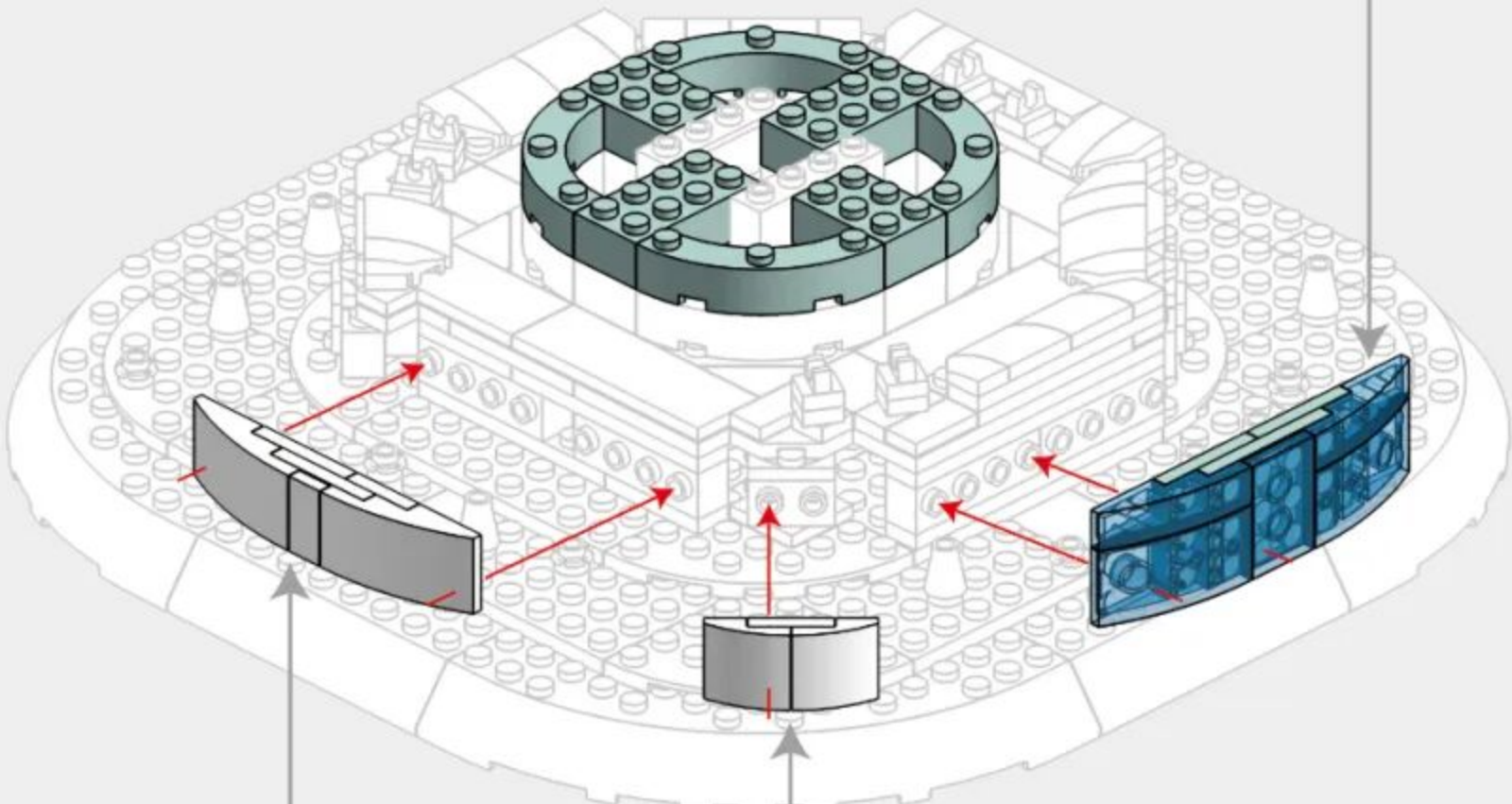
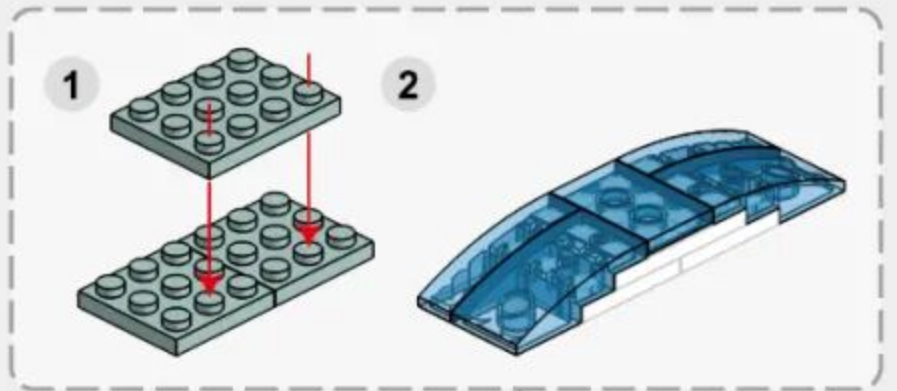
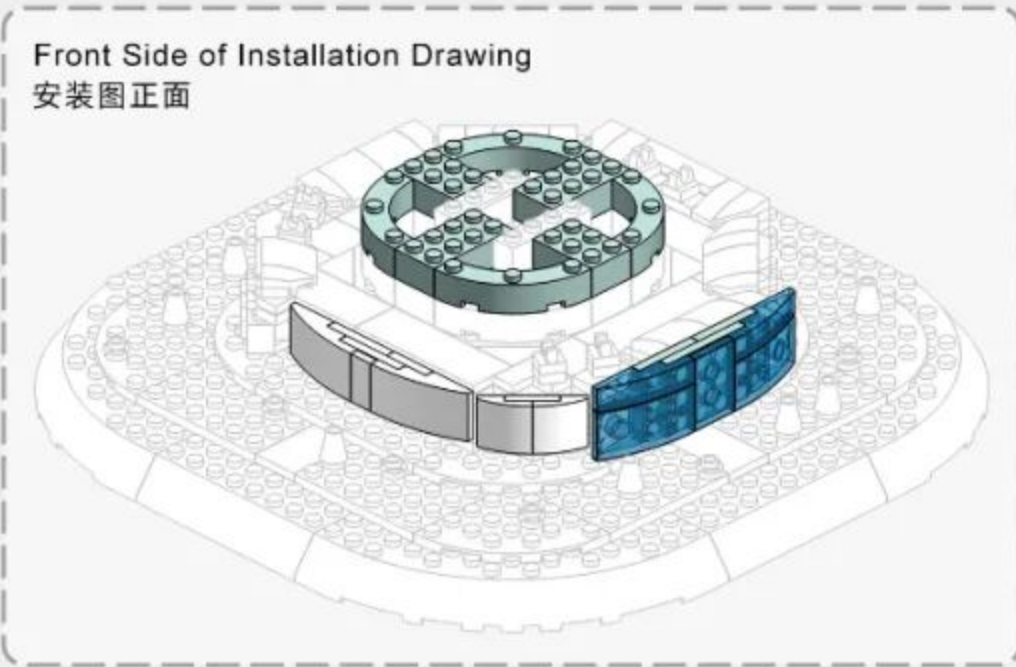
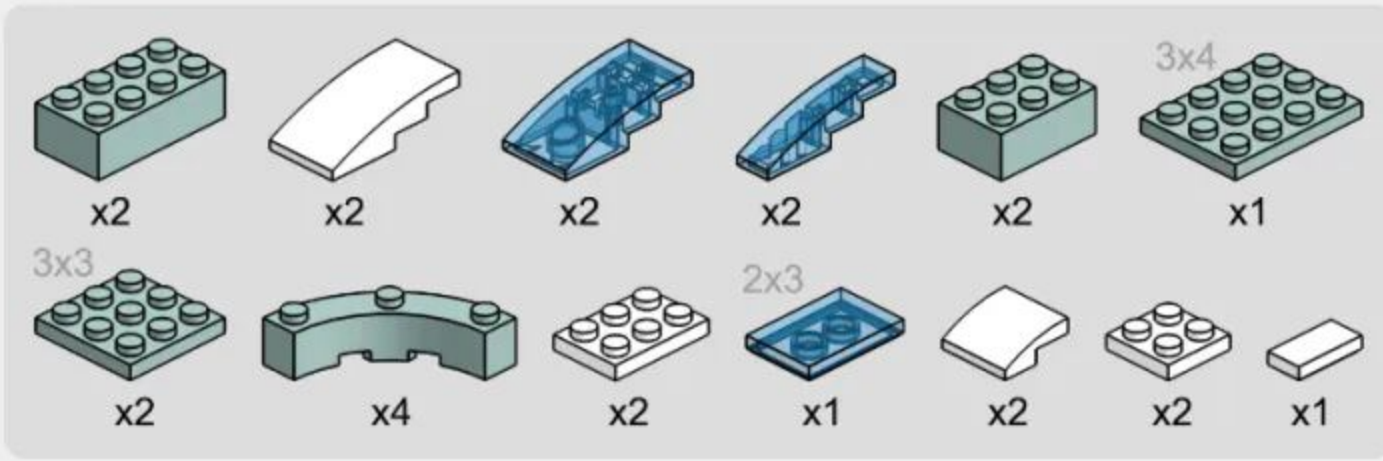


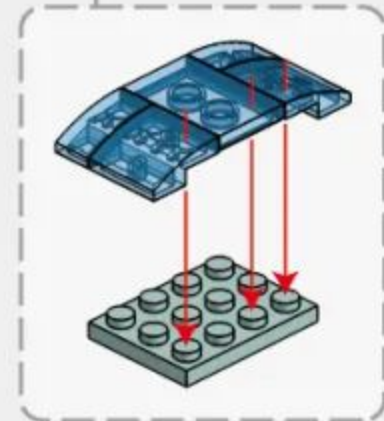
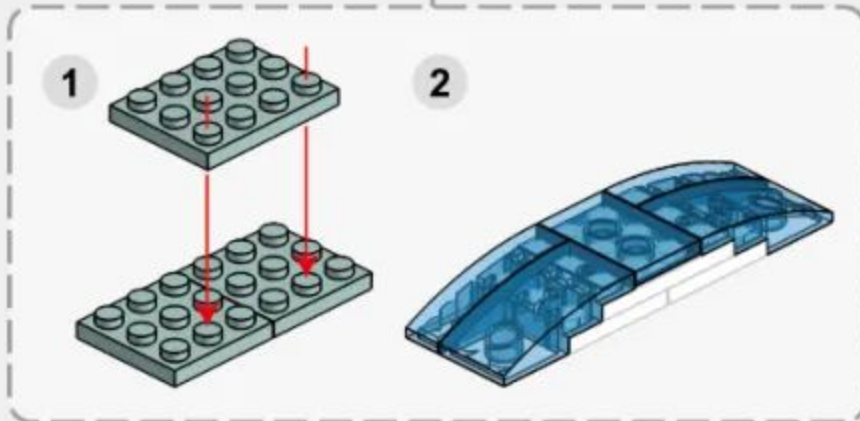
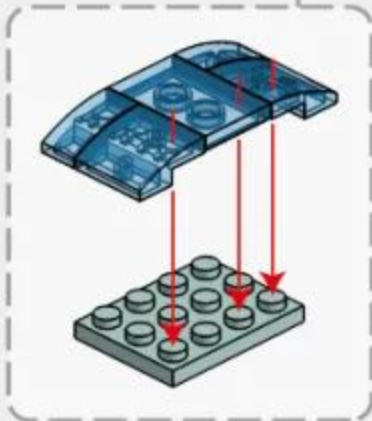
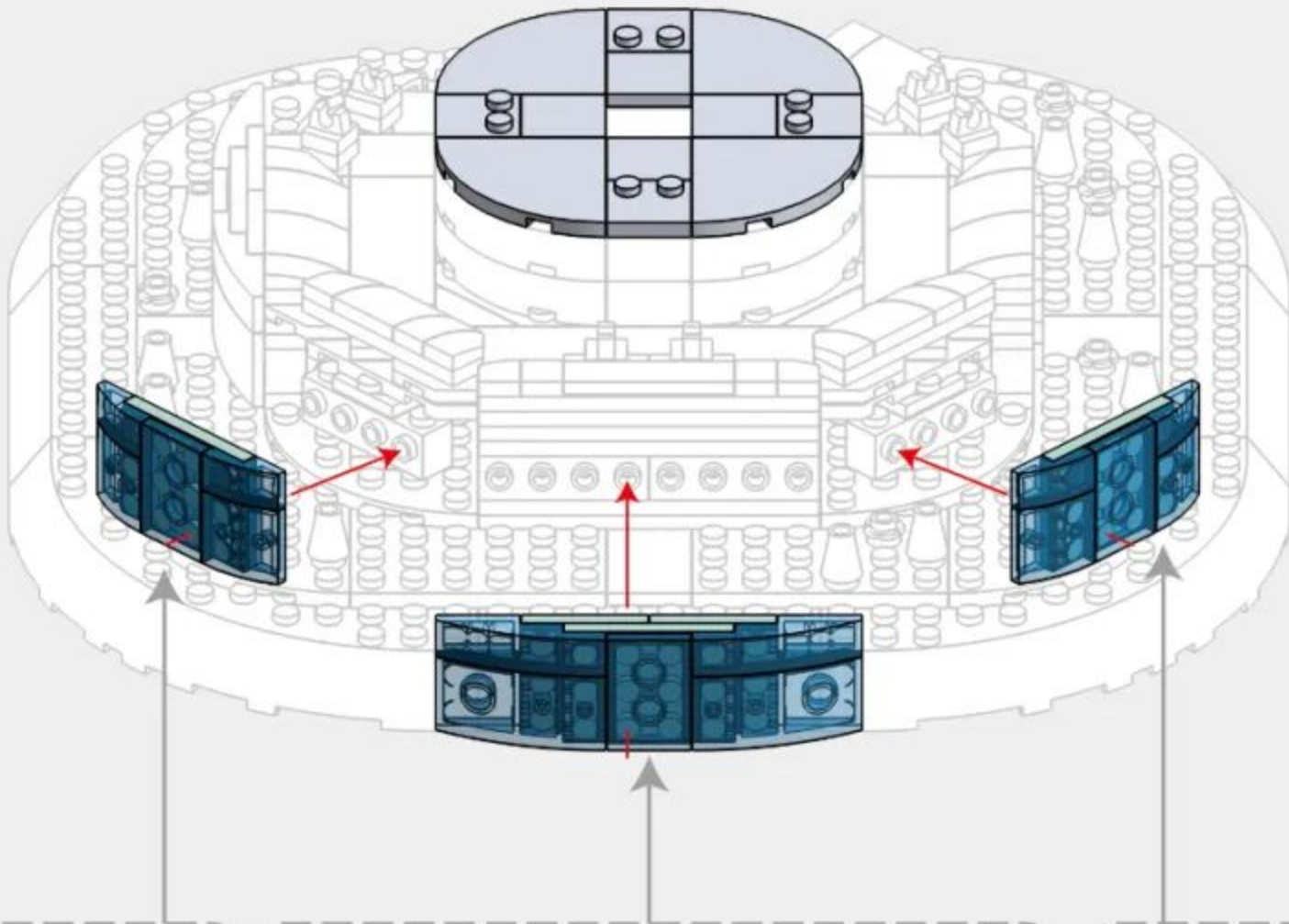
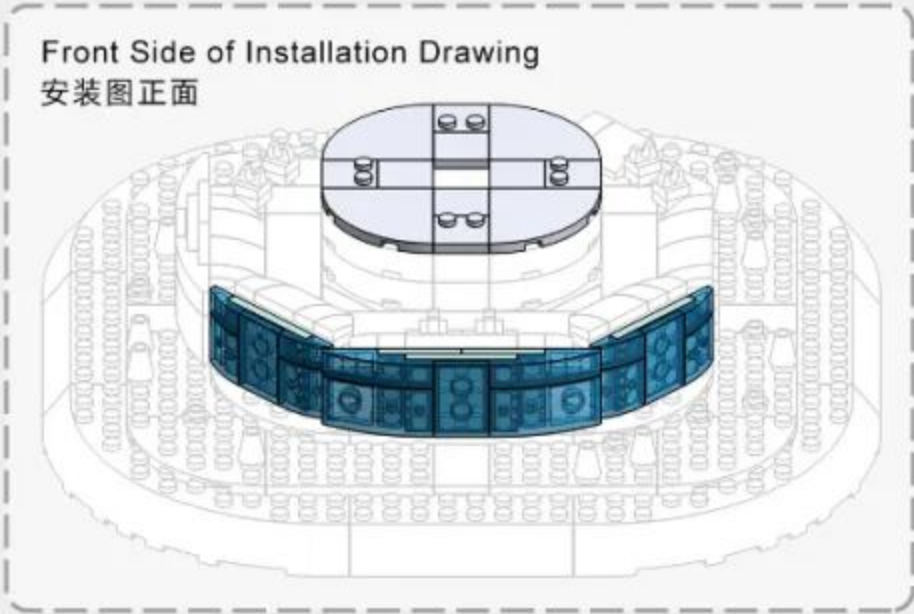
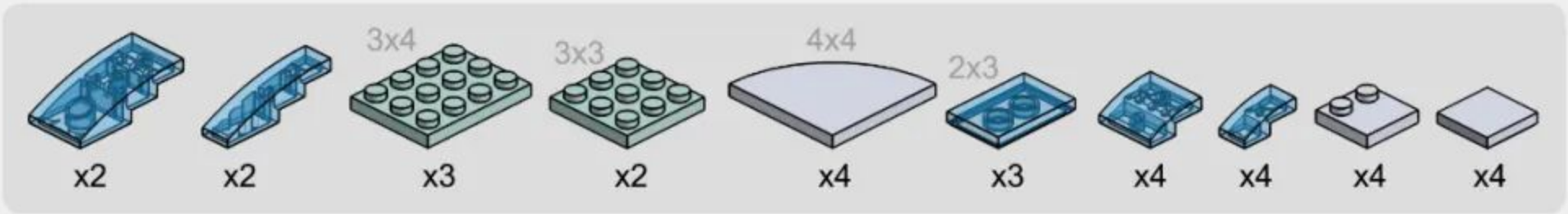


267 PCS



# 2-1

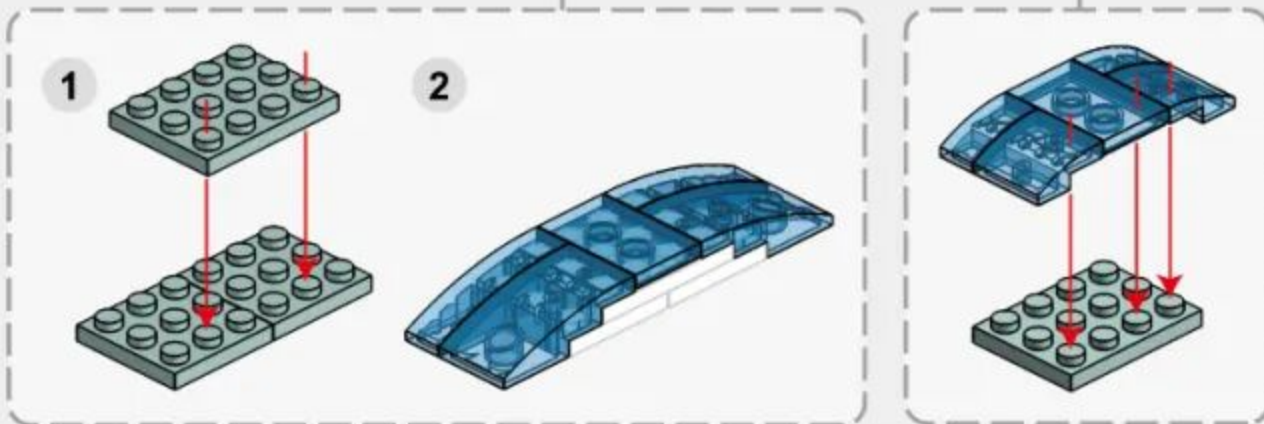
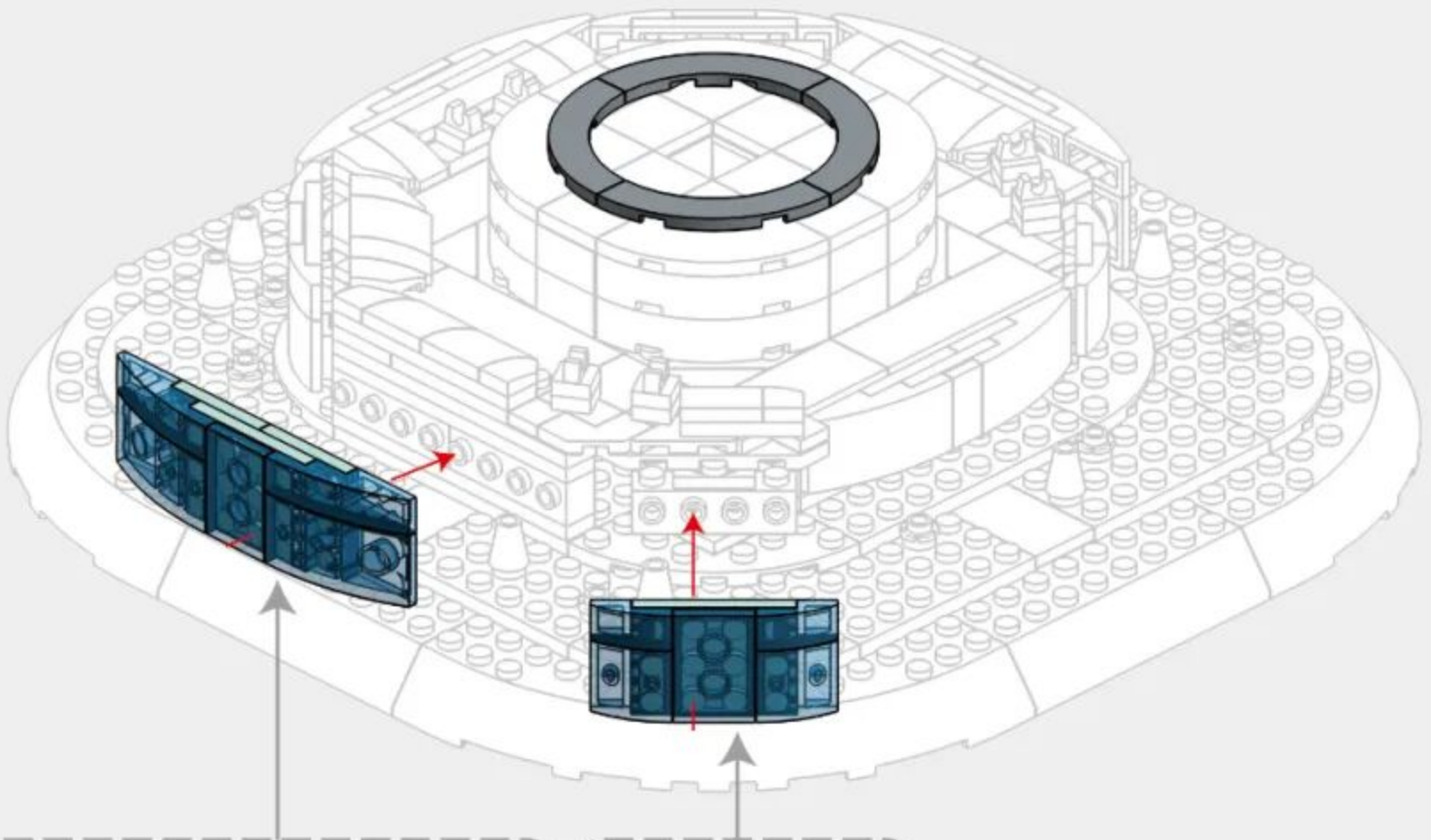
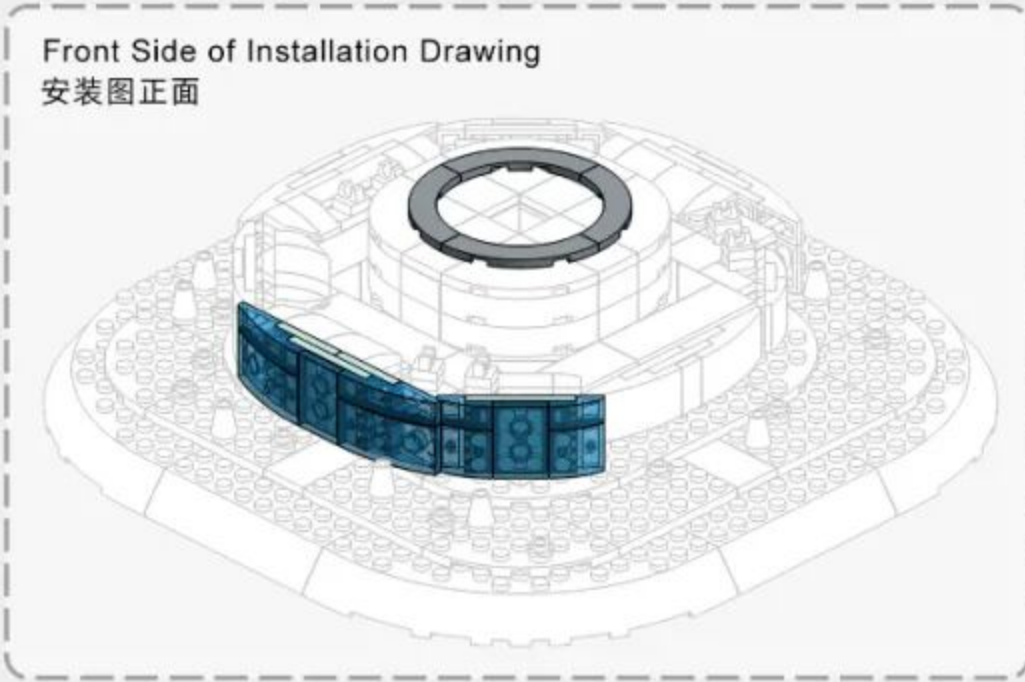




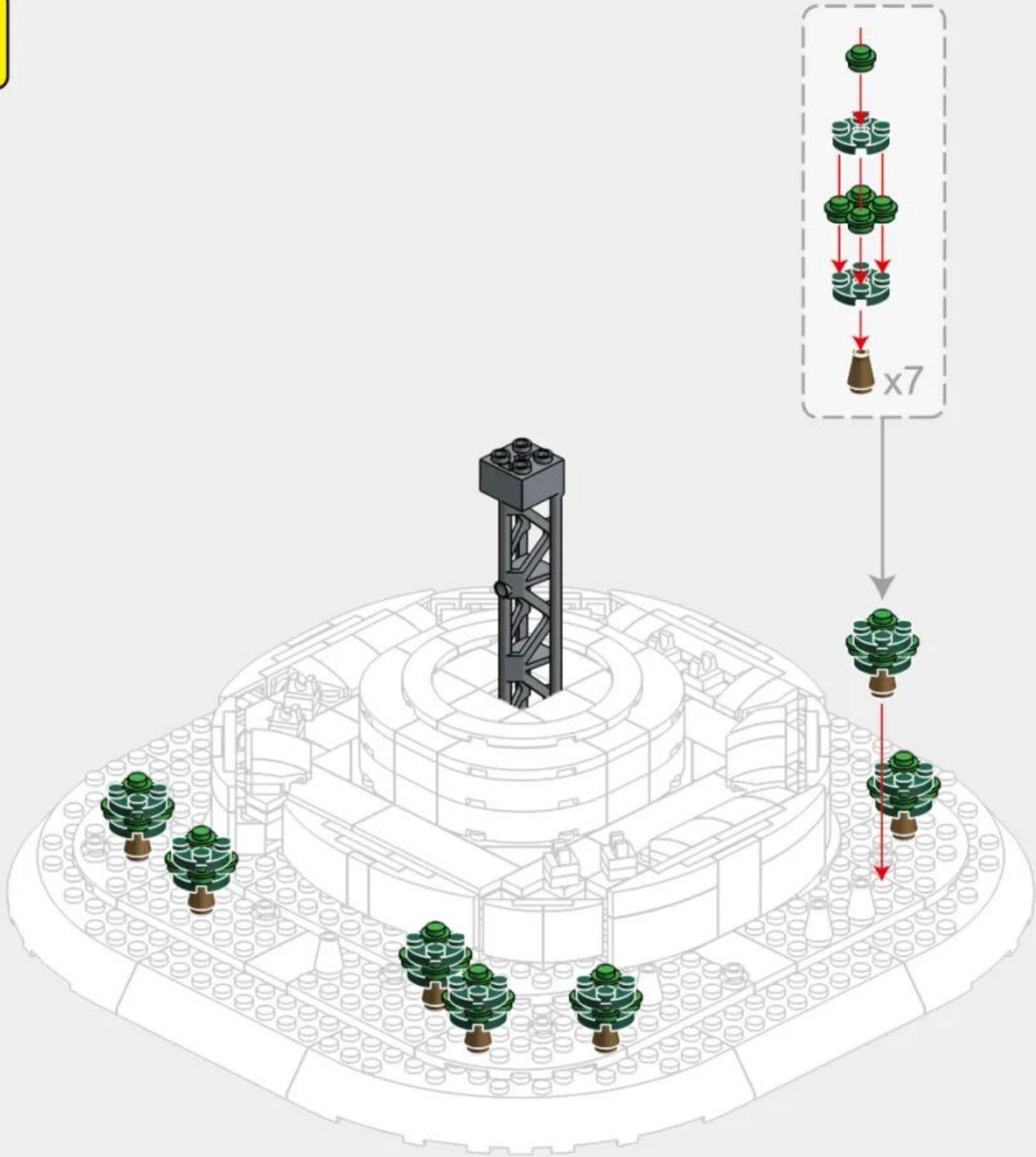
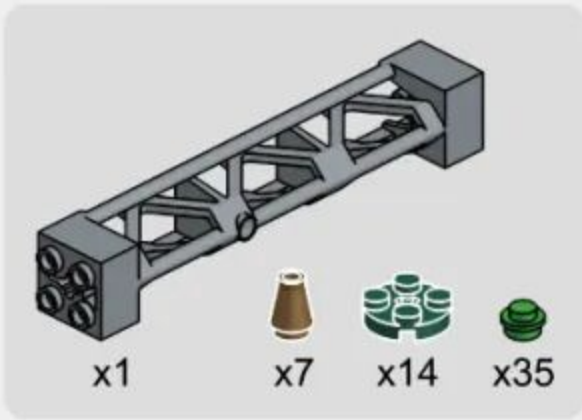
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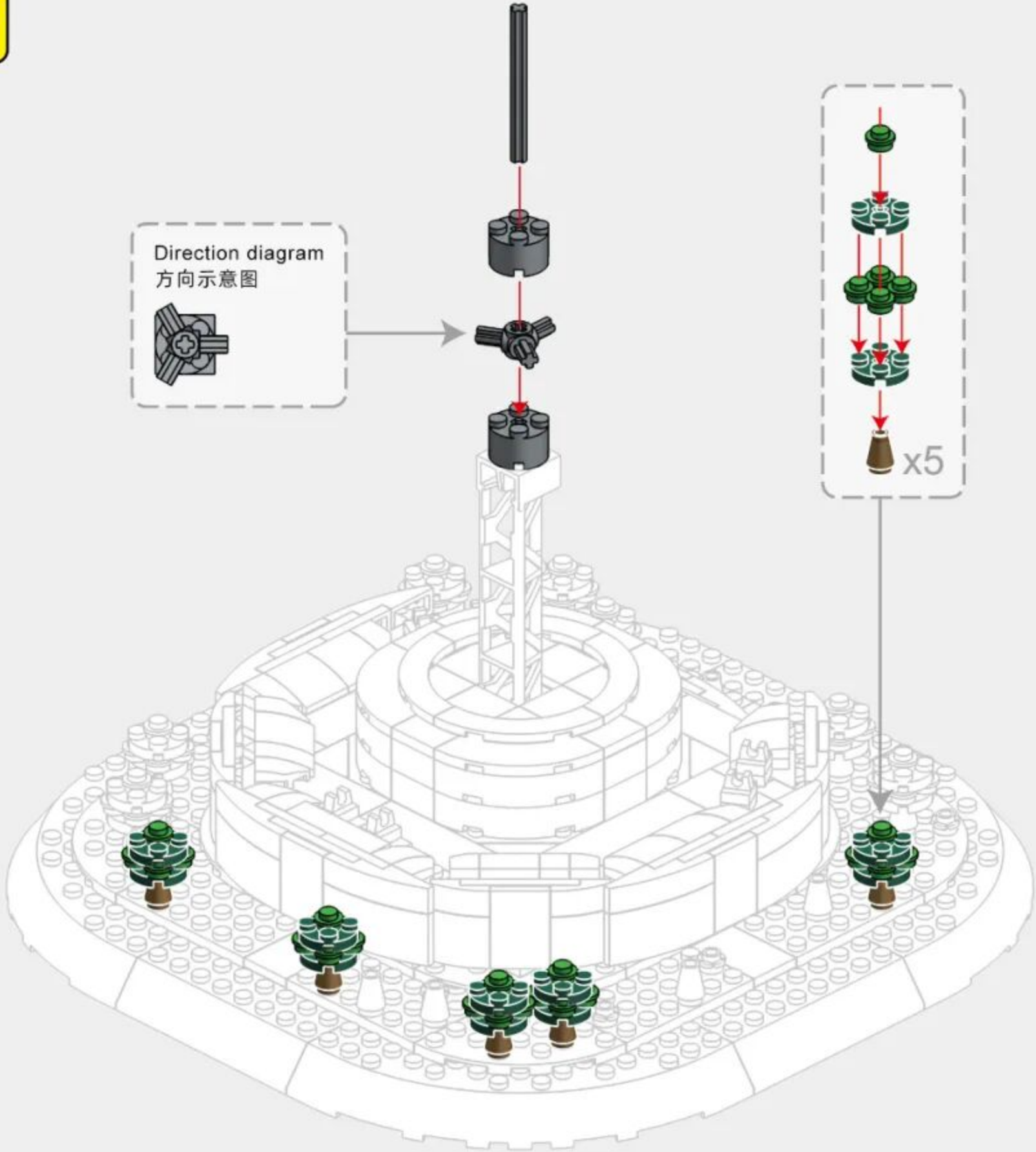
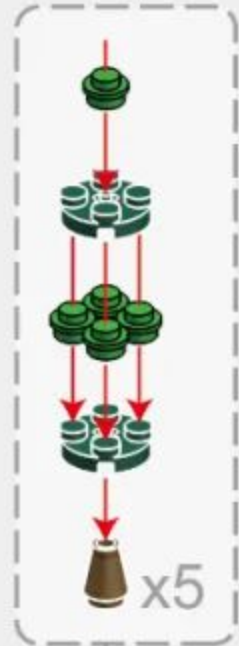
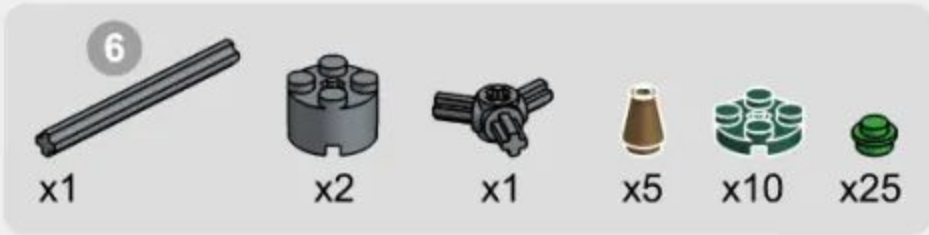
Front Side of Installation Drawing  
安装图正面



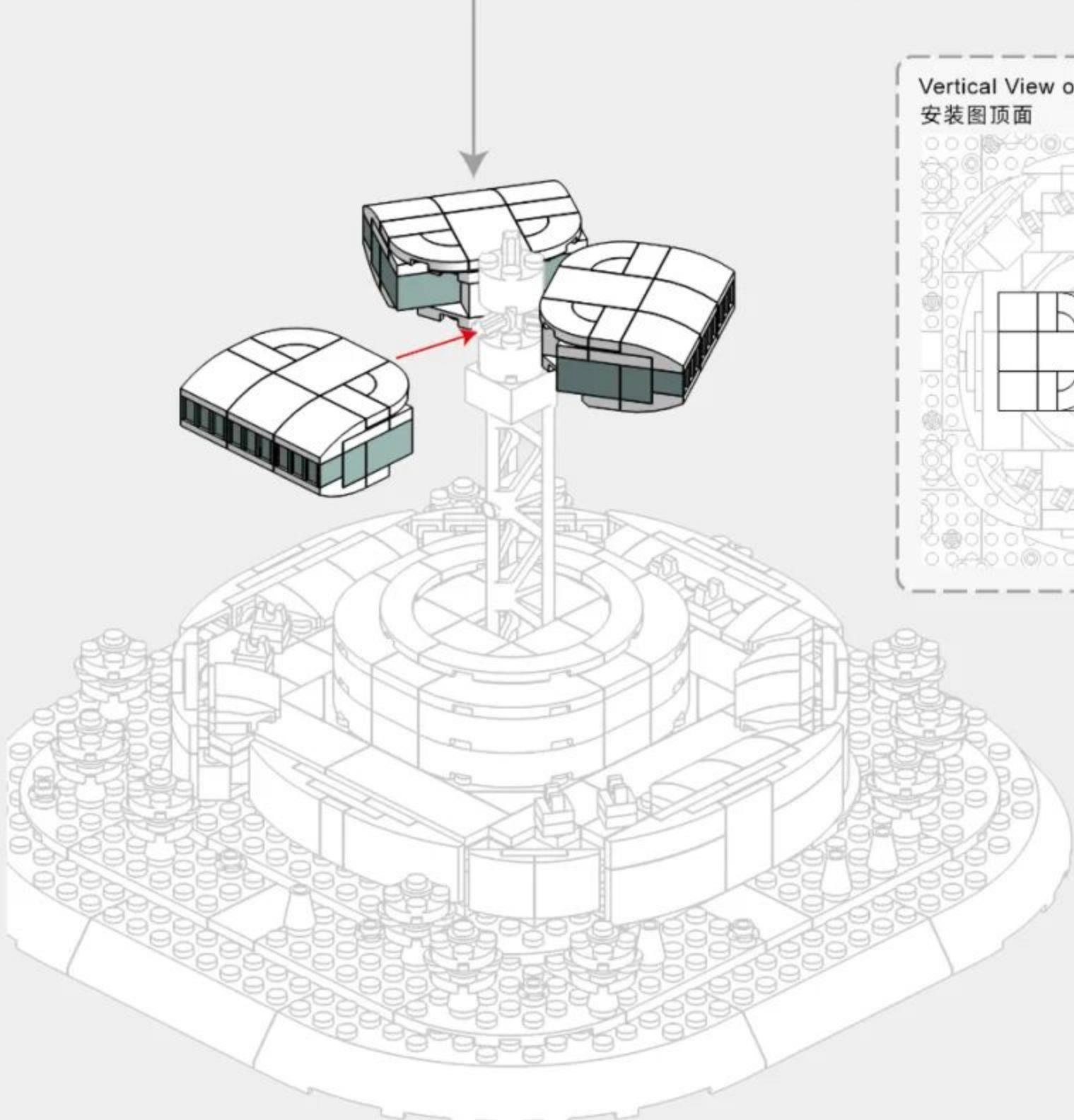
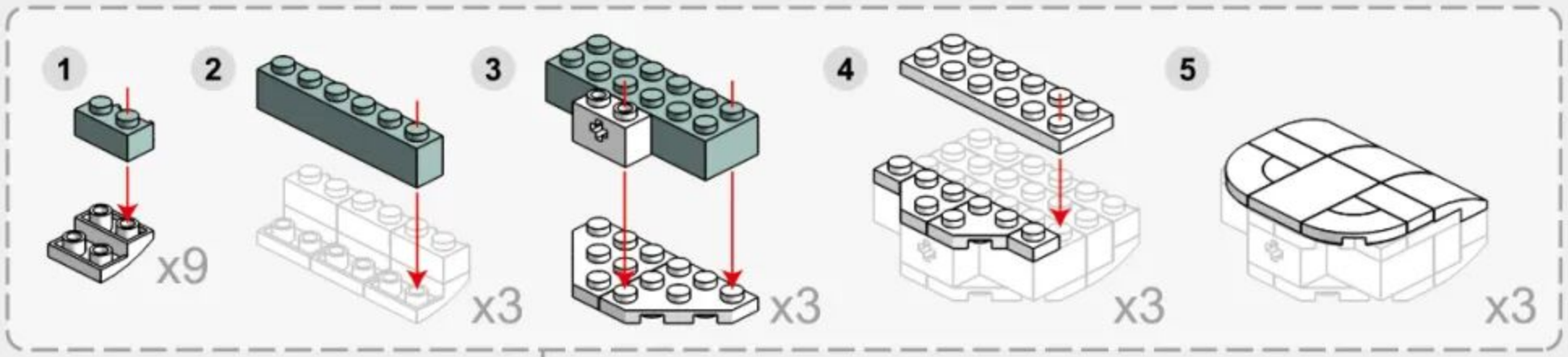
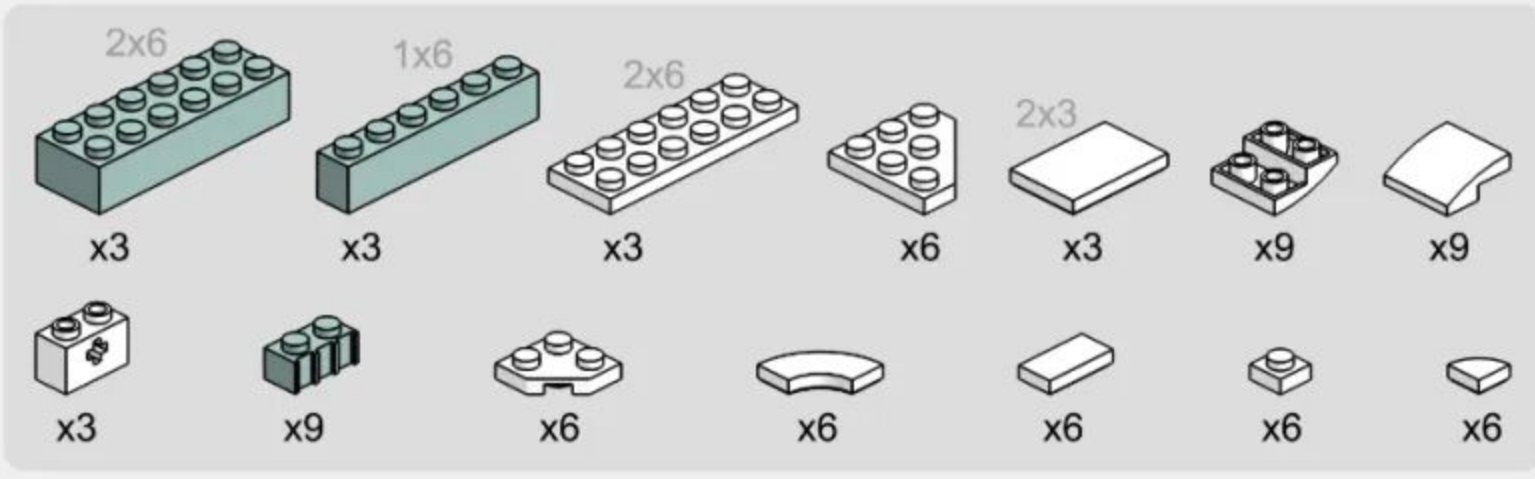
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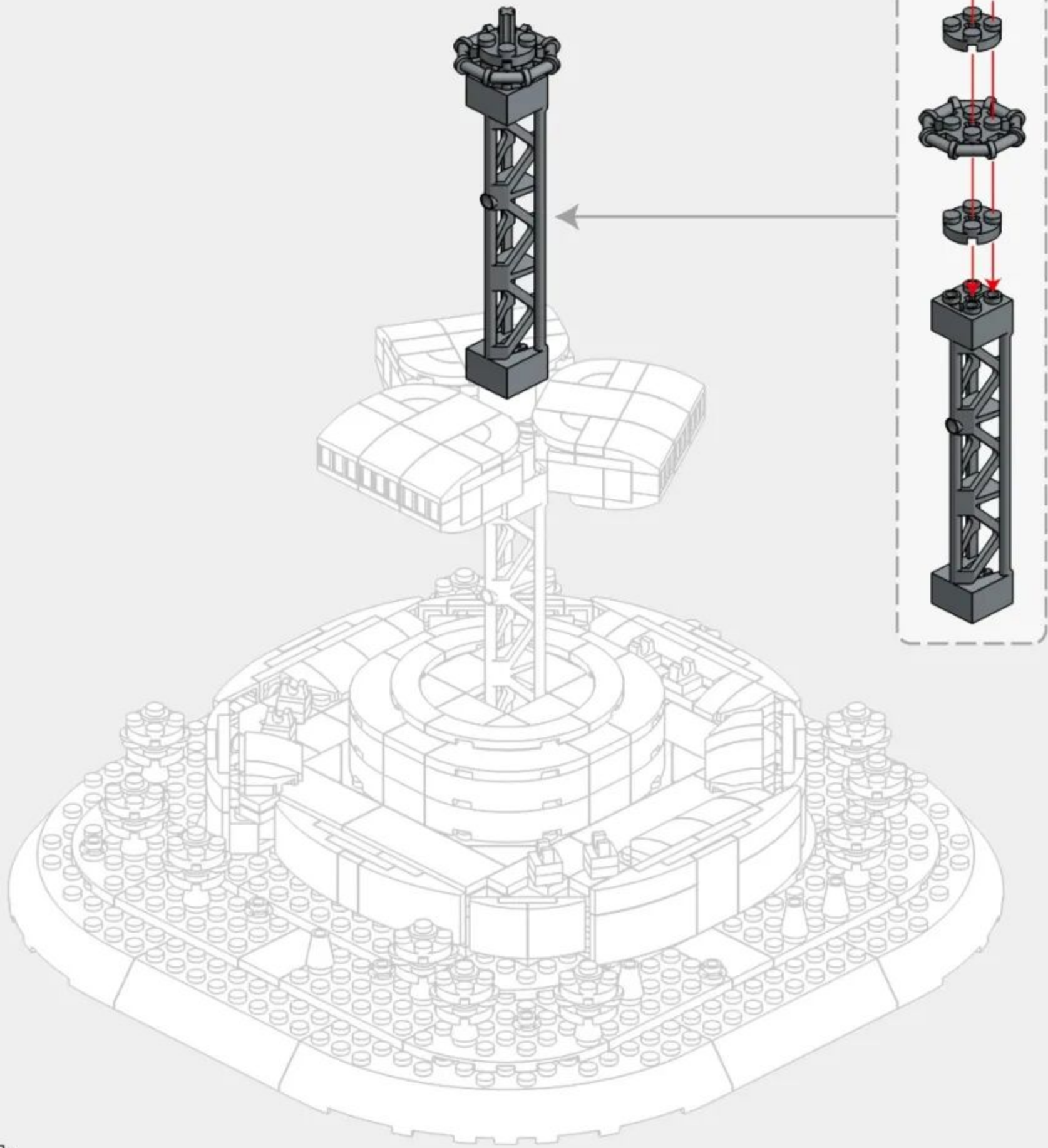
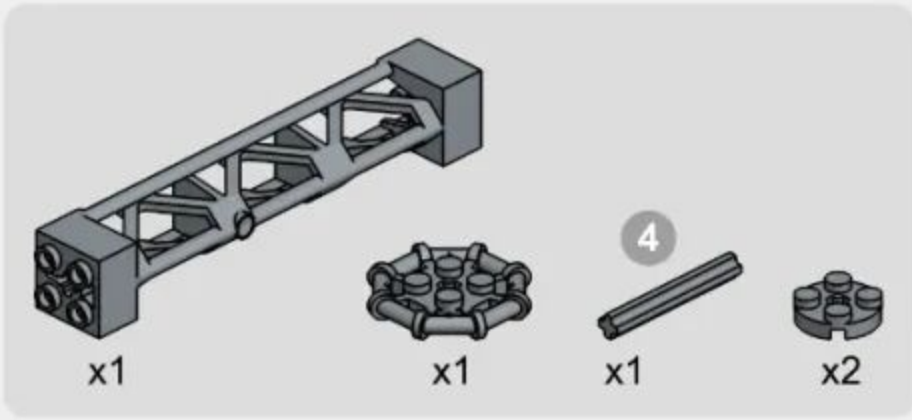
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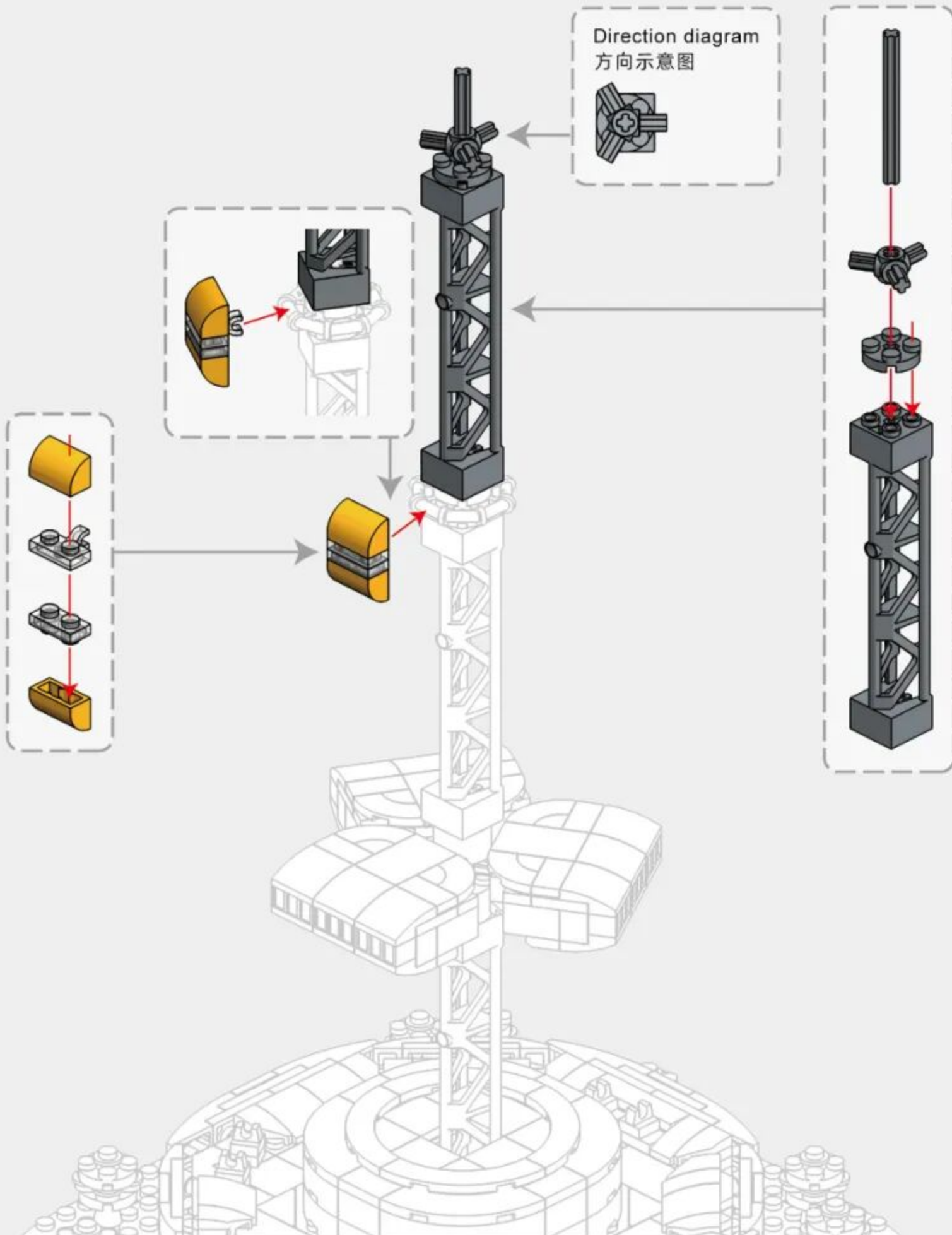
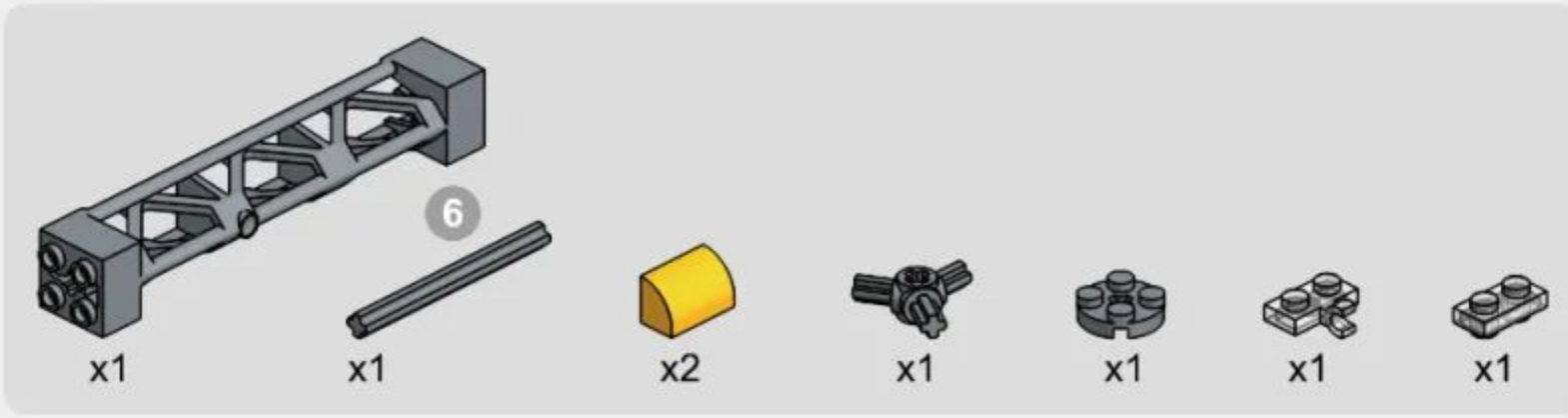
# 2-6



2-7

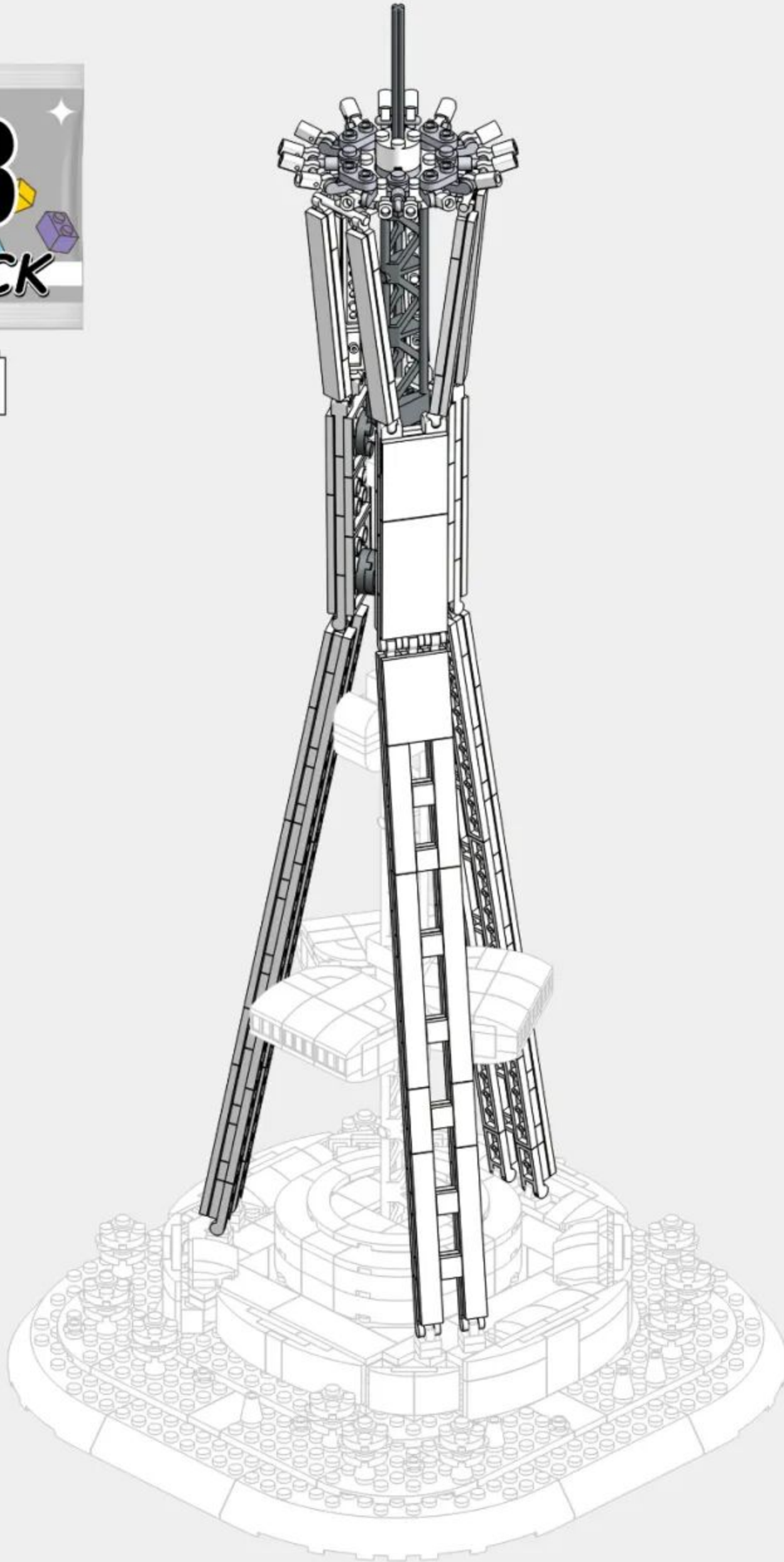


2-8

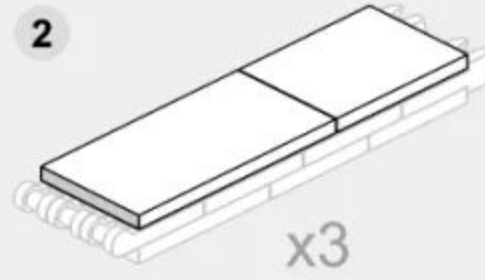
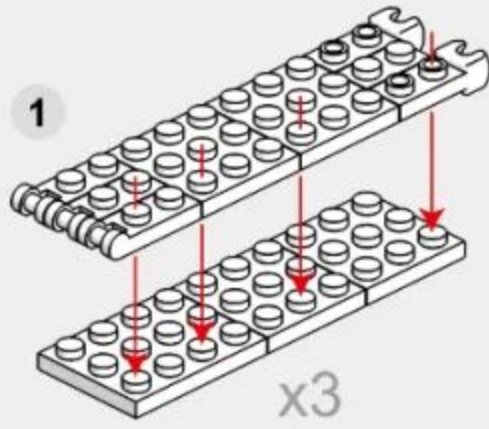
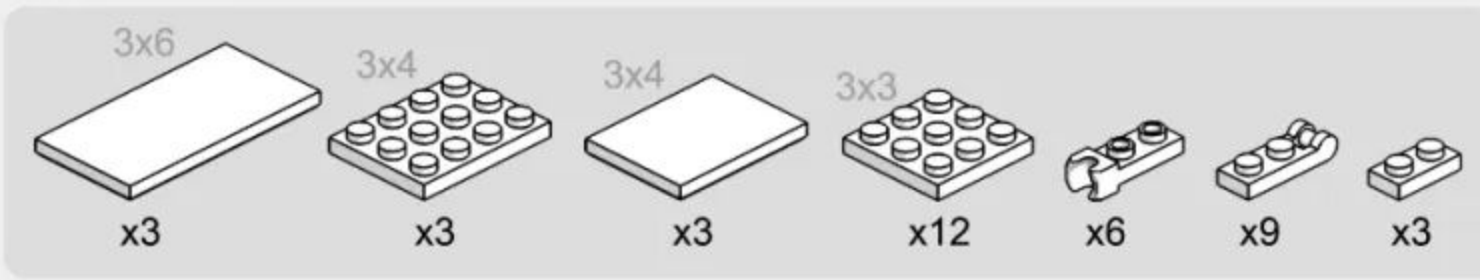




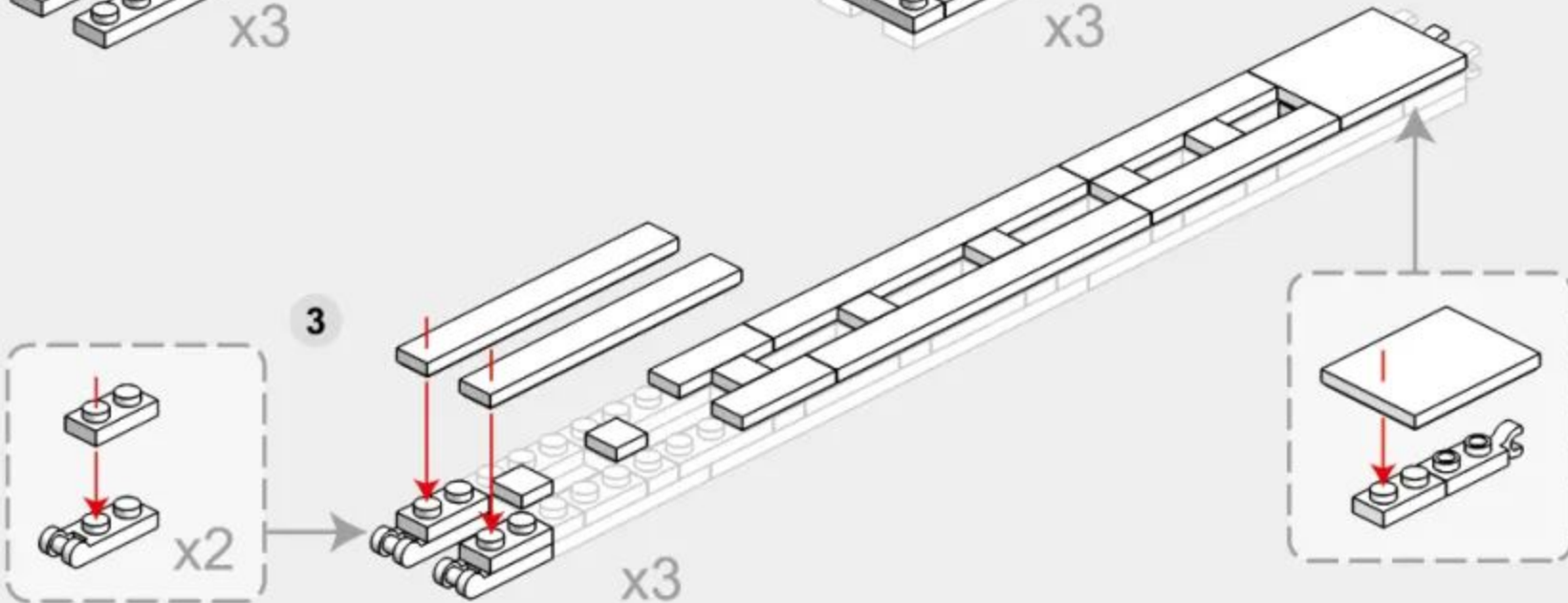
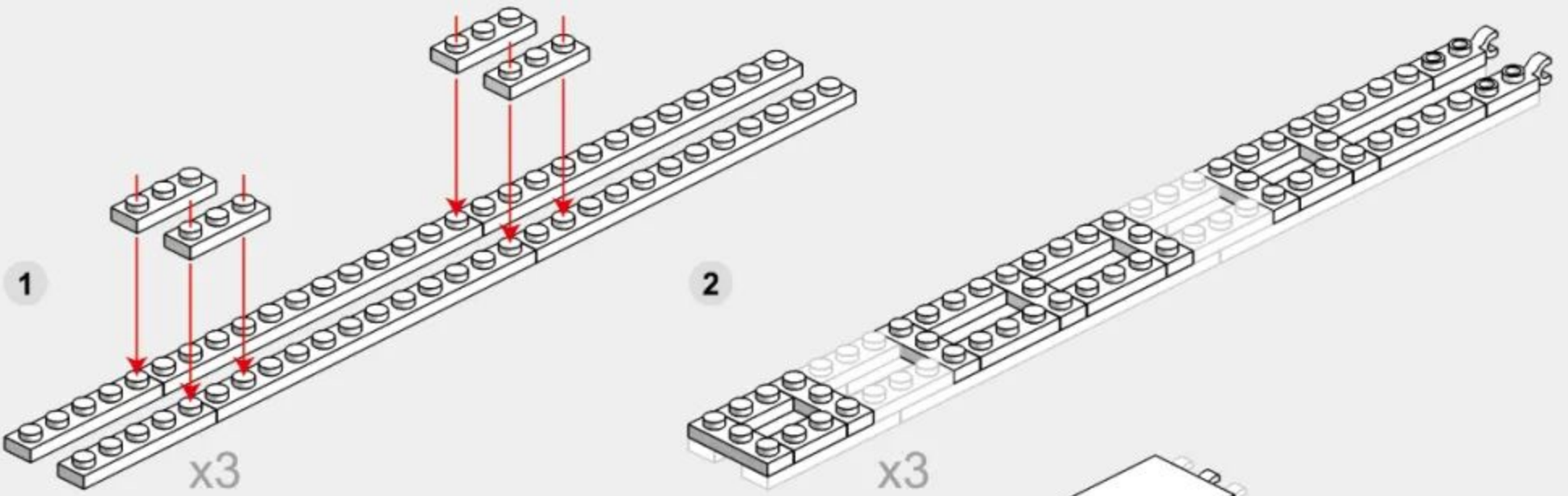
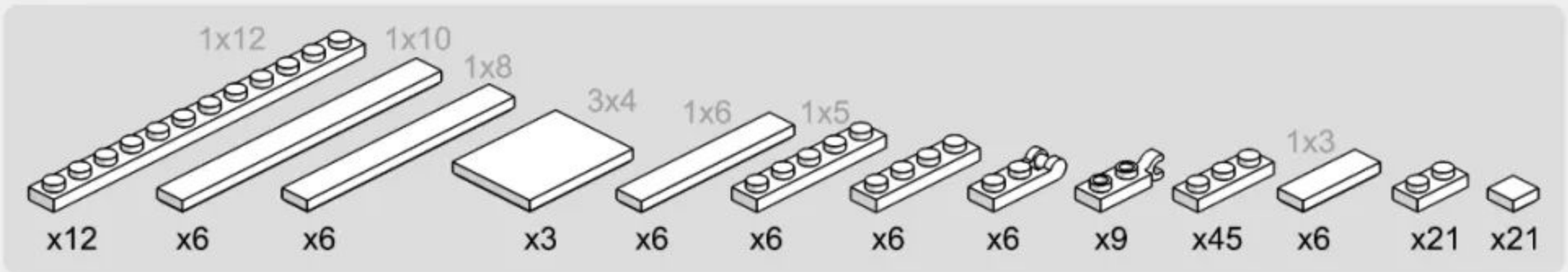
276PCS



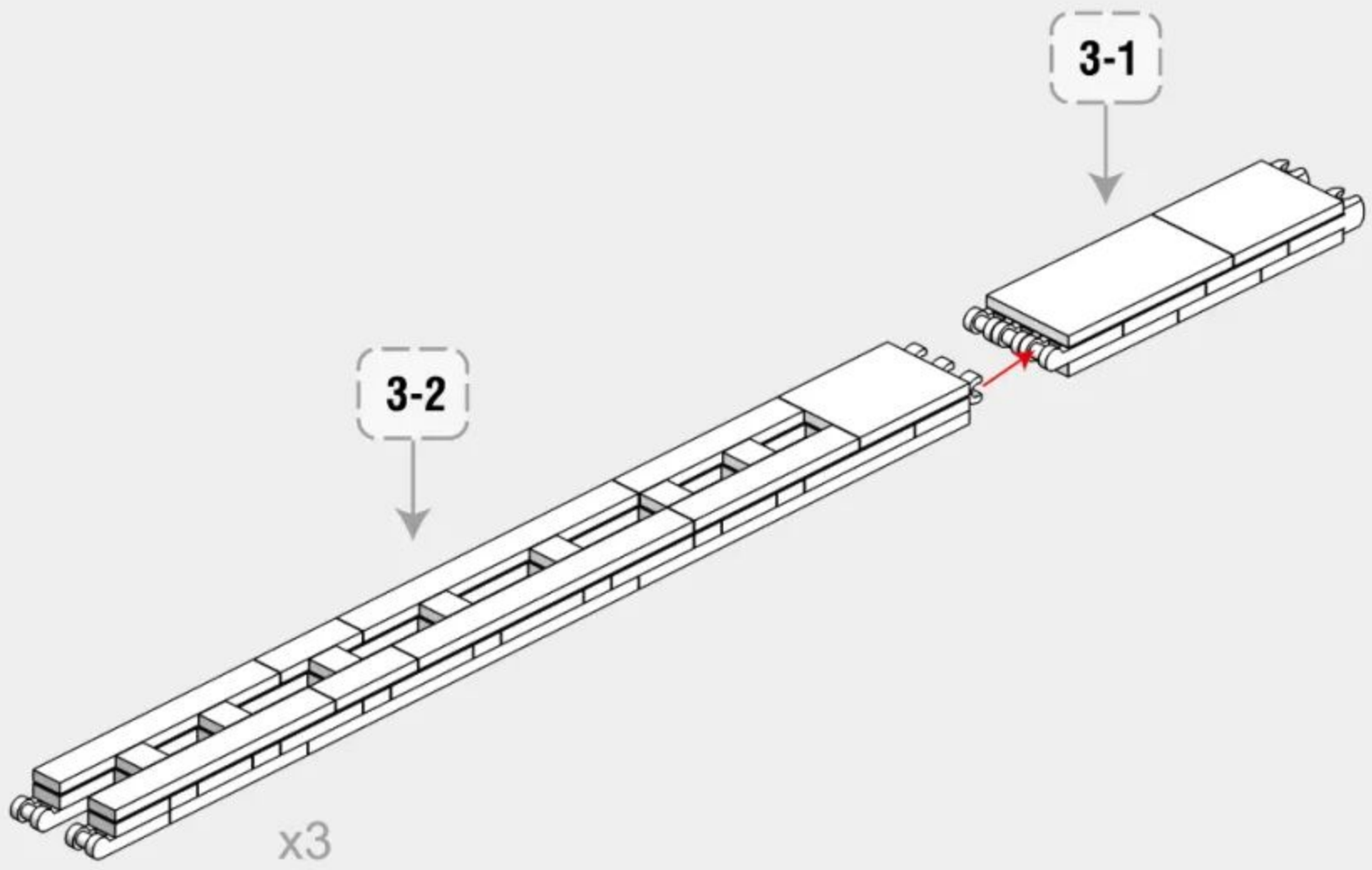
### 3-1



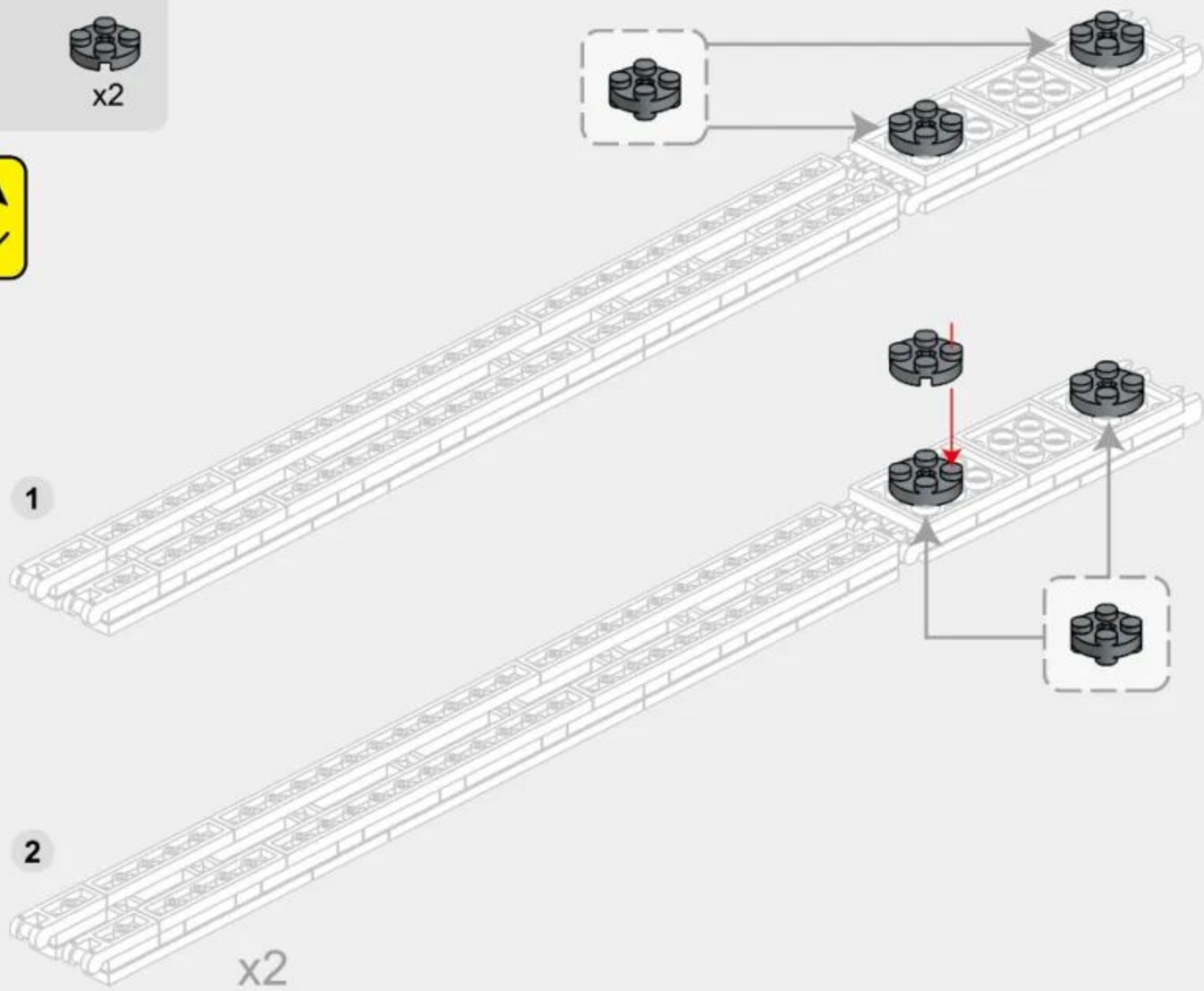
### 3-2



### 3-3



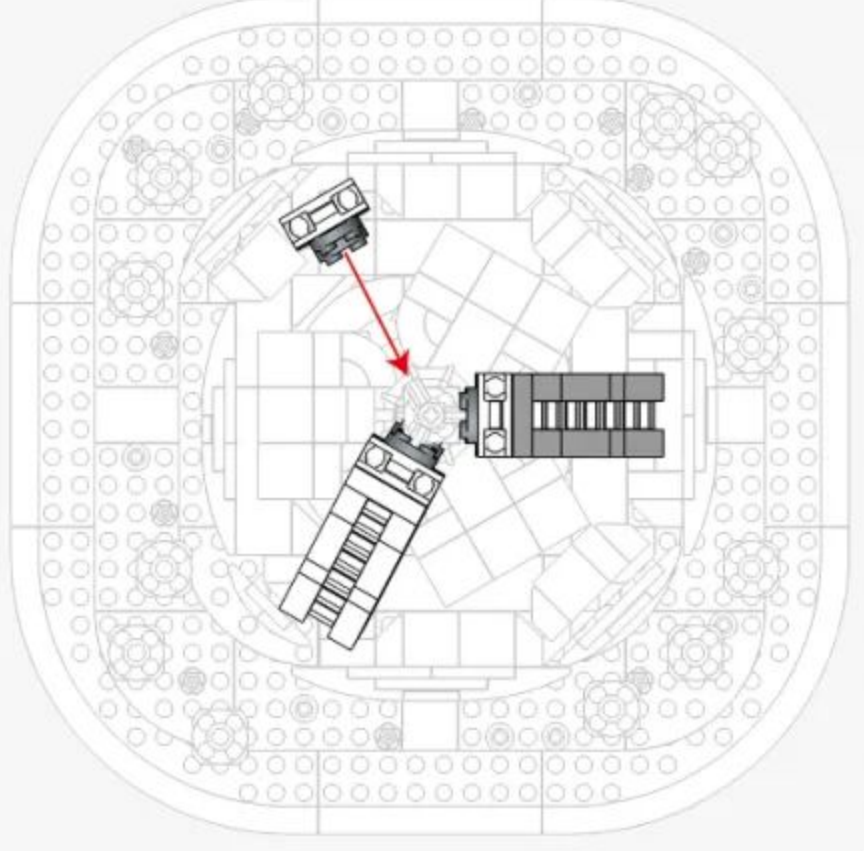
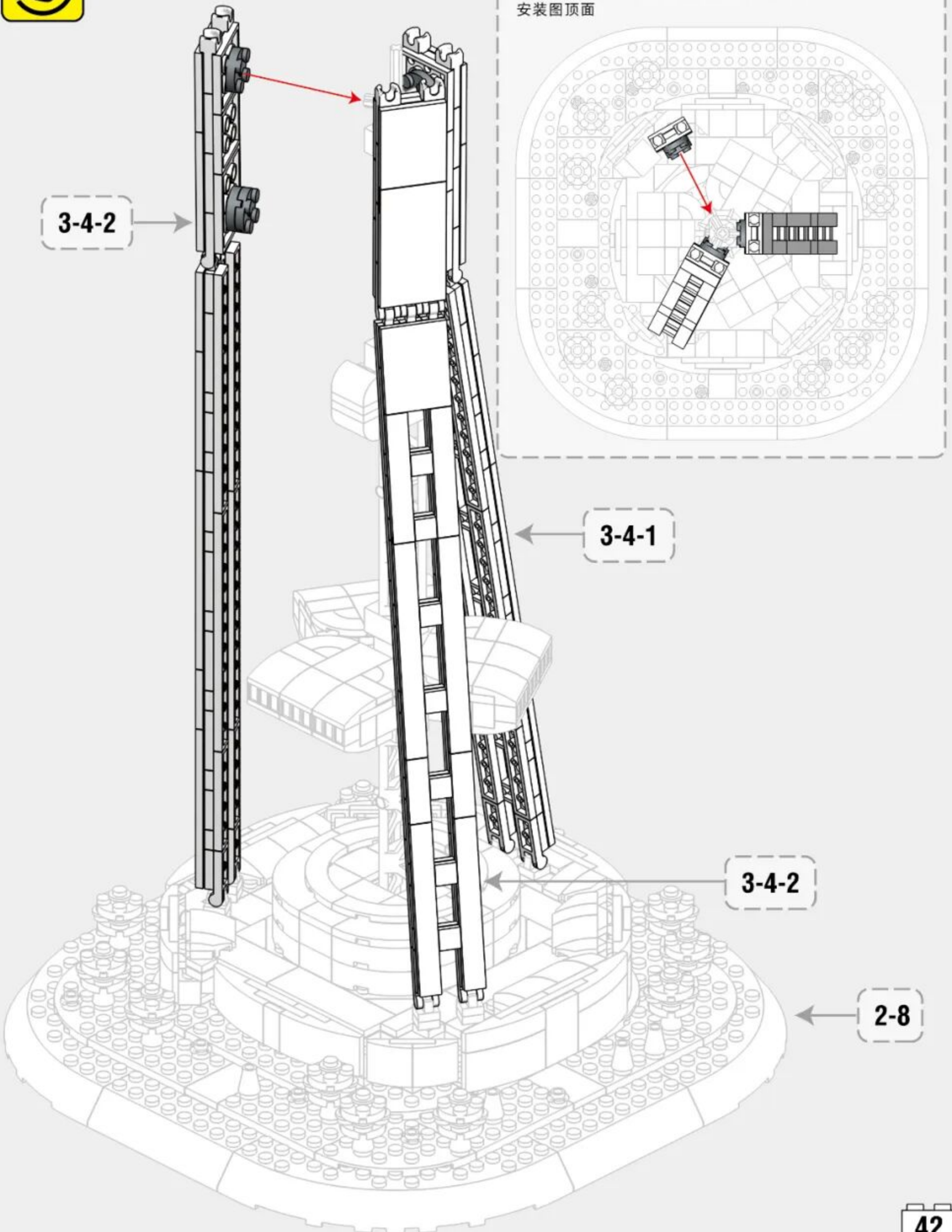
### 3-4



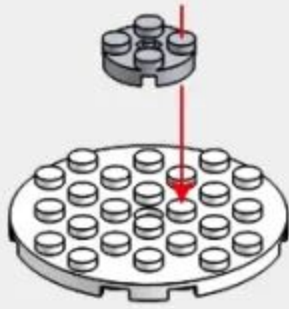
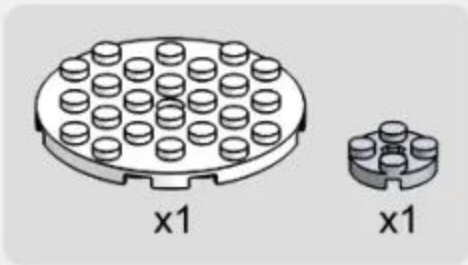
3-5



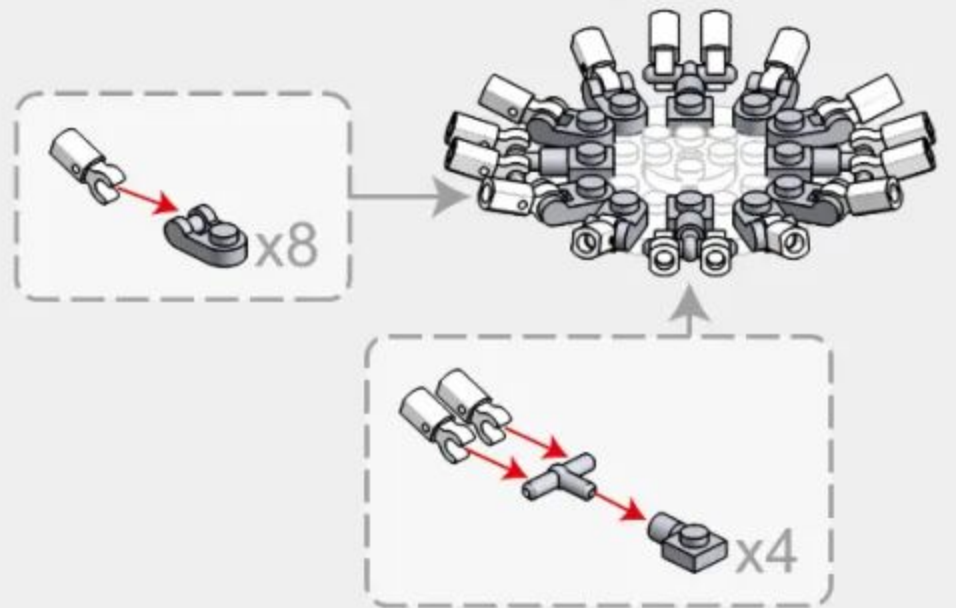
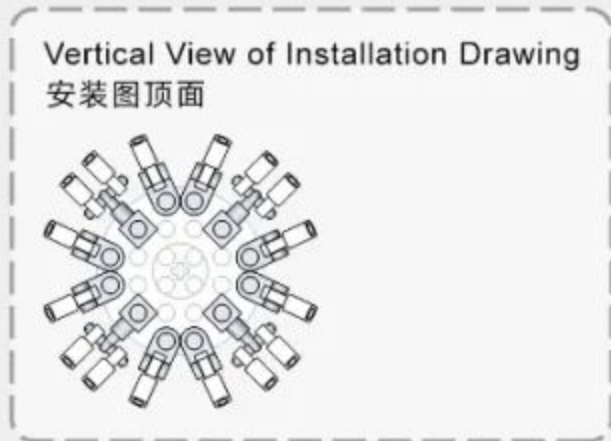
Vertical View of Installation Drawing  
安装图顶面



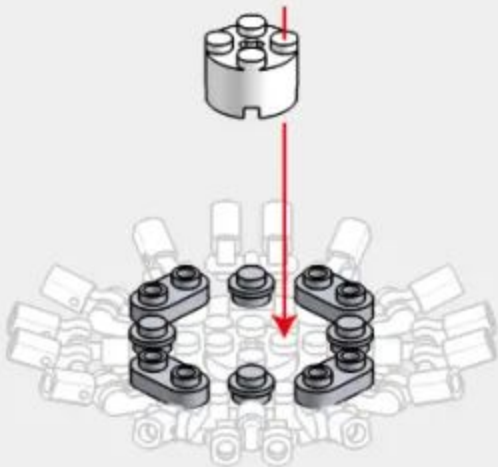
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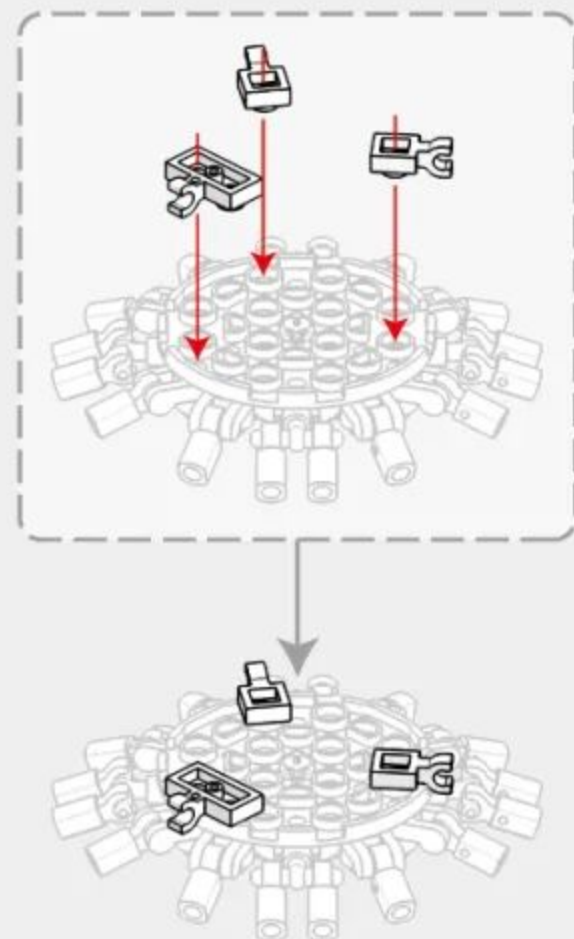
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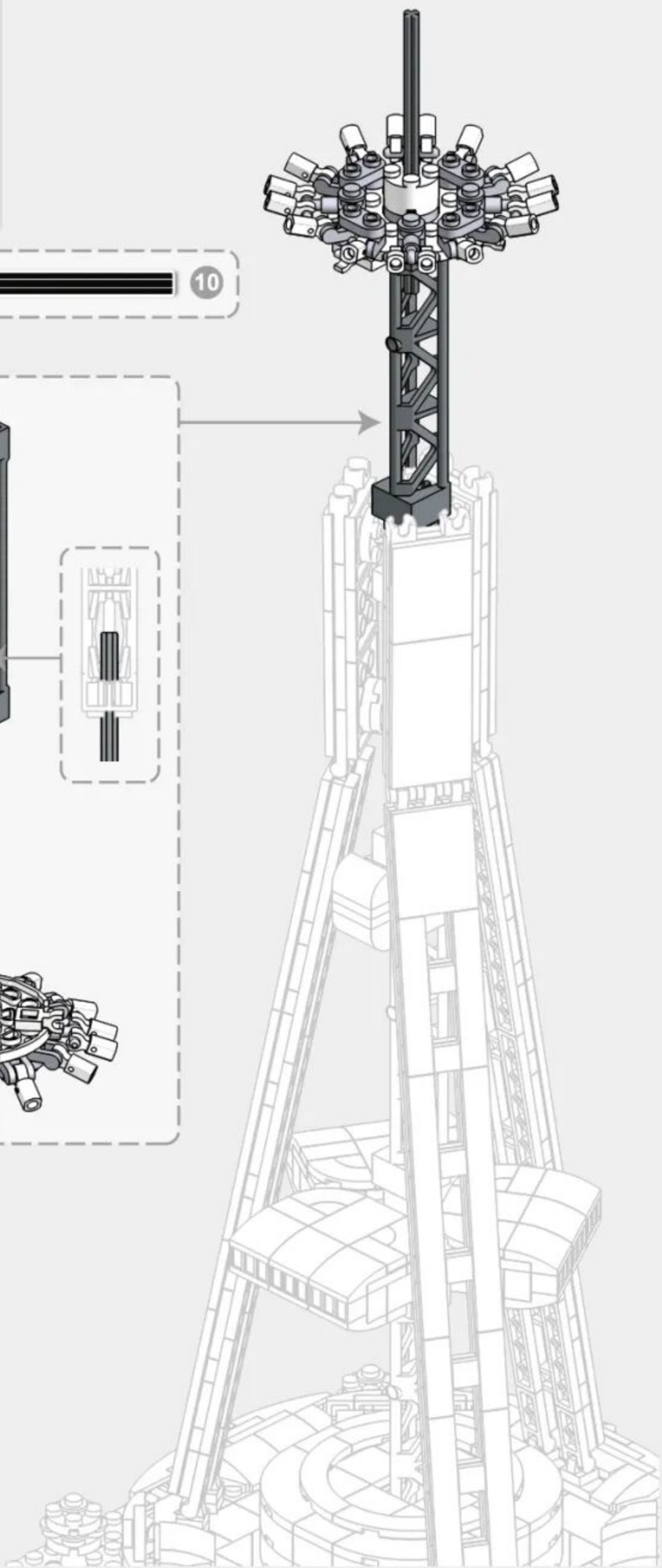
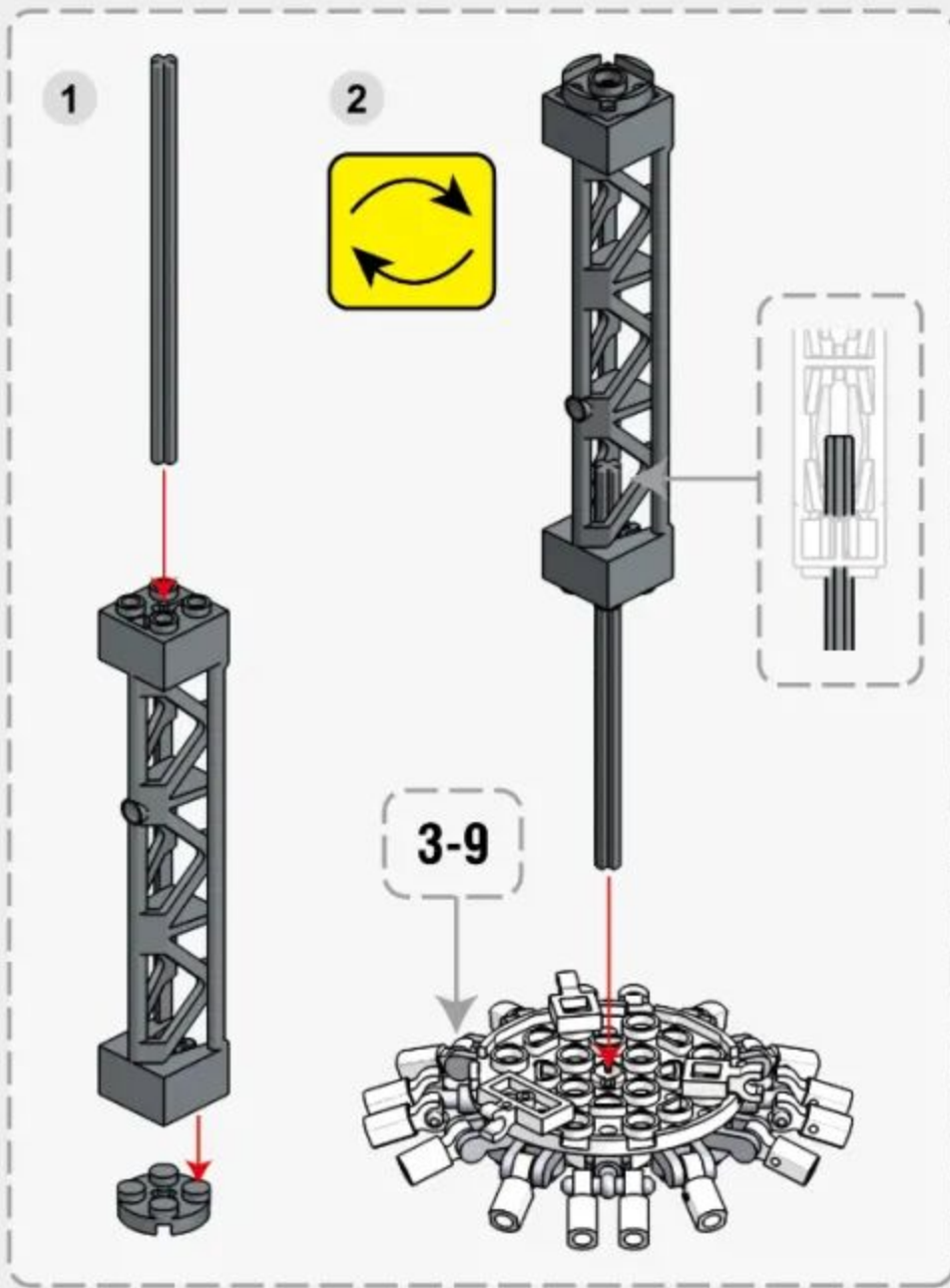
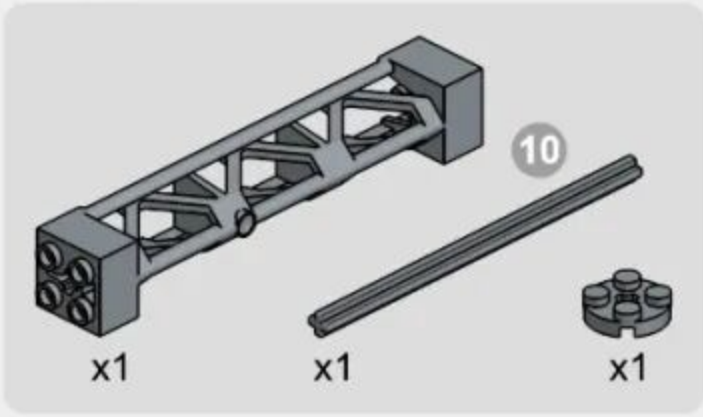
### 3-8



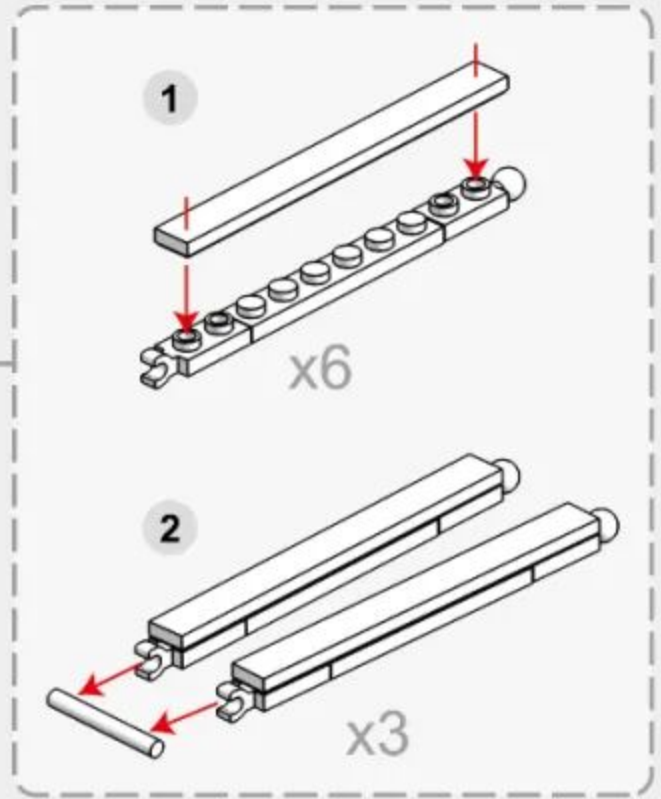
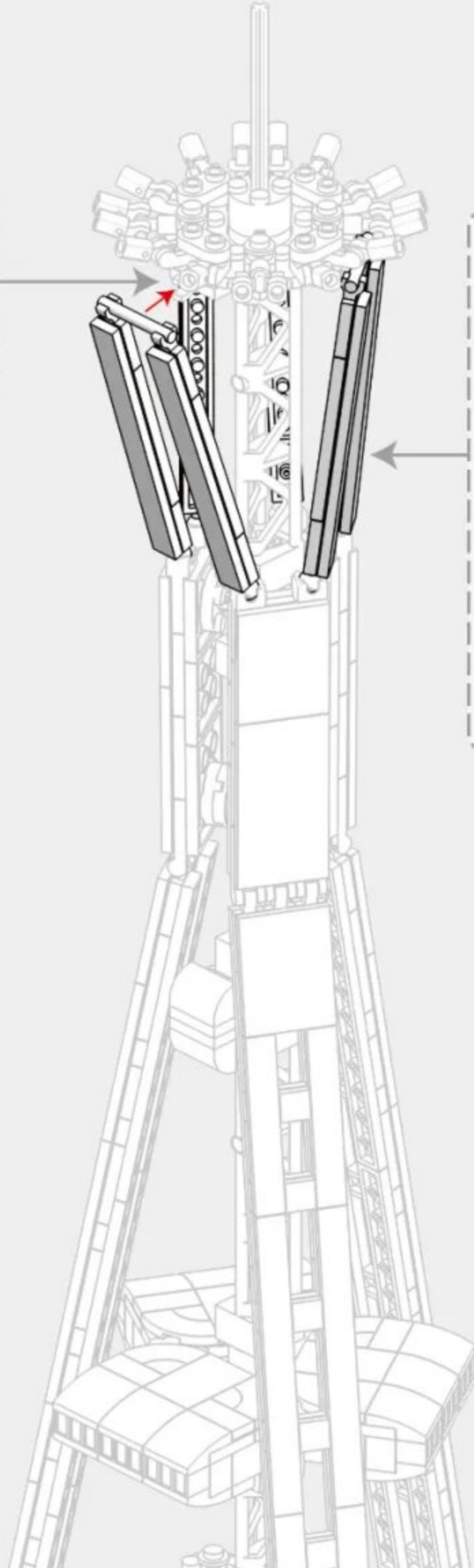
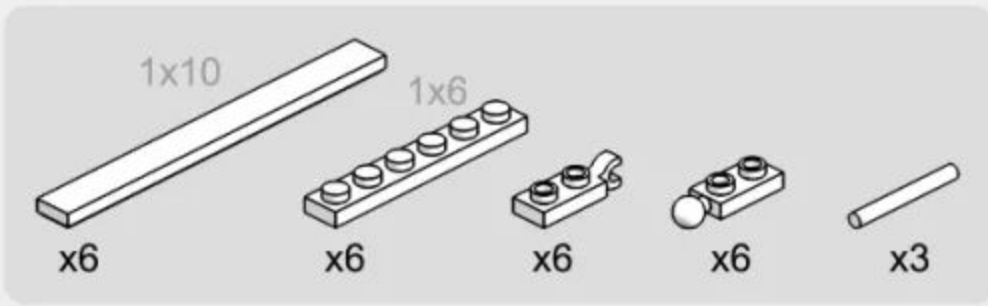
### 3-9



3-10

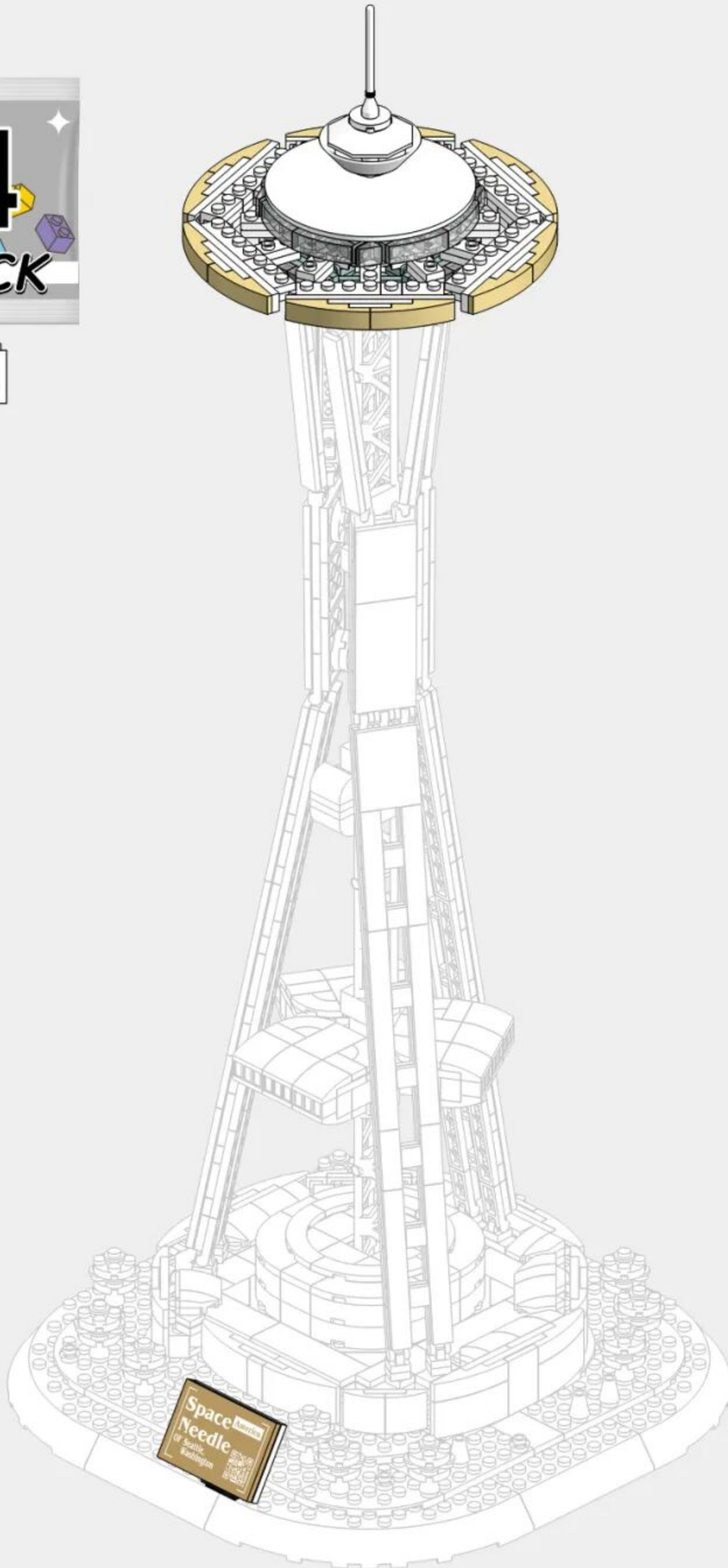


3-11

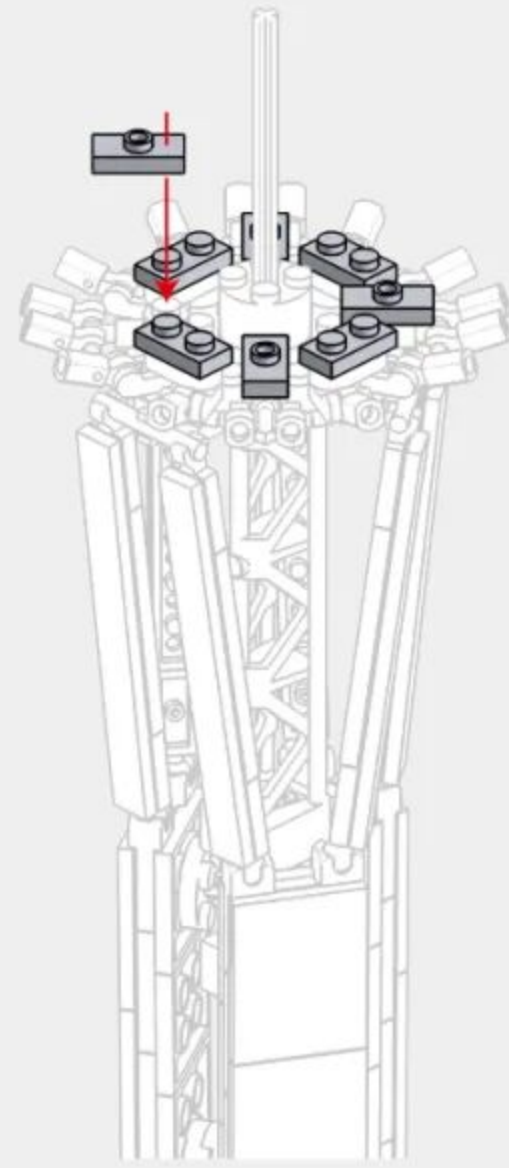
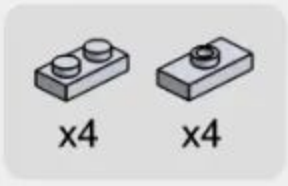




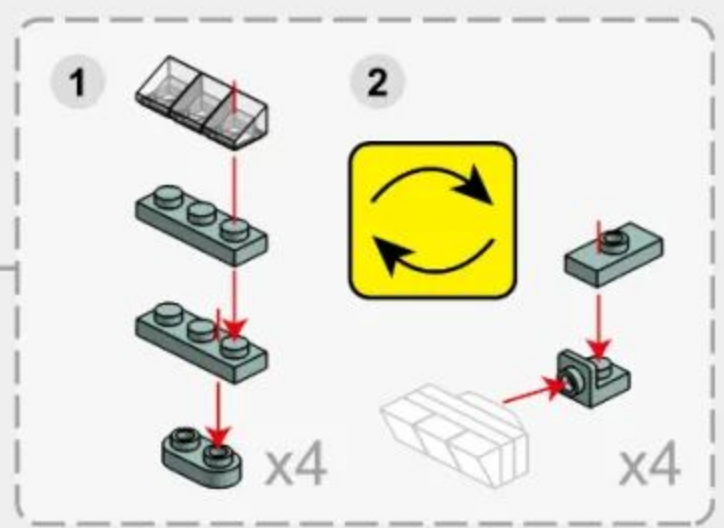
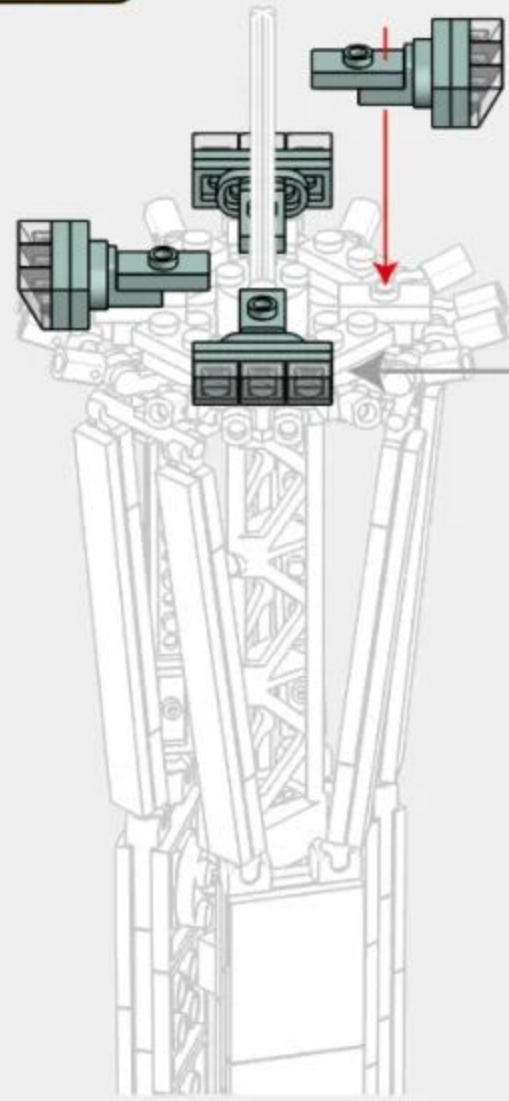
268PCS



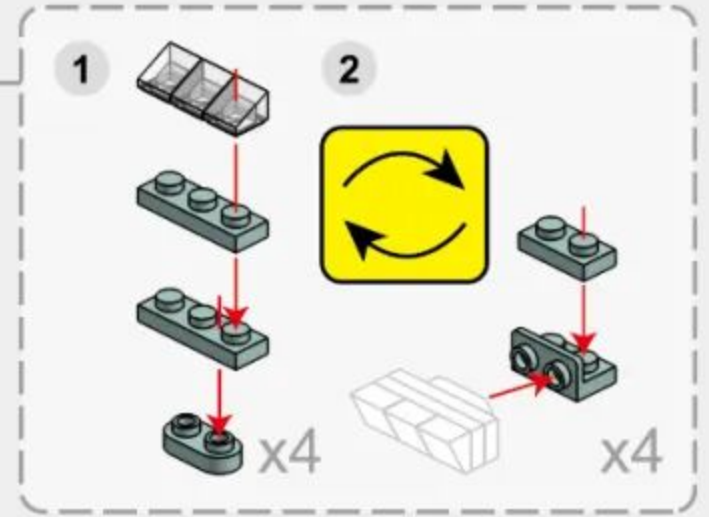
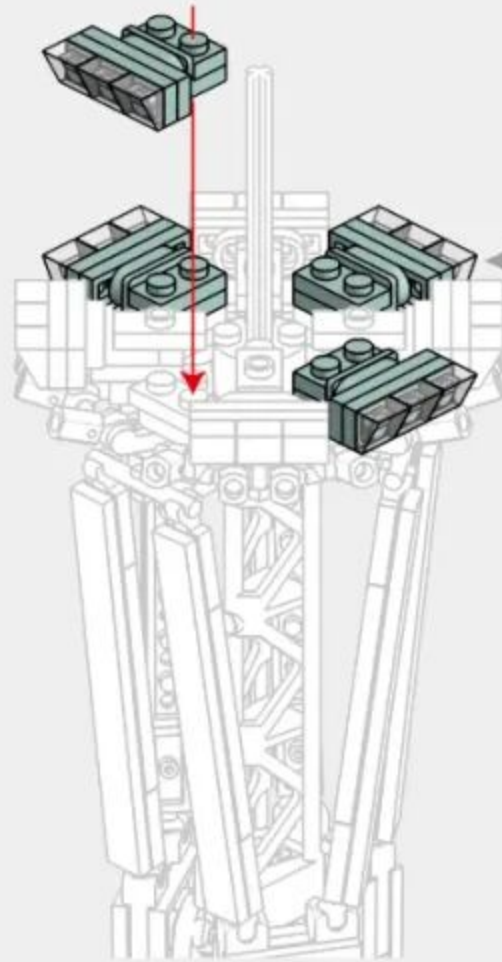
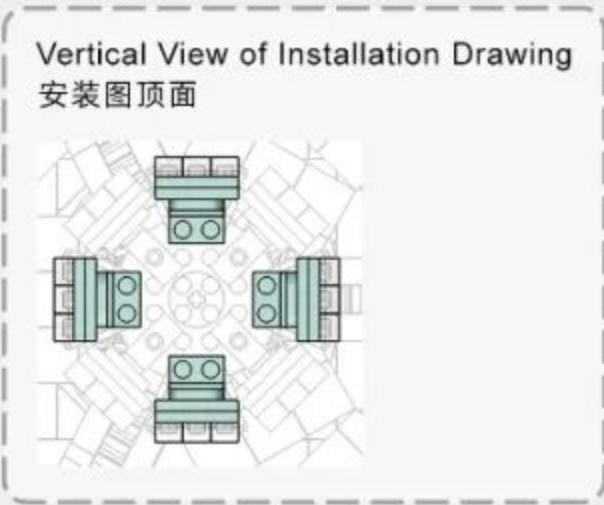
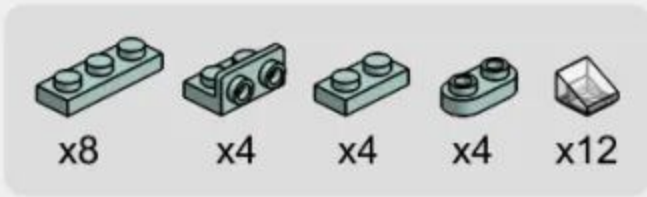
# 4-1



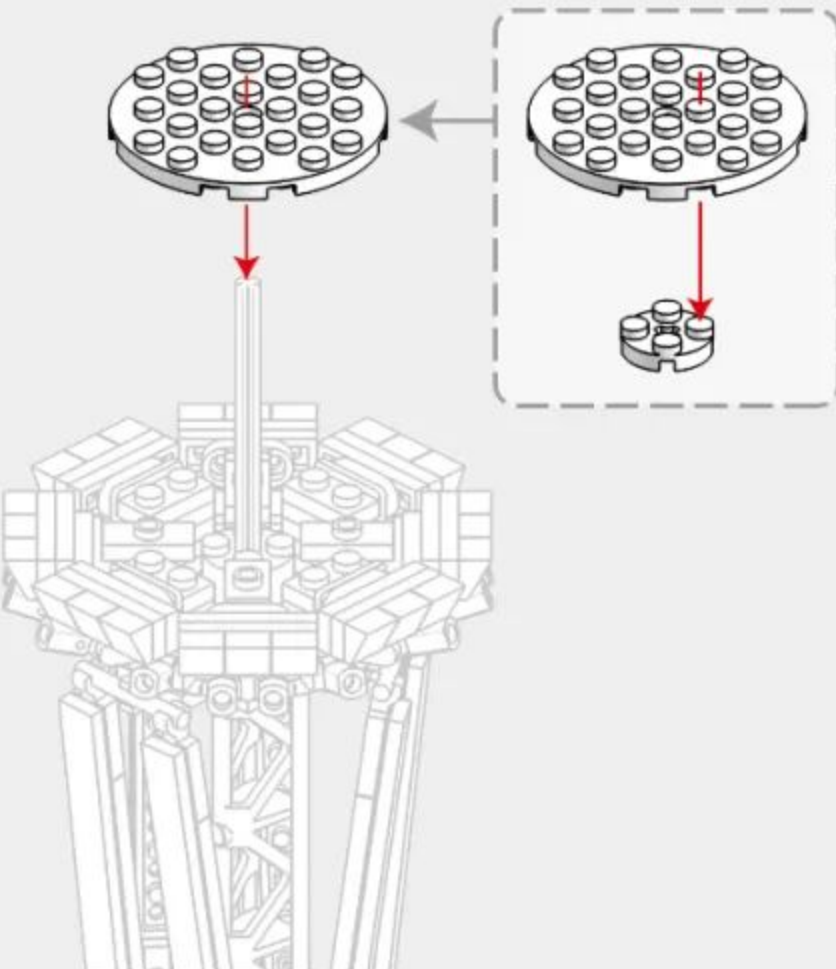
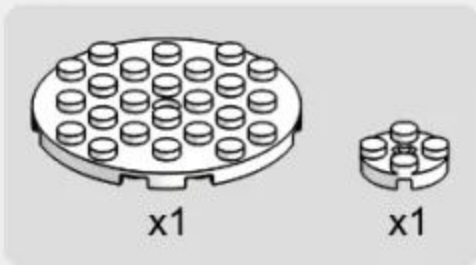
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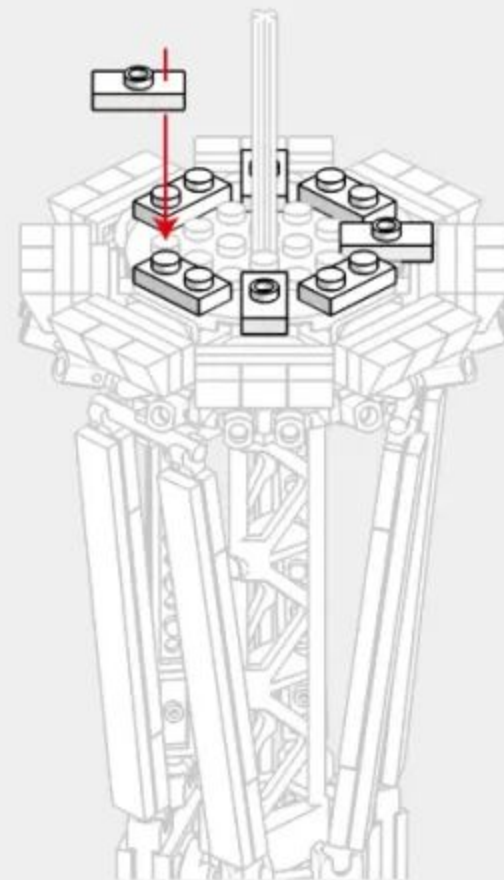
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### 4-4

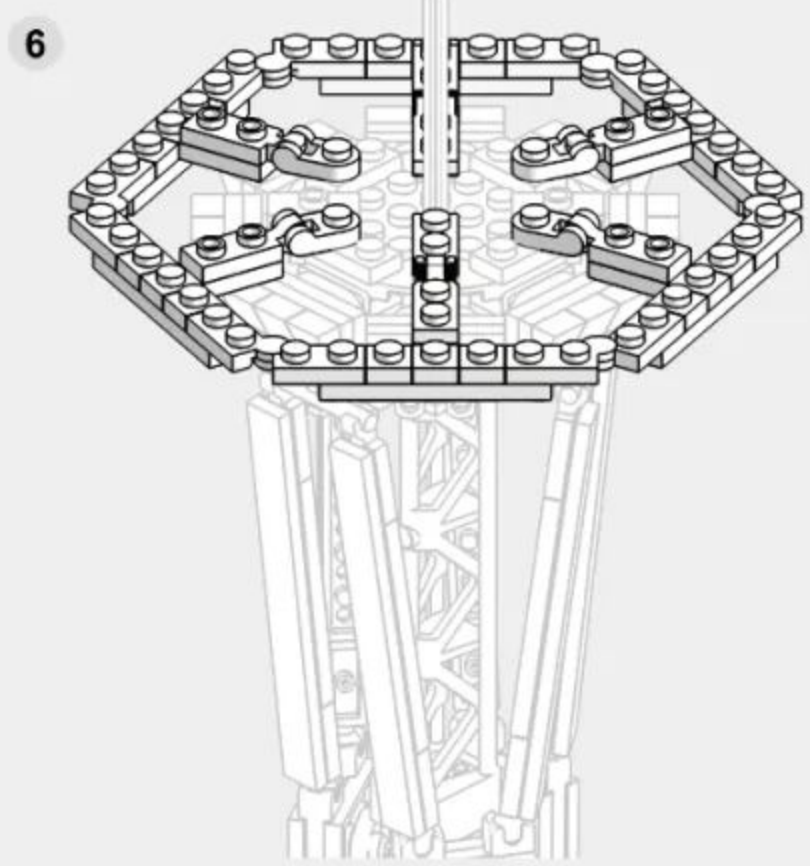
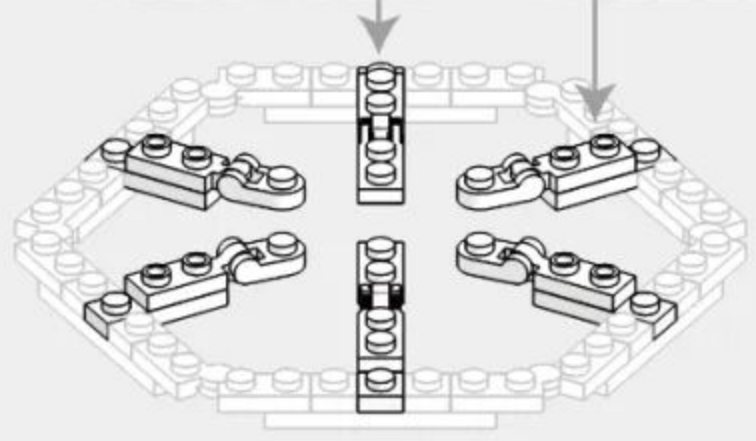
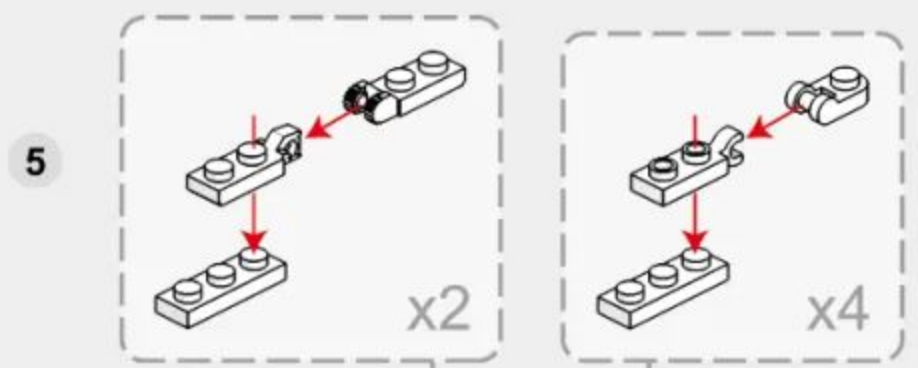
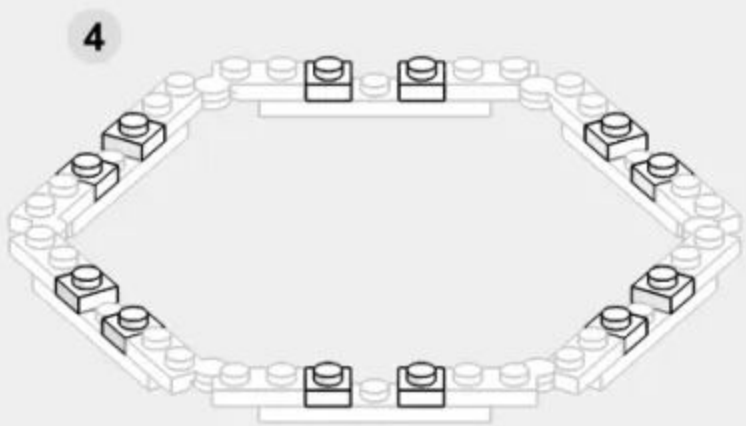
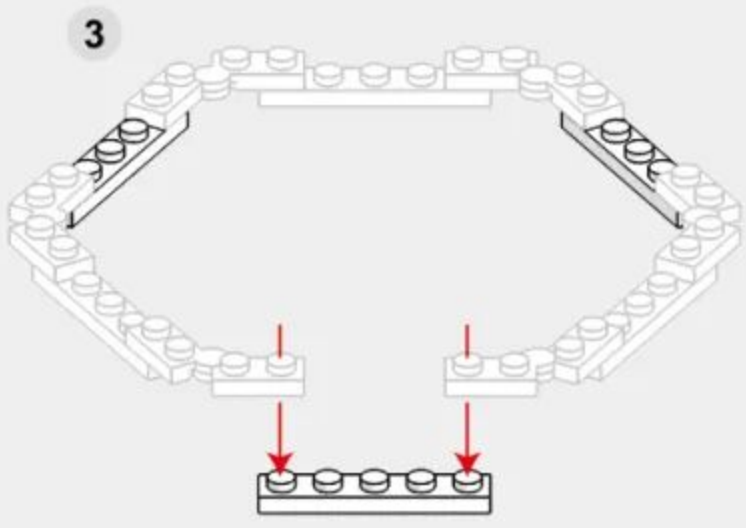
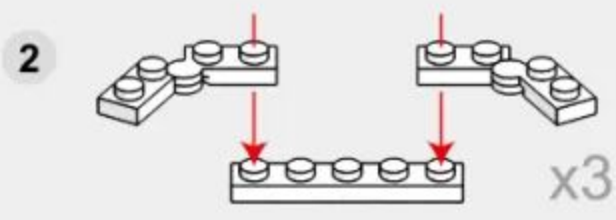
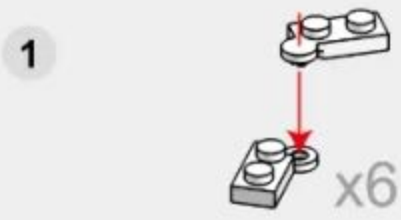


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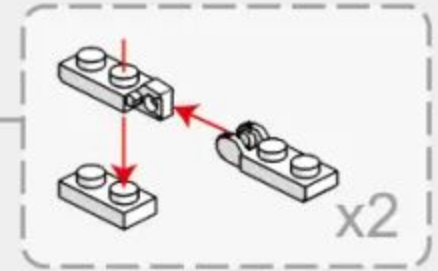
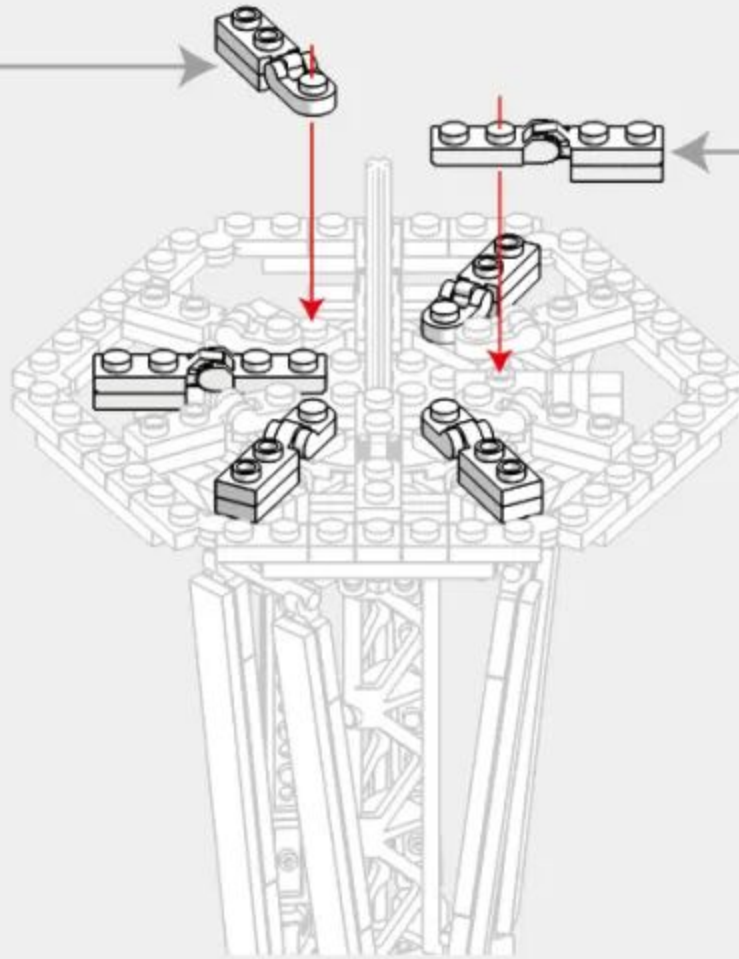
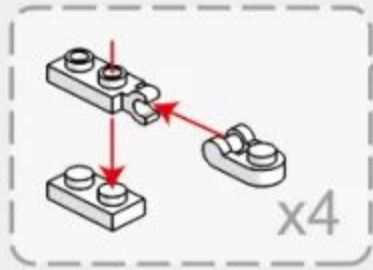
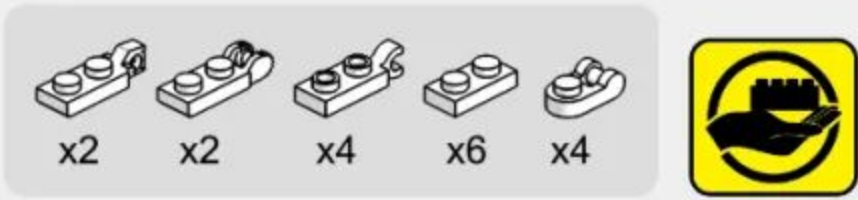


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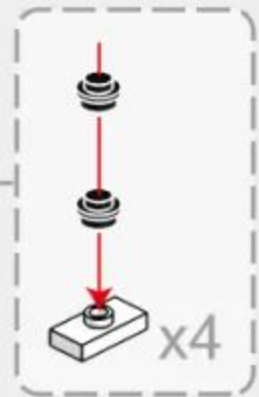
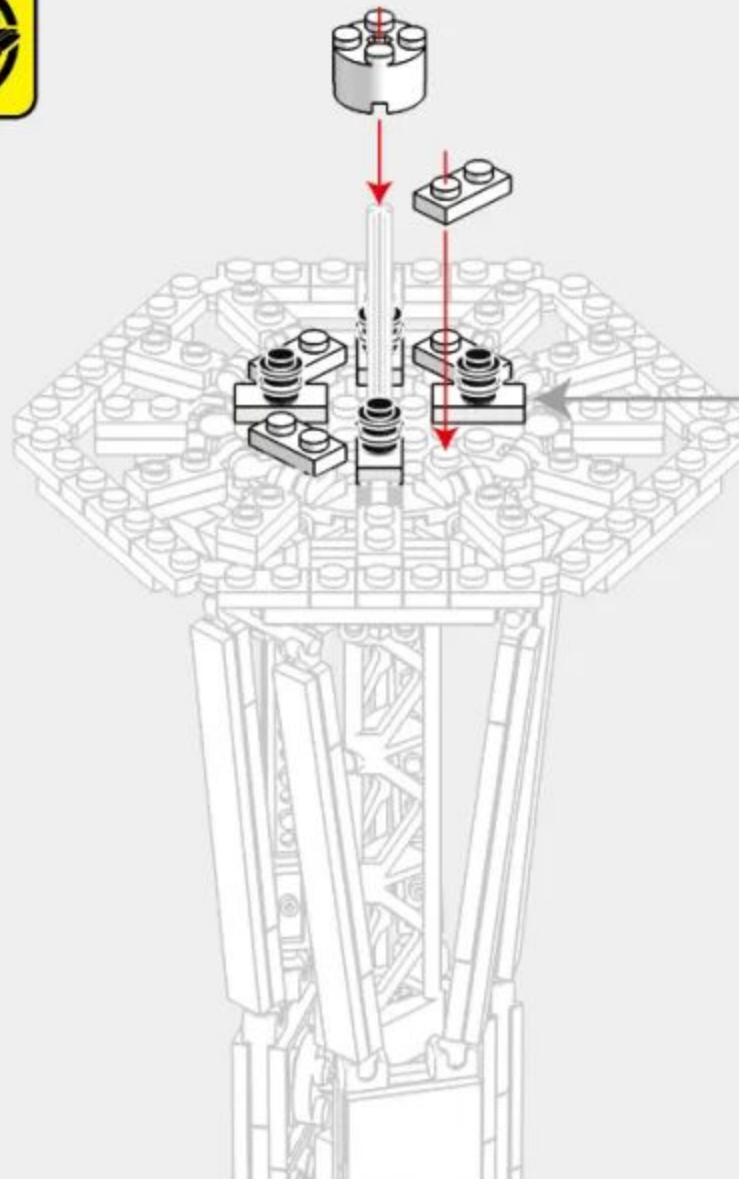
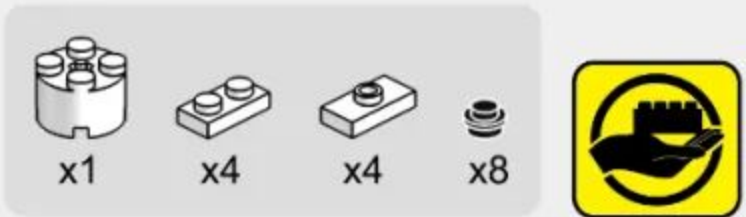
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- x6
- x6
- x2
- x2
- x4
- x6
- x6
- x4
- x12



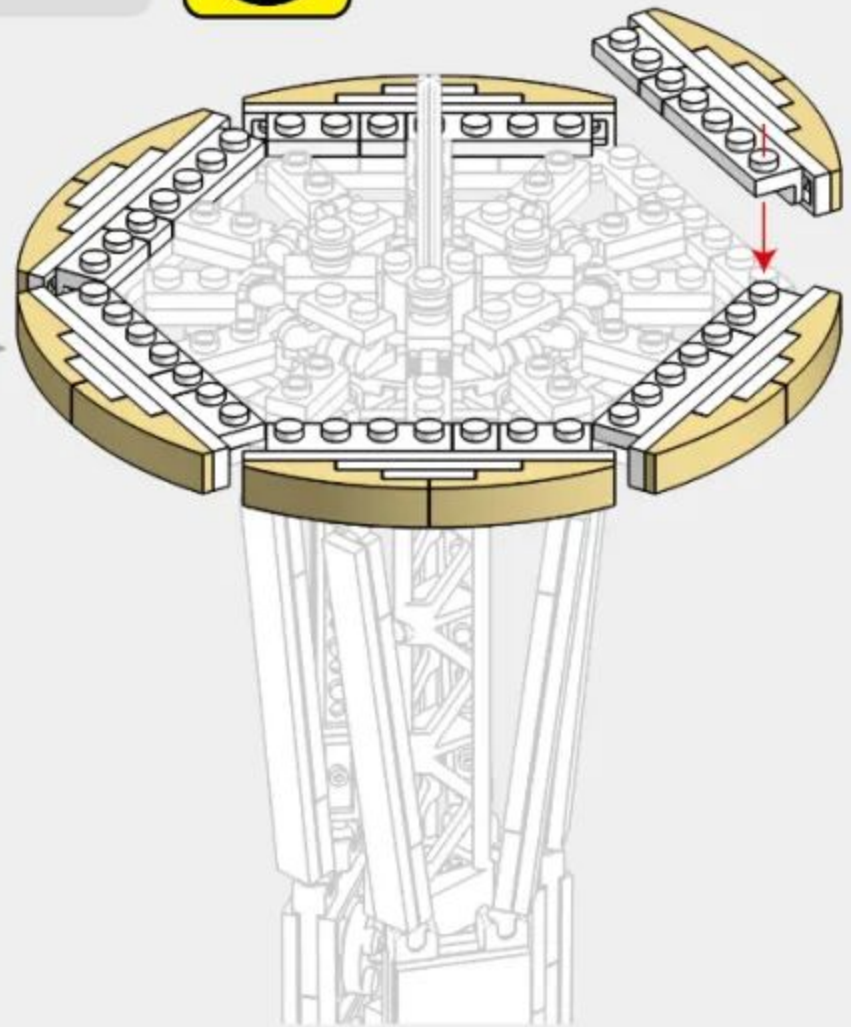
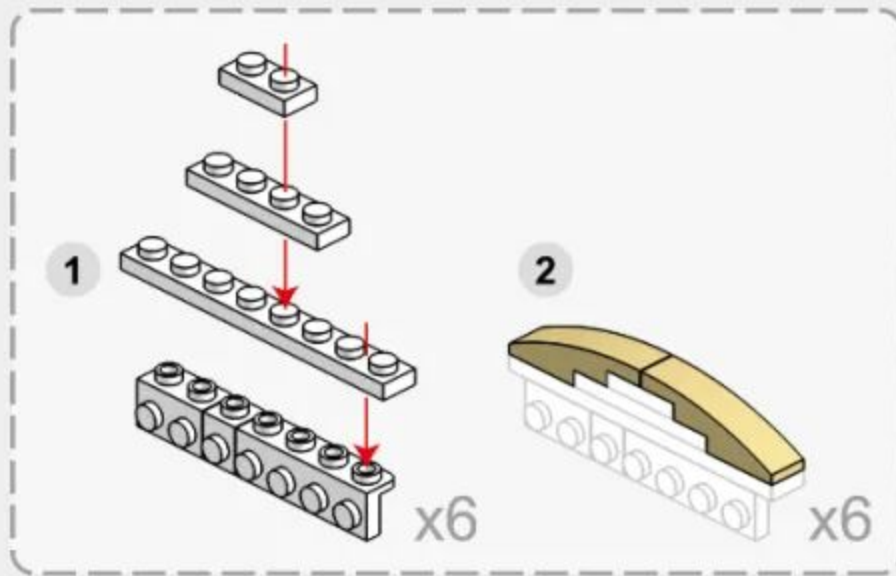
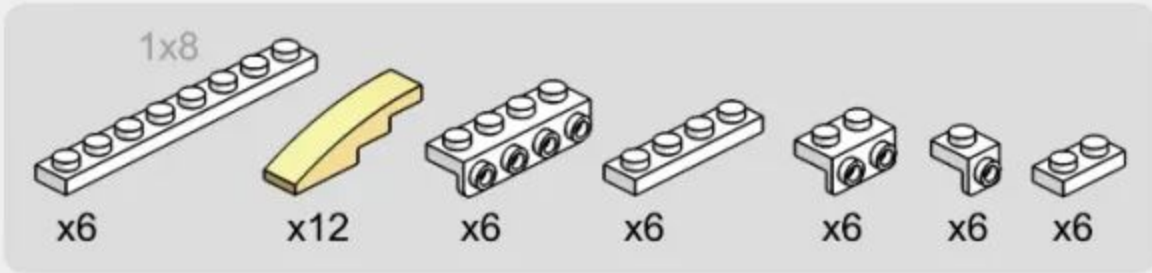
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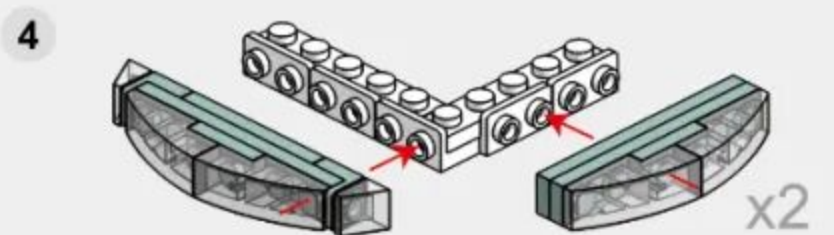
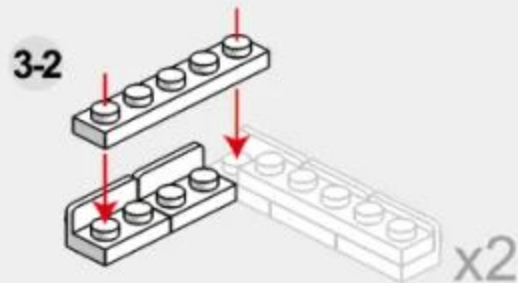
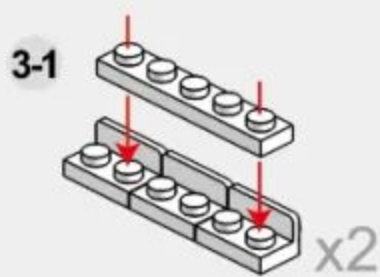
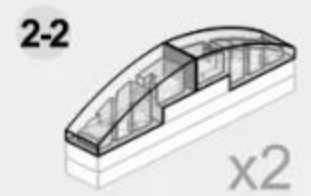
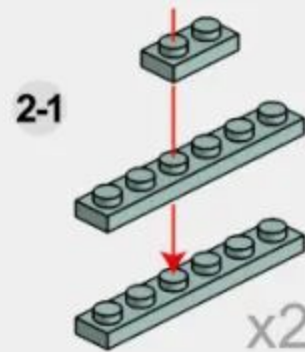
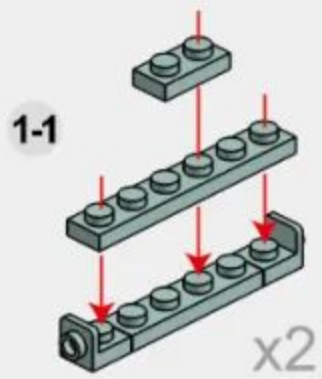
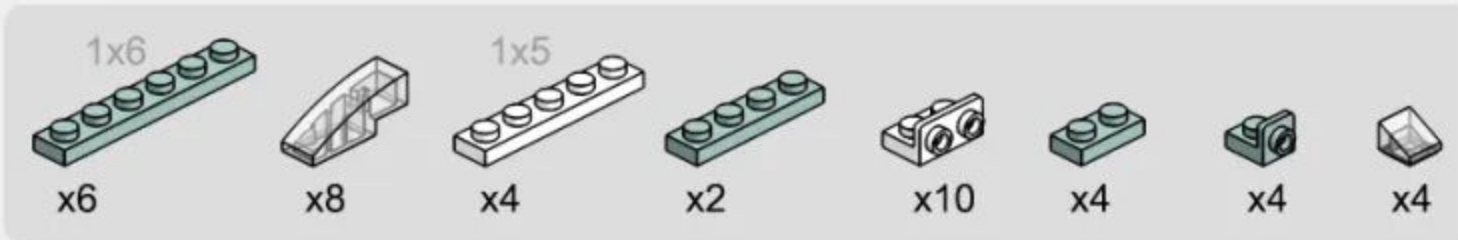
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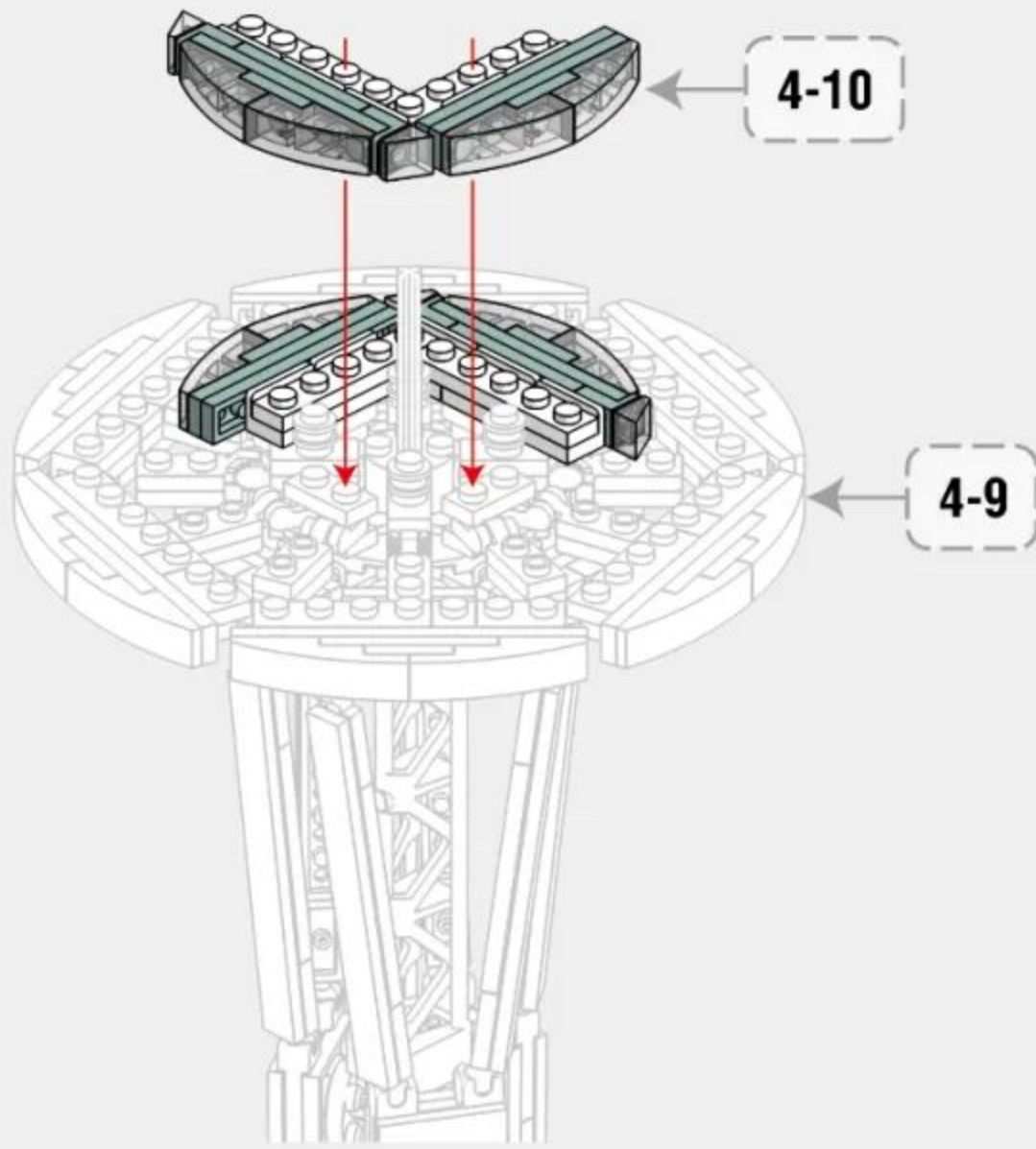
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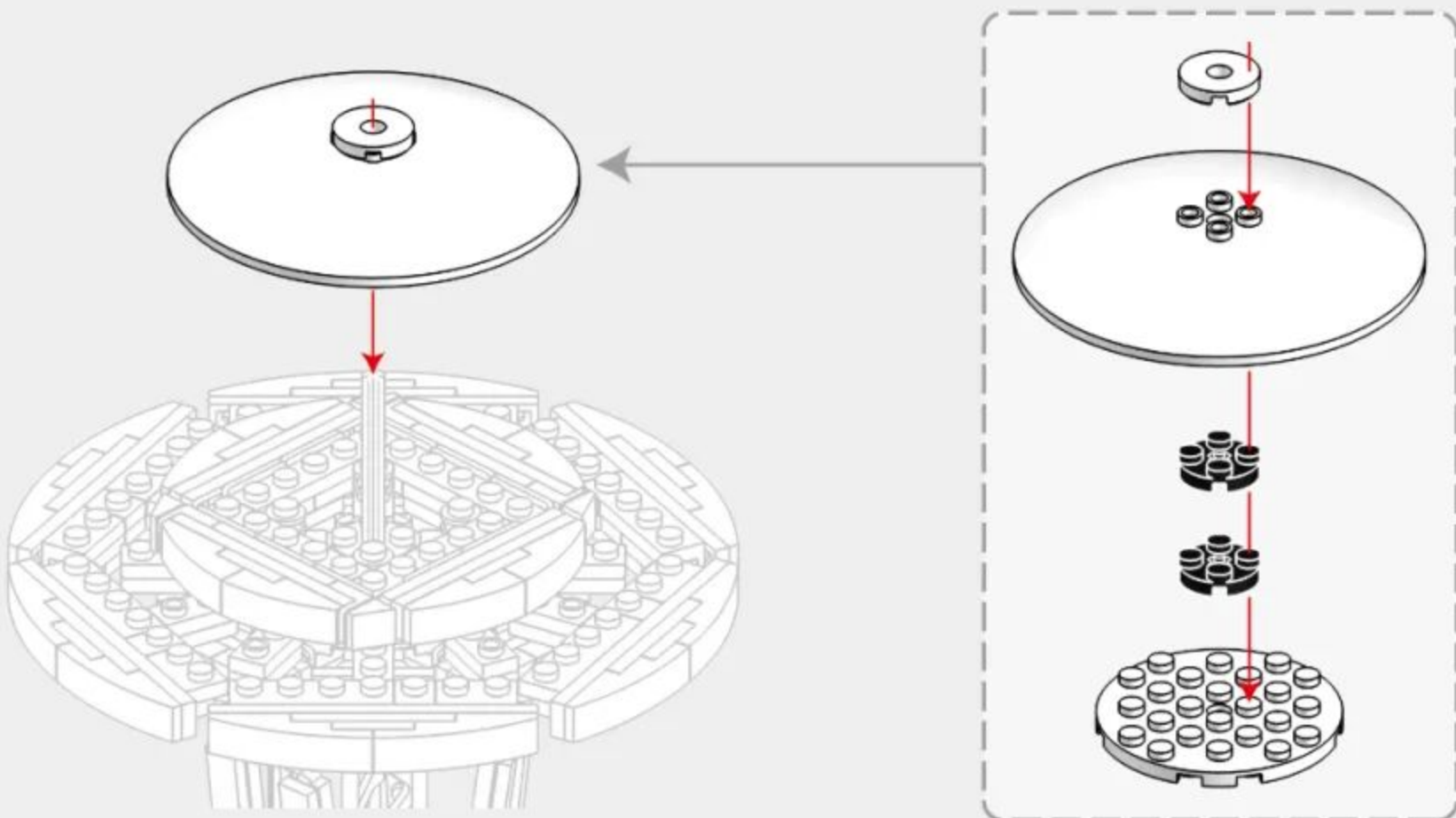
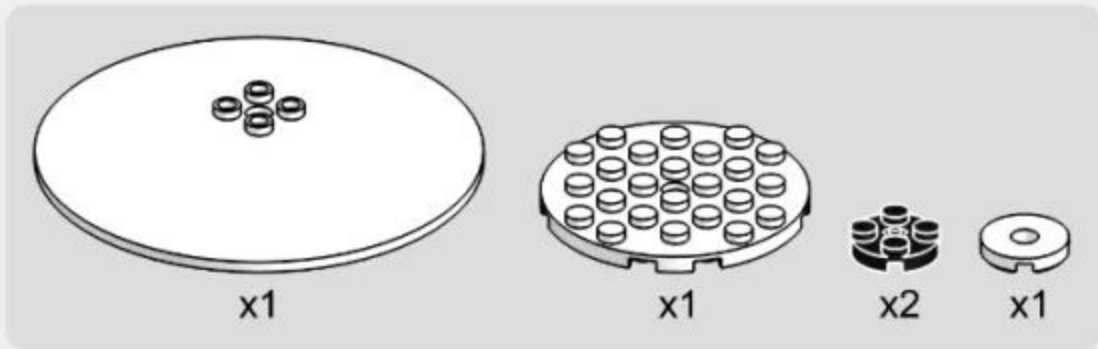
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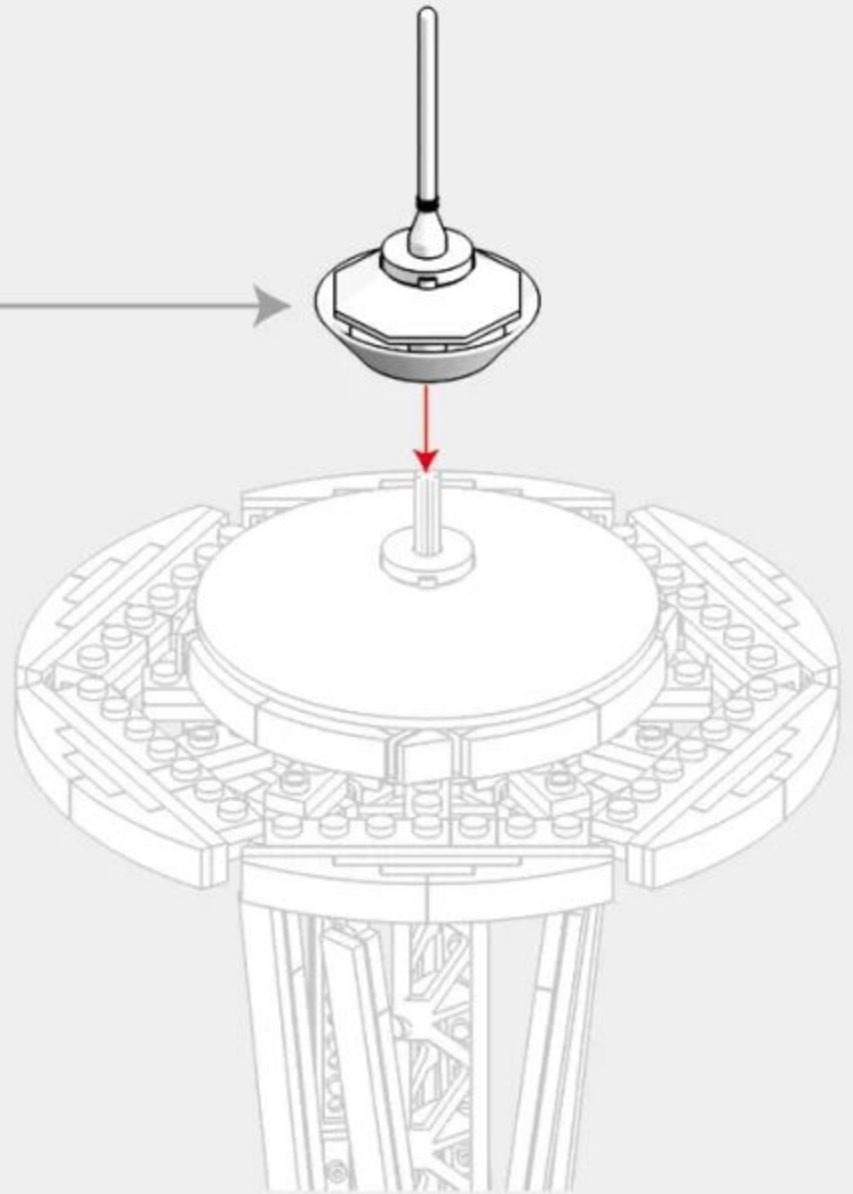
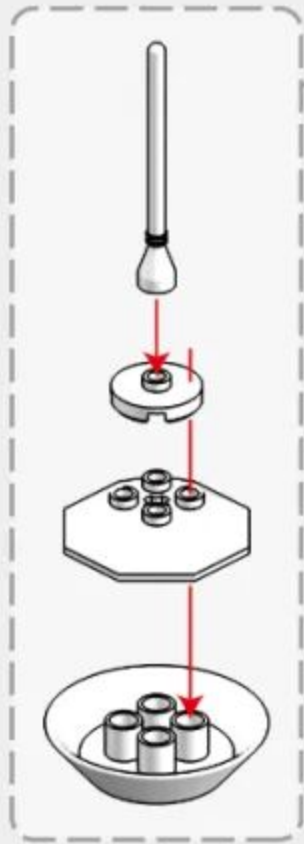
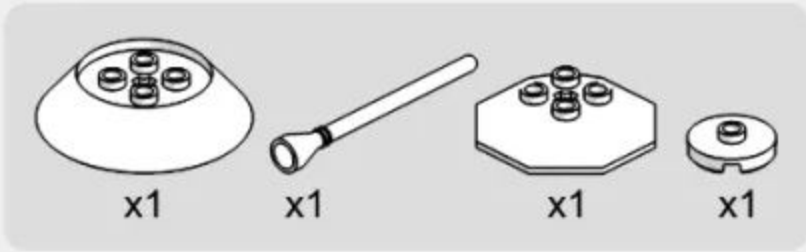
4-11



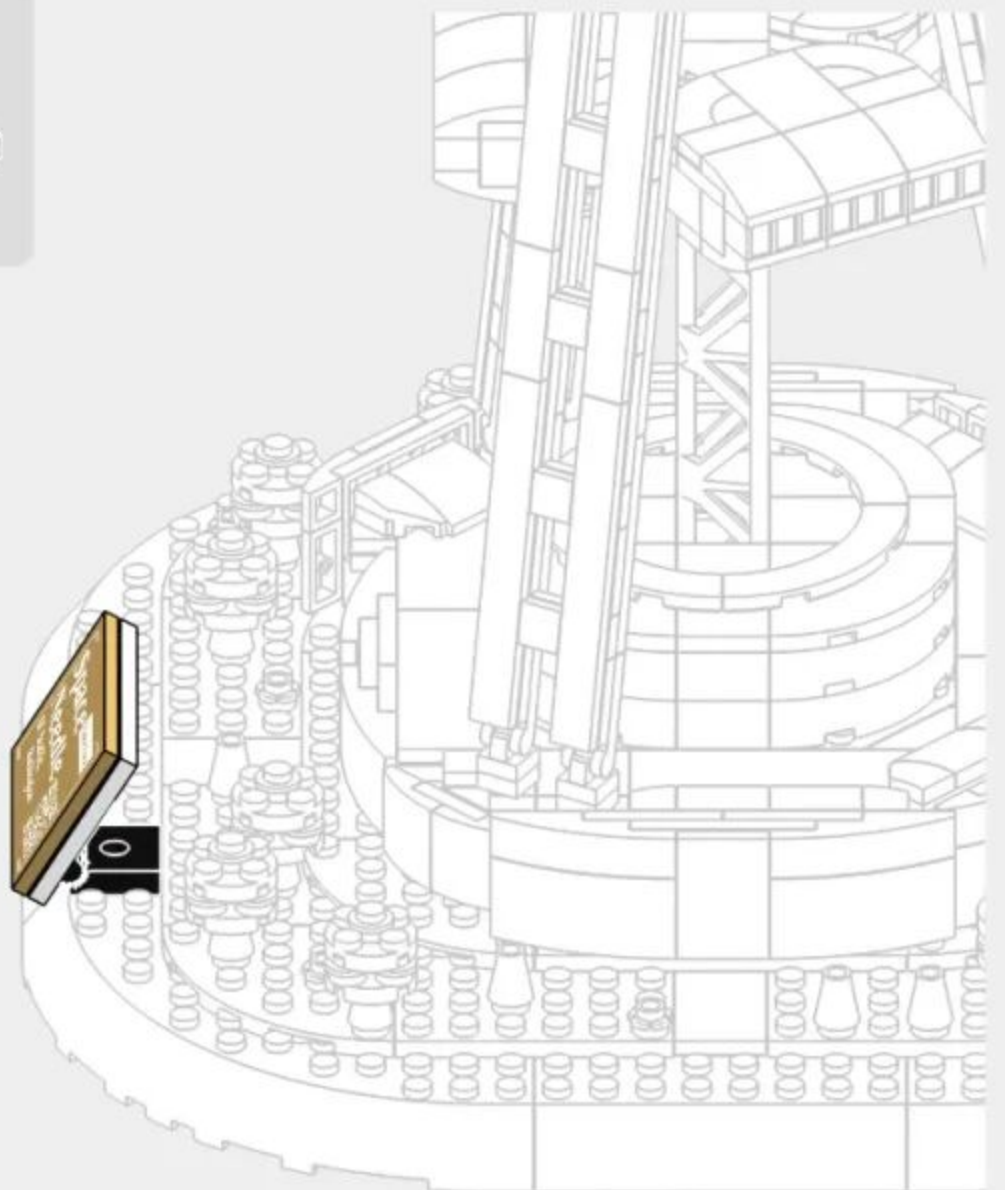
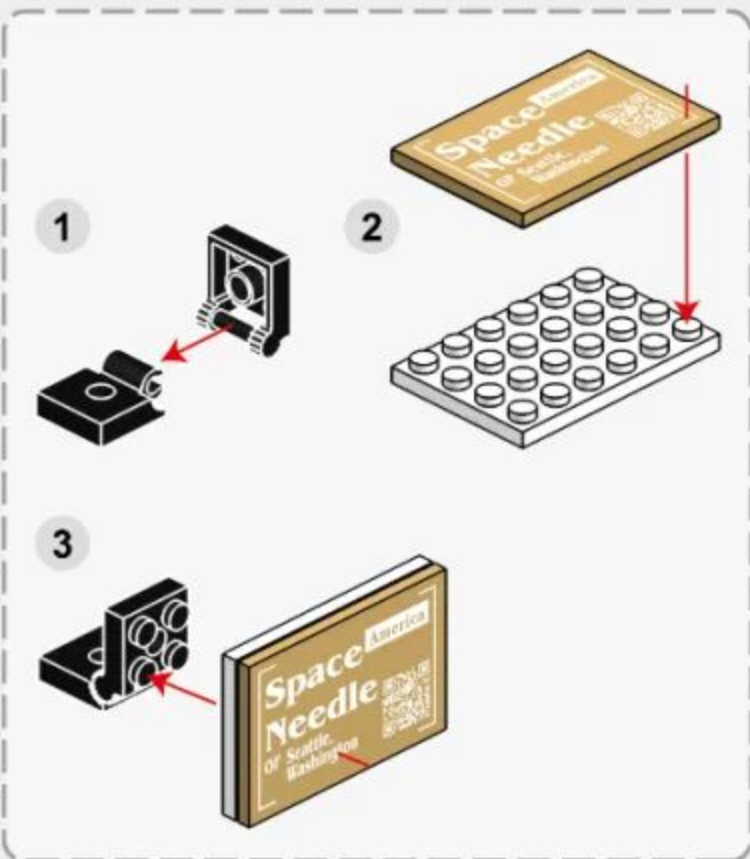
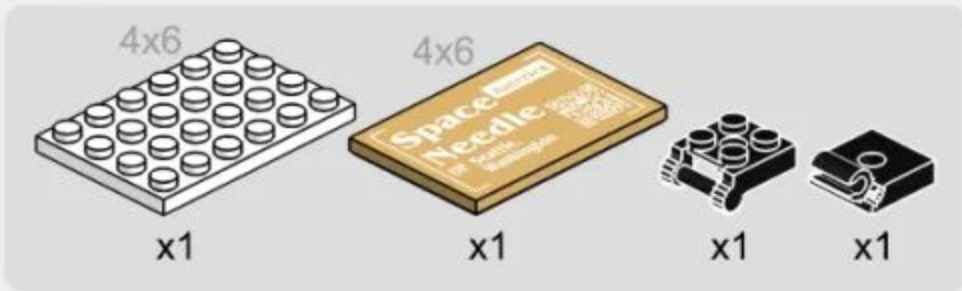
4-12

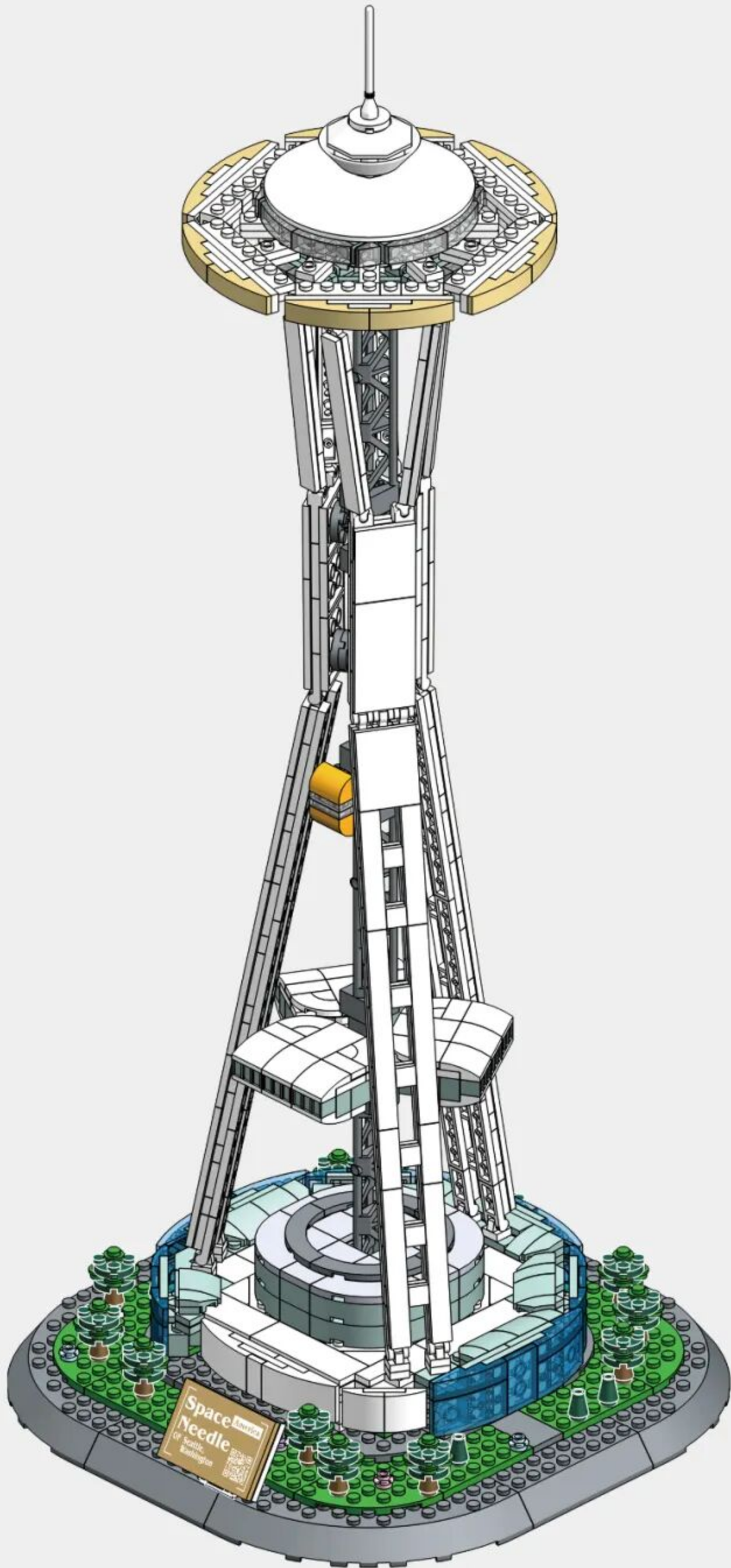


# 4-13



# 4-14





# ARCHITECTURE

The World's great architecture

Shaping Skills   Imagination & Curiosity   Mathematical   Self Discovery & Perception   Parent-Child Interaction   Problem Solving   Creativity



**6224 英国伦敦白金汉宫**  
BUCKINGHAM PALACE-LONDON,ENGLAND



**5225 意大利罗马斗兽场**  
COLOSSEUM-ROME,ITALY



**5226 日本东京帝国饭店**  
IMPERIAL HOTEL-TOKYO,JAPAN



**6211 德国柏林勃兰登堡门**  
BRANDENBURG GATE-BERLIN, GERMANY



**6222 中国甘肃长城-嘉峪关**  
JIAYU PASS-GANSU,CHINA



**6212 日本京都清水寺仁王门**  
NOMON GATE OF KIYOMIZU-DERA-KYOTO,JAPAN



**6214 中国武汉黄鹤楼**  
YELLOW CRANE TOWER-WUHAN,CHINA



**6215 英国伦敦眼**  
LONDON EYE-LONDON,ENGLAND



**6221 中国北京故宫-太和殿**  
HALL OF SUPREME HARMONY-BEIJING,CHINA



**6213 俄罗斯莫斯科瓦西里大教堂**  
SAINT BASIL'S CATHEDRAL-MOSCOW,RUSSIA



**6220 沙特阿拉伯麦加大清真寺**  
GREAT MOSQUE OF MECCA,SAUDI ARABIA



**6219 美国纽约联合国大厦**  
UNITED NATIONS HEADQUARTERS-NEW YORK,AMERICA



**4214 美国华盛顿白宫**  
WHITE HOUSE-WASHINGTON D.C.,AMERICA



**4212 意大利罗马许愿池**  
TREVİ FOUNTAIN-ROME,ITALY



**4213 法国巴黎卢浮宫**  
MUSÉE DU LOUVRE-PARIS,FRANCE



**4218 新加坡-鱼尾狮**  
MERLION,SINGAPORE



**4210 埃及开罗吉萨金字塔**  
GREAT PYRAMID OF GIZA-CAIRO,EGYPT



**4219 英国伦敦双子塔桥**  
TOWER BRIDGE-LONDON,ENGLAND



**4216 美国华盛顿林肯纪念堂**  
LINCOLN MEMORIAL-WASHINGTON D.C.,AMERICA



**4217 新加坡-金沙酒店**  
MARINA BAY SANDS,SINGAPORE



**7210 中国上海世博会中国馆**  
CHINA PAVILION AT EXPO-SHANGHAI, CHINA



**4221 加拿大渥太华国会山庄**  
PARLIAMENT BUILDINGS-OTTAWA, CANADA



**4211 英国伦敦伊丽莎白塔**  
ELIZABETH TOWER-ENGLAND



**4220 美国纽约熨斗大厦**  
FLATIRON BUILDING-NEW YORK, AMERICA



**5227 美国纽约自由女神像**  
STATUE OF LIBERTY-NEW YORK, AMERICA



**4215 加拿大多伦多电视塔**  
THE CN TOWER-CANADA



**4222 阿联酋迪拜哈利法塔**  
THE BURJ KHALIFA TOWER-DUBAI, UAE



**5224 中国上海东方明珠广播电视塔**  
ORIENTAL PEARL TOWER-SHANGHAI, CHINA



**5212 美国纽约帝国大厦**  
EMPIRE STATE BUILDING-NEW YORK, AMERICA



**5213 马来西亚吉隆坡石油双塔**  
PETRONAS TWIN TOWERS-KUALA LUMPUR, MALAYSIA



**5214 意大利托斯卡纳比萨斜塔**  
LEANING TOWER OF PISA-TUSCANY, ITALY



**5216 英国伦敦伊丽莎白塔**  
ELIZABETH TOWER LONDON, ENGLAND



**5219 俄罗斯莫斯科克里姆林宫钟楼**  
SPASSKAYA TOWER-MOSCOW, RUSSIA



**5220 阿联酋迪拜卓美亚帆船酒店**  
BURJ AL ARAB HOTEL-DUBAI, UAE



**5217 法国巴黎埃菲尔铁塔**  
EIFFEL TOWER-PARIS, FRANCE



**5221 中国台北101大楼**  
TAIPEI 101-TAIPEI, CHINA



**6223 中国武汉长江大桥**  
WUHAN YANGTZE RIVER BRIDGE



**5210 法国巴黎圣母院大教堂**  
CATHÉDRALE NOTRE DAME DE PARIS-PARIS,FRANCE



**5223 法国巴黎凯旋门**  
ARC DE TRIOMPHE-PARIS,FRANCE



**5211 印度阿格拉泰姬陵**  
TAJ MAHAL-AGRA,INDIA



**5215 英国伦敦双子塔桥**  
TOWER BRIDGE-LONDON,ENGLAND



**5222 中国北京天坛祈年殿**  
HALL OF PRAYER FOR GOOD HARVESTS-BEIJING,CHINA



**6210 美国旧金山金门大桥**  
GOLDEN GATE BRIDGE-SAN FRANCISCO,AMERICA



**6216 中国北京万里长城（八达岭）**  
THE GREAT WALL-BEIJING,CHINA



**5218 中国北京天安门**  
TIAN'ANMEN TOWER-BEIJING,CHINA



**6217 中国西藏布达拉宫**  
POTALA PALACE-TIBET,CHINA



**6218 芬兰罗瓦涅米圣诞老人办公室**  
SANTA CLAUS OFFICE-ROVANIEMI,FINLAND



**6225 墨西哥库库尔坎玛雅金字塔**  
EL CASTILLO-KUKULKAN,MEXICO



**6226 德国巴伐利亚新天鹅堡**  
SCHLOSS NEUSCHWANSTEIN, BAYERN, DEUTSCHLAND



**5228 美国芝加哥威利斯大厦**  
WILLIS TOWER-CHICAGO, AMERICA



**5229 土耳其伊斯坦布尔其少女塔**  
MAIDEN TOWER-ISTANBUL,TURKEY



**5230 中国湖南长沙爱晚亭**  
AIWAN TING PAVILION-HUNAN,CHINA



**5231** 巴西里约热内卢救世基督像  
CRISTO REDENTOR-RIO DE JANEIRO, BRASIL



**5232** 美国宾夕法尼亚州流水别墅  
FALLINGWATER-PENNSYLVANIA, AMERICA



**5233** 美国芝加哥范斯沃斯住宅  
FARNSWORTH HOUSE-CHICAGO, AMERICA



**5234** 美国华盛顿唐人街  
CHINA TOWN-WASHINGTON, D.C., AMERICA



**3210** 美国纽约自由女神像  
STATUE OF LIBERTY-NEW YORK, AMERICA



**4223** 中国北京清华园  
TSINGHUA CAMPUS-BEIJING, CHINA



**7211** 中国湖南岳阳楼  
YUEYANG TOWER-HUNAN, CHINA



**8210** 澳大利亚悉尼歌剧院  
SYDNEY OPERA HOUSE-BENNELONG POINT, AUSTRALIA



**7212** 中国江西滕王阁  
PAVILION OF PRINCE TENG-JIANGXI, CHINA



**6227** 中国河南少林寺  
SHAOLIN TEMPLE-HENAN, CHINA



**7213** 中国重庆洪崖洞  
HONGYADONG-CHONGQING, CHINA



**5235** 美国国会大厦  
UNITED STATES CAPITOL-WASHINGTON, D.C., AMERICA



**5236** 中国安徽醉翁亭  
ZUIWENG PAVILION-ANHUI, CHINA



**6228** 中国陕西西安钟楼  
XIAN BELL TOWER-SHAANXI, CHINA



**5238** 西雅图太空针塔  
SPACE NEEDLE-SEATTLE, WASHINGTON, AMERICA



# SPACE NEEDLE

COUNTRY: America

CITY: Seattle, Washington

