

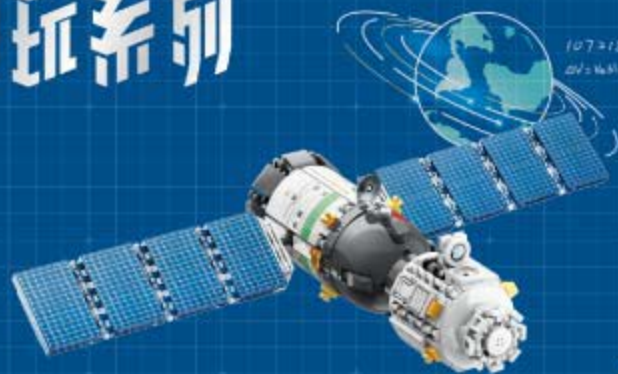
# Keepley

## 国玩系列



中国航天  
航天·燃

K10211  
中国载人航天  
发射任务

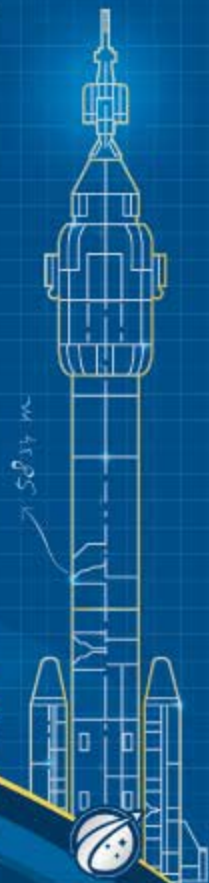


107218 km/h  
0.62 Ma (m/s)

$$m_0 = m_1 \times e^{(-\Delta v / v_e)}$$



$$1 - (m_1 / m_0) = 1 - e^{(-\Delta v / v_e)}$$



内自己款识本模型

长征二号F运载火箭+神舟飞船

图片仅供参考，请以实物为准。



赠

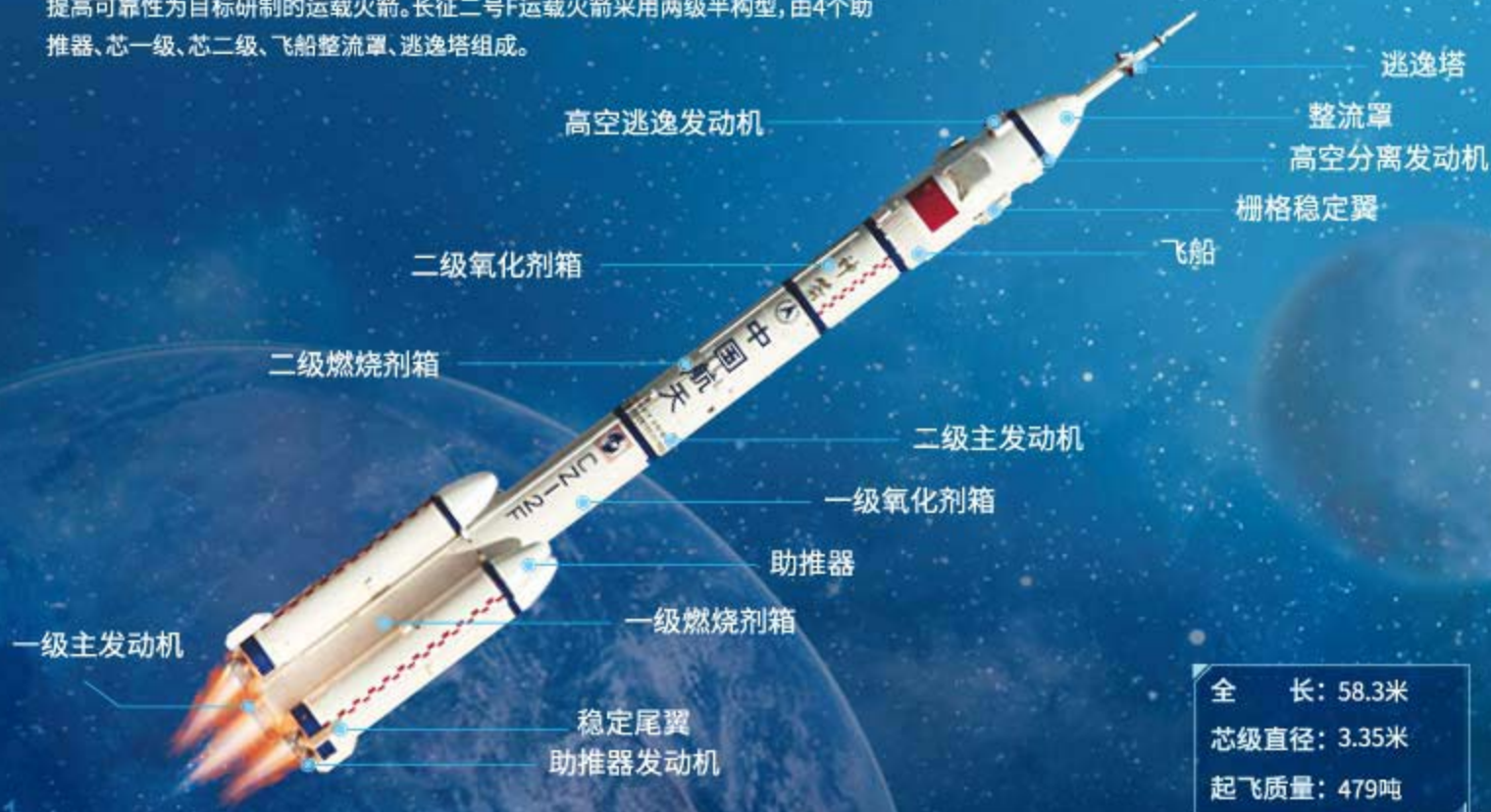
正版授权

# 航天知识科普

## 长征二号F运载火箭和神舟飞船

### 长征二号F运载火箭

长征二号F运载火箭是在长征二号E运载火箭基础上,按照发射载人飞船的要求,以提高可靠性为目标研制的运载火箭。长征二号F运载火箭采用两级半构型,由4个助推器、芯一级、芯二级、飞船整流罩、逃逸塔组成。



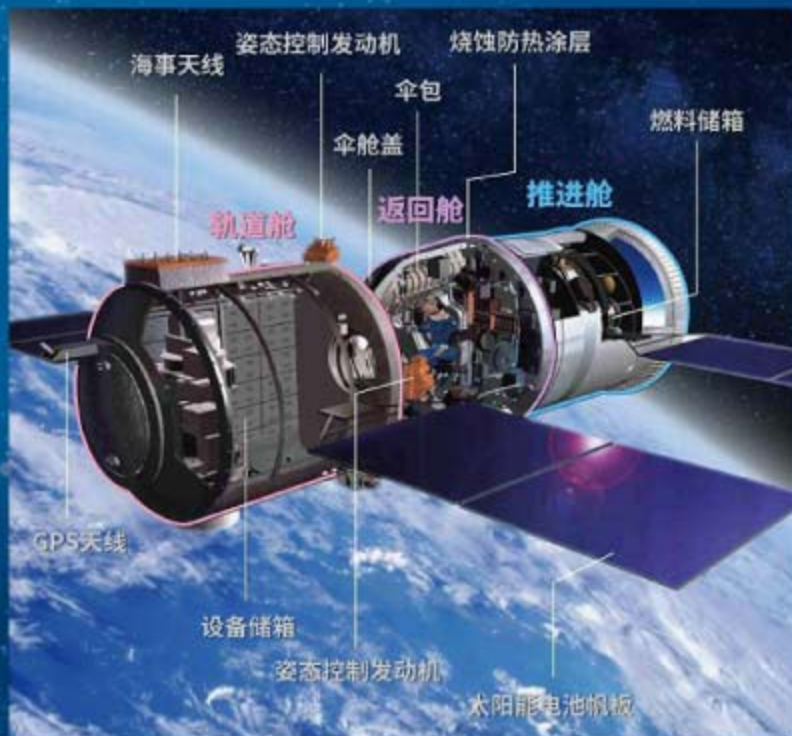
全 长: 58.3米  
芯级直径: 3.35米  
起飞质量: 479吨

## 神舟系列载人飞船

神舟系列载人飞船由专门为其研制的长征二号F运载火箭发射升空,采用三舱一段,即由返回舱、轨道舱、推进舱和附加段构成,由13个分系统组成。

### 神舟飞船结构示意图

原型参考:《兵器知识》杂志



#### 轨道舱

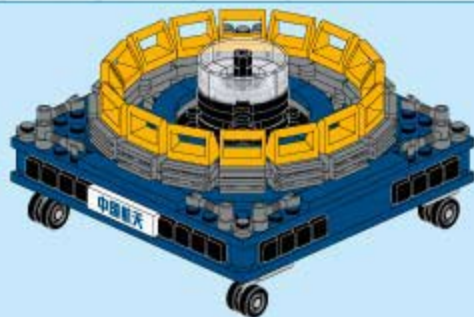
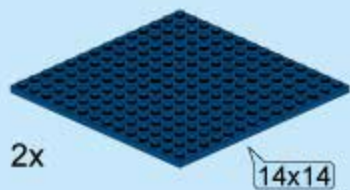
轨道舱是一个圆柱体,总长度为2.8米,最大直径2.27米,称为“多功能厅”,集工作、吃饭、睡觉和清洁等诸多功能于一体。

#### 返回舱

返回舱又称座舱,长2.00米,直径2.40米(不包括防热层)。它是航天员的“驾驶室”。是航天员往返太空时乘坐的舱段,为密闭结构,前端有舱门。

#### 推进舱

推进舱又叫仪器舱或设备舱。推进舱长3.05米,直径2.50米,底部直径2.80米。安装推进系统、电源、轨道制动,并为航天员提供氧气和水。



拆件器使用方法，仅为示例

Usage of Brick Separator, Just for the sample

1



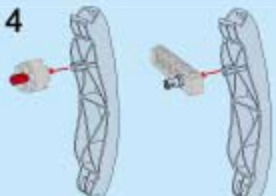
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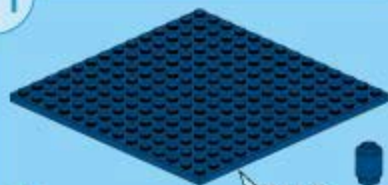
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4



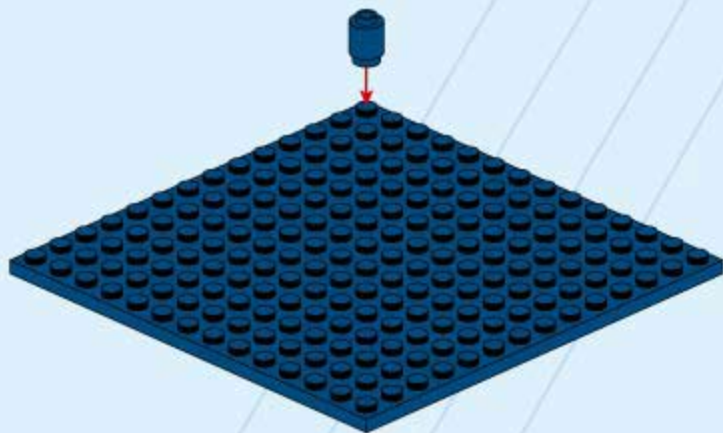
A1



1x

14x14

1x



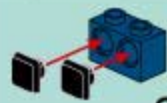
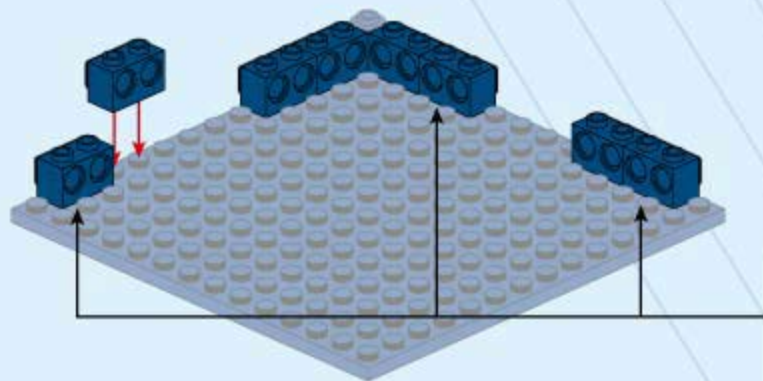
A2



8x

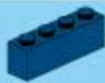


16x



8x

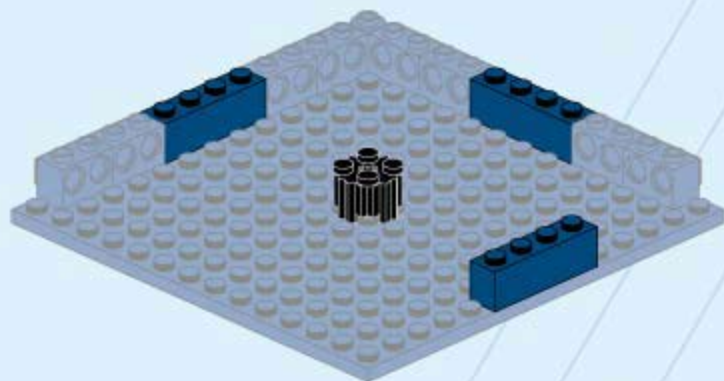
A3



3x



1x



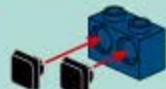
A4



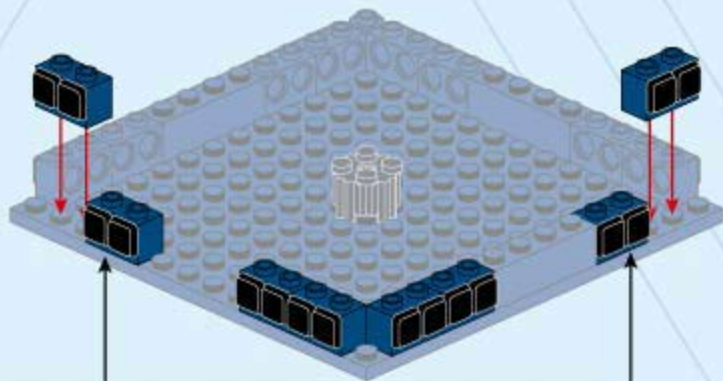
8x



16x



8x



A5



1x

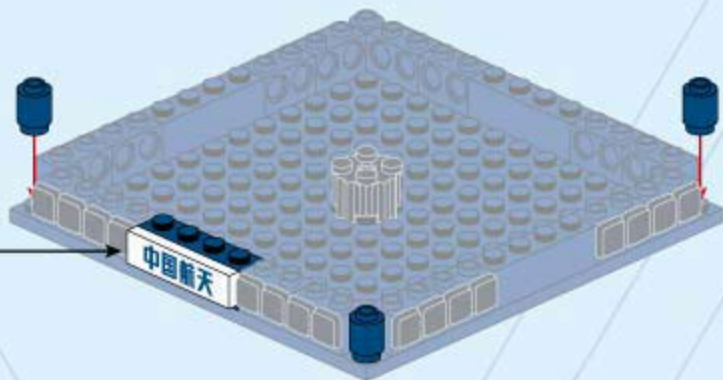


3x

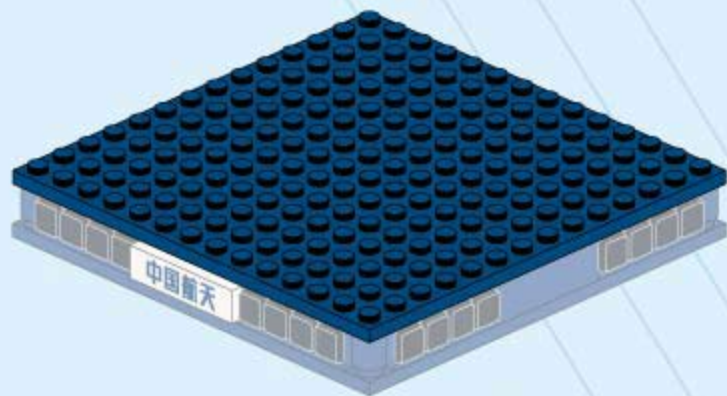
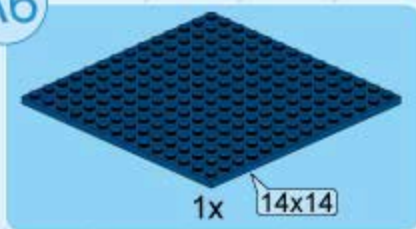


1x

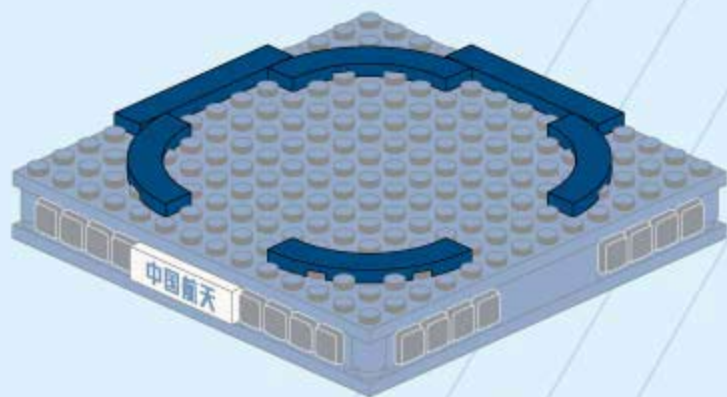
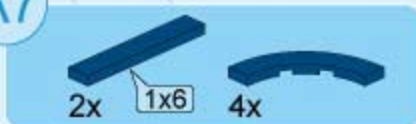
1x4



A6



A7



A8



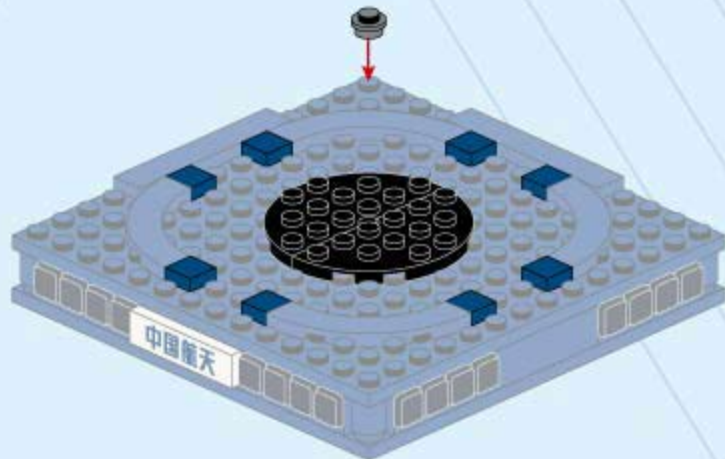
2x



8x



1x



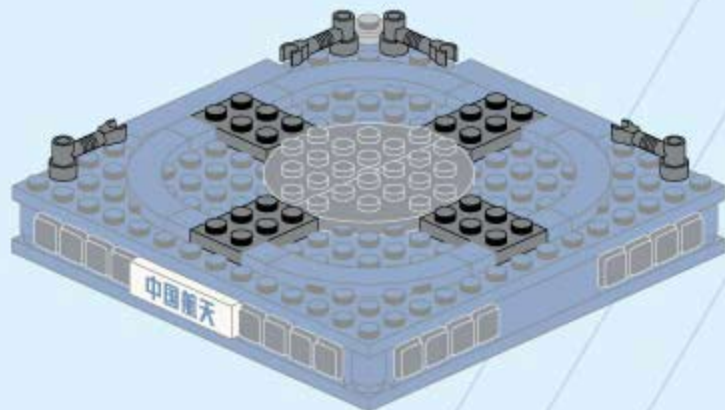
A9



4x



4x







A10



2x



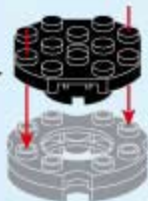
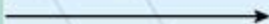
A11



1x



1x



A12



1x



1x<sup>2</sup>



2

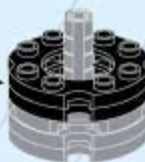
1:1



A13



2x



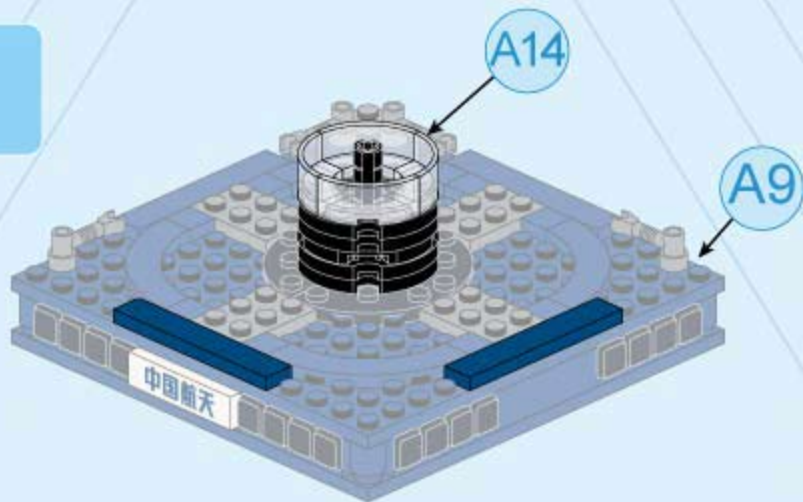
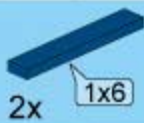
A14



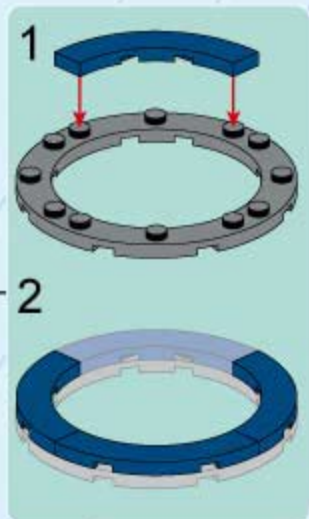
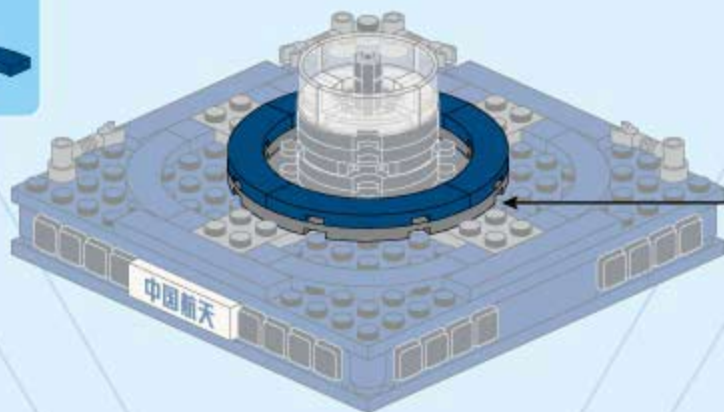
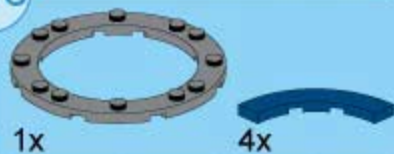
4x



A15



A16



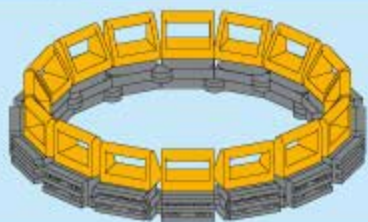
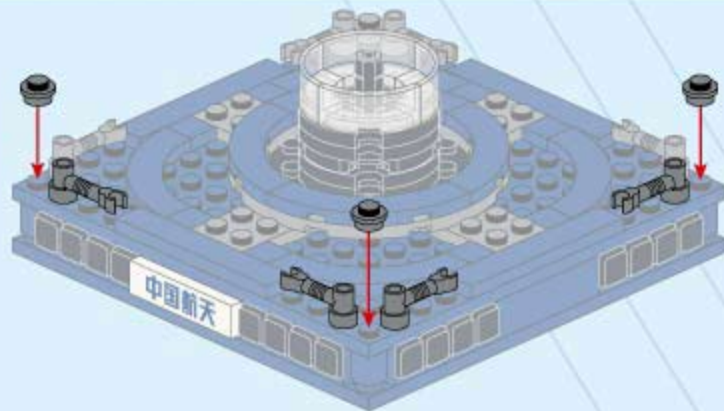
A17



4x



3x



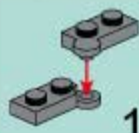
A18



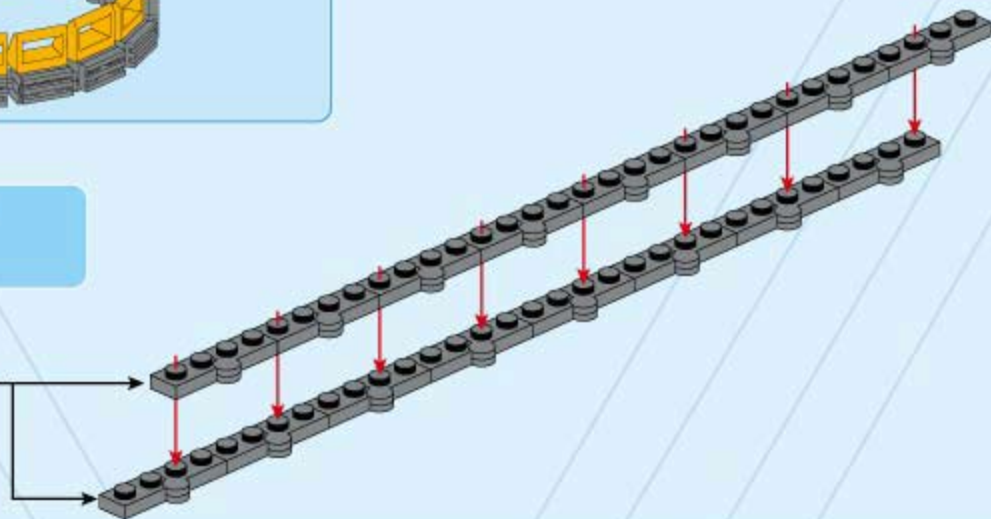
16x



16x



16x



A19



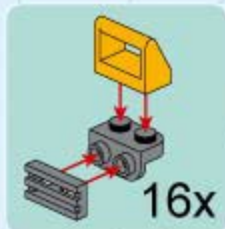
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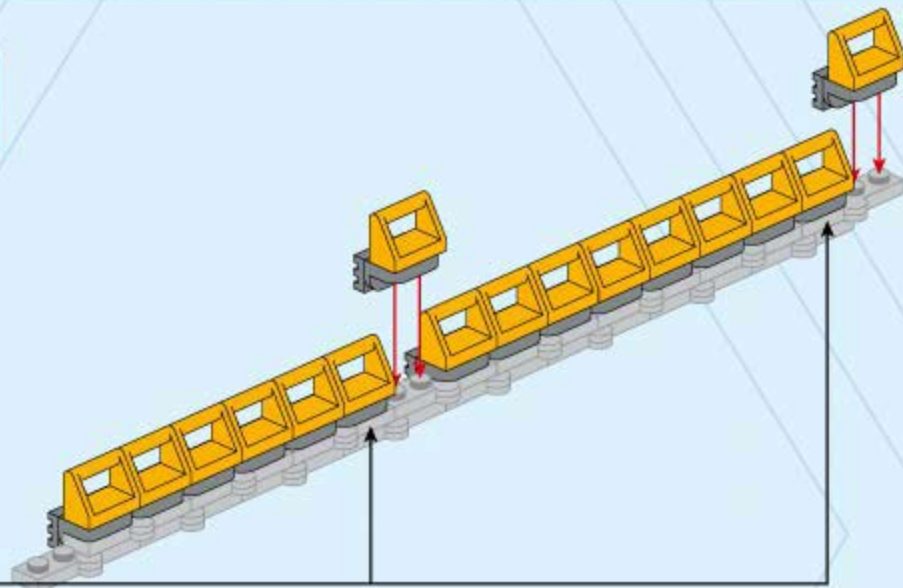
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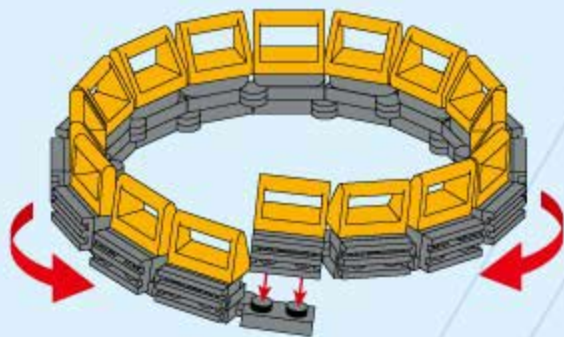
16x



16x



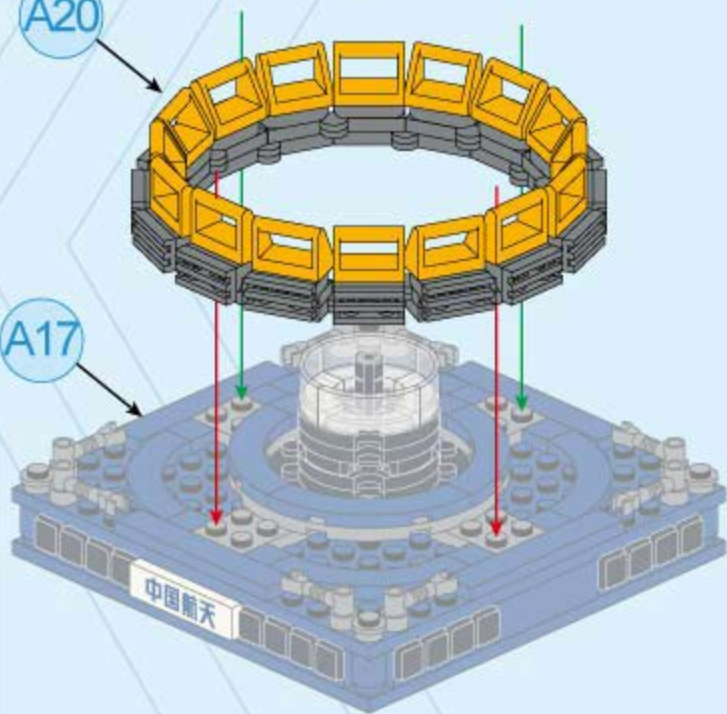
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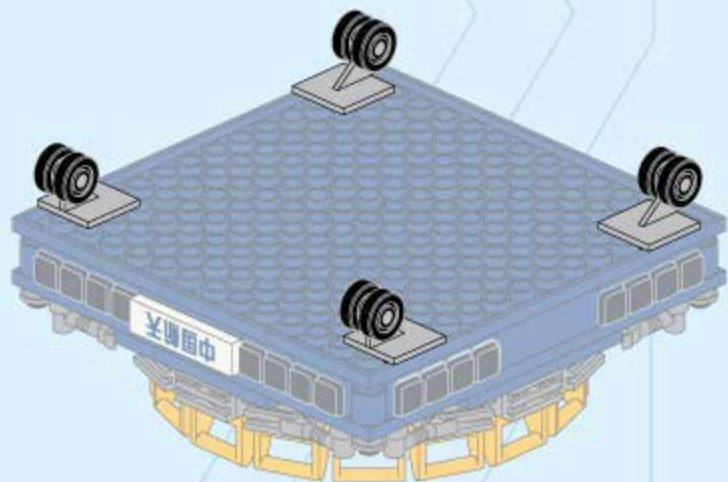
A21

A20

A17

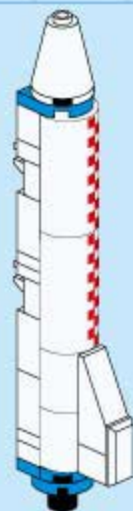
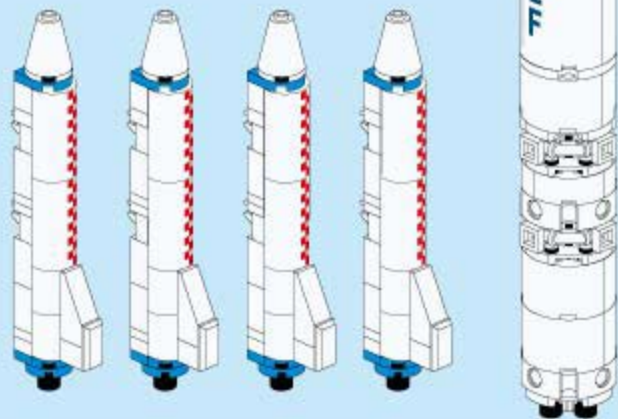


A22





+



(A) 4x

A23

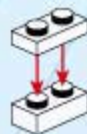


1x



1x

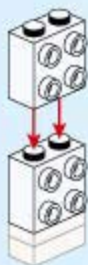
1:1



A24



2x



A25



1x



1x



A26



2x



A27



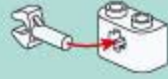
1x



1x



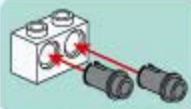
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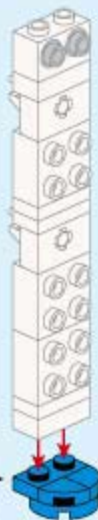
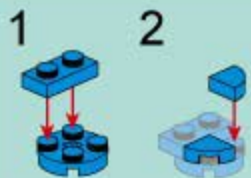
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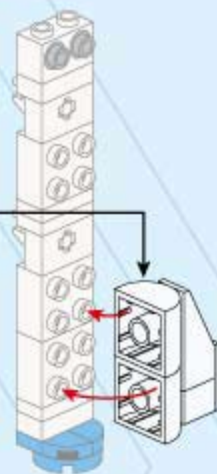
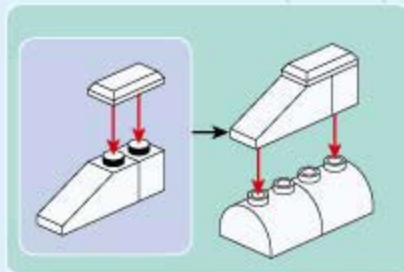
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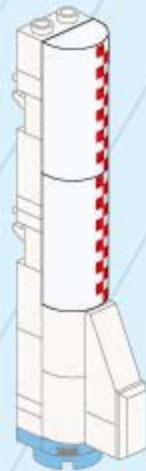
A29



A30



A31





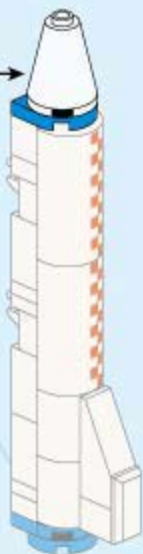
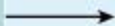
A32



1x



1x



A33



1x





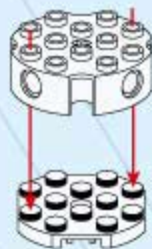
A34



1x



1x



A35



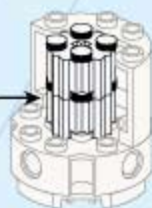
1x



A36



2x



A37



1x



A38



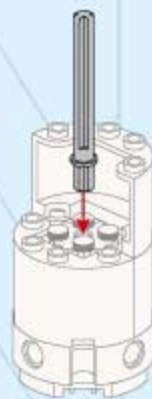
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A39



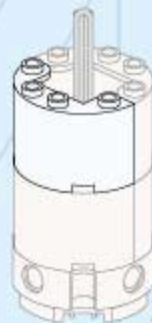
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A40



1x



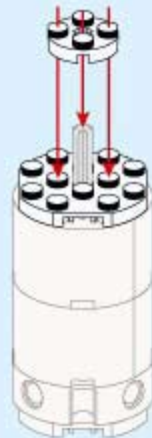
A41



1x



1x



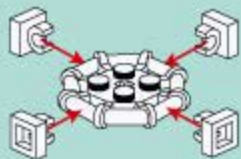
A42



1x



4x



A43



1x



1x



A44



2x



10 1:1

A45



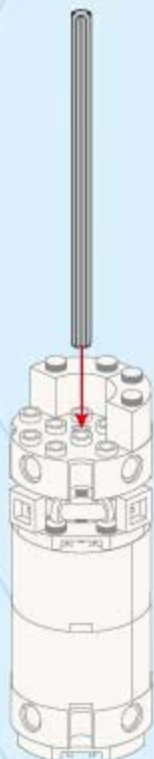
A46



1x



2x



A47



1x



2x



4x

A48



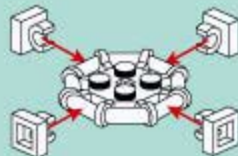
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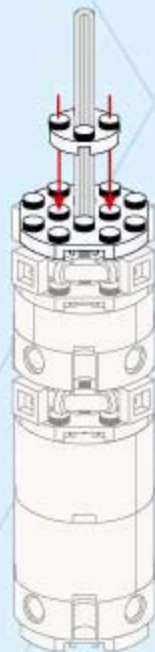
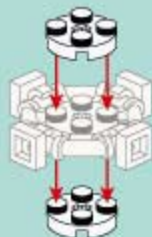
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1



2





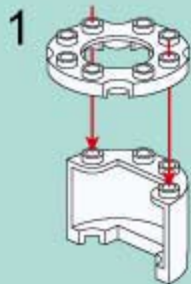
A49



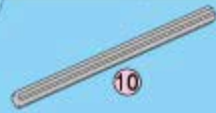
2x



1x



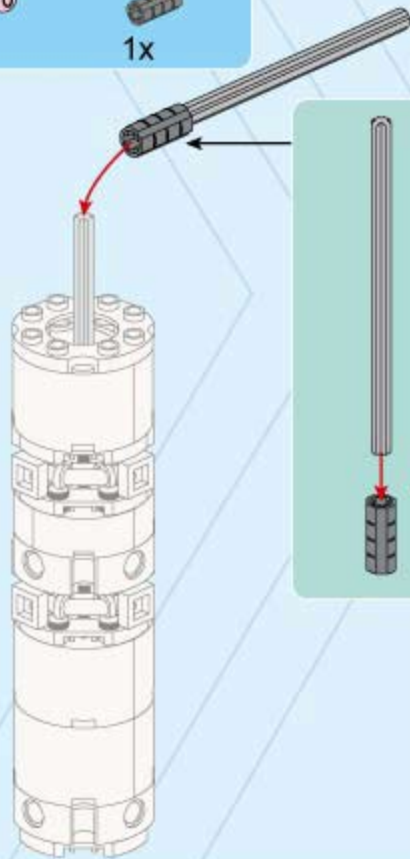
A50



1x



1x



A51

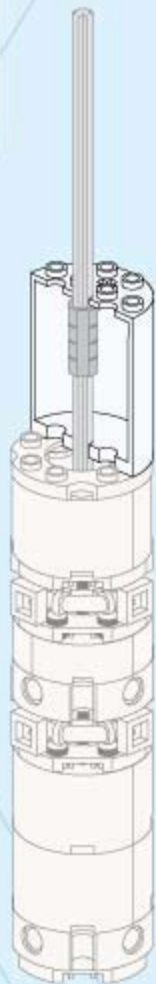


1x

A52



1x





A53



1x



1x



A54



1x



10 1:1

A55



1x



1x

A56



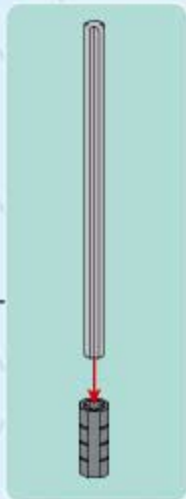
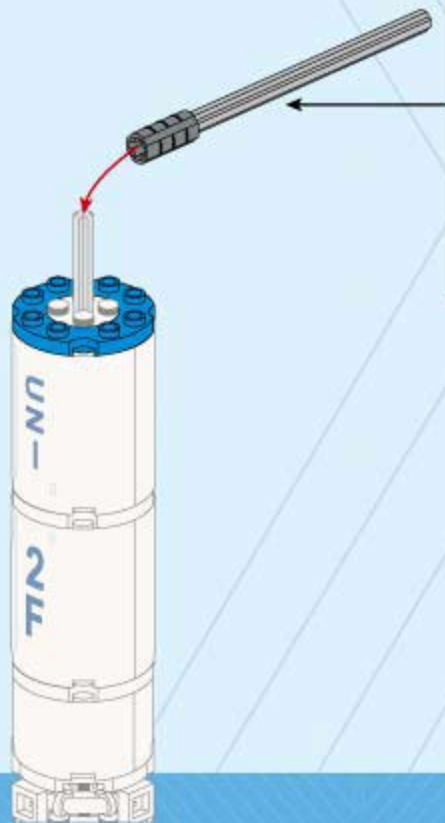
1x



1x



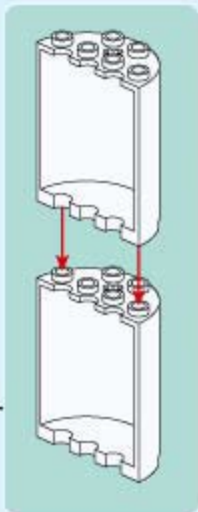
1x



A57



2x



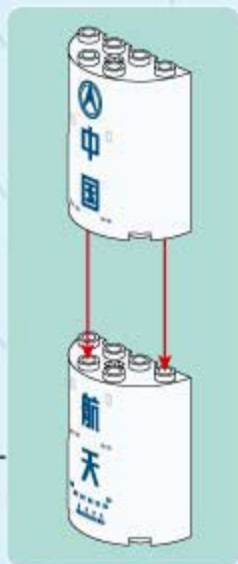
A58



1x



1x



A59



1x

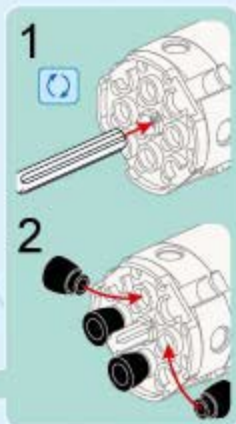


4x



4

1:1



1x



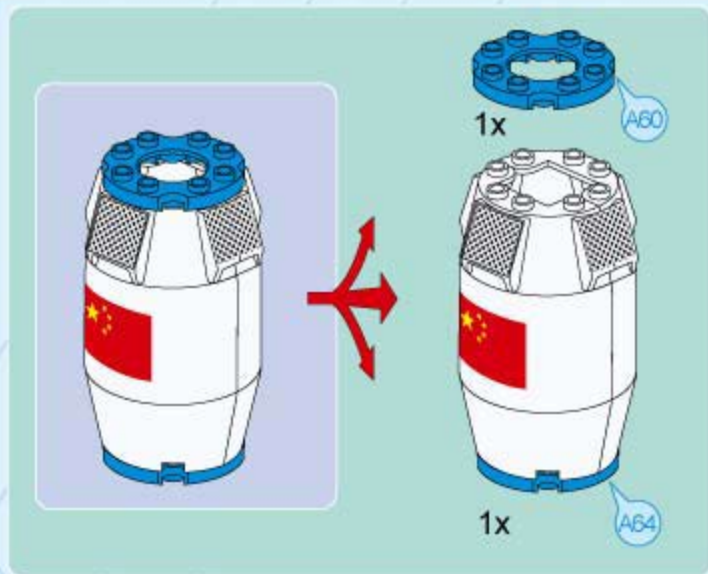
1x



1x

+





A60

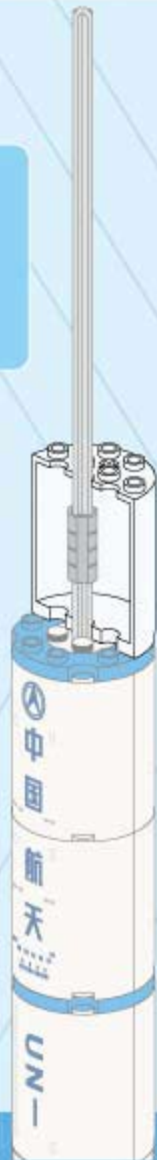
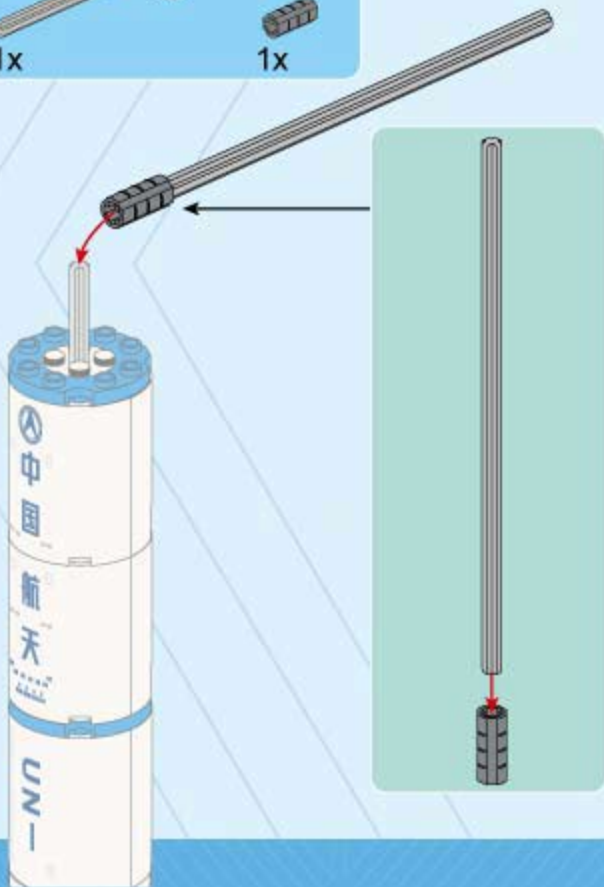
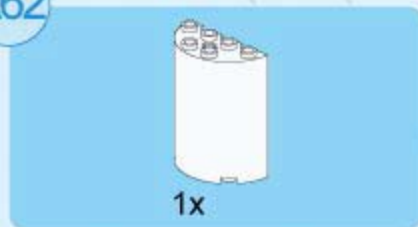




A61



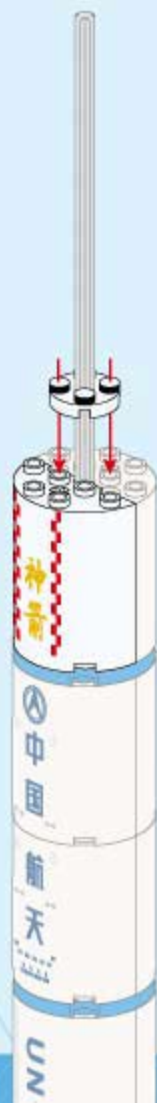
A62



A63



A64



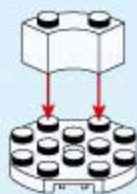
A65



1x



1x



A66



3x



A67



1x



2x



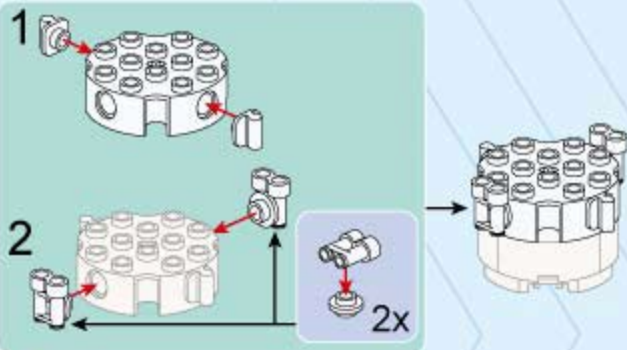
2x



2x

1

2



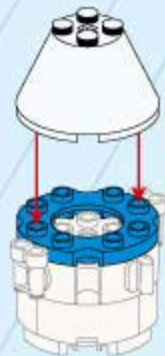
A68



1x



1x





A69



1x



1x



1x



3x



1



2



A70



1x



1x



A71

A70

A64

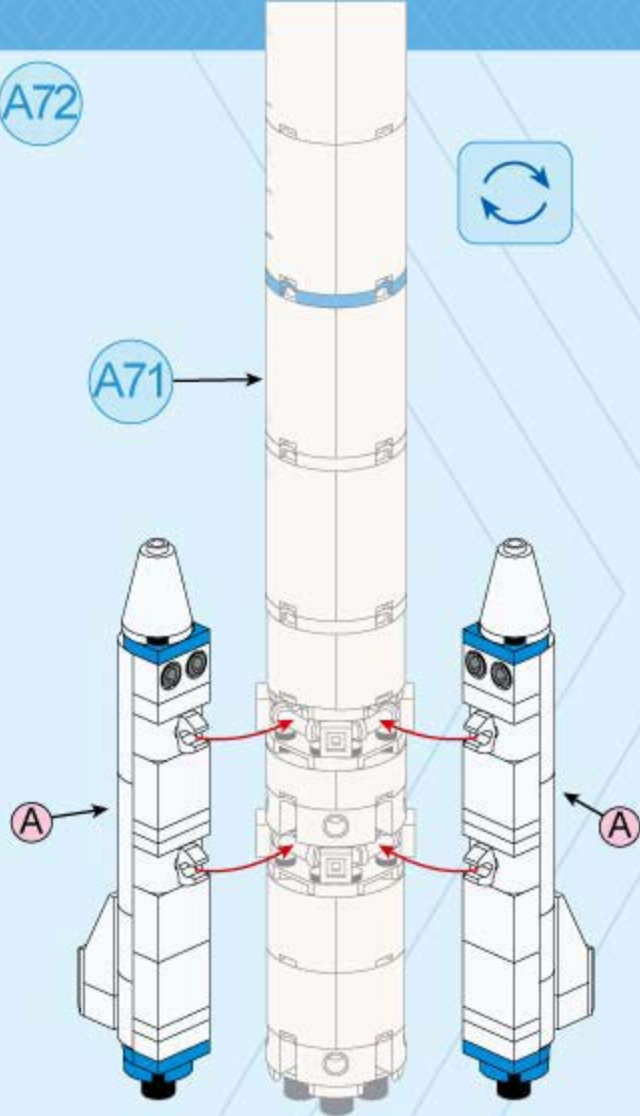
A72

A71



A

A



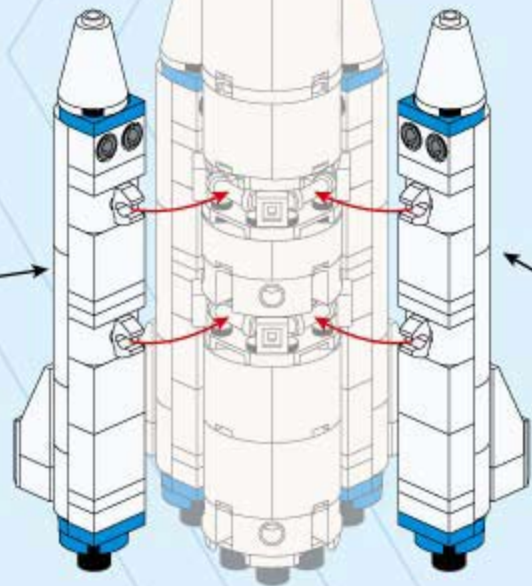
A73



A72

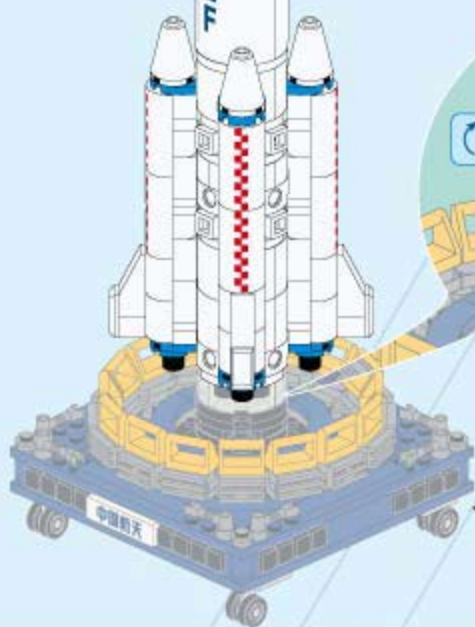
A

A

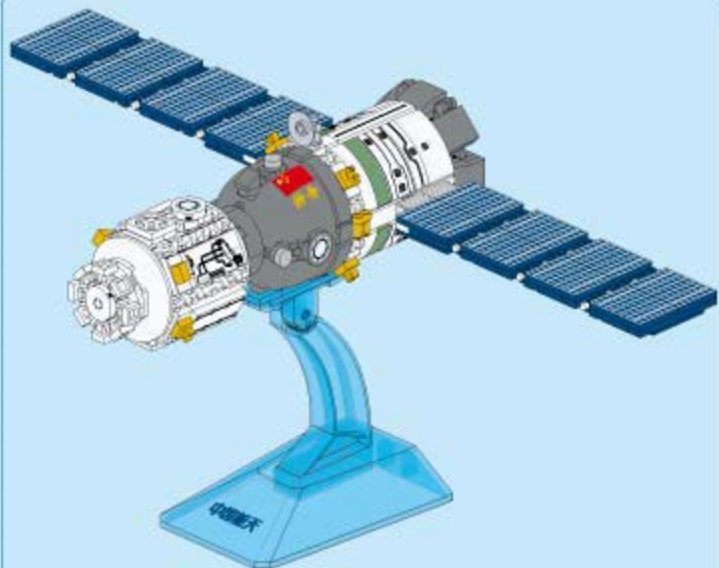


A74

A73



A22



B1



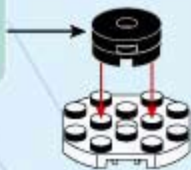
1x



1x



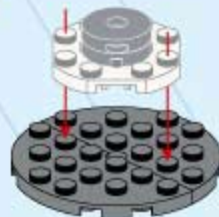
1x



B2



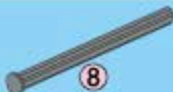
2x



8

1:1

B3



1x

8





B4



1x



1x



B5



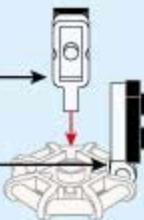
2x



2x



2x



B6



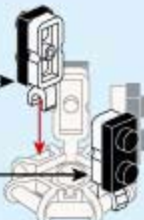
2x



2x



2x



B7



1x



1x



B8



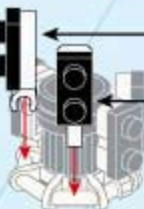
2x



2x



2x



B9



1x



1x

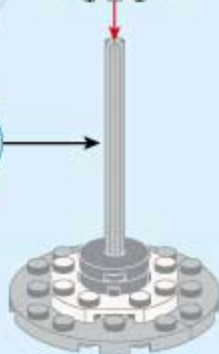


B10

B9



B3



B11



1x



1x



B12



1x

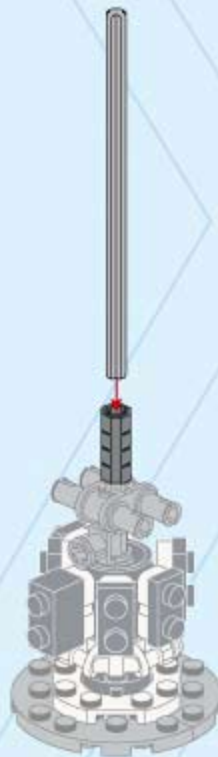
11



1x

11

1:1



B13



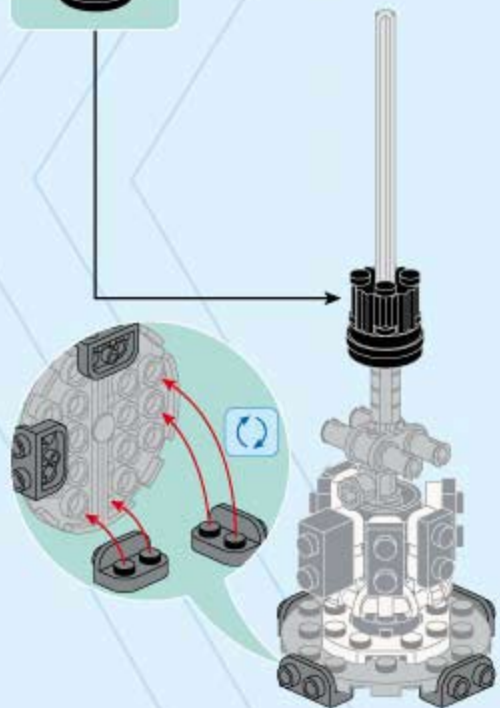
1x



1x



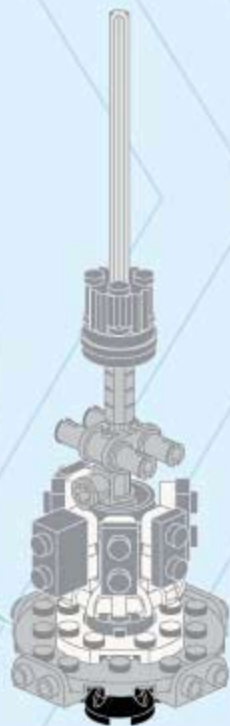
4x

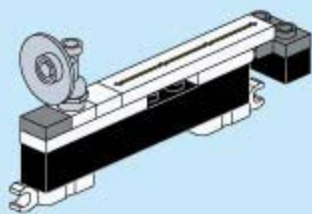


B14



4x





B15

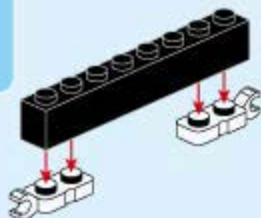


1x

1x8



2x



B16



1x



1x



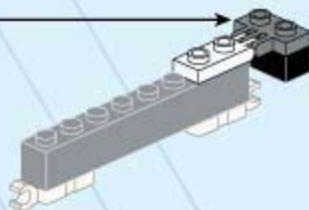
1x



1:1



2



B17

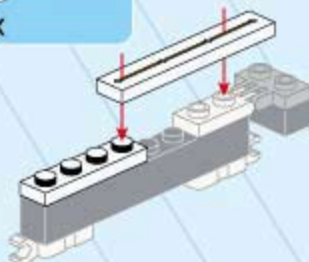


1x

1x6



1x



B18



1x



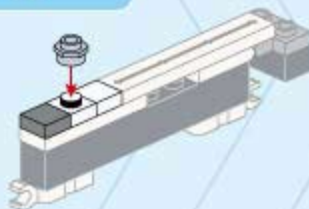
1x



1x



1x



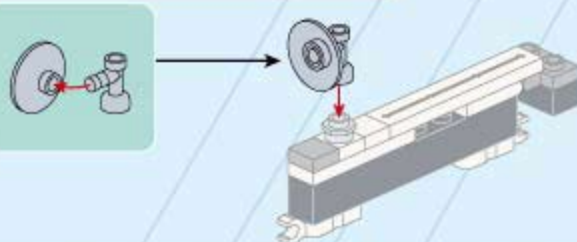
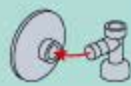
B19



1x

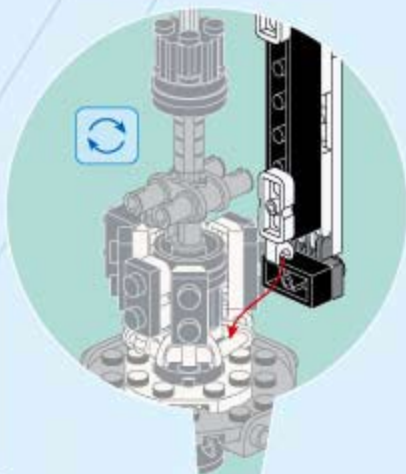


1x



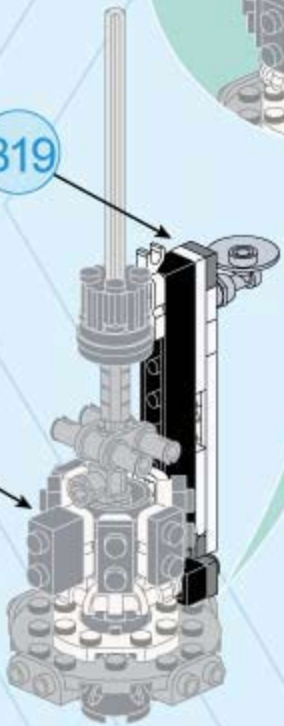


B20



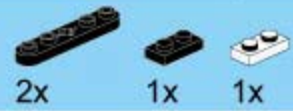
B19

B14



A 2x

B21



2x

1x

1x

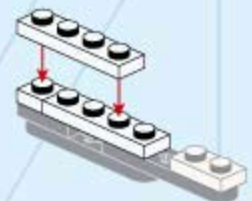


B22

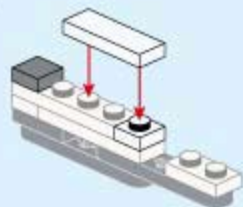


2x

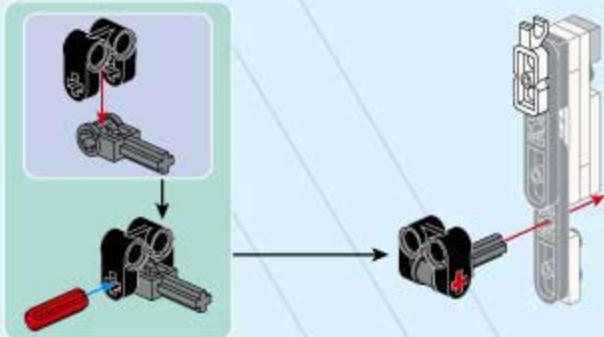
1x



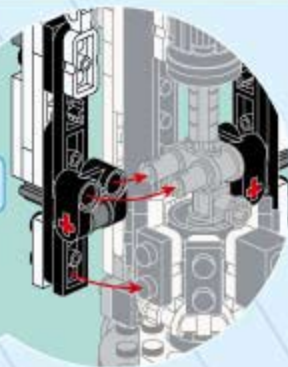
B23



B24

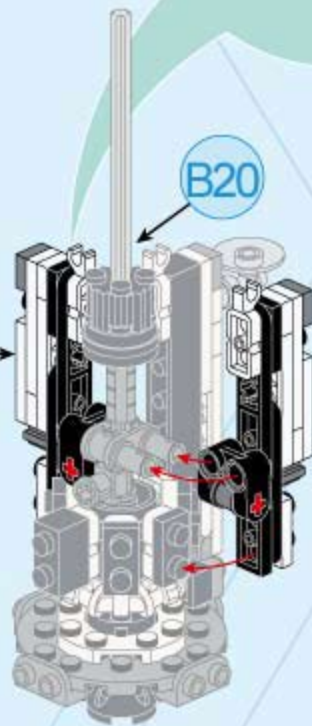


B25



B20

A



A



B26



1x



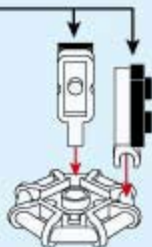
2x



2x



2x



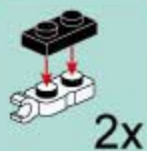
B27



2x



2x



2x



B28



1x



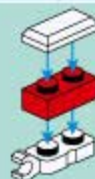
1x



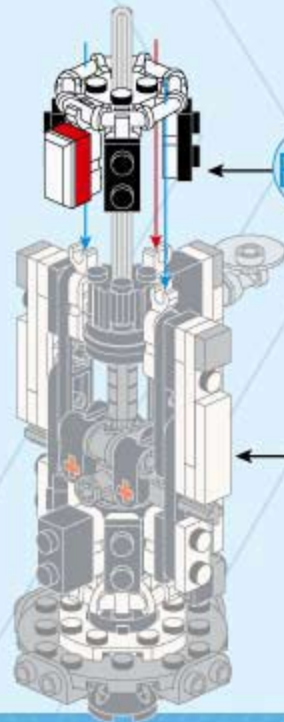
1x



1:1



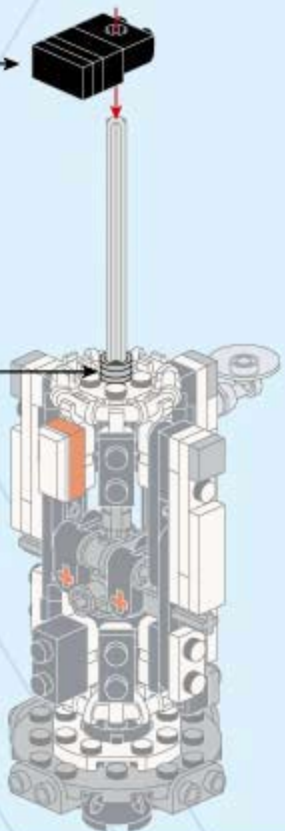
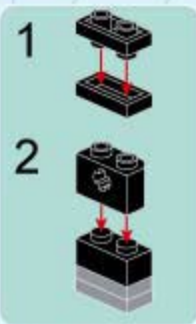
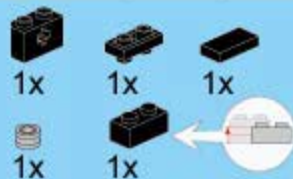
B29



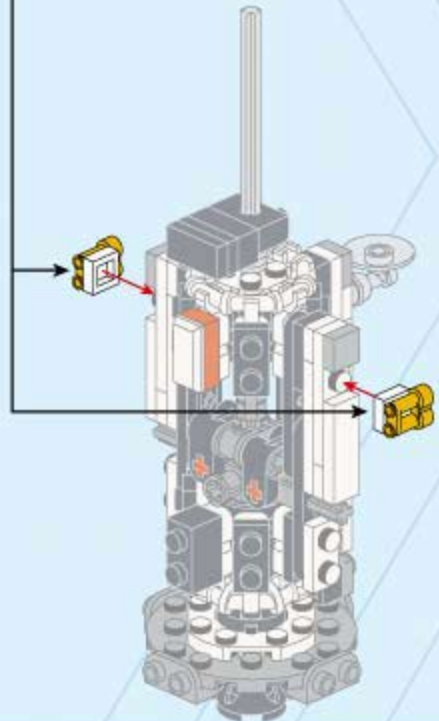
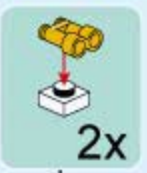
B28

B25

B30



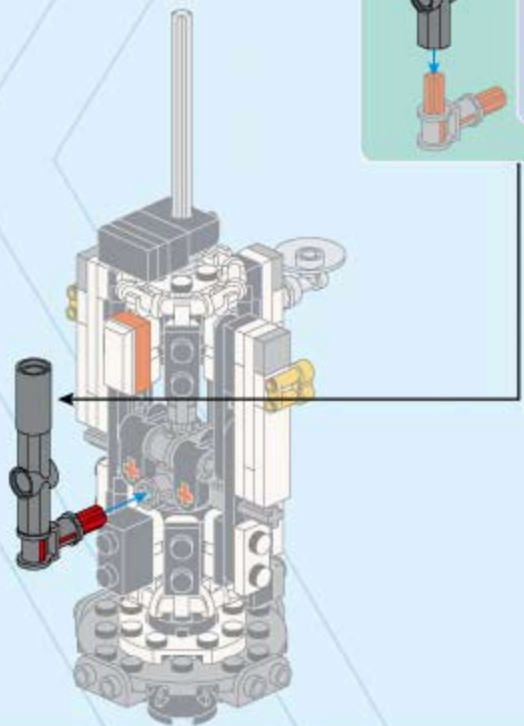
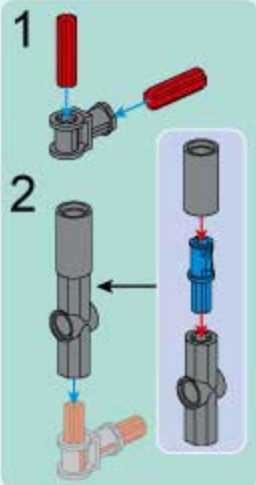
B31



B32



1:1



B 2x

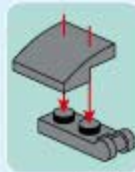
B33



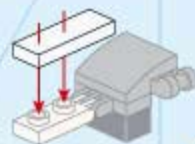
1:1



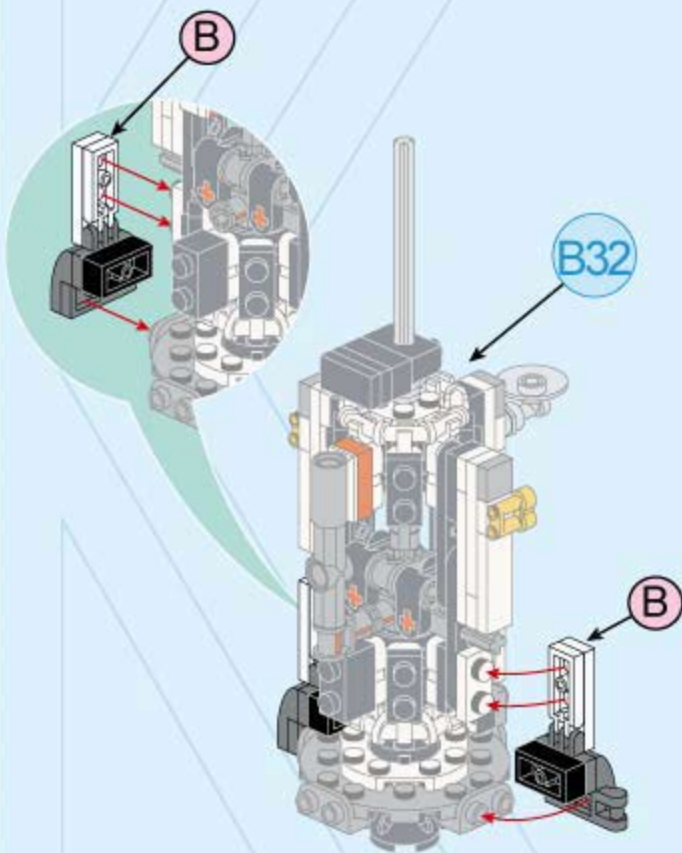
B34



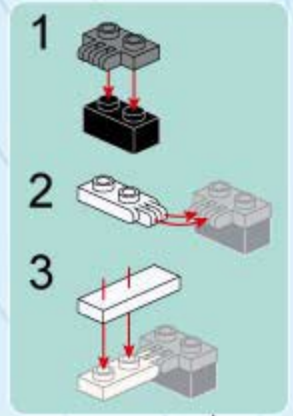
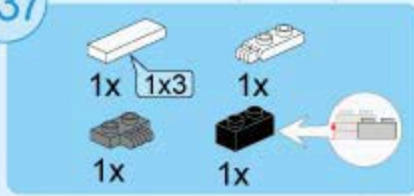
B35



B36



B37



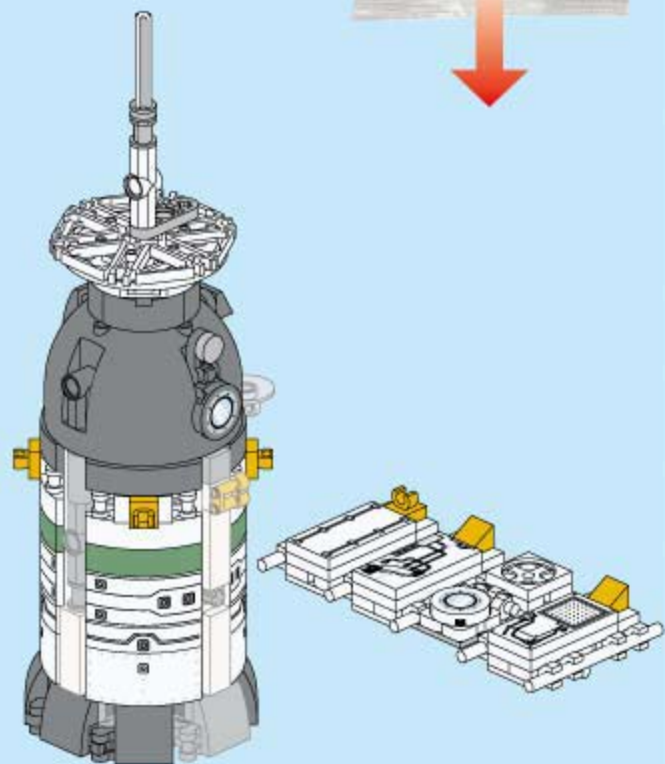


1x

+

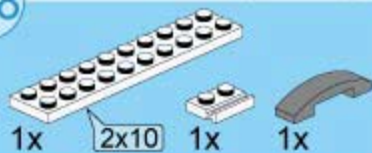


4



Ⓢ 2x

B38

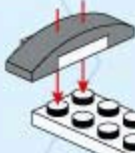


1x

2x10

1x

1x



B39



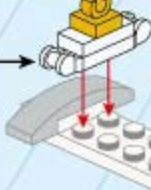
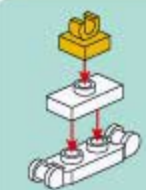
1x



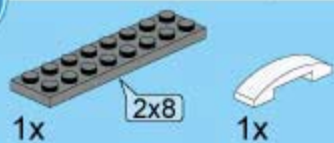
1x



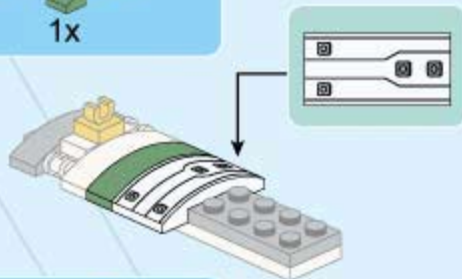
1x



B40



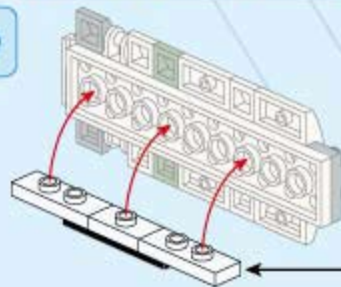
B41



B42



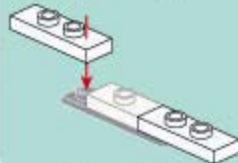
B43



1

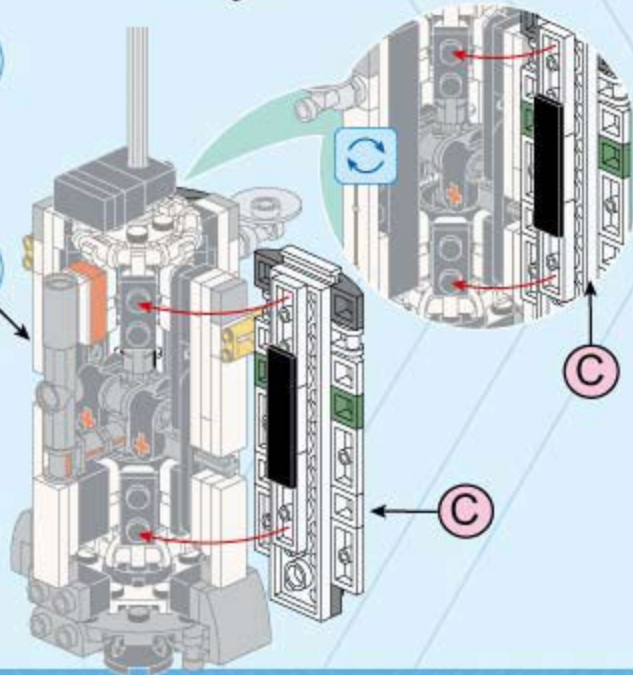


2



B44

B37

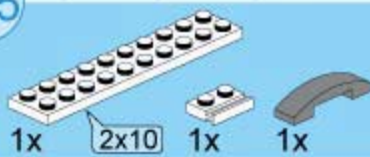






D 2x

B45

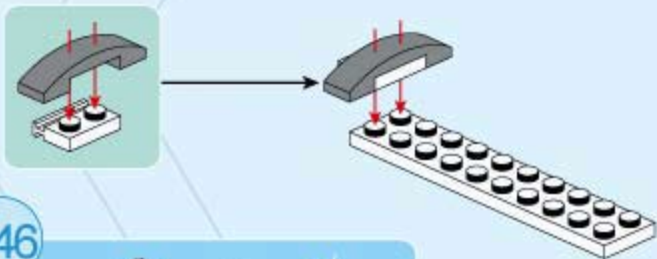


1x

2x10

1x

1x



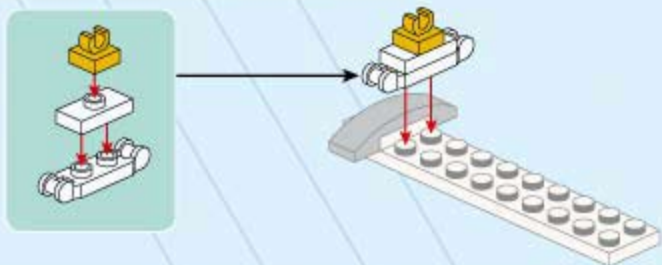
B46



1x

1x

1x



B47



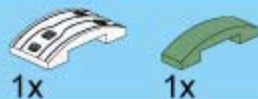
1x

2x8

1x



B48



1x

1x



B49

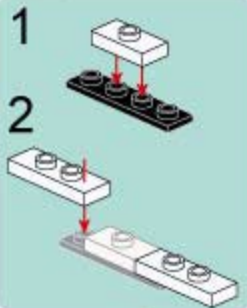
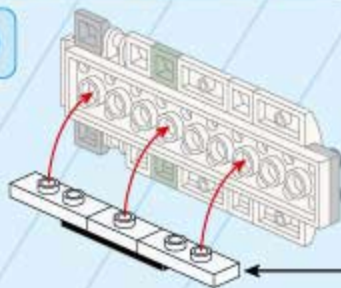


1x

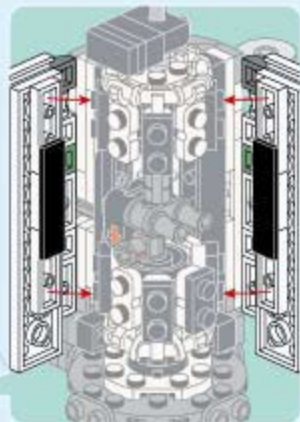
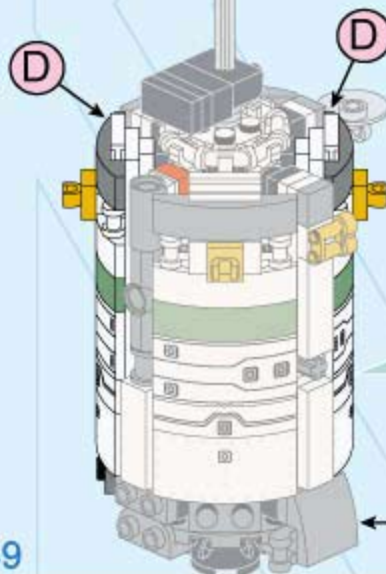
1x



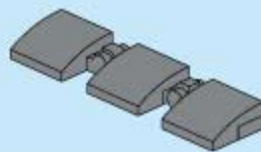
B50



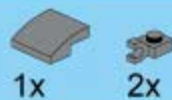
B51



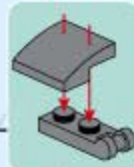
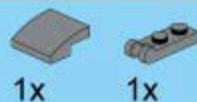
B44



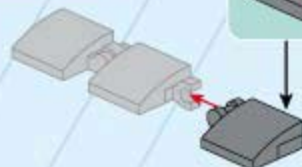
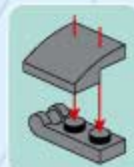
B52



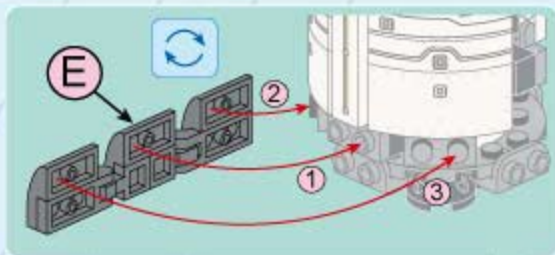
B53



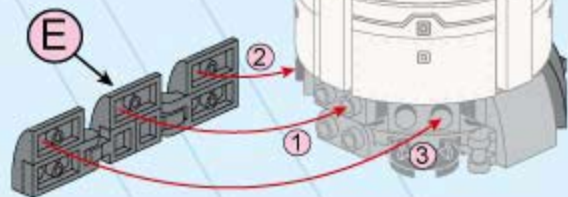
B54



B55



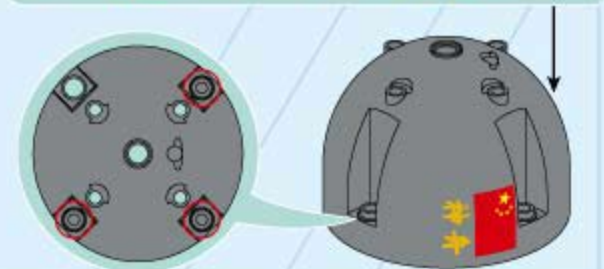
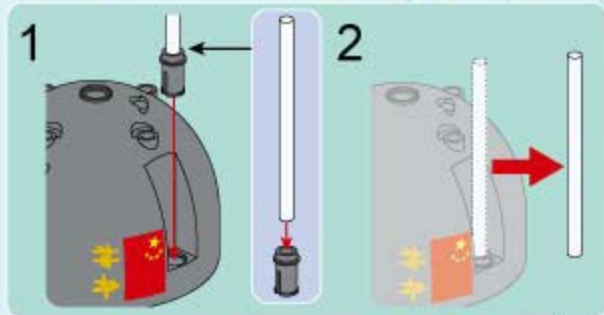
B51



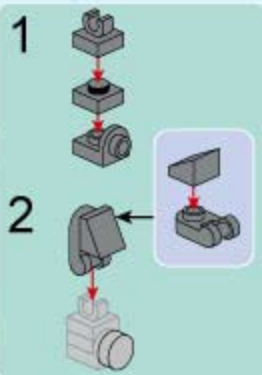
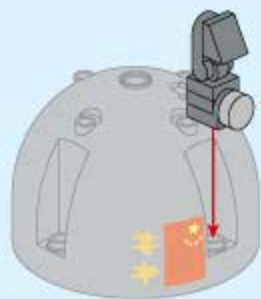
B56



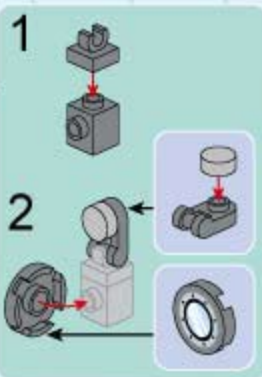
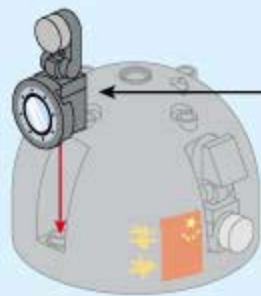
圆轴为辅助安装工具  
The circular axle is the installation tool



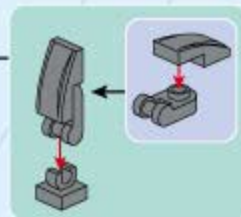
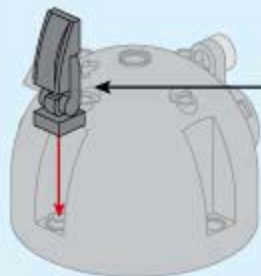
B57



B58



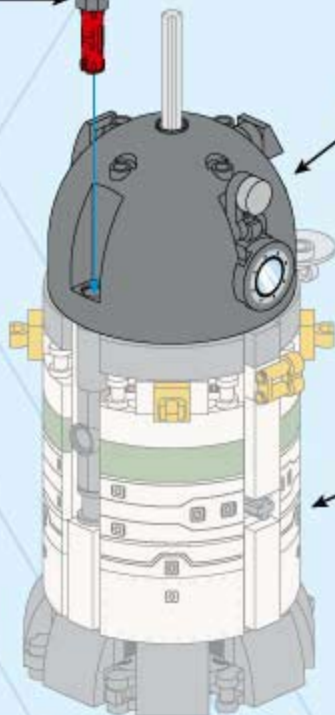
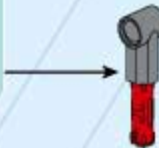
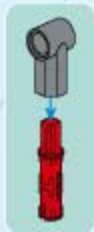
B59



B60

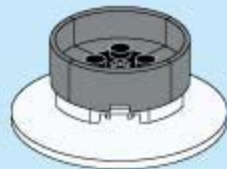
1x

1x



B59

B55



B61



1x



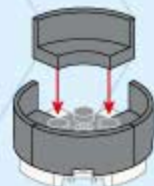
1x



B62



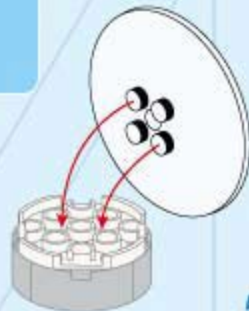
4x



B63



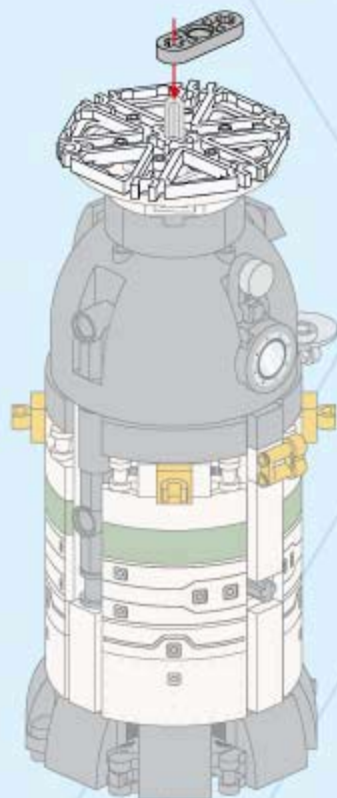
1x



B64

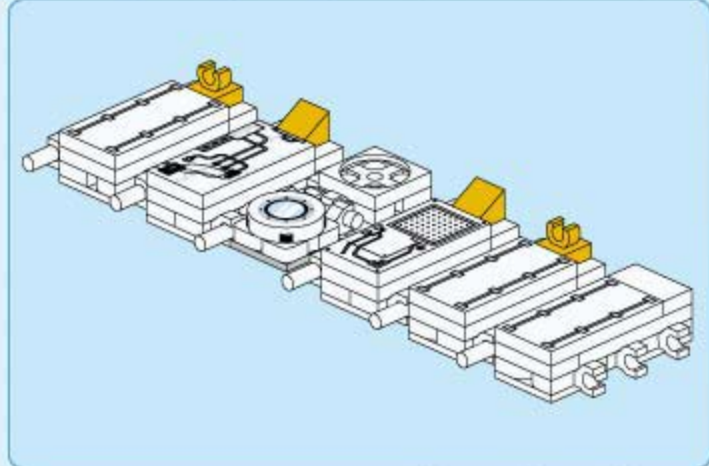
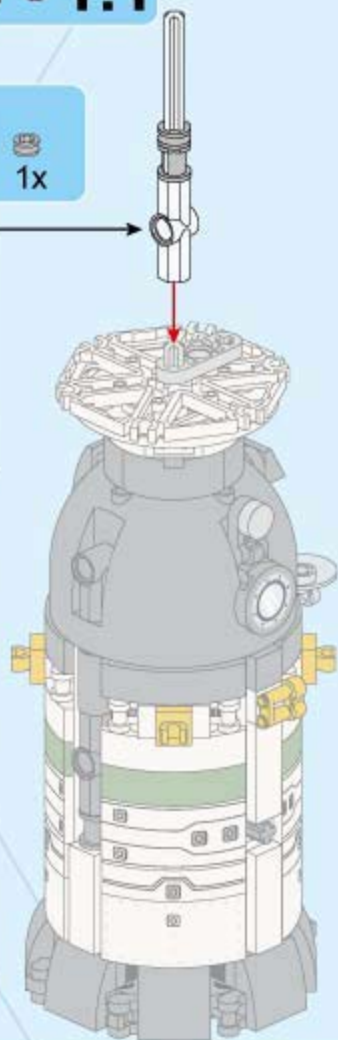
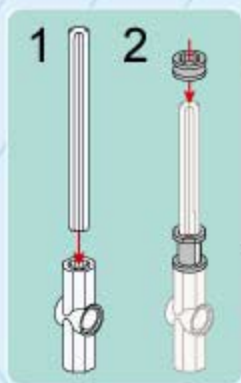


B65



6 1:1

B66



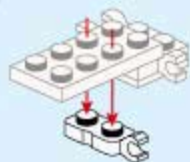
B67



B68



1x



B69



1x



1x

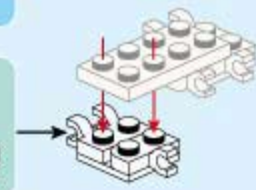


1x

1



2



B70

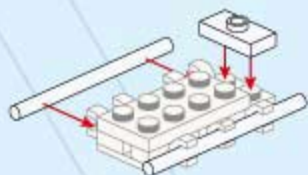


2x

6



1x



B71

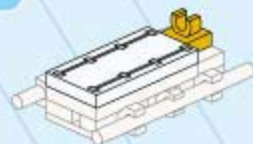


1x

2x4



1x



B72



1x



1x



1x

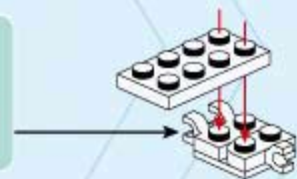


1x

1



2



B73



1x

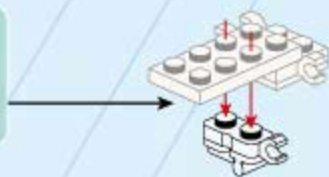


2x

1



2





B74



1x



2x

1



2



B75

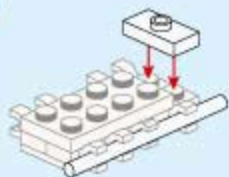


1x

6



1x



B76



1x

2x4

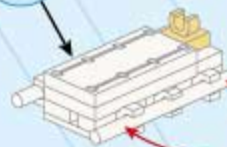


1x



B77

B71



B76



B78



1x



1x



B79



1x



B80



1x



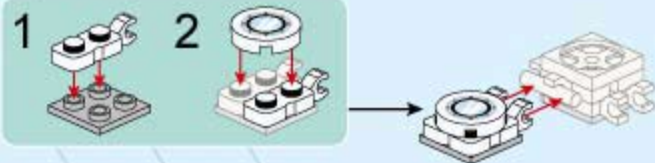
1x



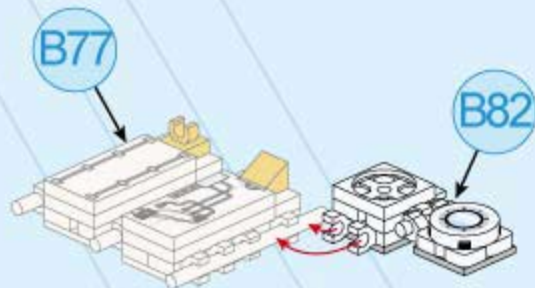
B81



B82



B83



B84



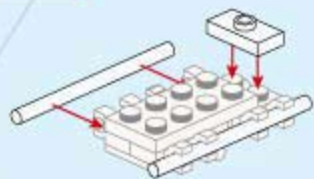
B85



B86



B87



B88



1x

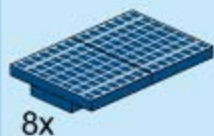
2x4



1x



B89

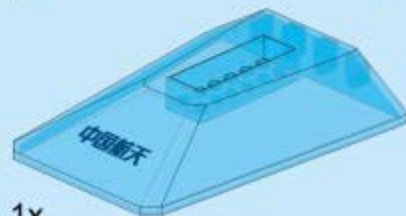


8x

+



5



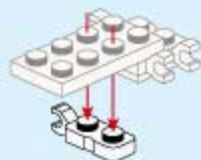
1x



B90



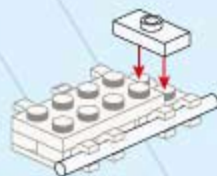
B91



B92



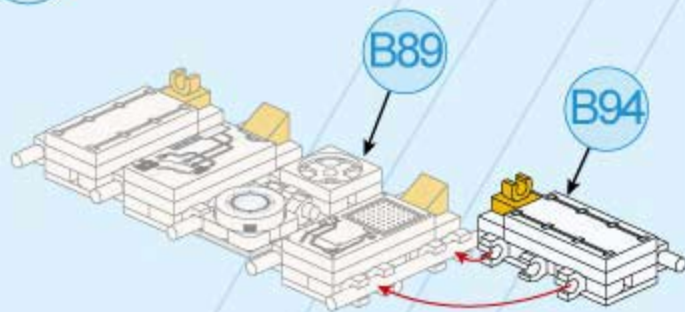
B93



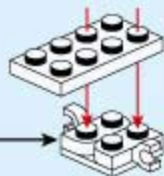
B94



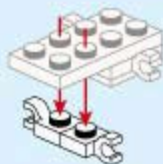
B95



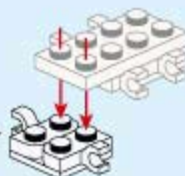
B96



B97



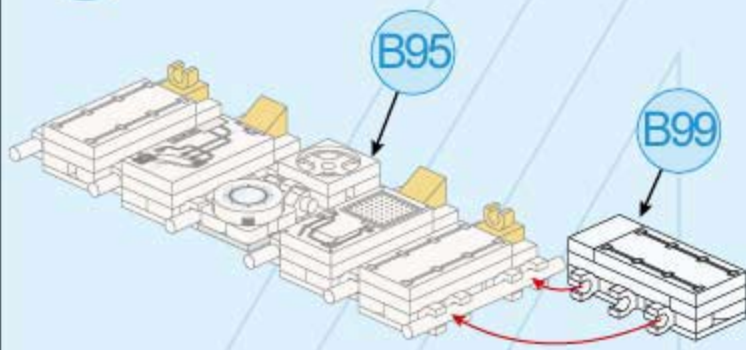
B98



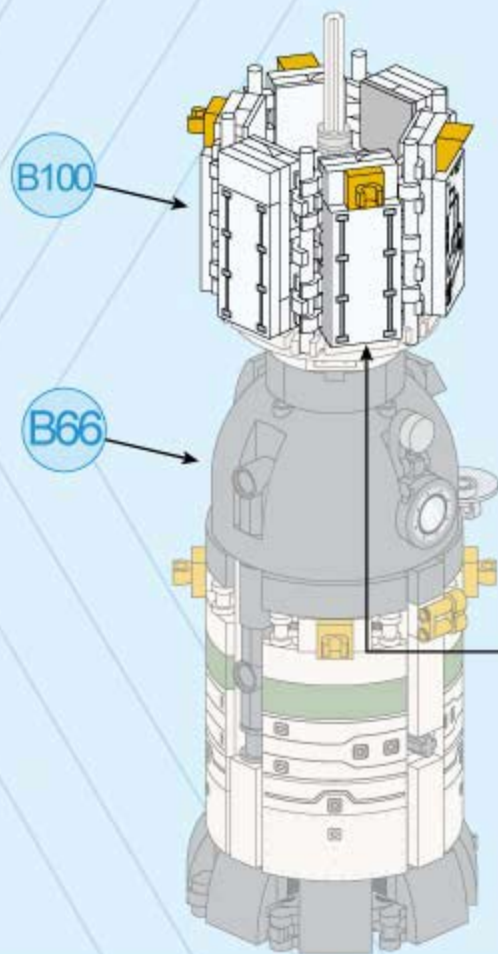
B99



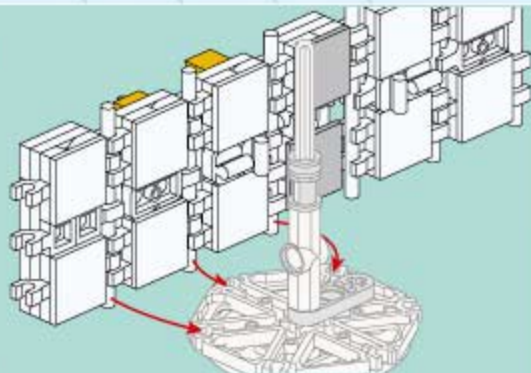
B100



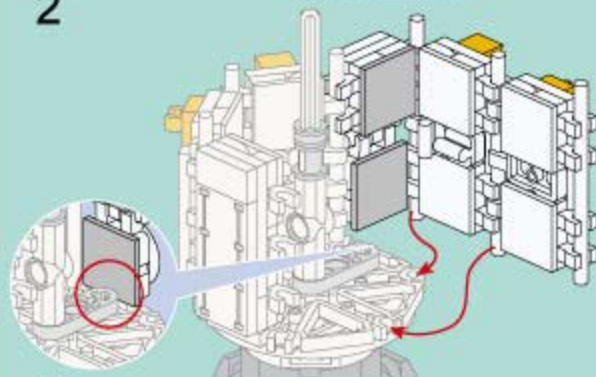
B101



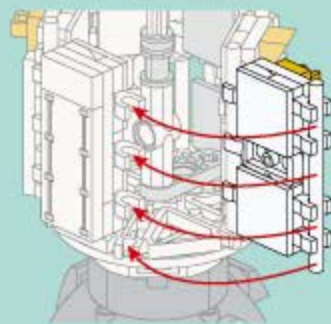
1



2



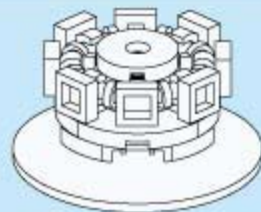
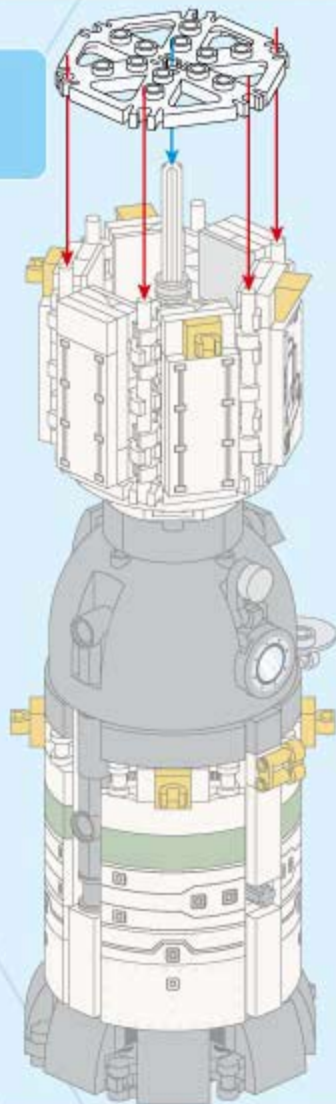
3



B102



1x



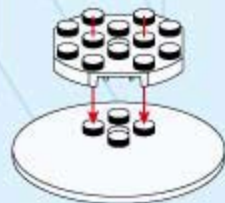
B103



1x



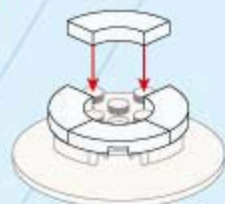
1x



B104



4x



B105



1x



B106



1x



1x



B107



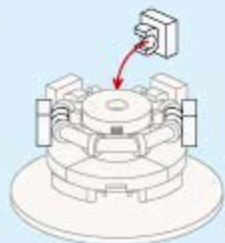
2x



B108



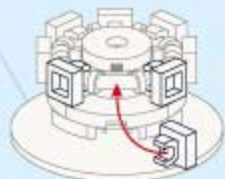
3x



B109



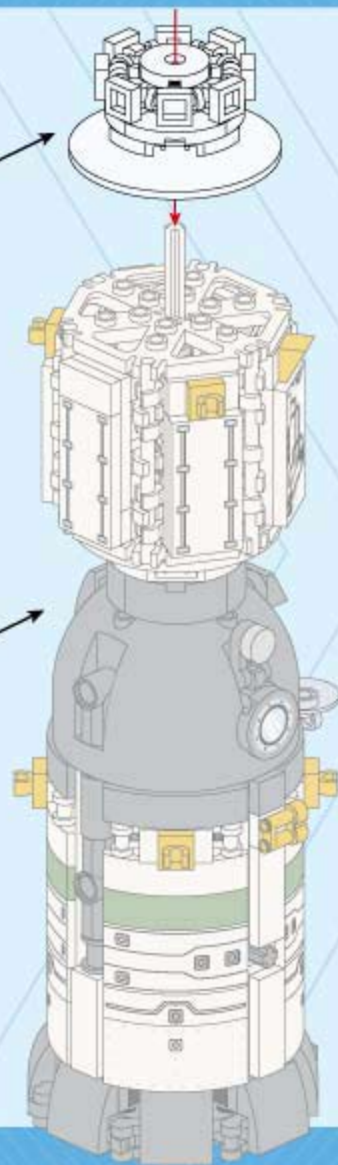
3x



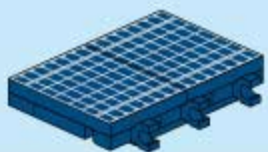
B110

B109

B102

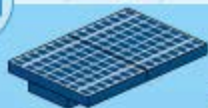






A 2x

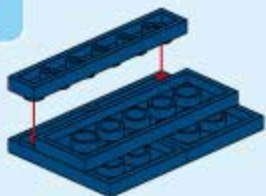
B111



1x



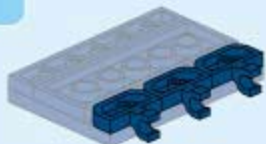
1x



B112



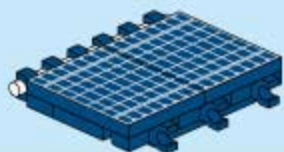
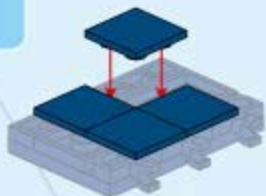
3x



B113

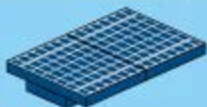


4x



B 4x

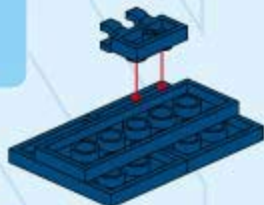
B114



1x



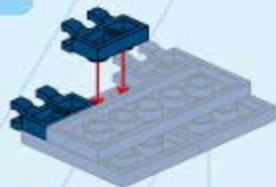
1x



B115



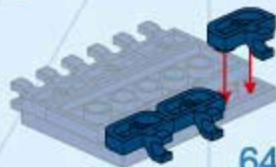
2x



B116



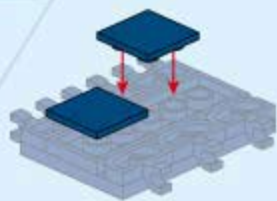
3x



B117



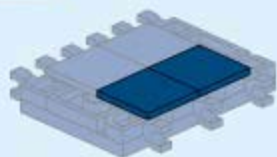
2x



B118



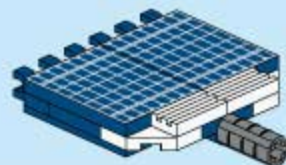
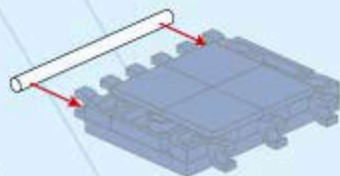
2x



B119

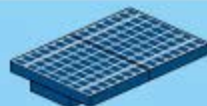


1x



© 2x

B120



1x



1x



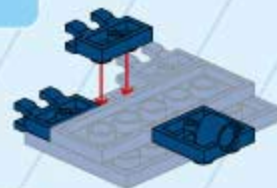
B121



2x



1x



B122

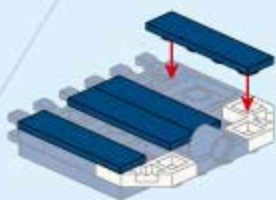


2x



B123

4x

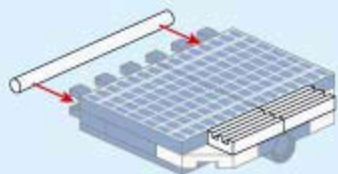


B124

1x

6

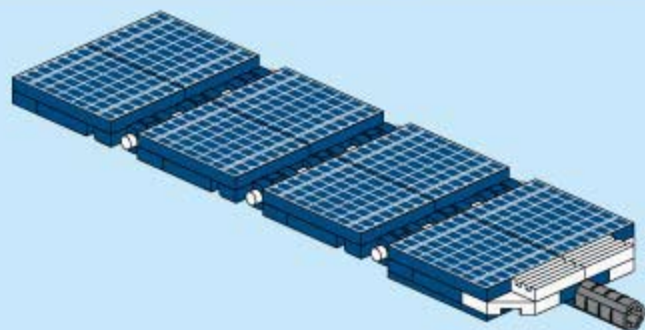
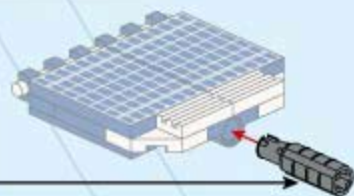
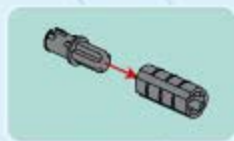
2x



B125

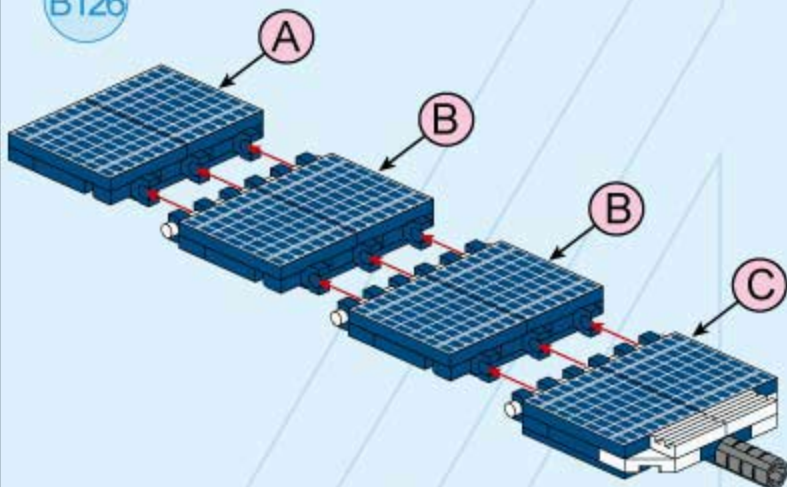
1x

1x

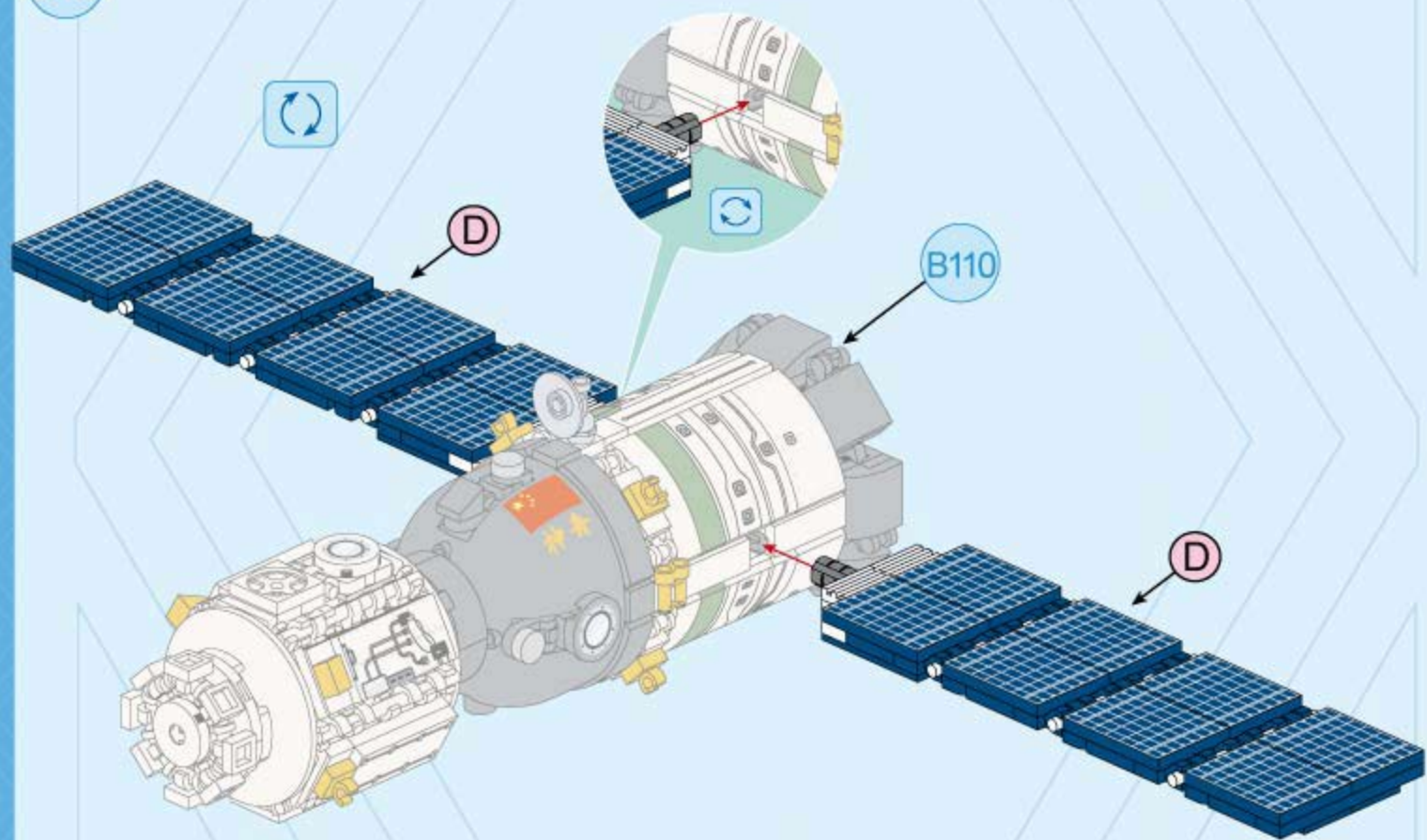


D 2x

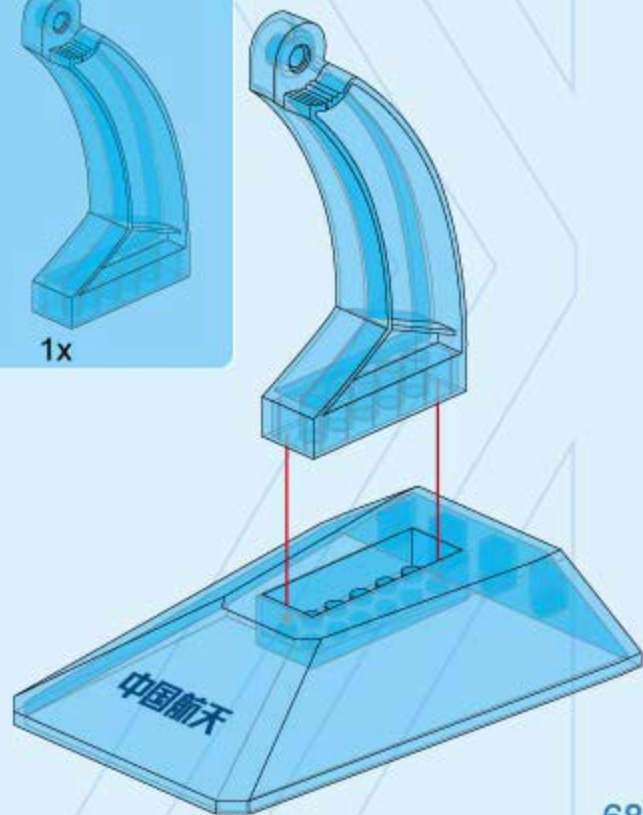
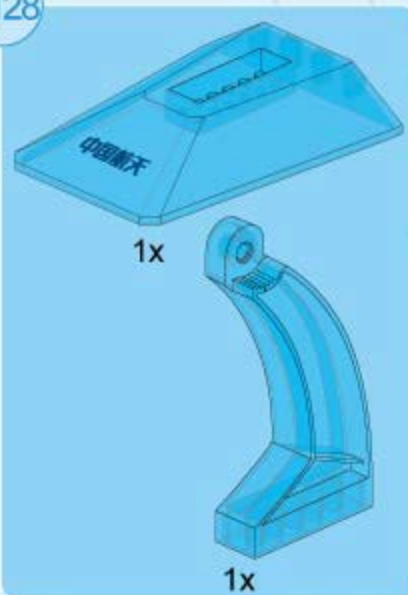
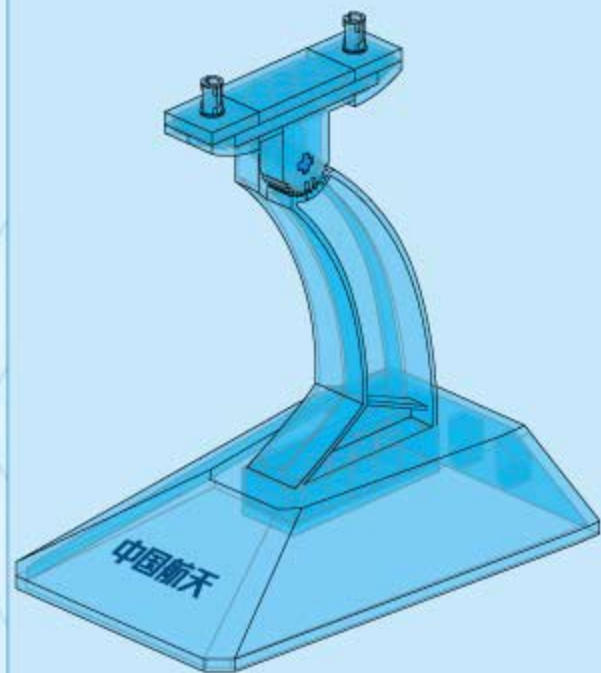
B126



B127



B128



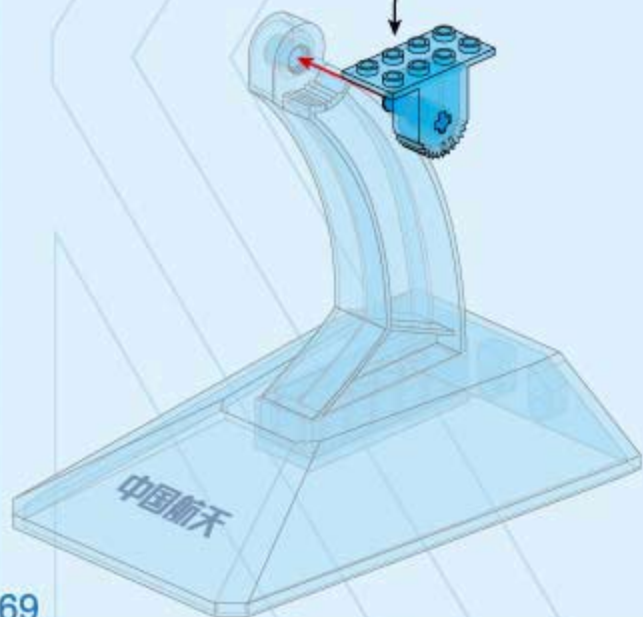
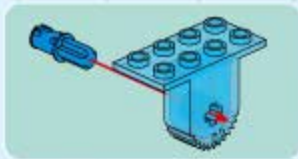
B129



1x



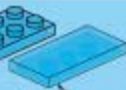
1x



B130



1x



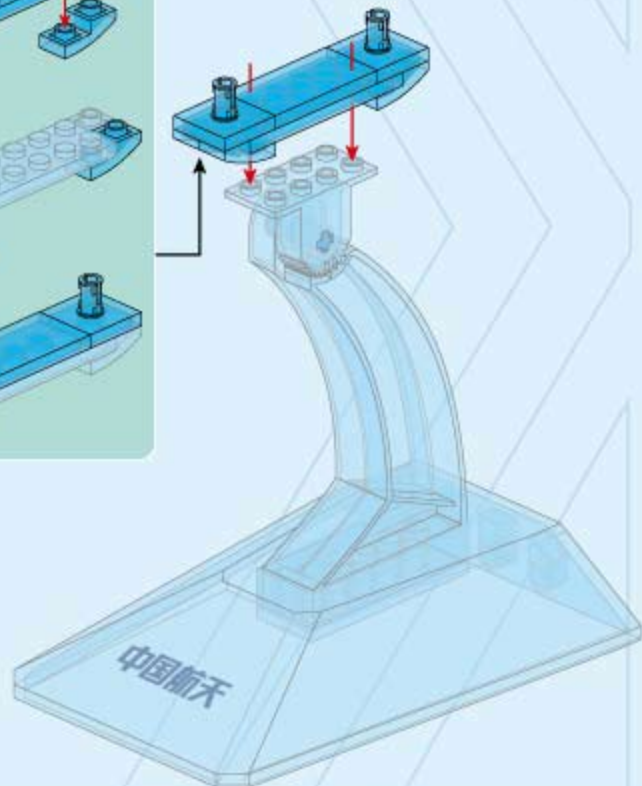
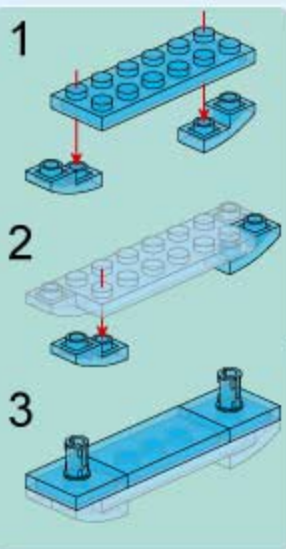
2x4



2x



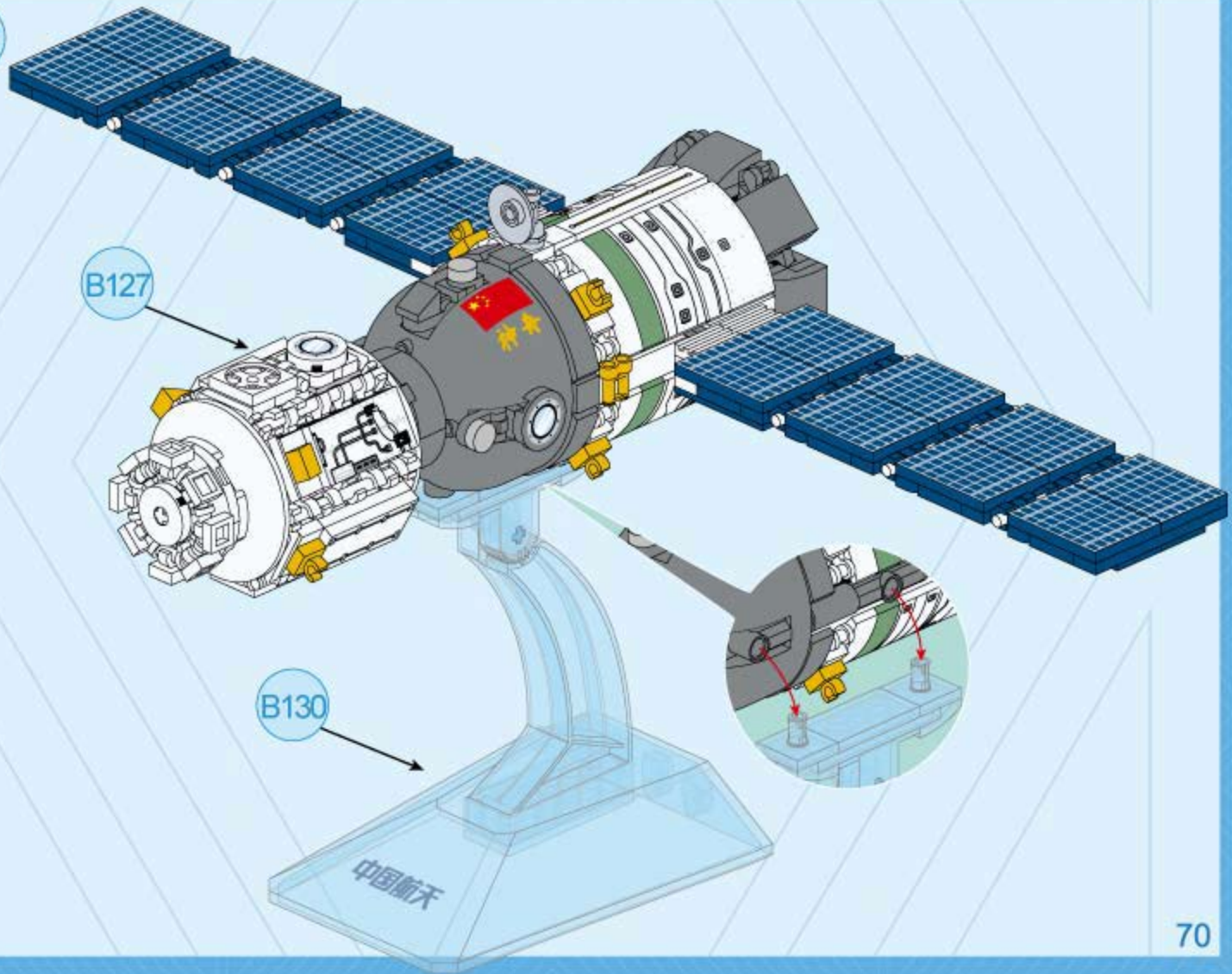
4x



B131

B127

B130



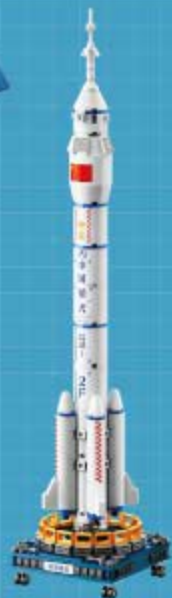
SERIES



K10209 出舱版航天员



K10210 天和核心舱-舱外活动



K10211 中国载人航天发射任务