



11382





LEGO.com/sustainable-packaging



FR

**DONNEZ
OU
RECYCLEZ**



OU

ASSOCIATION



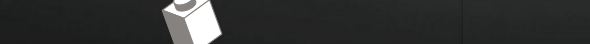
OU

MAGASIN



DÉCHÈTERIE

Adresses sur quefairedemesdechets.fr



BUILDER



LEGO.com/devicecheck

我们的宇宙之窗

罗马非一日之功，这部横跨138亿年的壮丽史诗，需要一代又一代人薪火相传，去钻研、感悟与探寻。然而，在过去数十年间，科技的突飞猛进助力我们更深入地洞悉宇宙的浩瀚疆域、起源奥秘与构成本质，也促使我们开始思索自身在时空坐标系中的定位。凭借数个世纪科学观测与技术进步的深厚底蕴，哈勃太空望远镜运行35余年来，为人类在宇宙探索征程中实现多项突破性发现立下赫赫功绩。



1995 年 11 月

鹰状云里那赫赫有名的“创生之柱”图像，将孕育恒星的气体与尘埃柱清晰地展现了出来。

制作组：美国国家航空航天局、欧洲航天局/哈勃望远镜、空间望远镜科学研究所、J. Hester 和 P. Scowen (亚利桑那州立大学)



2005 年 1 月

M51这个有着“漩涡星系”之称的宏伟螺旋星系，囊括了数千亿颗恒星，还拥有活跃的形成恒星的星云。

制作组：美国国家航空航天局、欧洲航天局、史蒂夫·贝克威思 (哈勃太空望远镜科学研究所) 和哈勃遗产团队 (哈勃太空望远镜科学研究所/大学天文研究协会)



2009 年 7 月

借助蝴蝶星云，我们能够洞悉即将消亡的恒星喷吐气体的过程，以及明亮星云的形成机制。

制作组：NASA、ESA 和哈勃 SM4 ERO 团队



乐高® Icons 设计团队寄语

哈勃太空望远镜凭借其捕捉到的震撼图像与海量数据，让宇宙的遥远边际仿佛近在咫尺。我们对它的历史意义才刚刚触及皮毛，未来它仍会持续鼓舞科学家，点燃公众的想象之火。我们想传承这份遗产。这款模型采用乐高®小人仔比例拼搭，不仅可以查看望远镜内部结构和相关仪器，也能重现、展示它当前开展任务的某些环节。每一个细节都真实地呈现在我们与NASA和ESA的优秀合作伙伴的合作中。在他们的帮助下，我们创建了一个结构坚固、细节丰富的模型——如太阳能电池板阵列的视觉演变。倒计时开始——准备好拼搭和探索吧！



很棒的 合作伙伴关系

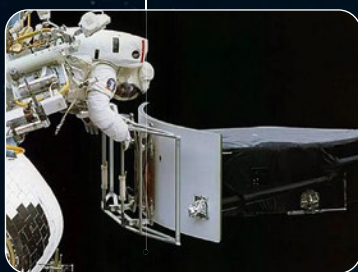
在持续的合作关系中，NASA 和 ESA 汇集资源和资金，共同推进哈勃计划，以彻底改变天文学。两者共享研究成果，观测时间完全由国际专家组根据科学价值分配。ESA 保证获得 15% 的访问权限，并且通常能达到近 25%。哈勃太空望远镜在拼搭时就配备了扶手和可更换部件，以便在轨道上进行维修。从 1993 年到 2009 年，美国宇航局和欧洲航天局的宇航员执行了多次维修任务，以进行重大升级和维修。

1987 1988 1989 **1990** 1991 1992 **1993** 1994 1995 1996 **1997** 1998



1990 年 4 月 24 日-29 日

发射——发现号航天飞机将哈勃太空望远镜送入太空。



1993 年 12 月 2 日-13 日

SM1 - 对哈勃望远镜进行升级后，技术人员修正了其主镜的一处缺陷，进而解决了望远镜其他仪器存在的球面像差问题。

1997 年 2 月 11 日-21 日

SM2 - 扩展了哈勃望远镜可见的波长范围，配备了新的空间望远镜成像光谱仪 (STIS) 和近红外相机及多目标光谱仪 (NICMOS)。



1999

2000

2001

2002

2003

2004

2005

2006

2007

2008

2009

2010



1999年12月19日-27日

SM3A——哈勃望远镜的第四个陀螺仪出现故障，导致它被迫进入安全模式。美国与欧洲的SM3A机组人员携手合作，分两个阶段开展任务，成功让飞机恢复了运行。



2002年3月1日-12日

SM3B - 两块全新的太阳能电池阵列板完成安装，作为哈勃最后一台原始设备的暗弱天体相机，也被高级巡天相机 (ACS) 取而代之。

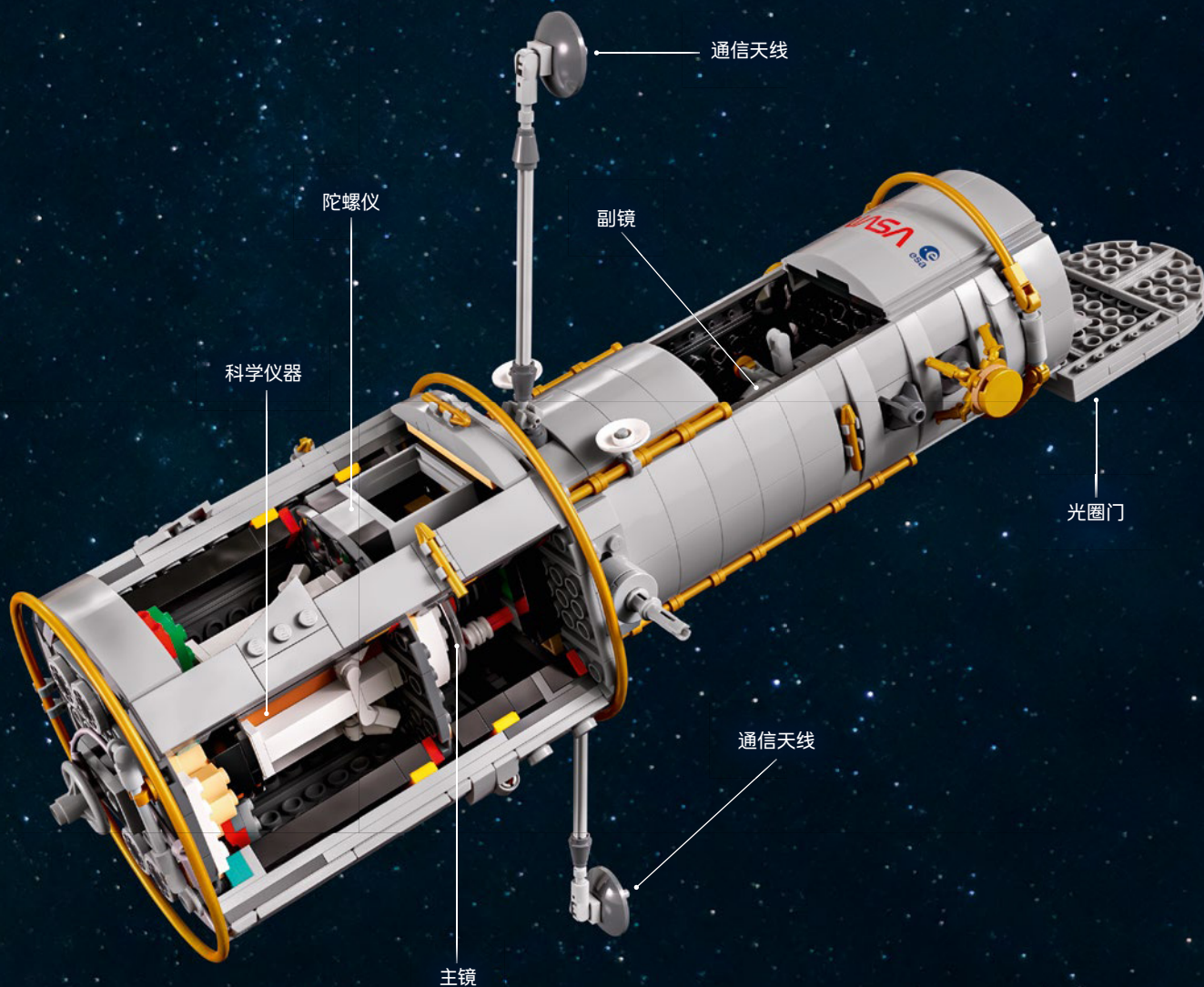


2009年5月11日-24日

SM4 - 安装了宇宙起源光谱仪 (COS) 和广域相机 3 (WFC3)、翻新的精细导星传感器以及与哈勃对接的装置。

探索你的模型

我们与 NASA 和 ESA 的合作伙伴紧密合作，从里到外都重现了真实的工程细节。模型中的每个部分都对应于帮助我们发现有关宇宙的非凡新信息的真实仪器。





太空望远镜影像摄谱仪 (STIS)
宇宙起源频谱仪 (COS)
巡天照相机 (ACS)
近红外线照相机和多目标分光仪 (NICMOS)



陀螺仪

精细导星传感器 (FGS)



广角相机

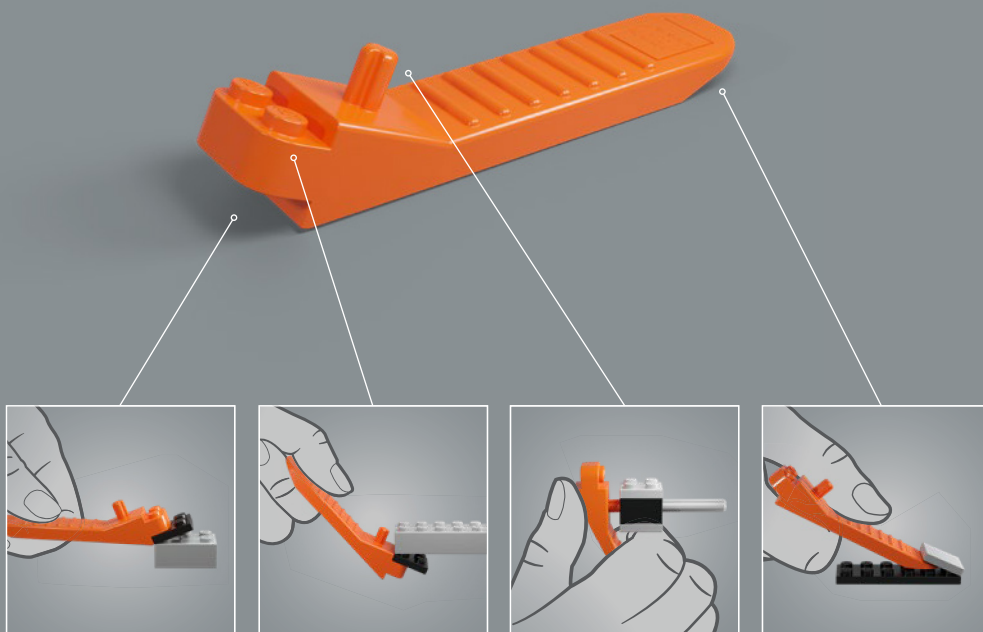
主镜

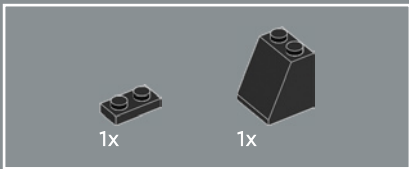


中央
遮光罩

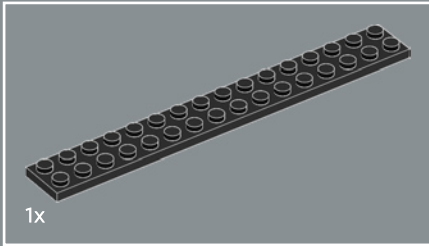
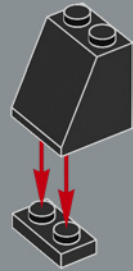
副镜



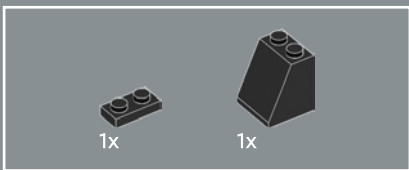
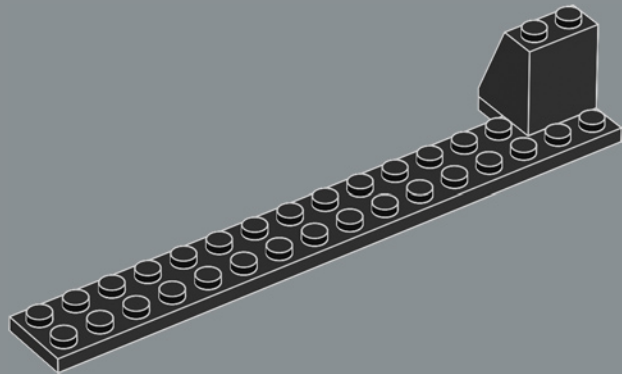




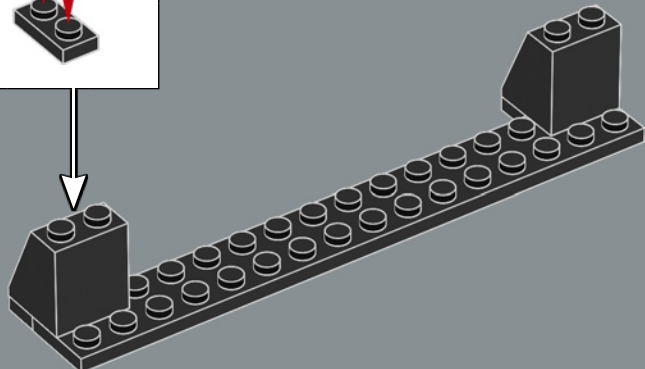
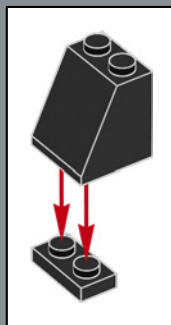
1

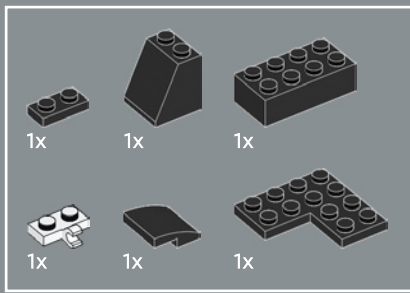


2



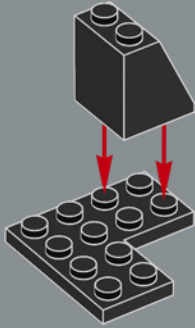
3



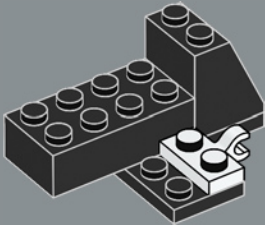


4

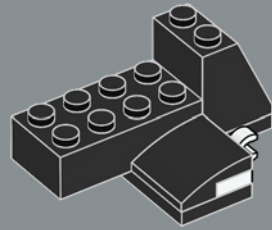
1



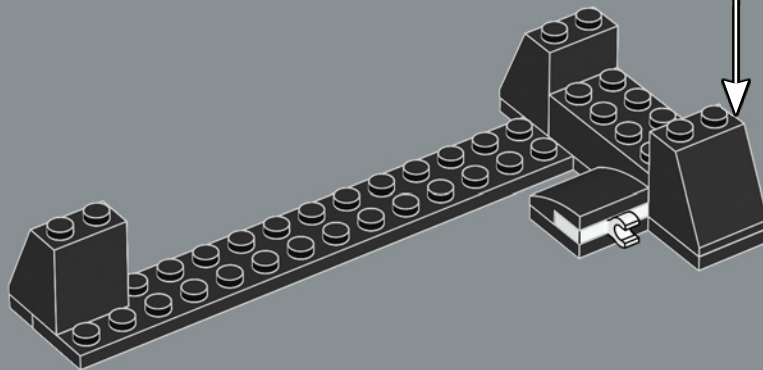
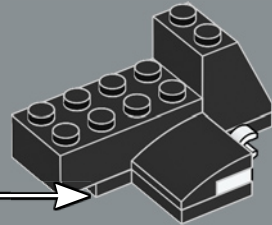
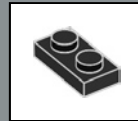
2

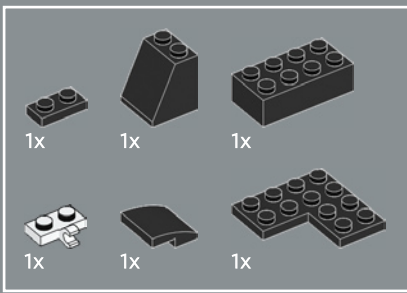


3

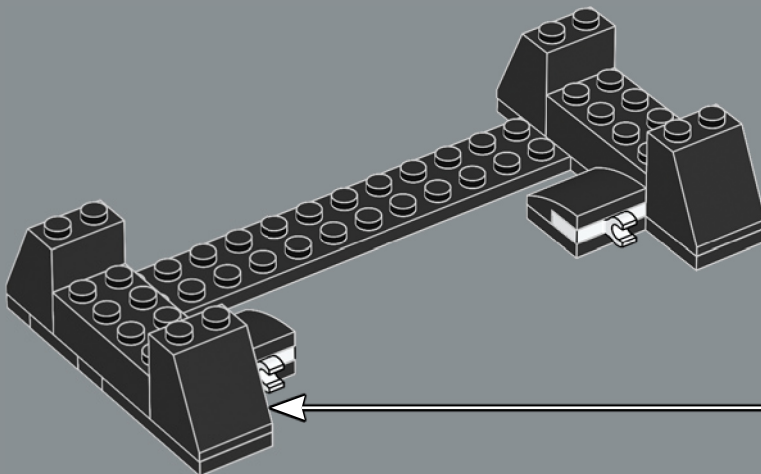
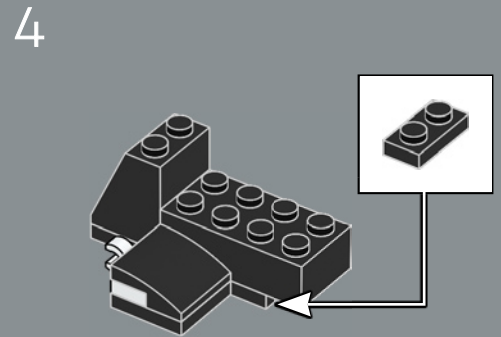
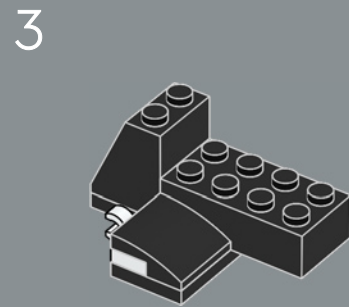
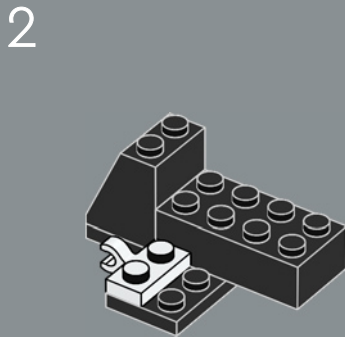
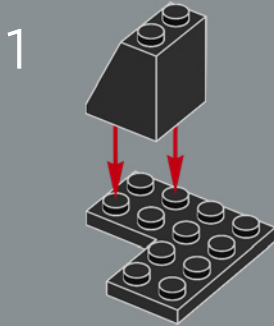


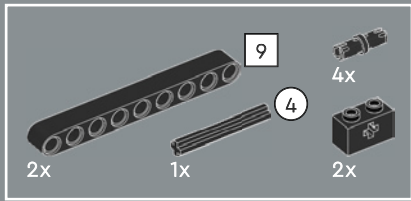
4





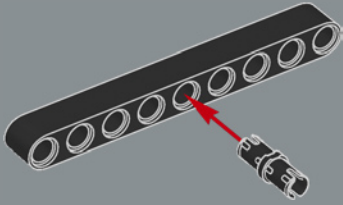
5



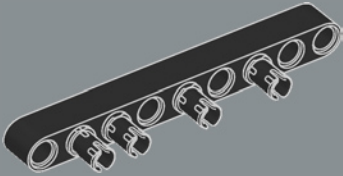


6

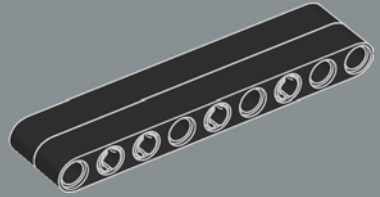
1



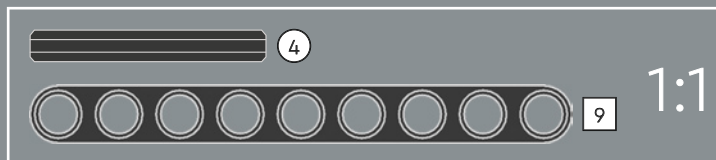
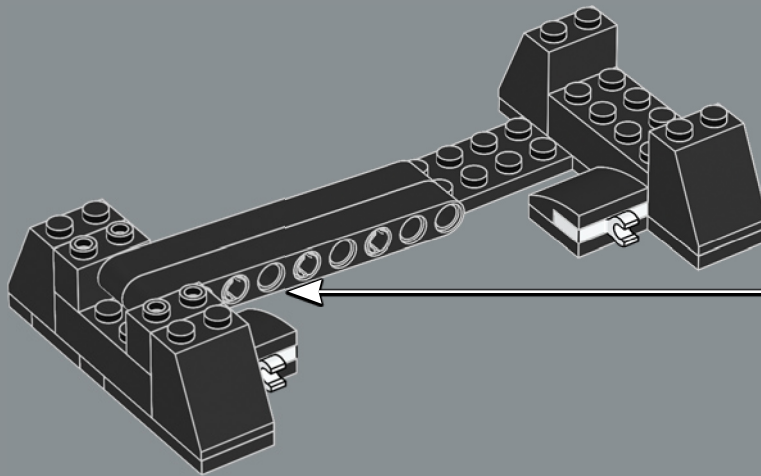
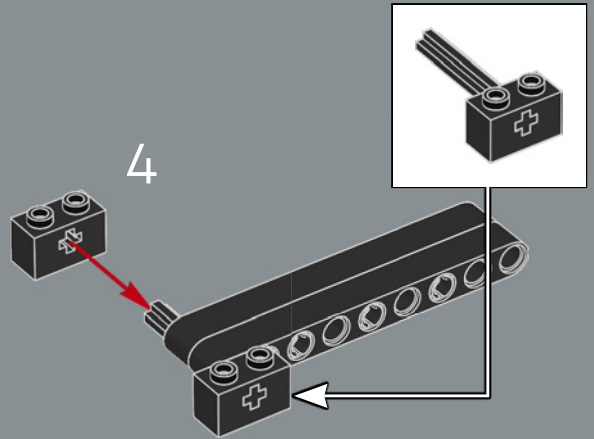
2

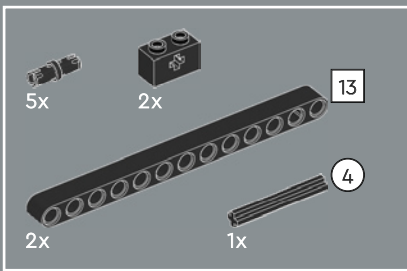


3



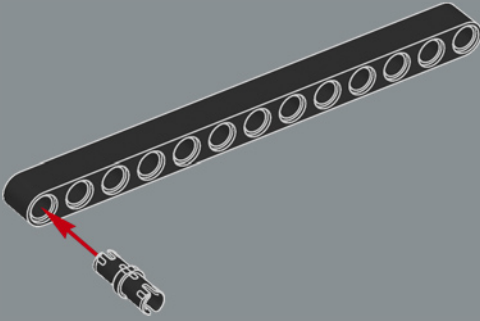
4



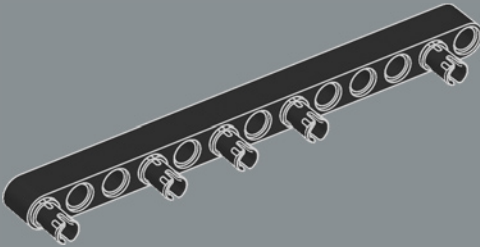


7

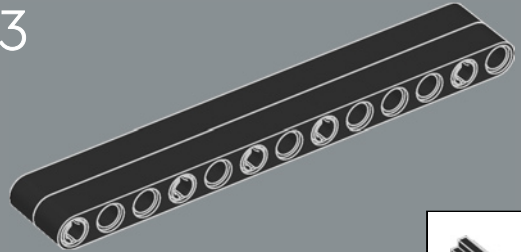
1



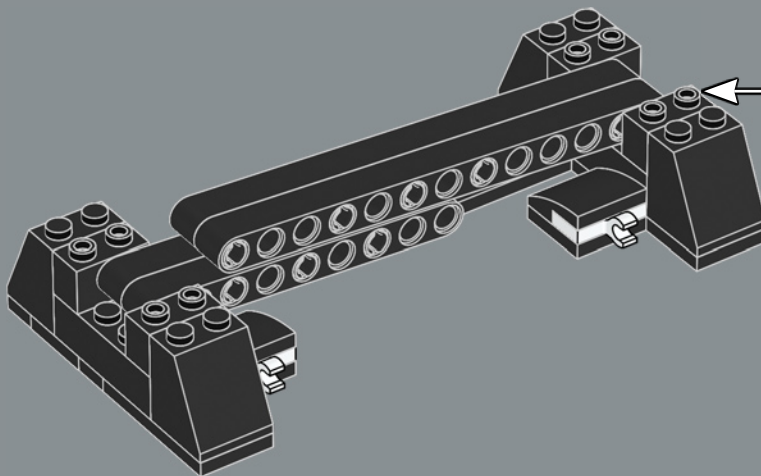
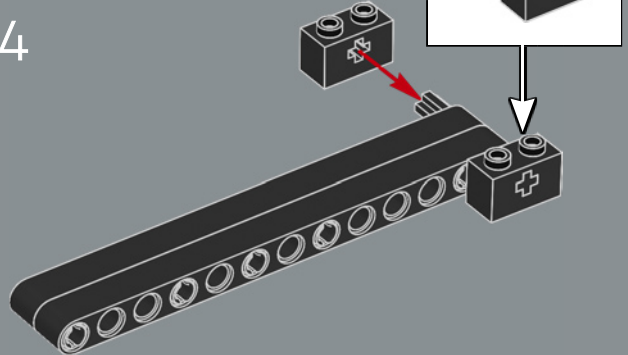
2

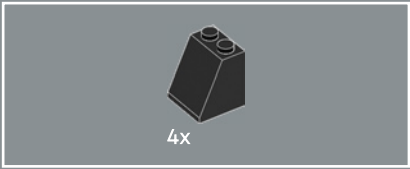


3

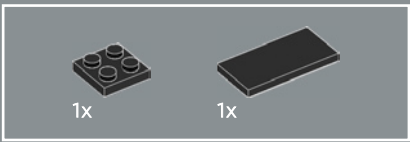
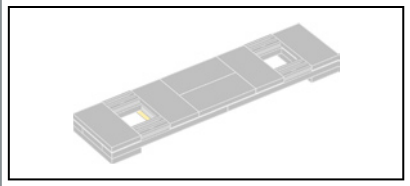
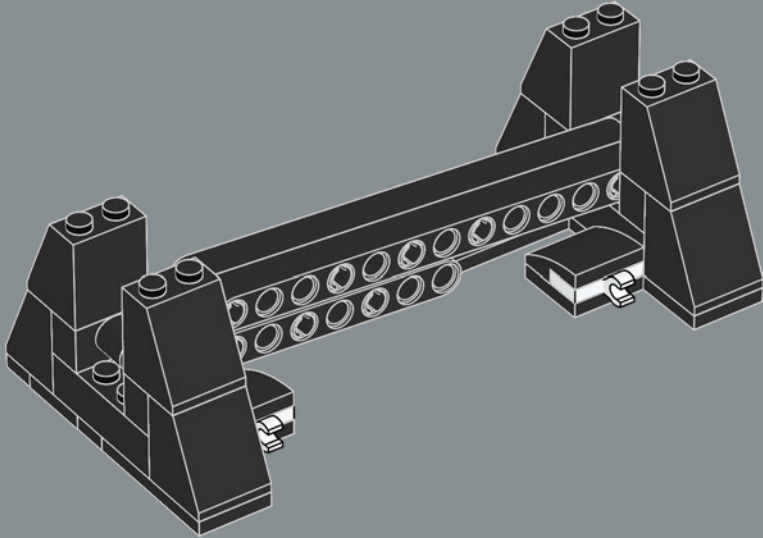


4

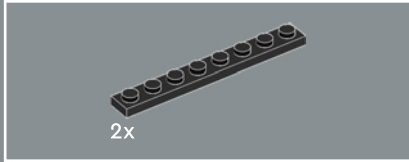
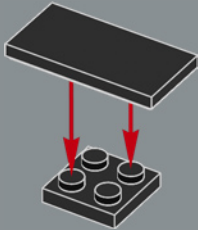




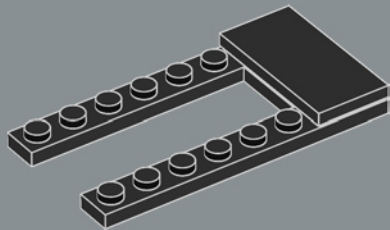
8

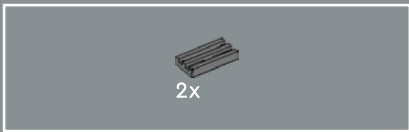


9

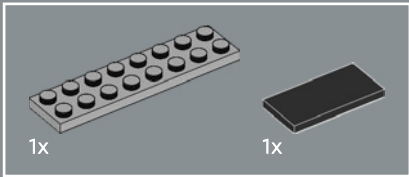
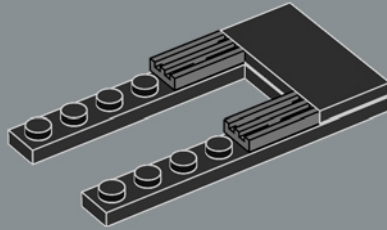


10

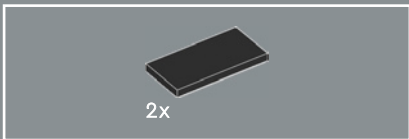
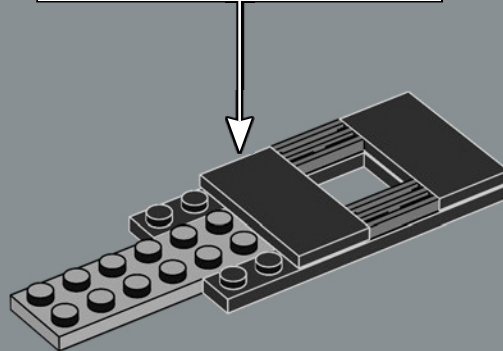
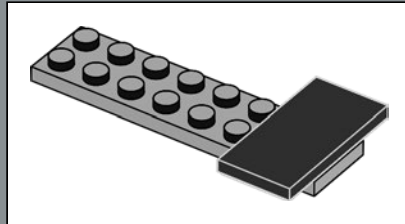




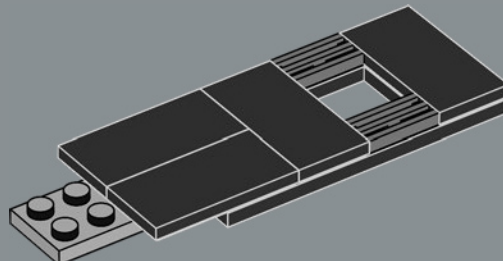
11

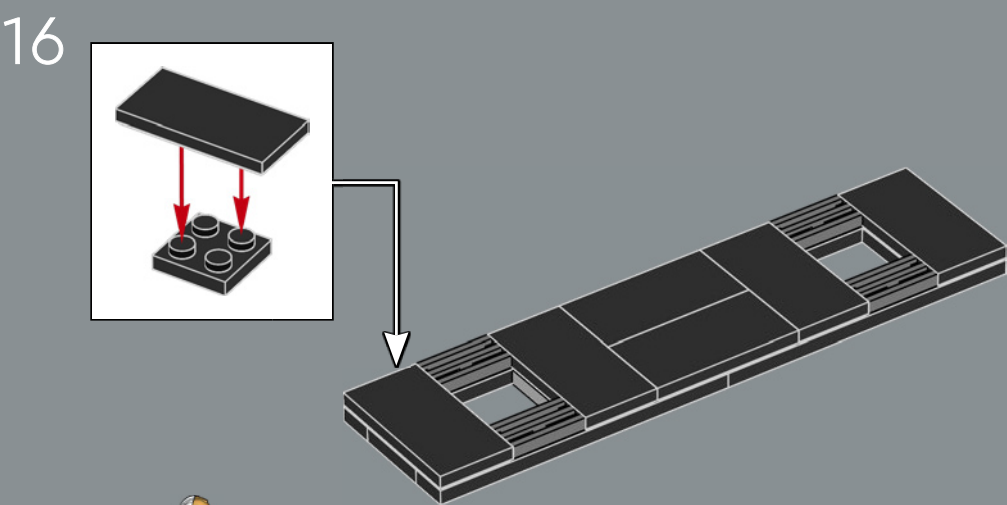
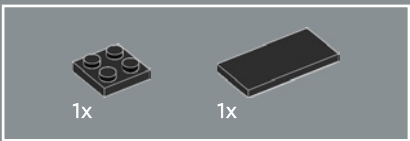
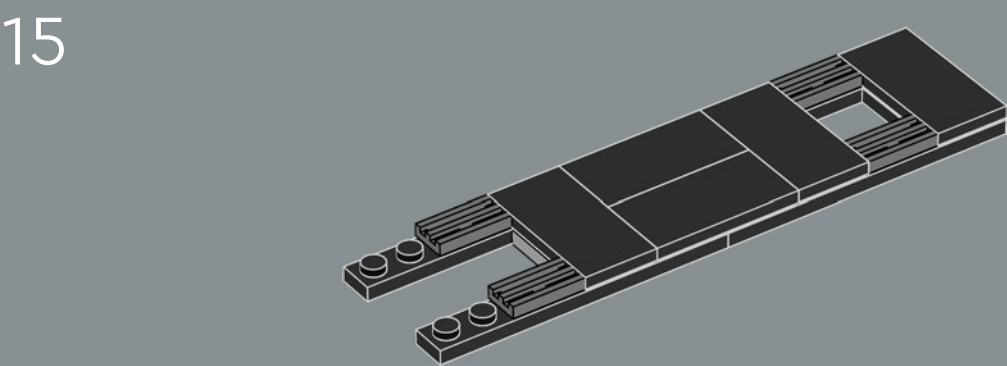
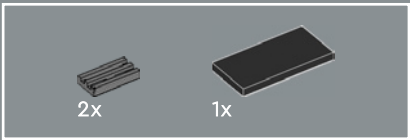
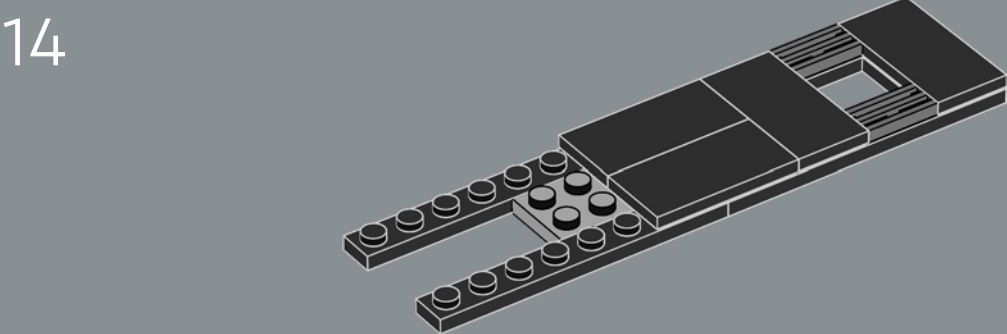
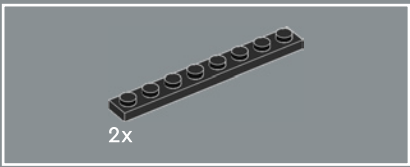


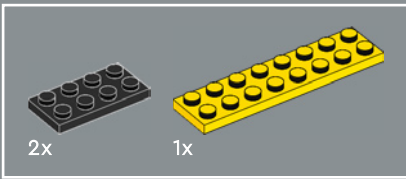
12



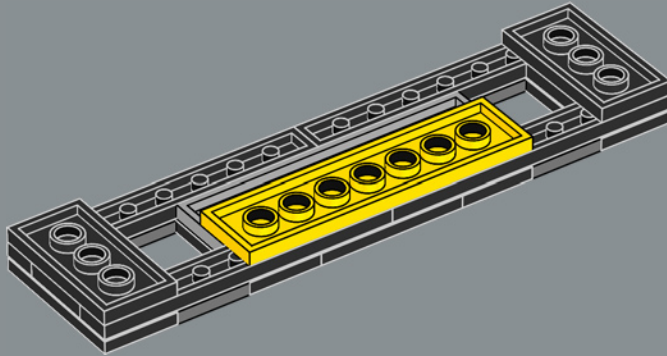
13



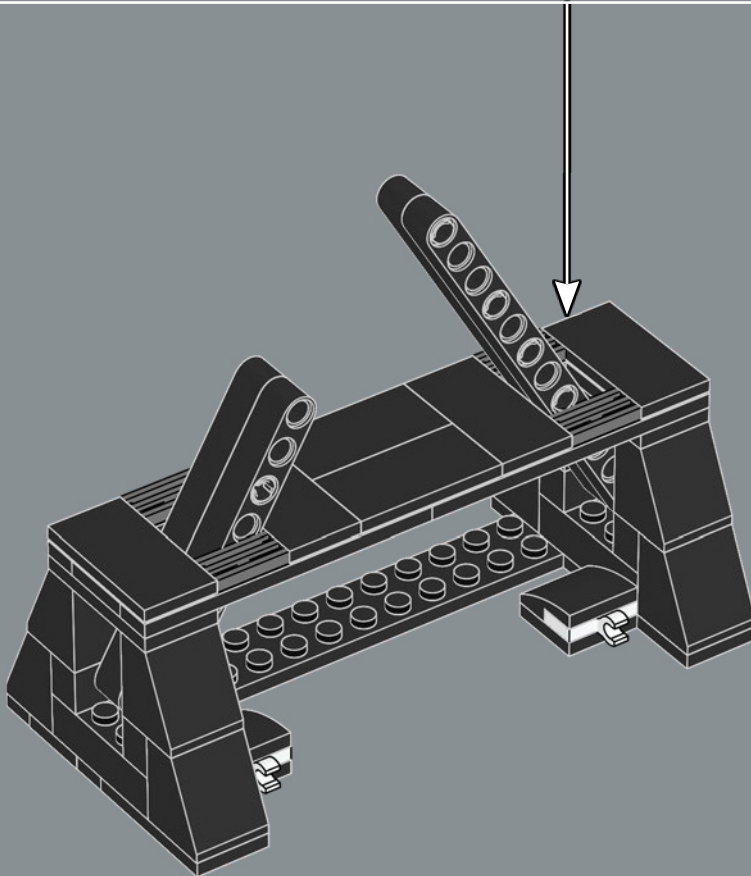


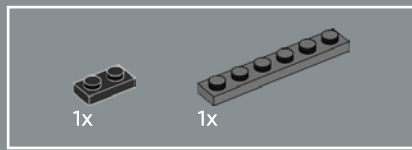


17

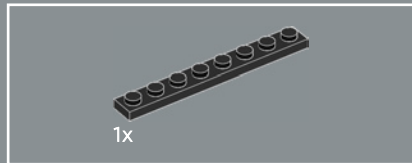
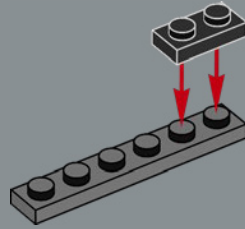


18

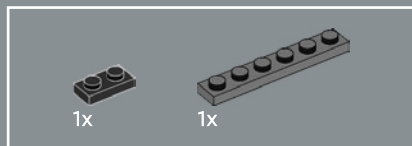
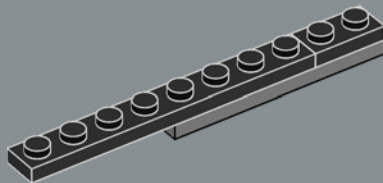




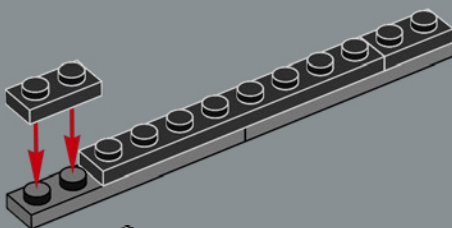
19



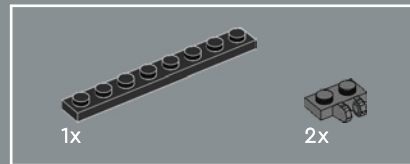
20



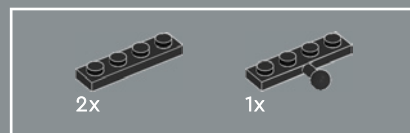
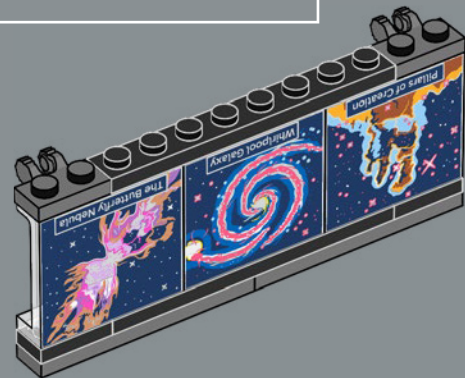
21



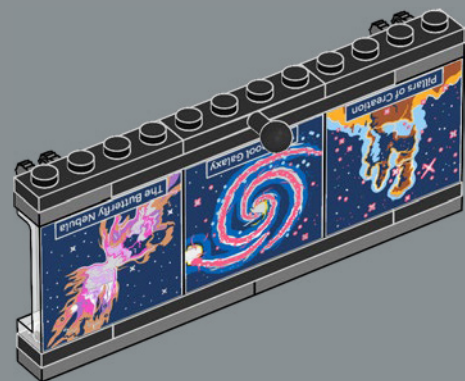
22



23



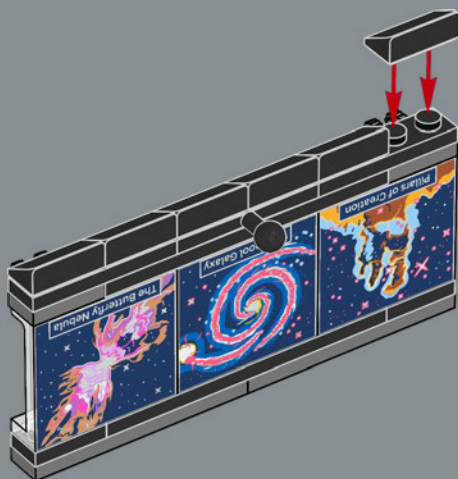
24



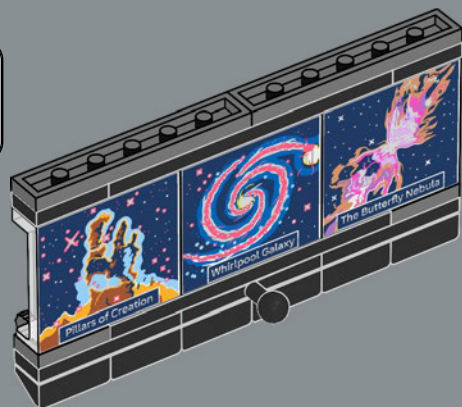


6x

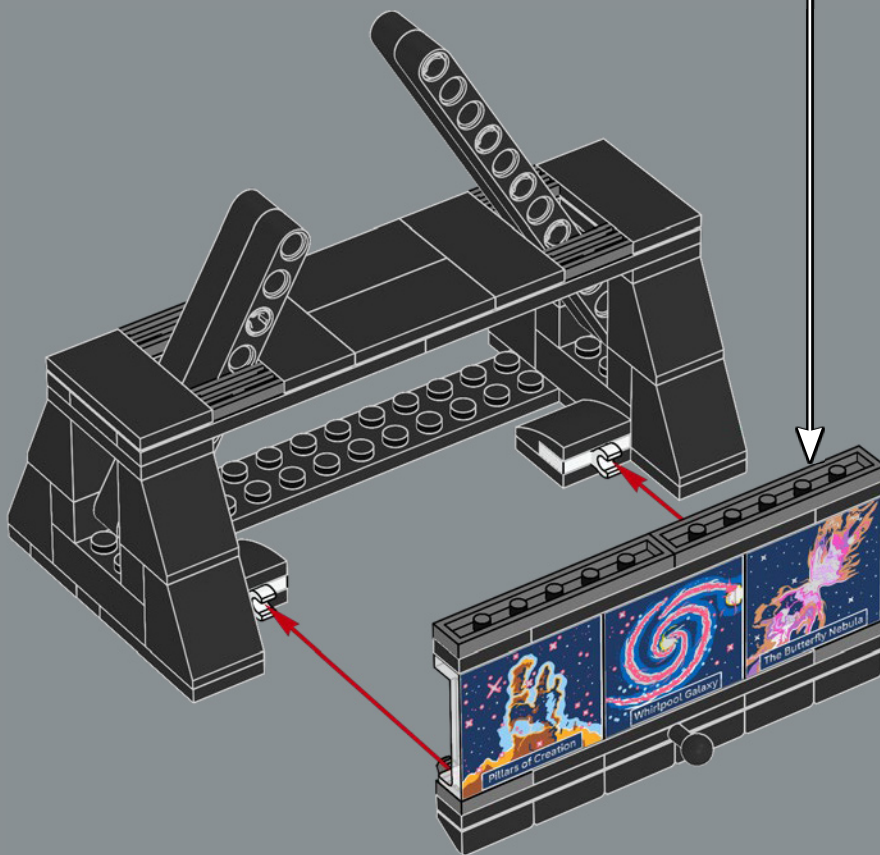
25



26

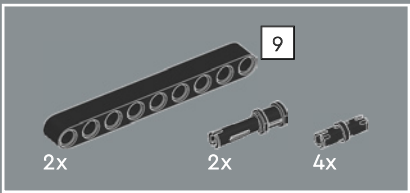


27

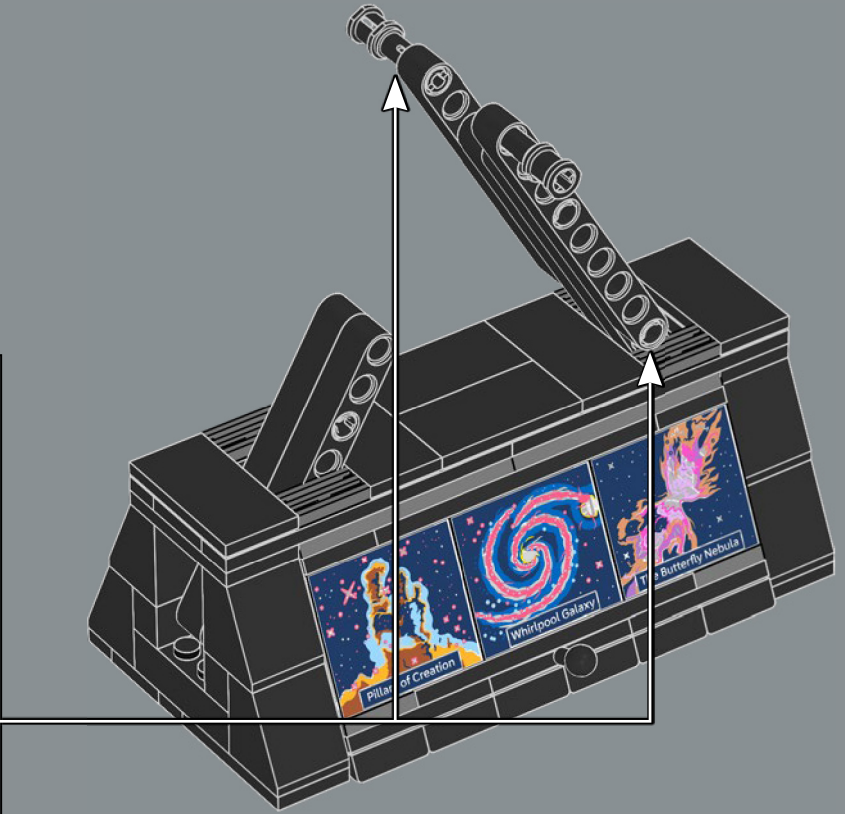
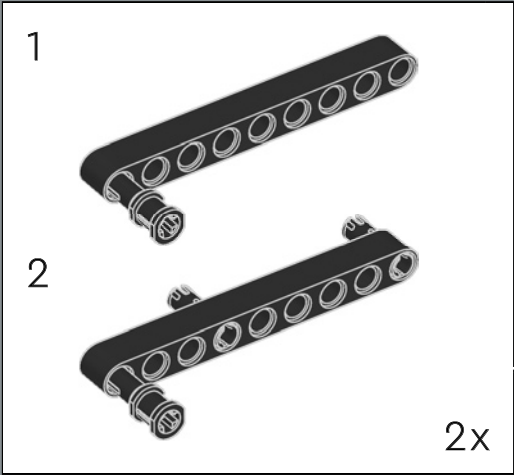


凭借那些闻名于世的深空图像，哈勃望远镜的观测能力远超以往任何望远镜，既能看得更远，也能追溯更遥远的宇宙过去。

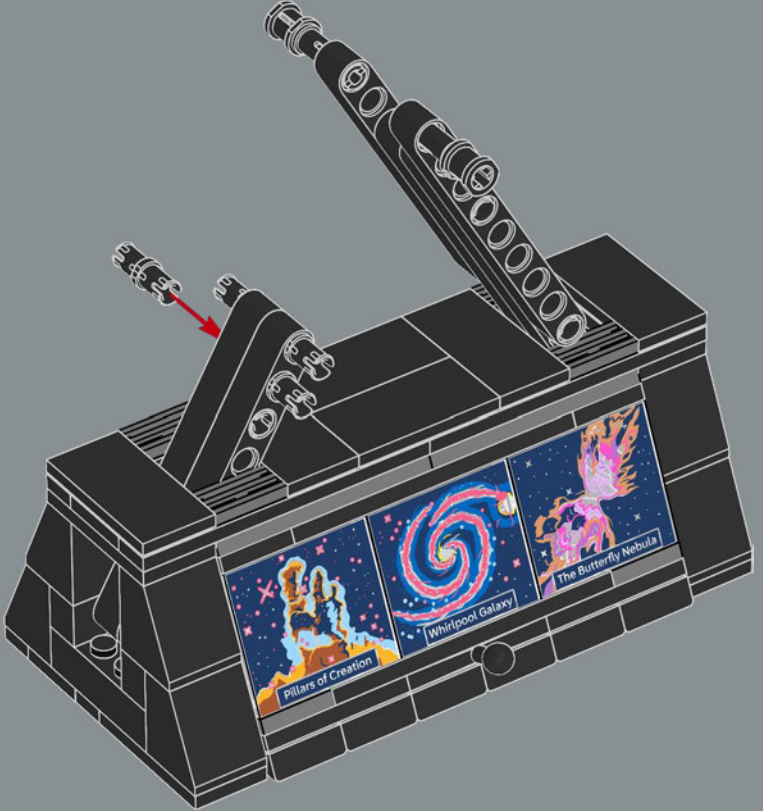


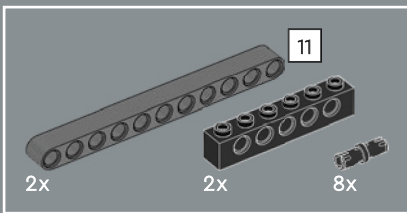


28



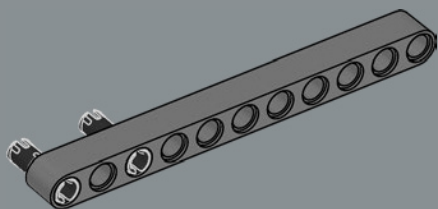
29



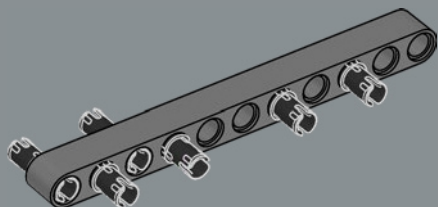


30

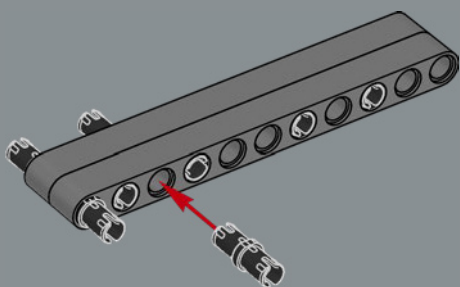
1



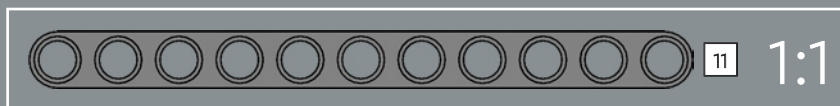
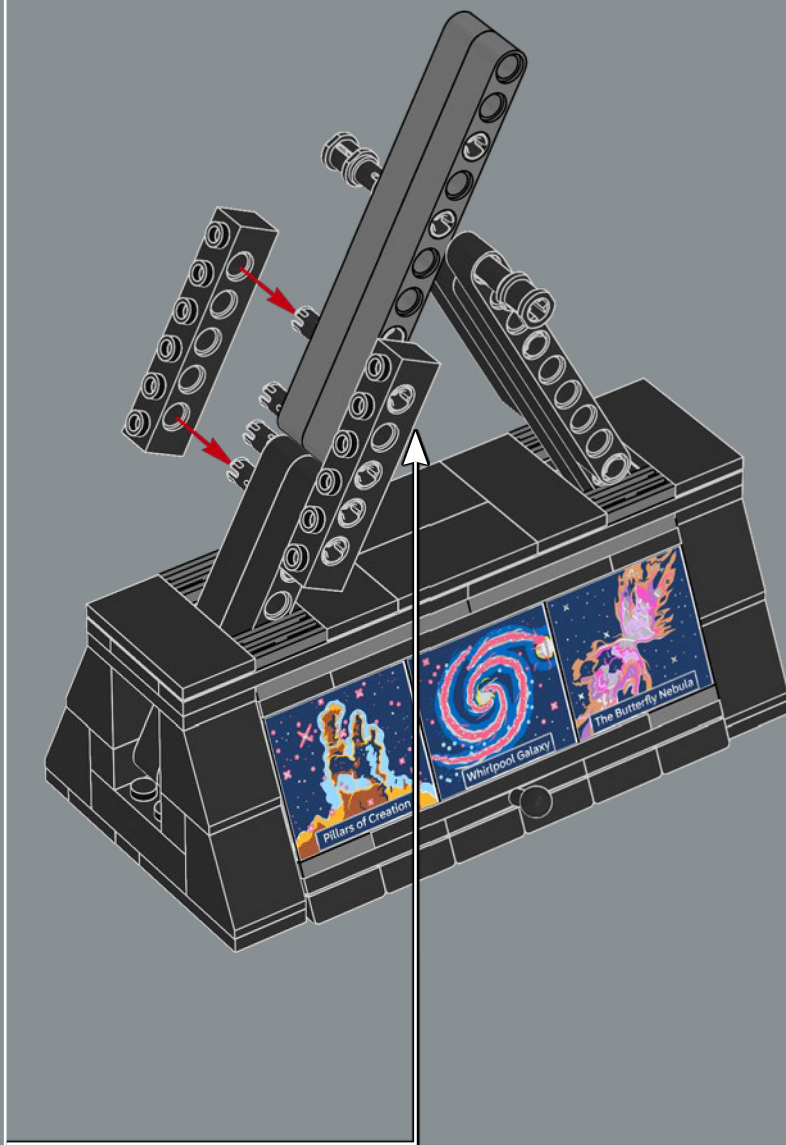
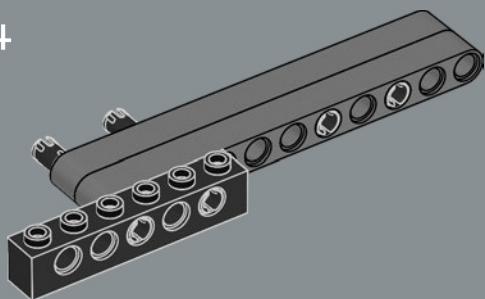
2



3



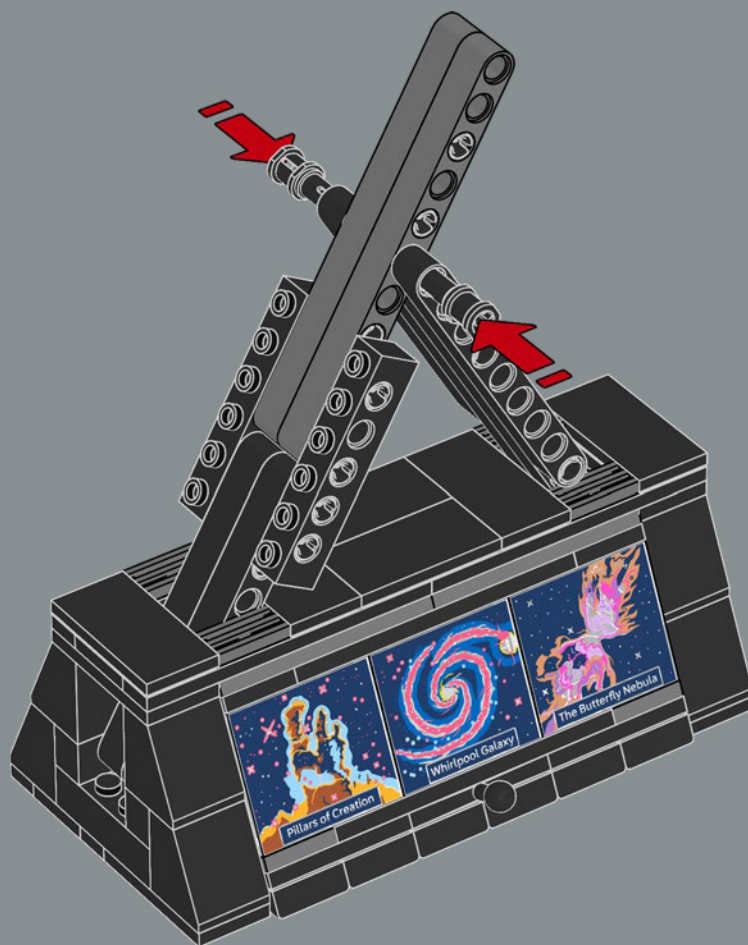
4

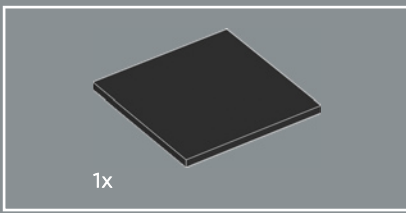


自 1990 年以来，哈勃太空望远镜已记录了超过 170 万次观测，
并收集了超过 1.08 亿个天文物体的数据。

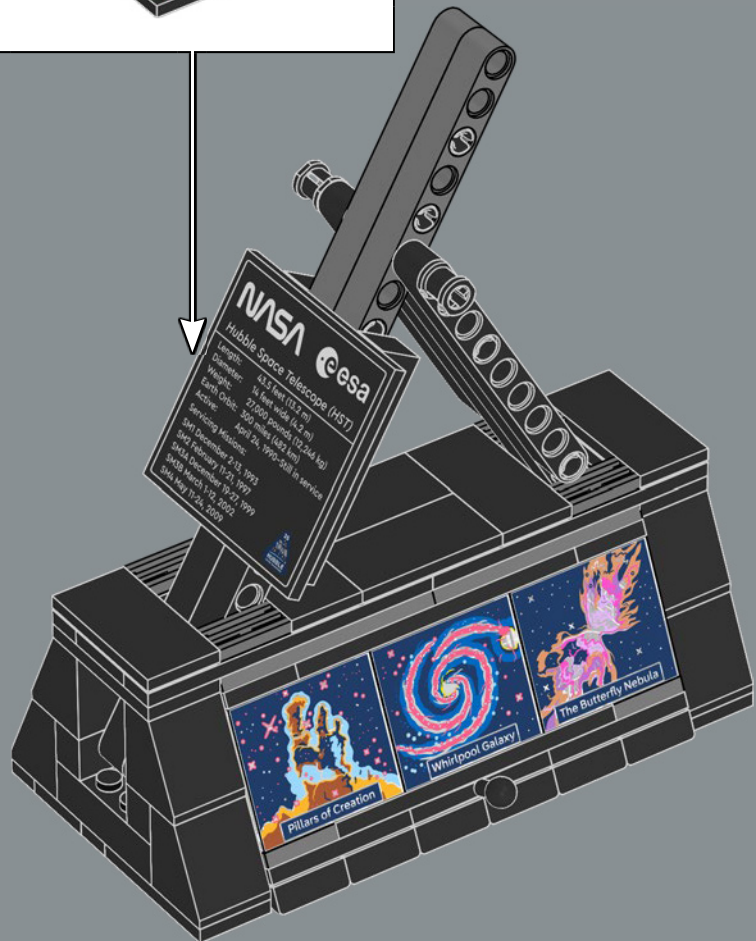
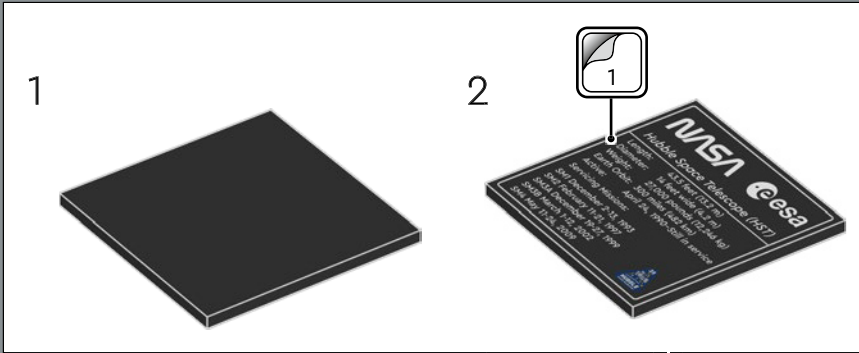


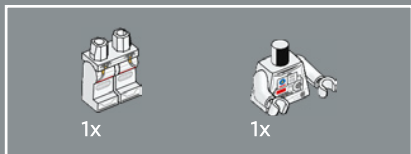
31





32

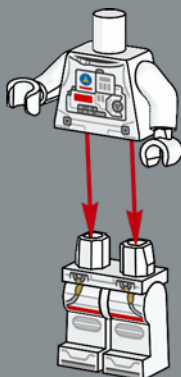




即使在轨道上运行超过 35 年，哈勃望远镜仍然不断带来突破性的科学发现，并启发了詹姆斯·韦伯空间望远镜等其他望远镜的研制。

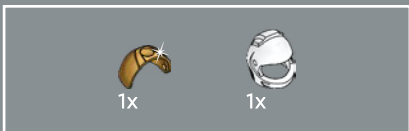
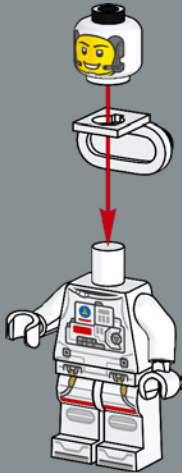


33

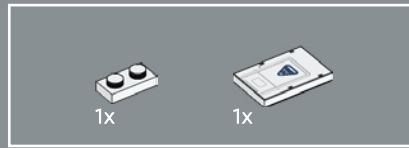
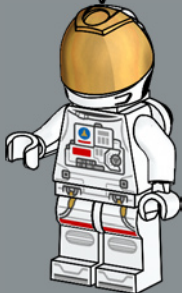
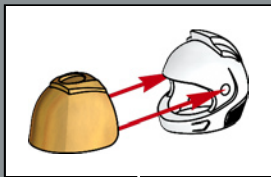




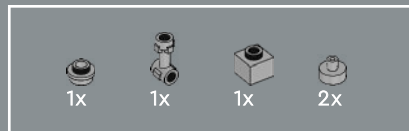
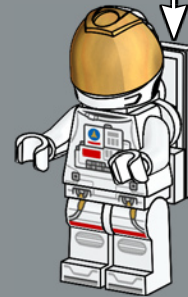
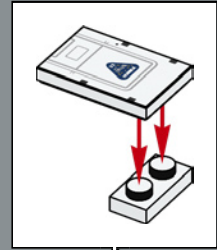
34



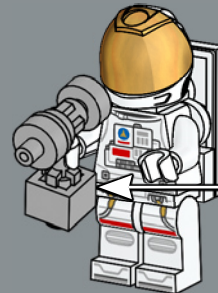
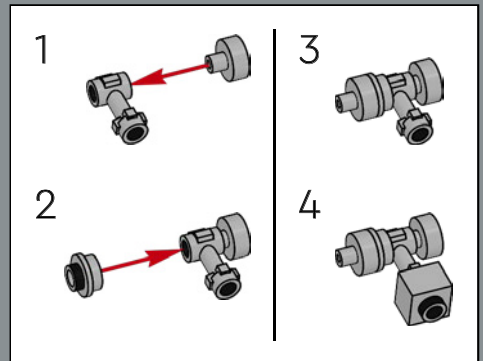
35

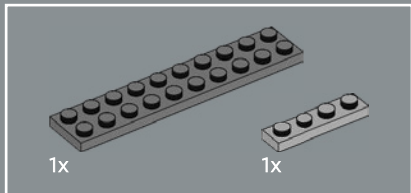


36

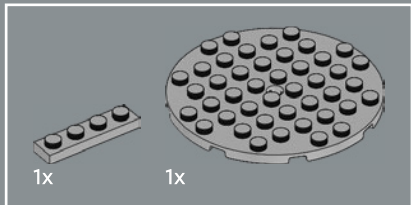
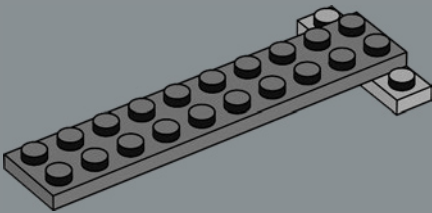


37

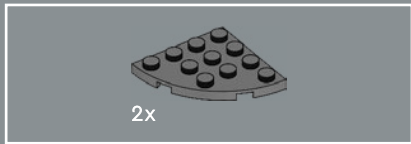
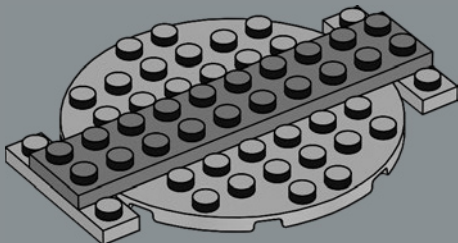




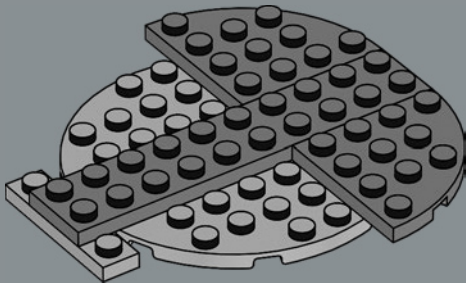
38

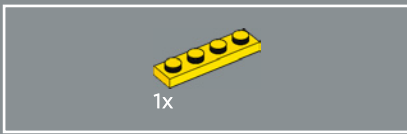


39

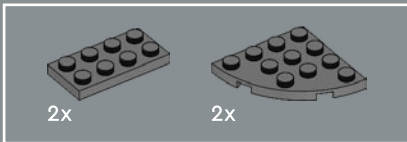
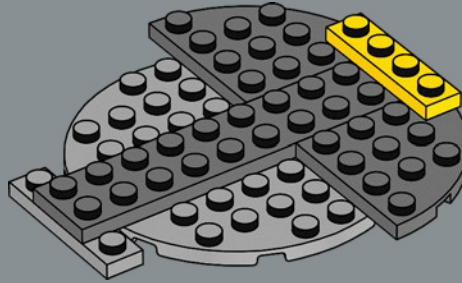


40

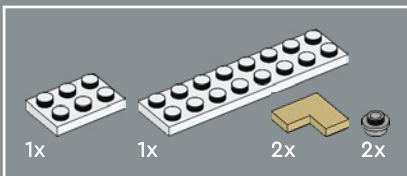
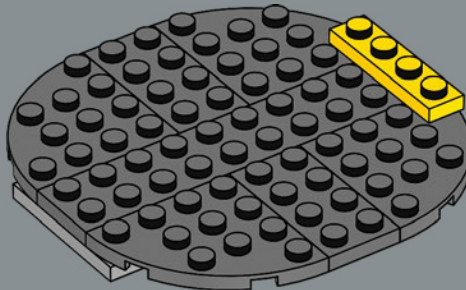




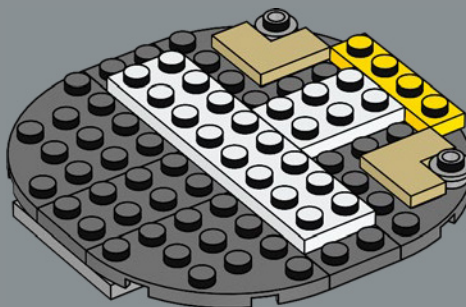
41

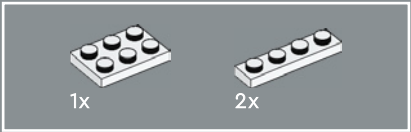


42

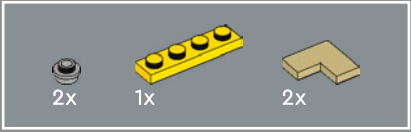
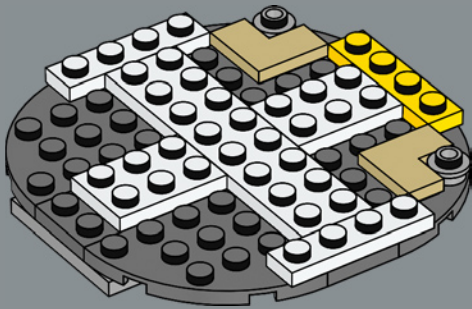


43

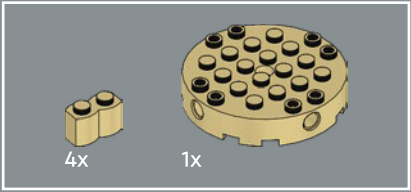
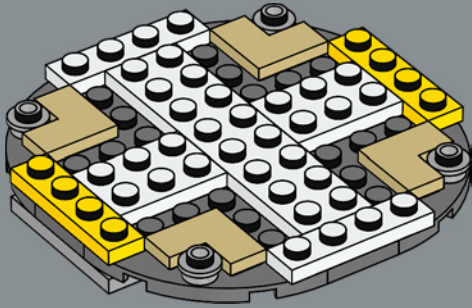




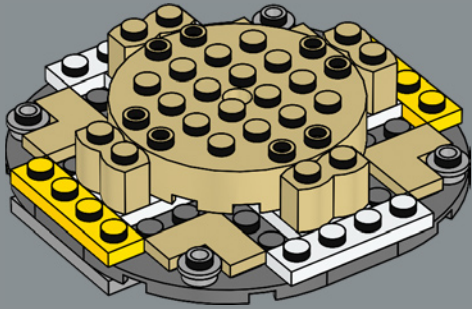
44

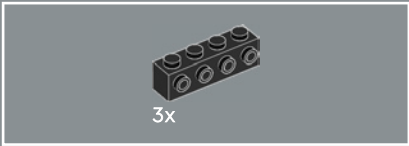


45

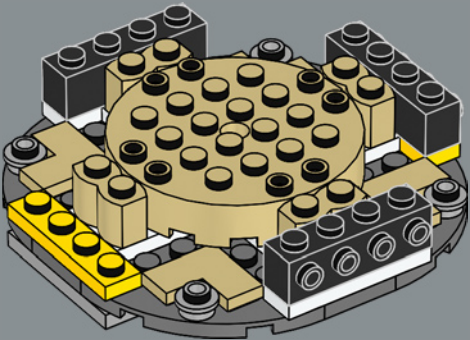


46

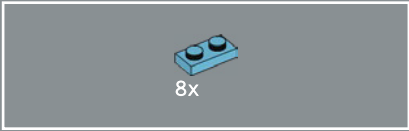
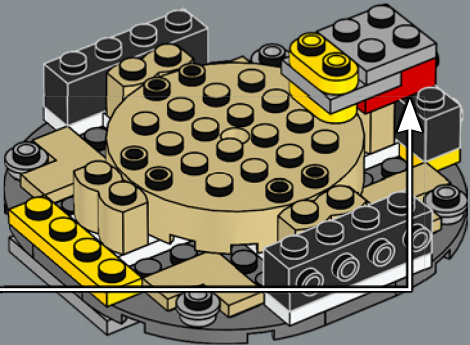
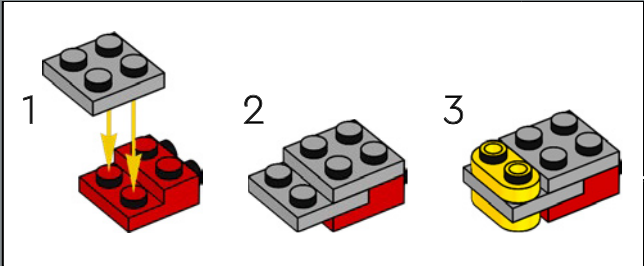




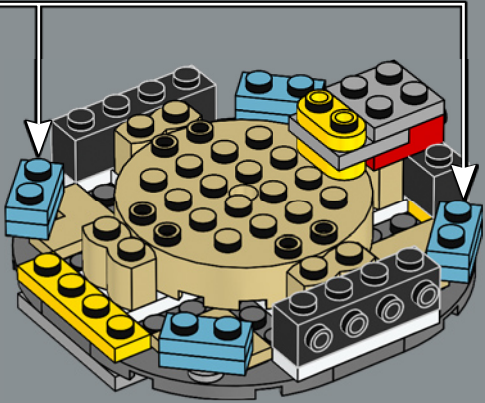
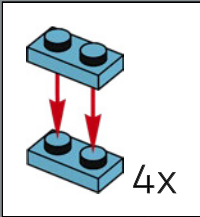
47

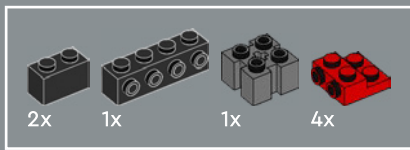


48

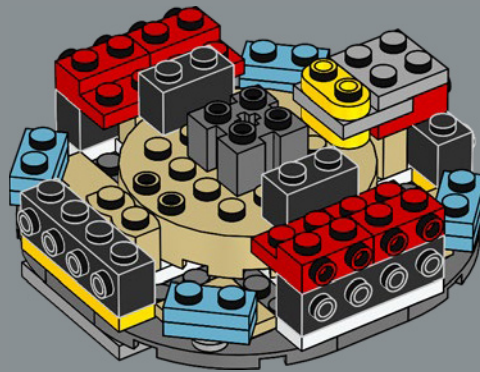


49

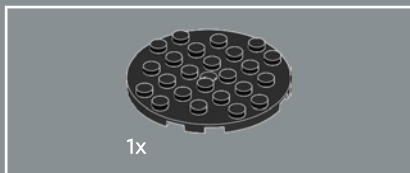
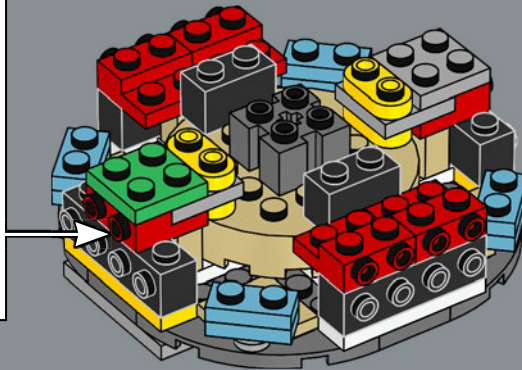
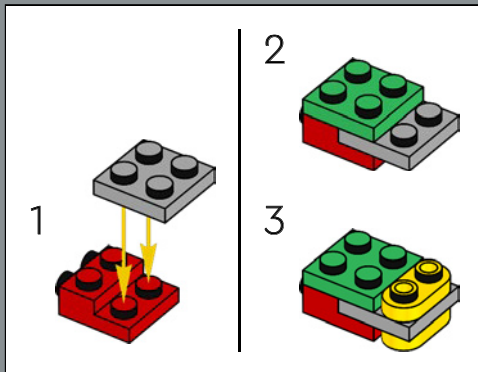




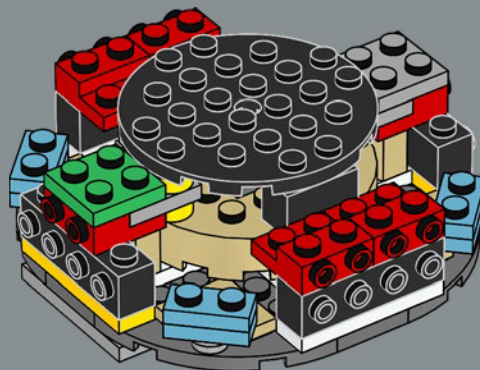
50



51

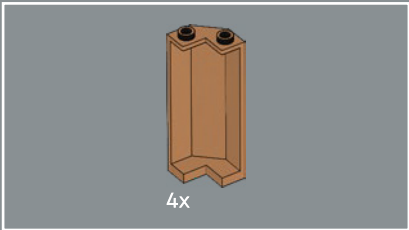
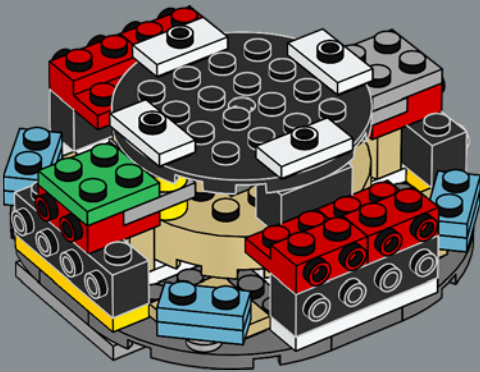


52

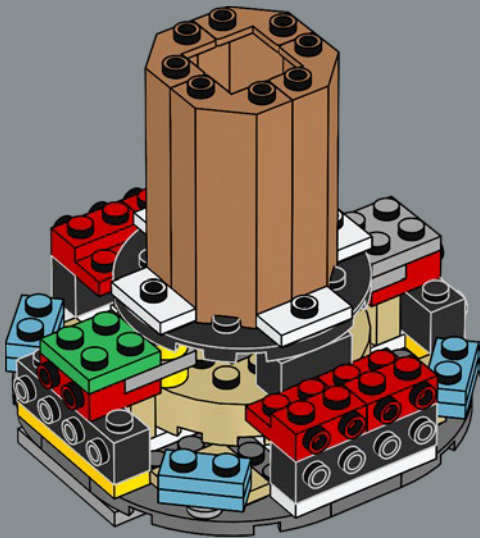


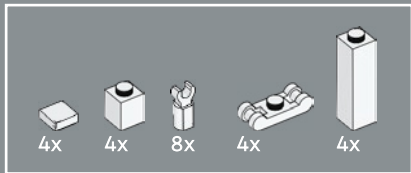


53

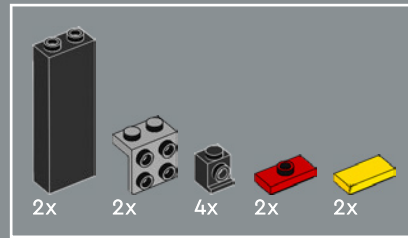
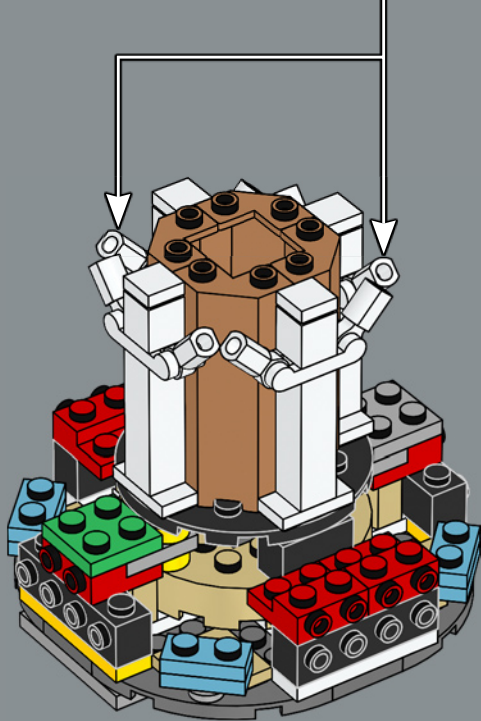
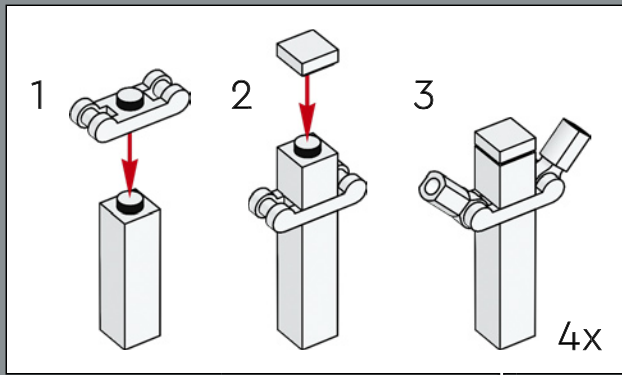


54

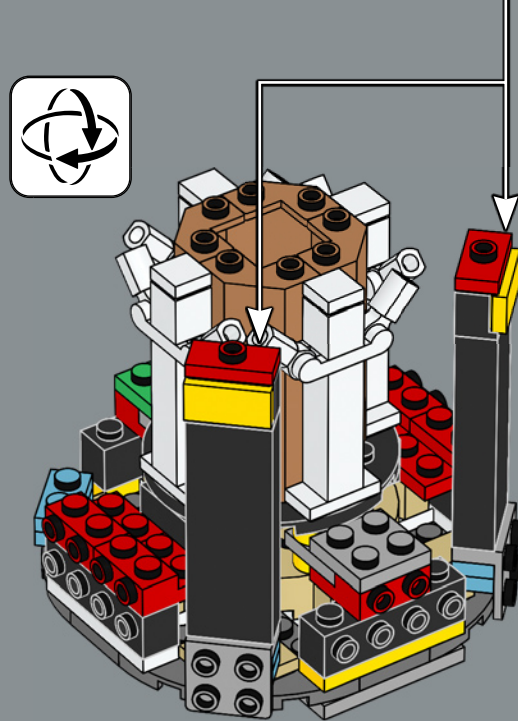
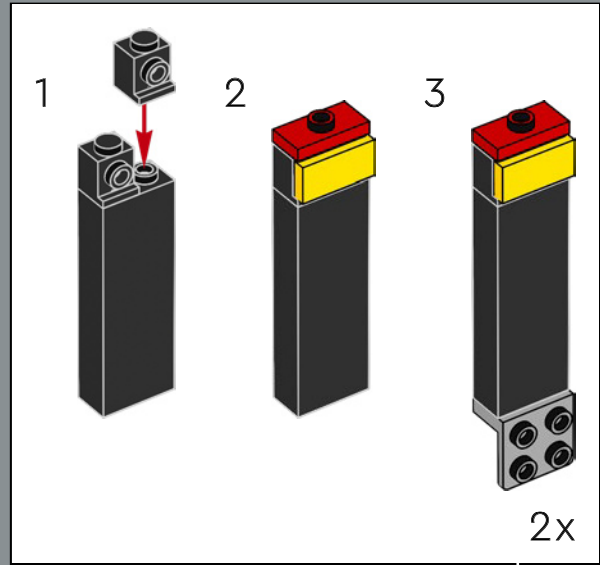


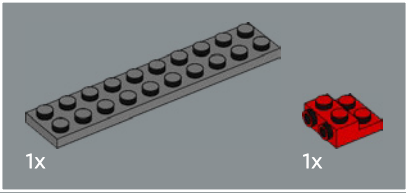
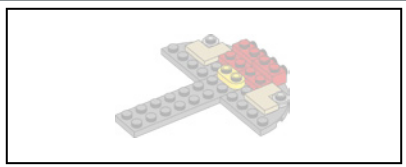


55

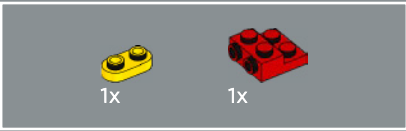
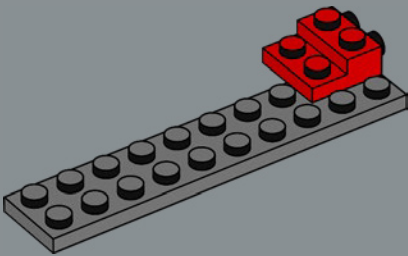


56

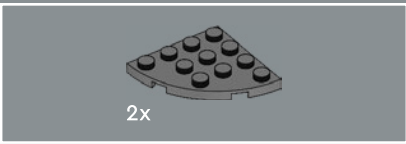
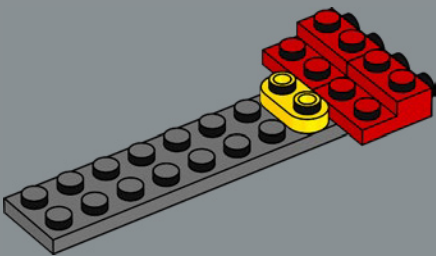




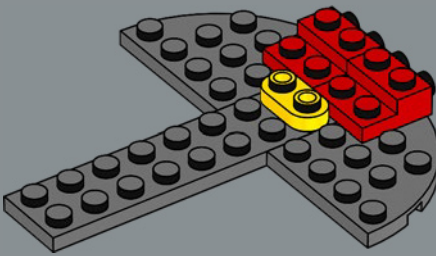
57

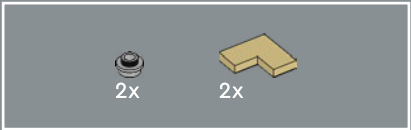


58

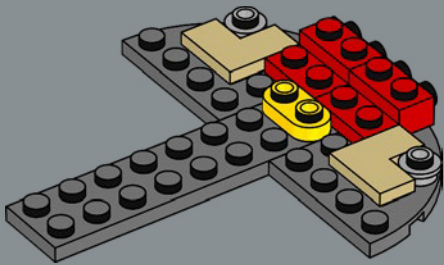


59

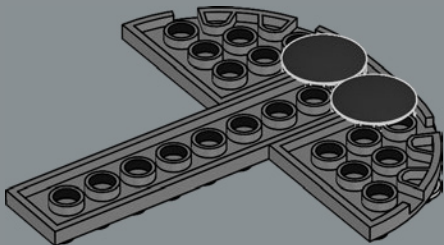




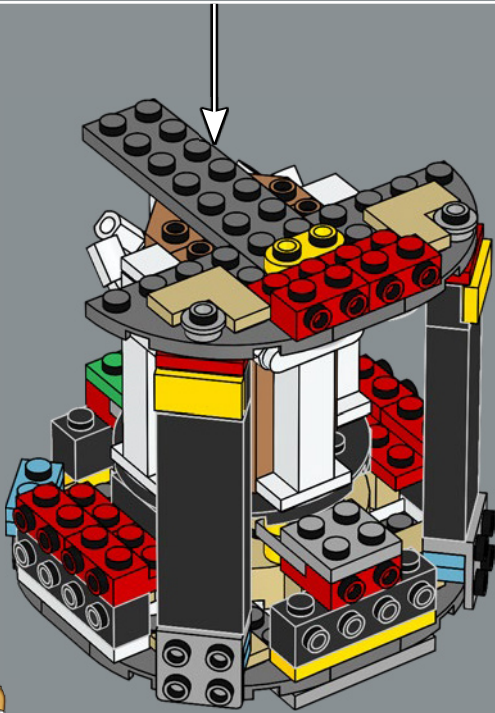
60

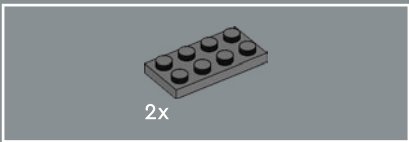


61

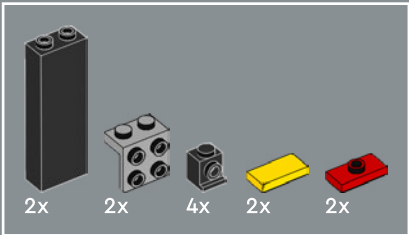
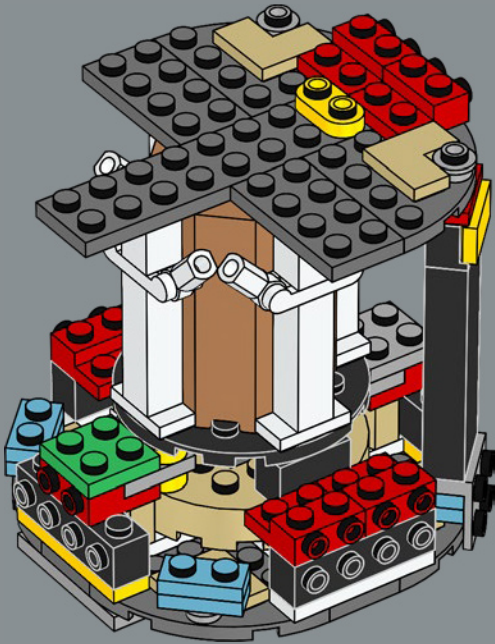


62

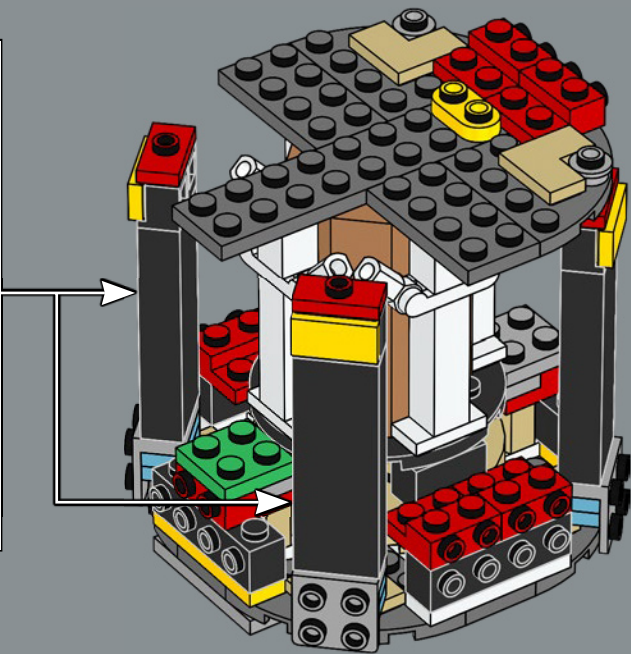
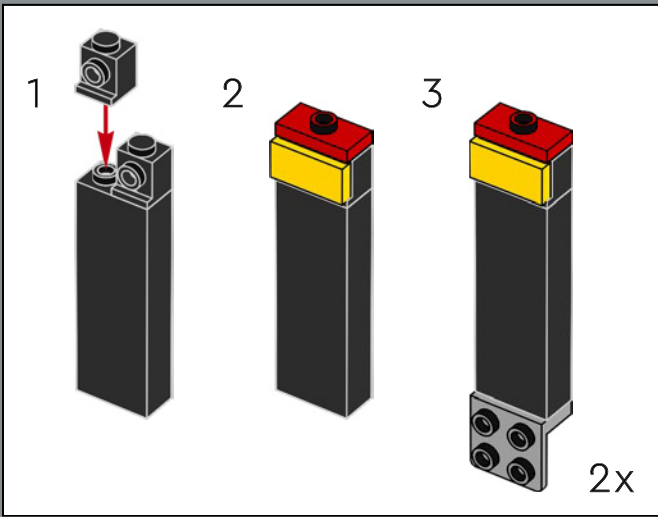


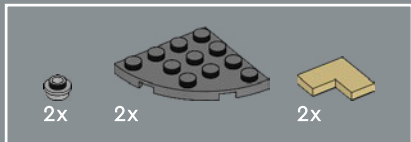


63

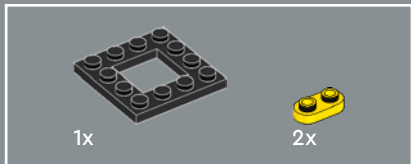
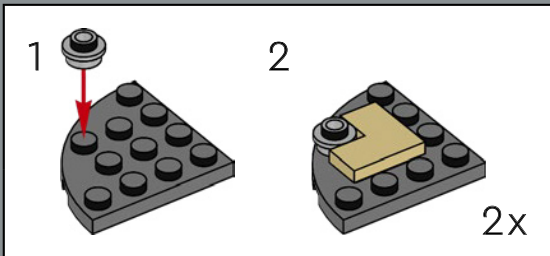


64





65



66



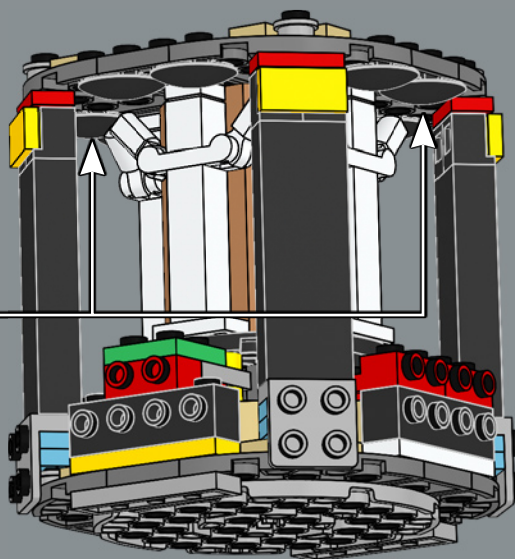


6x

67



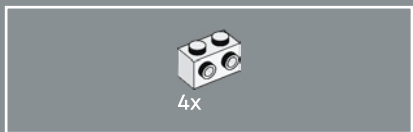
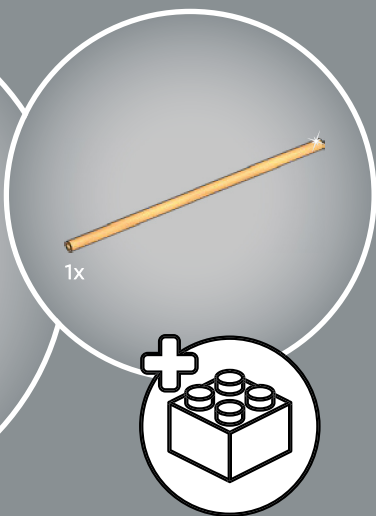
6x



4x

68

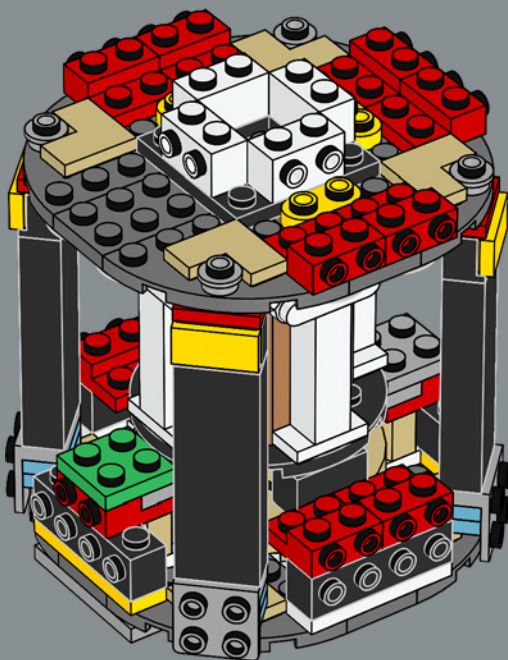




哈勃利用引力透镜效应，
绘制出了宇宙中不可见暗物质的分布图。



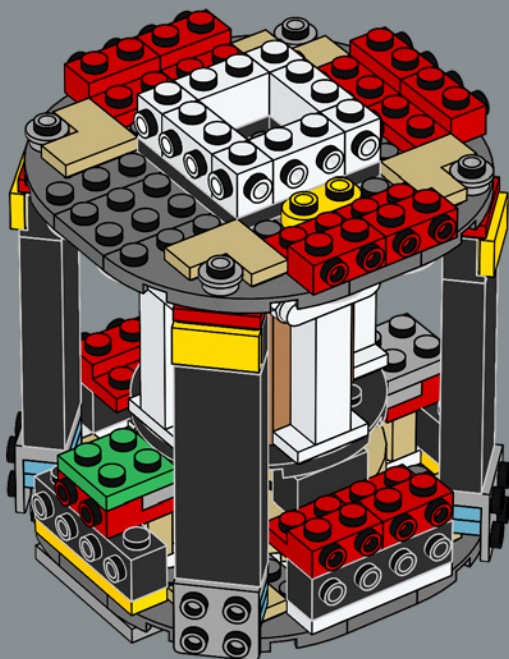
69





4x

70

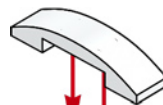
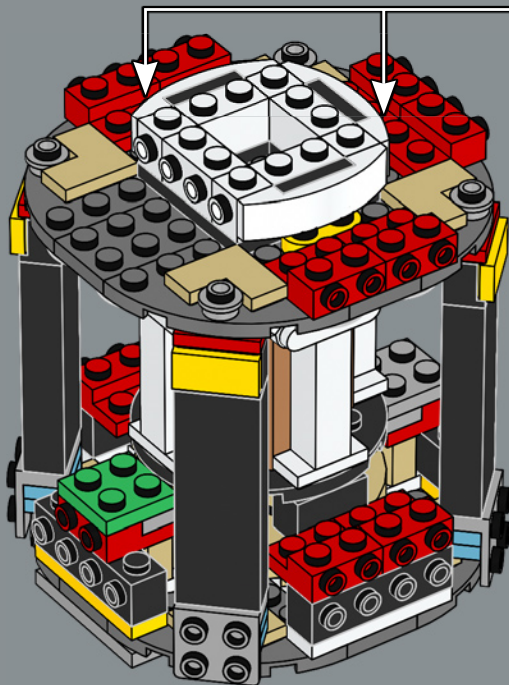


3x



3x

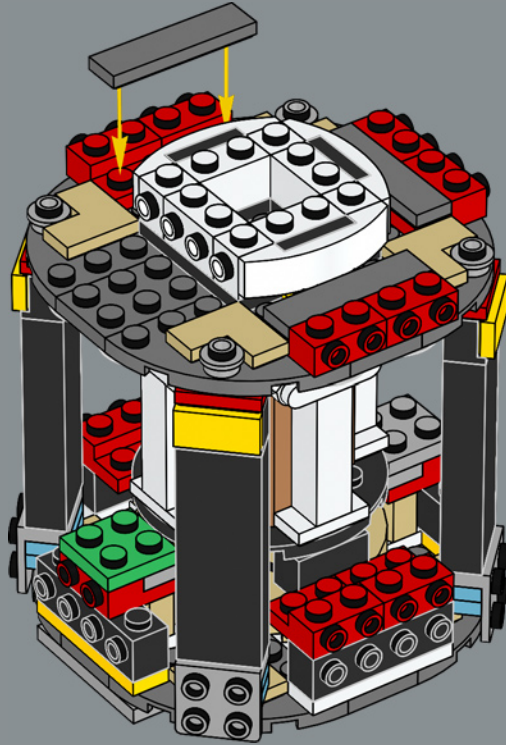
71



3x

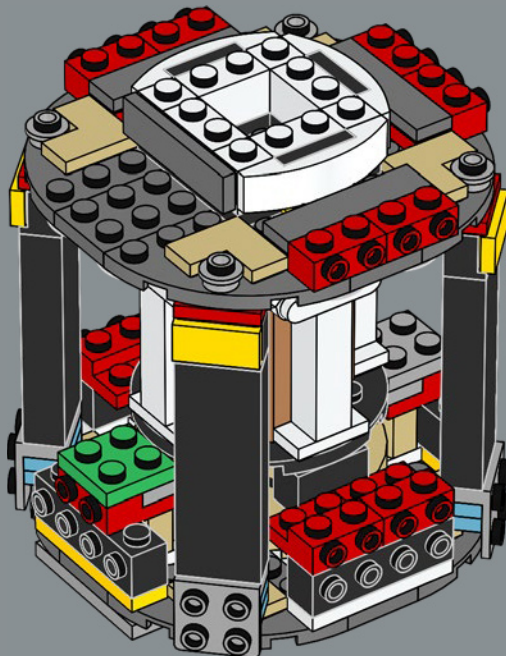
3x

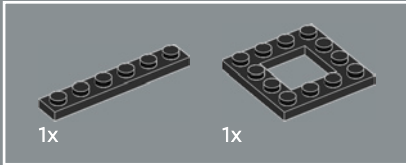
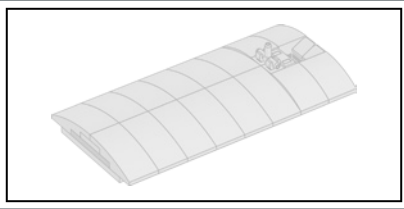
72



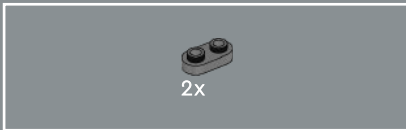
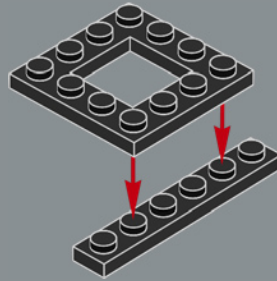
1x

73

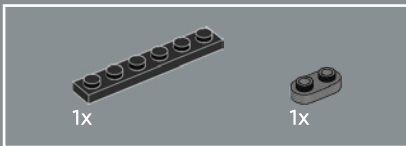
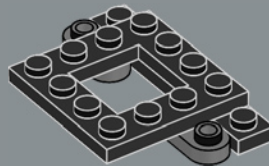




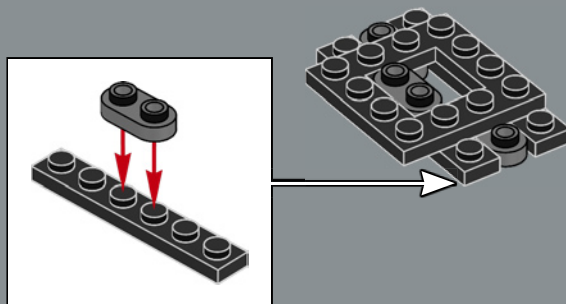
74

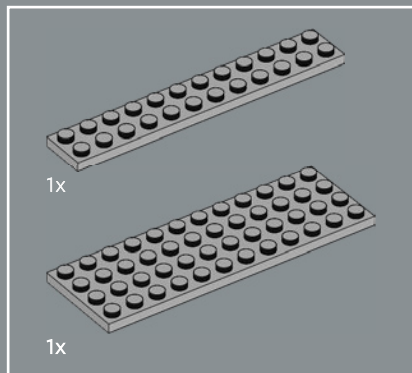


75

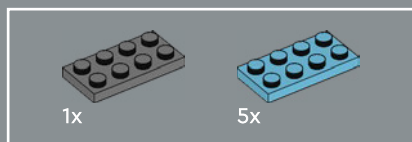
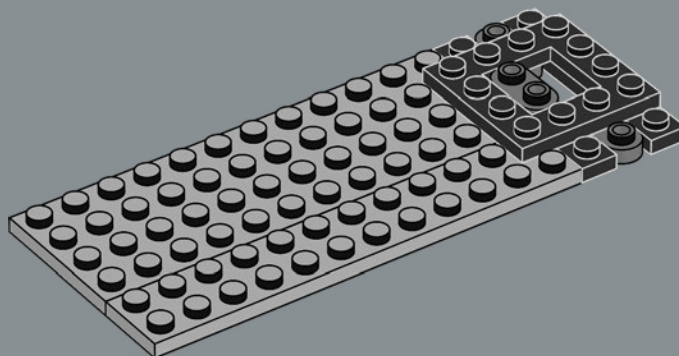


76

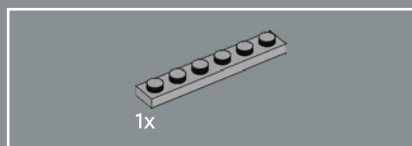
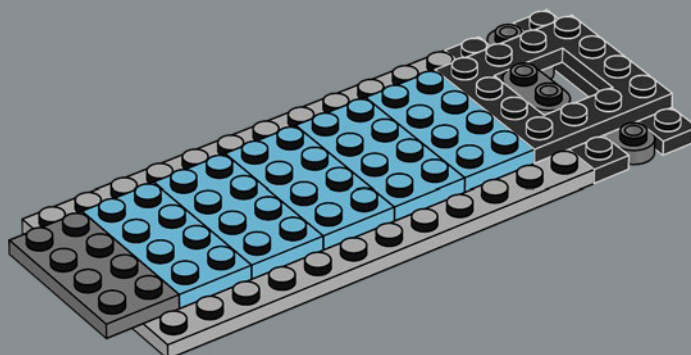




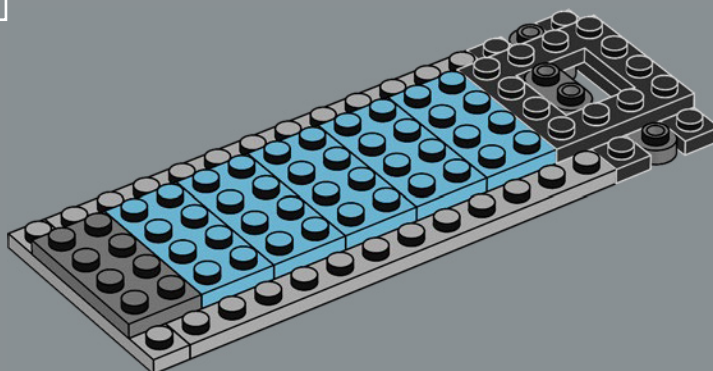
77

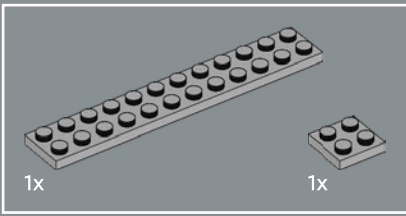


78

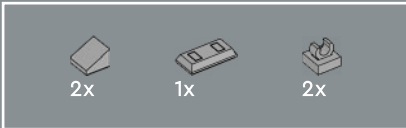
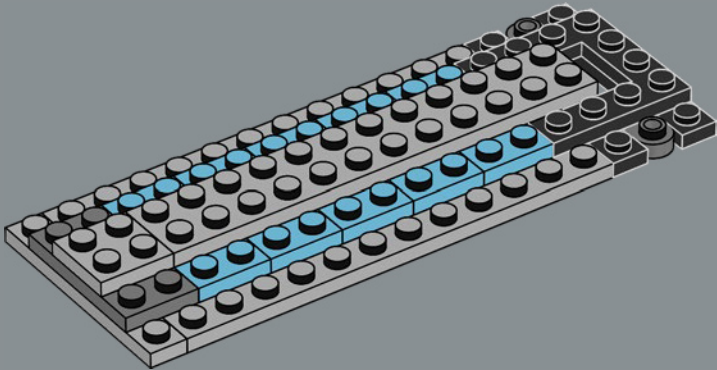


79

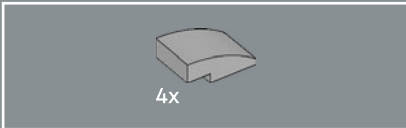
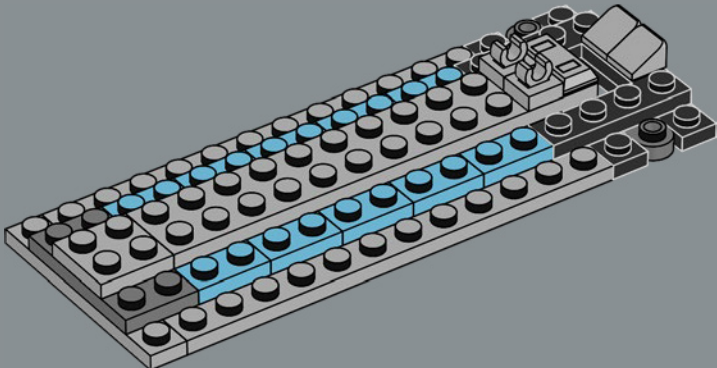




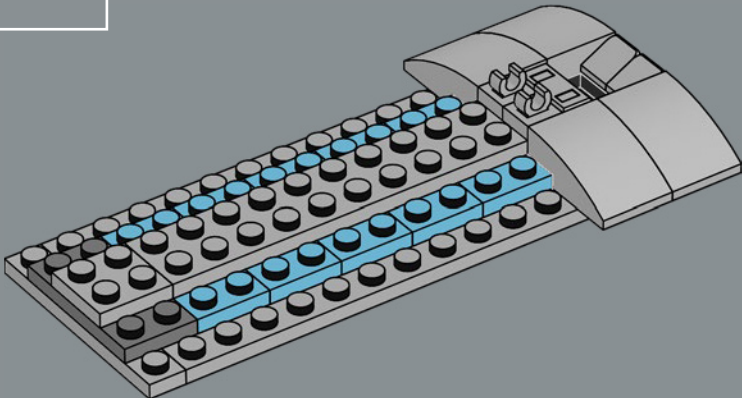
80

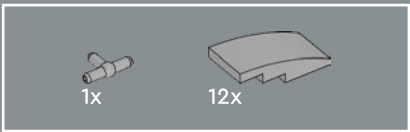


81

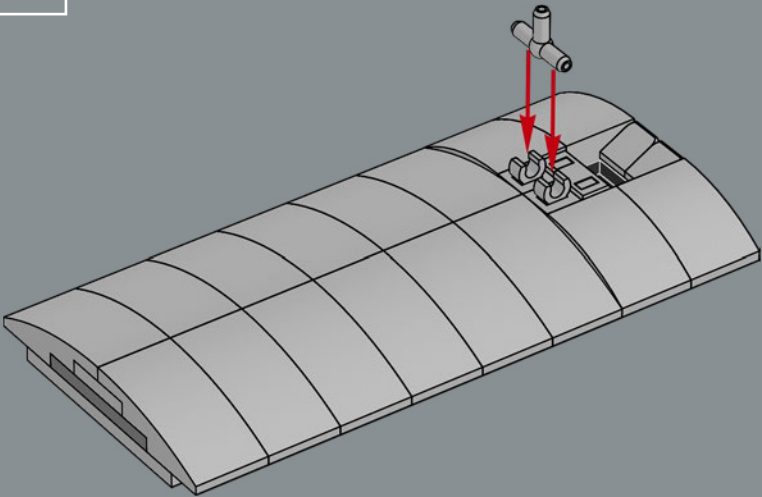


82

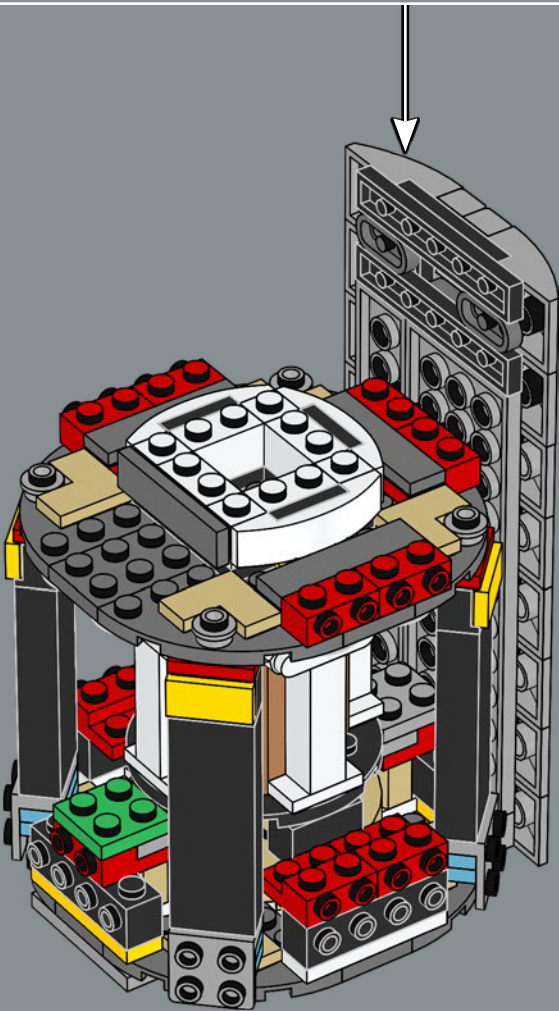


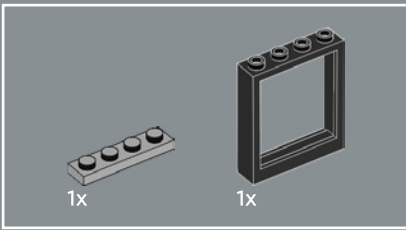


83

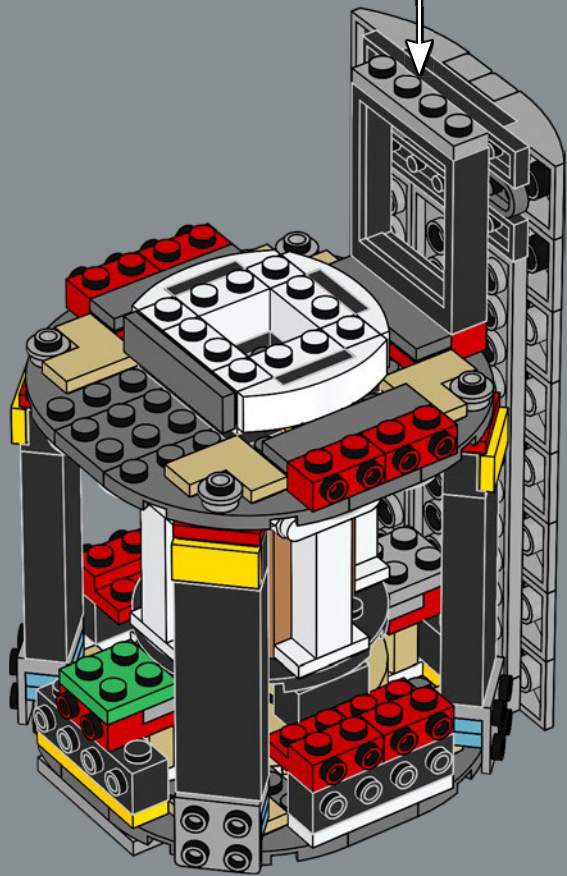
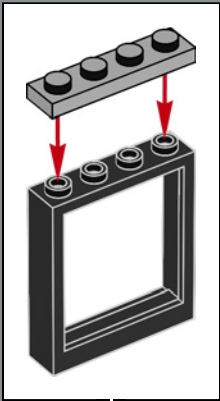


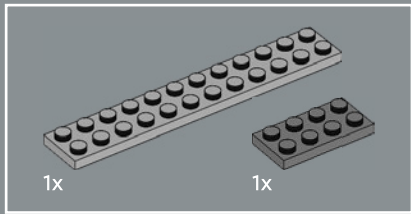
84



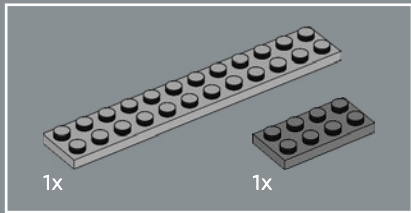
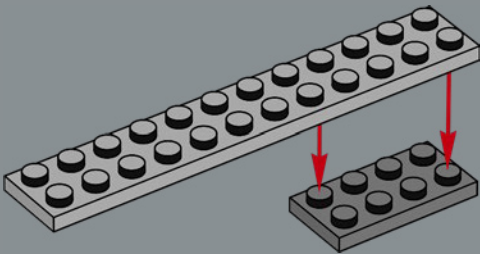


85

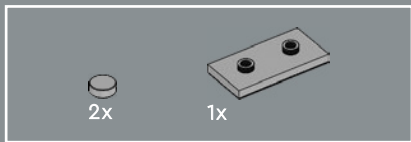
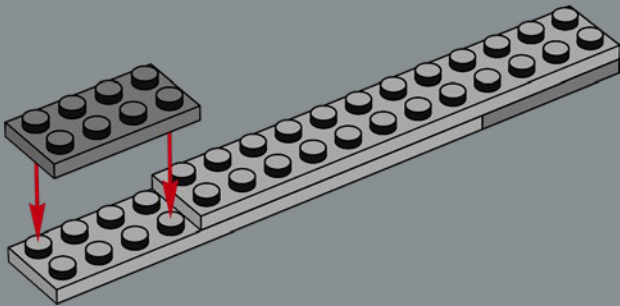




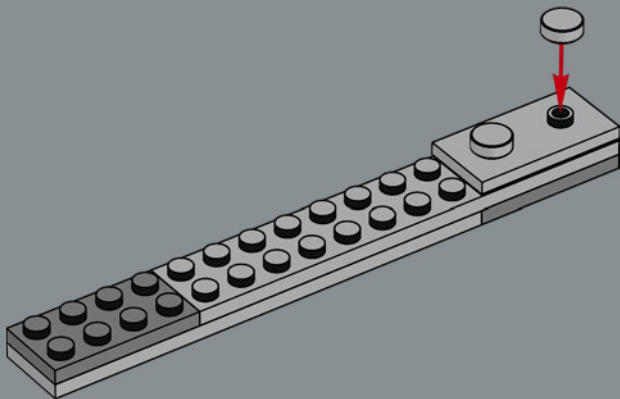
86

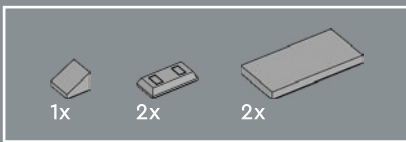


87

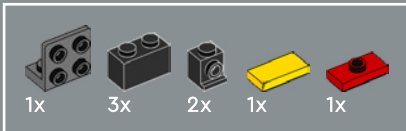
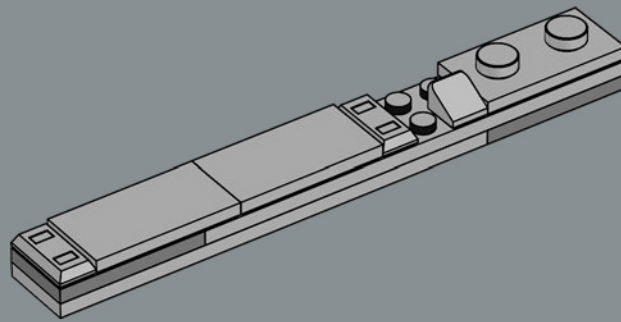


88

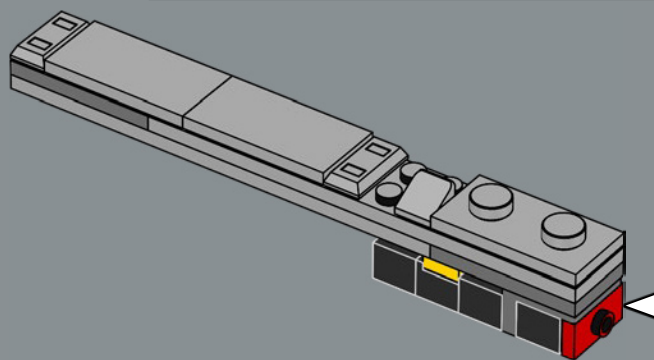
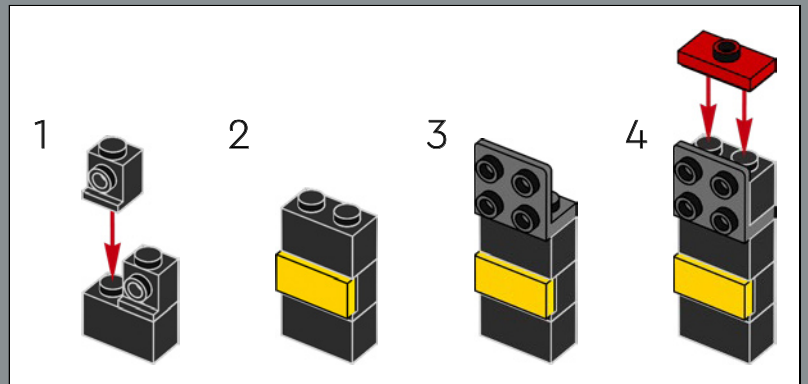


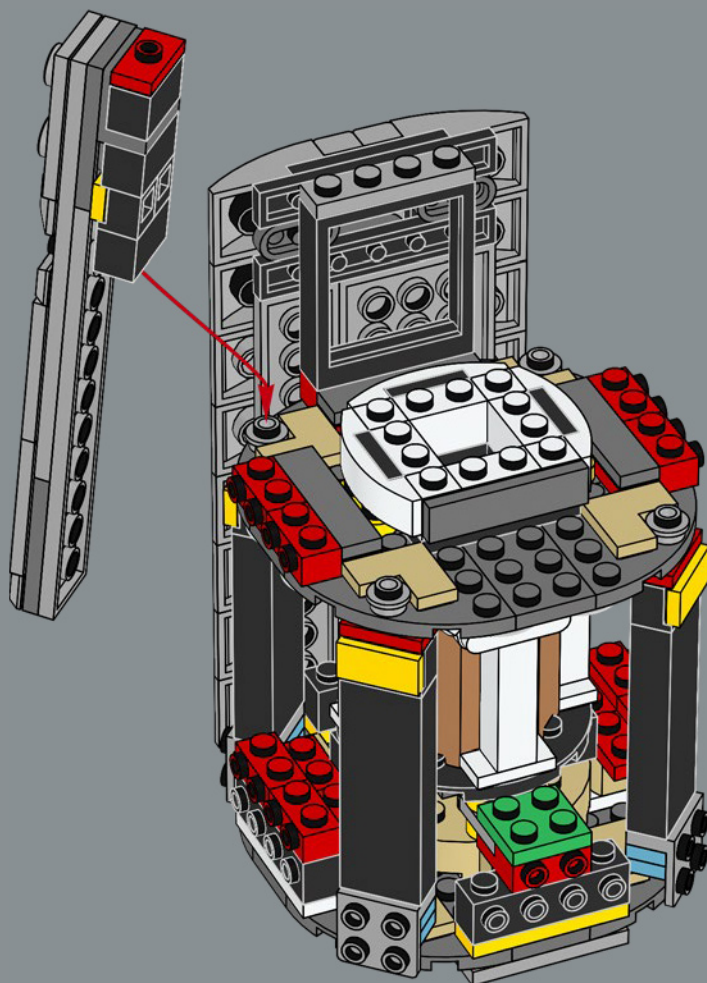


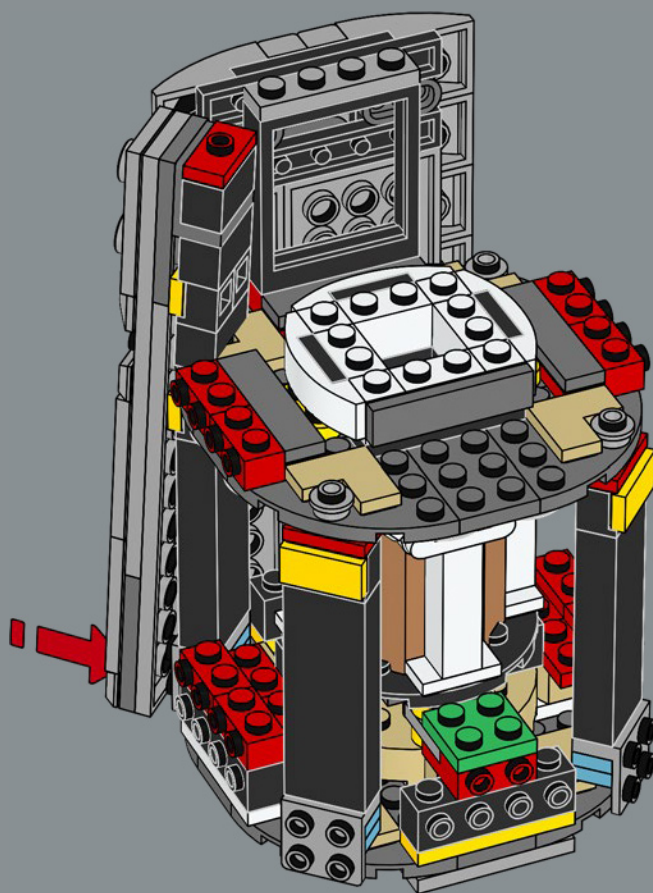
89

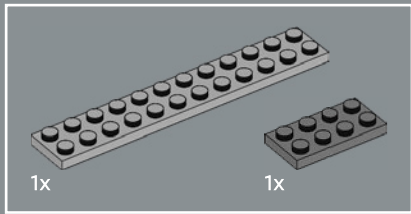


90

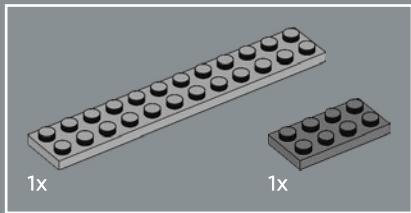
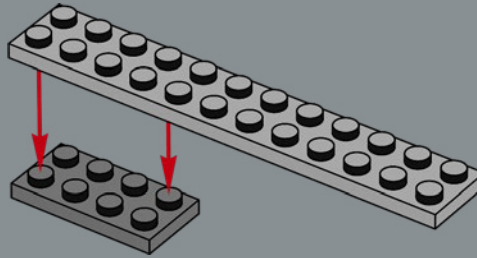




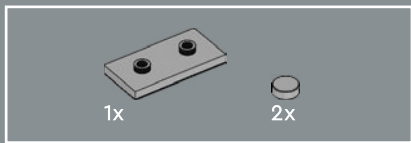
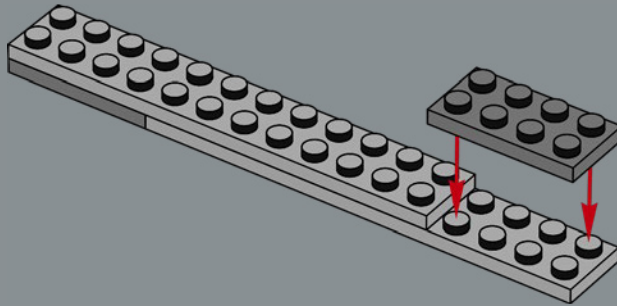




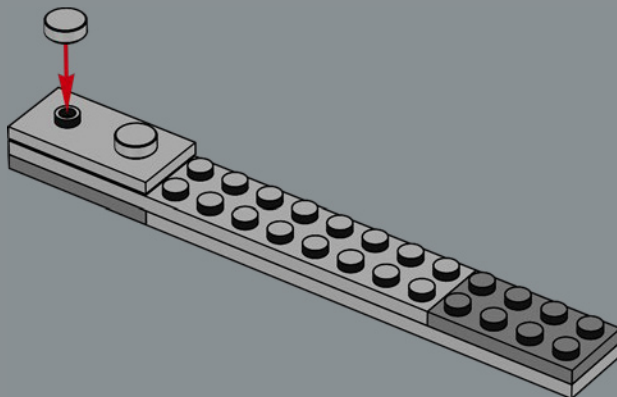
93

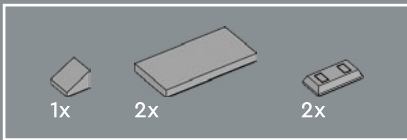


94

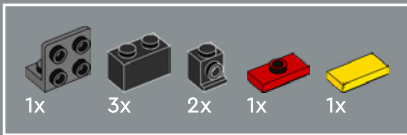
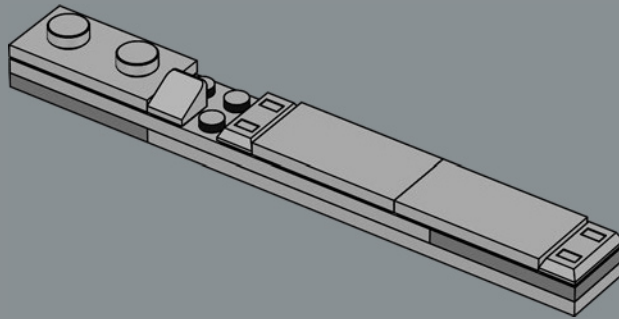


95

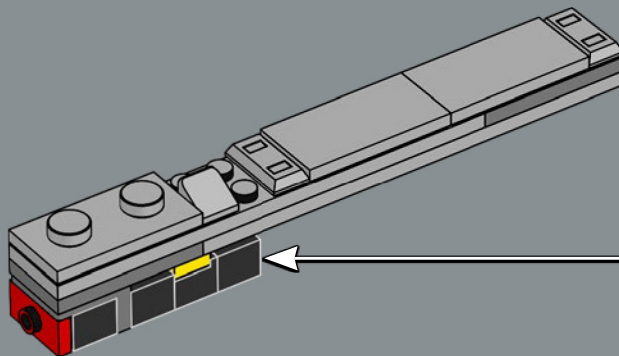
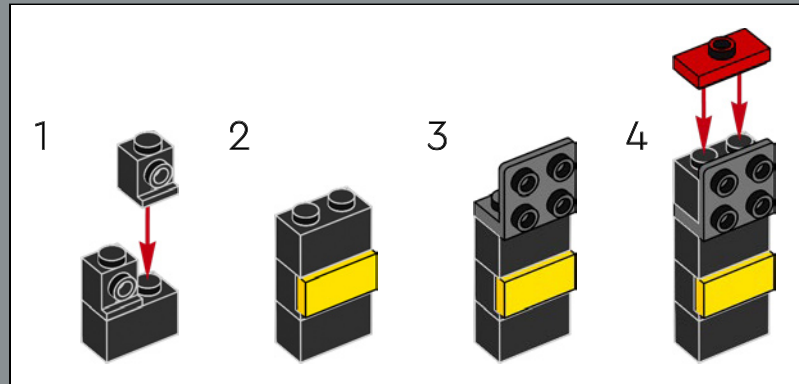


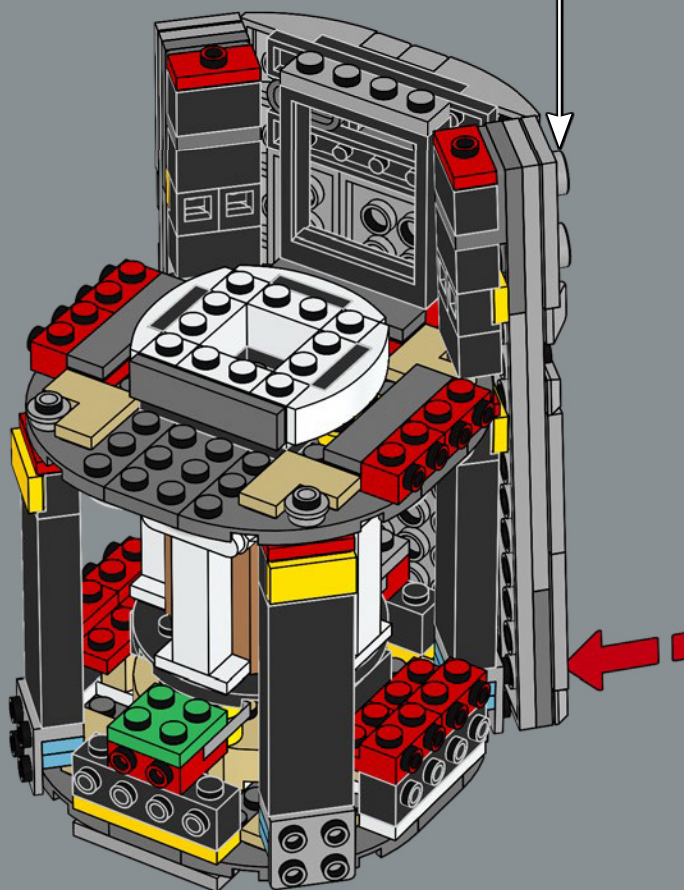


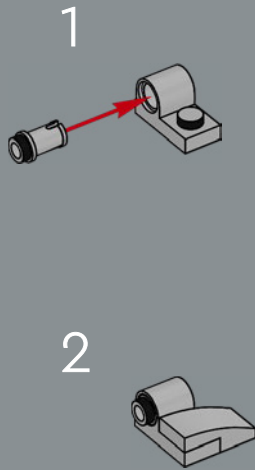
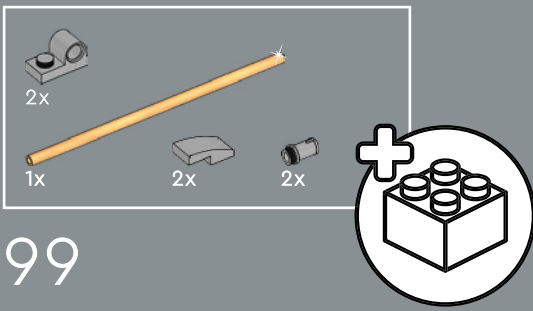
96



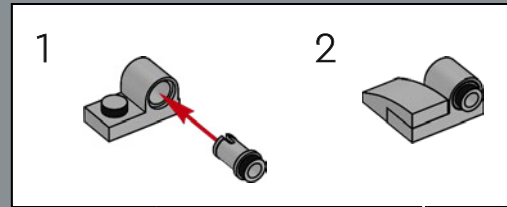
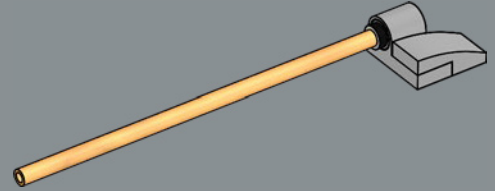
97



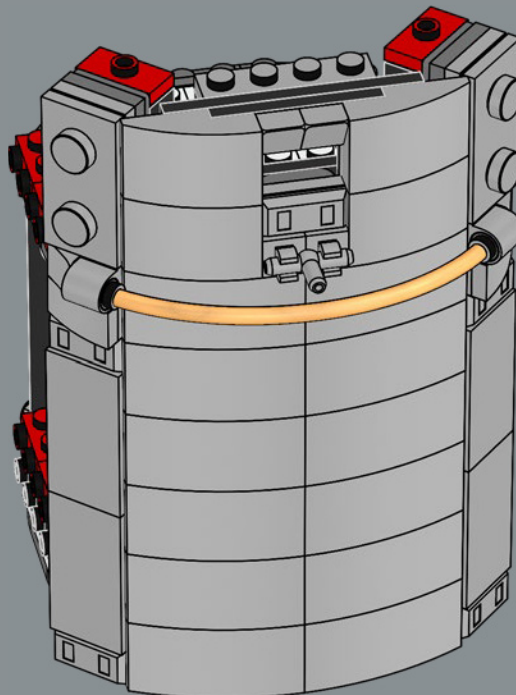
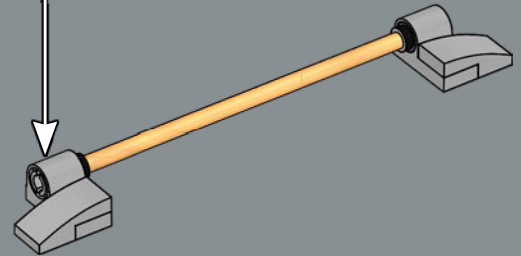


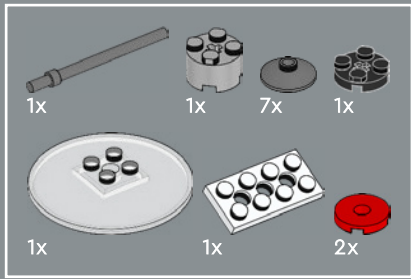


3

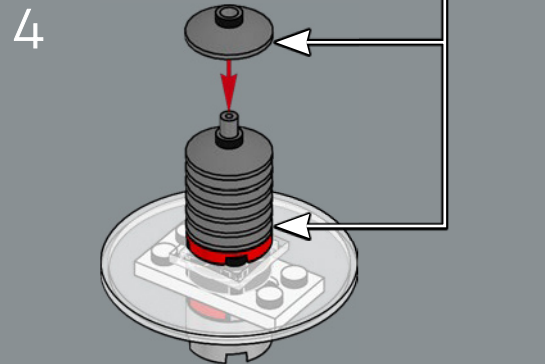
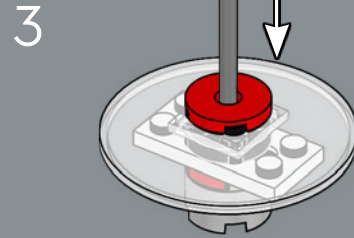
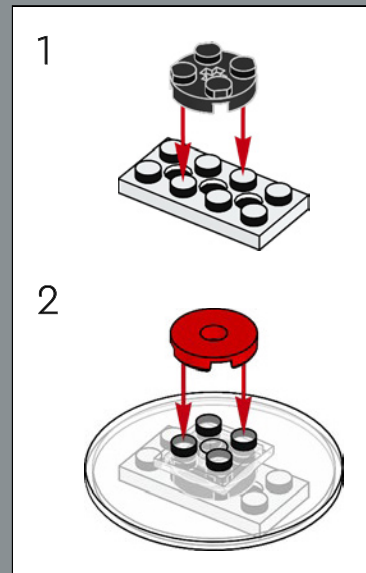
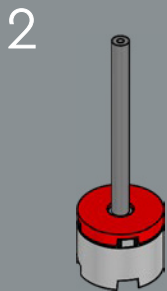
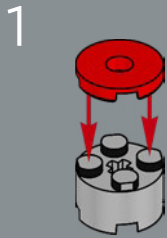


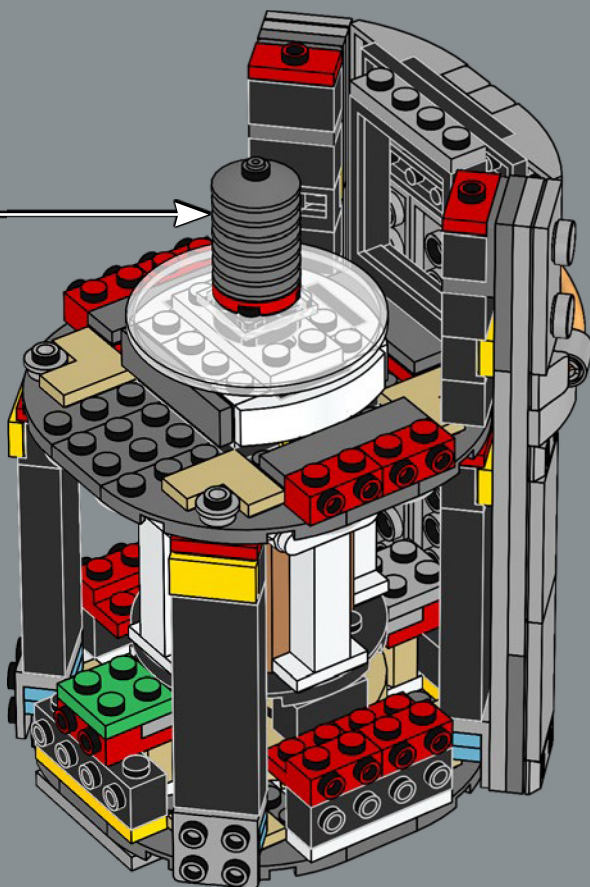
4

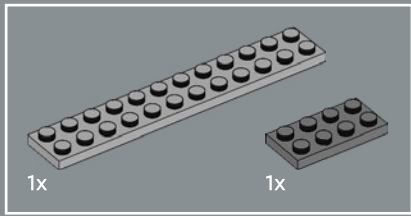




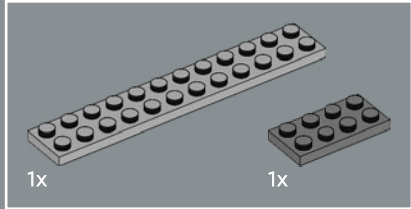
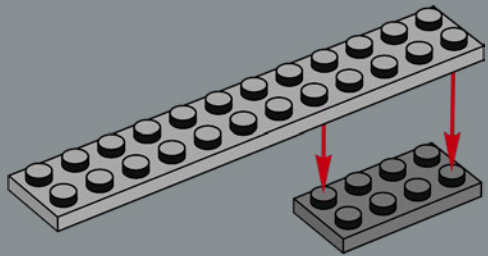
100



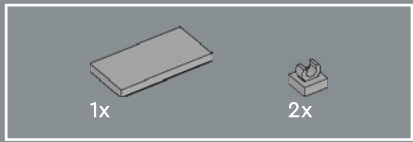
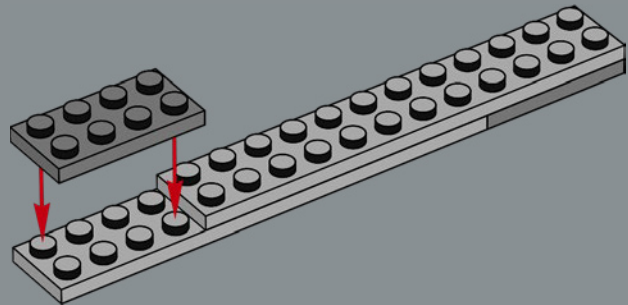




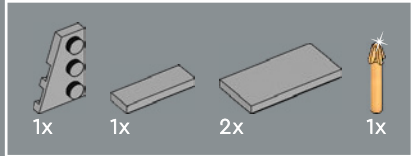
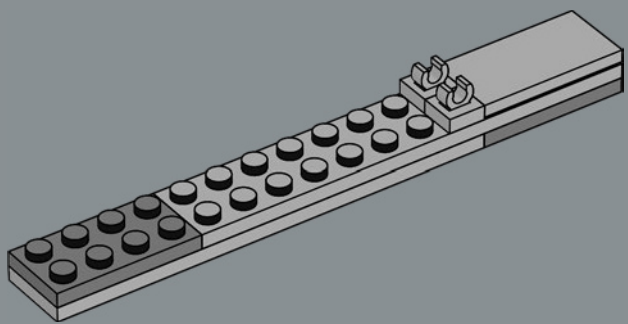
101



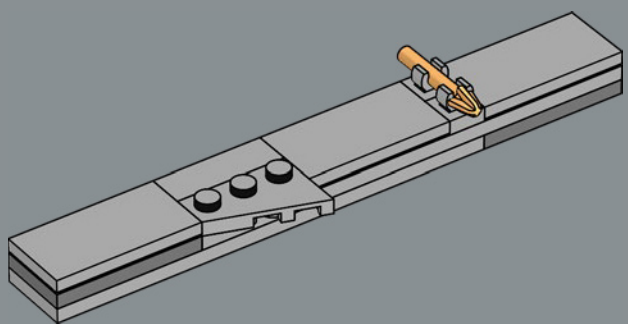
102



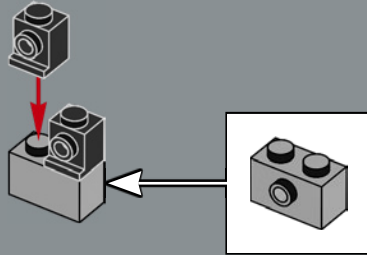
103



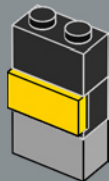
104



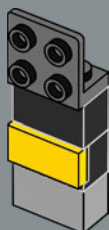
105



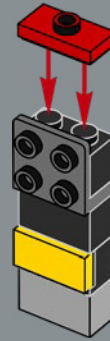
106



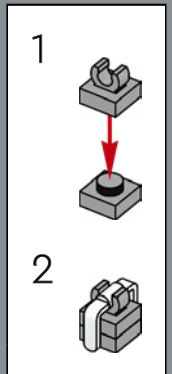
107



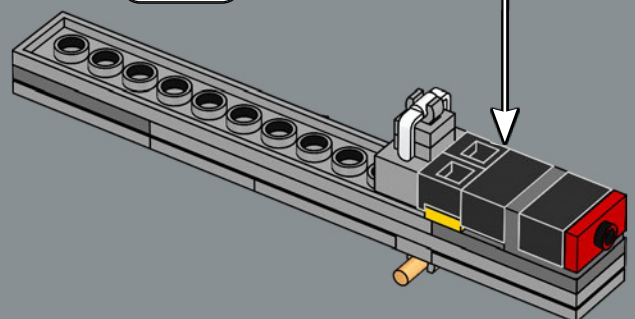
108

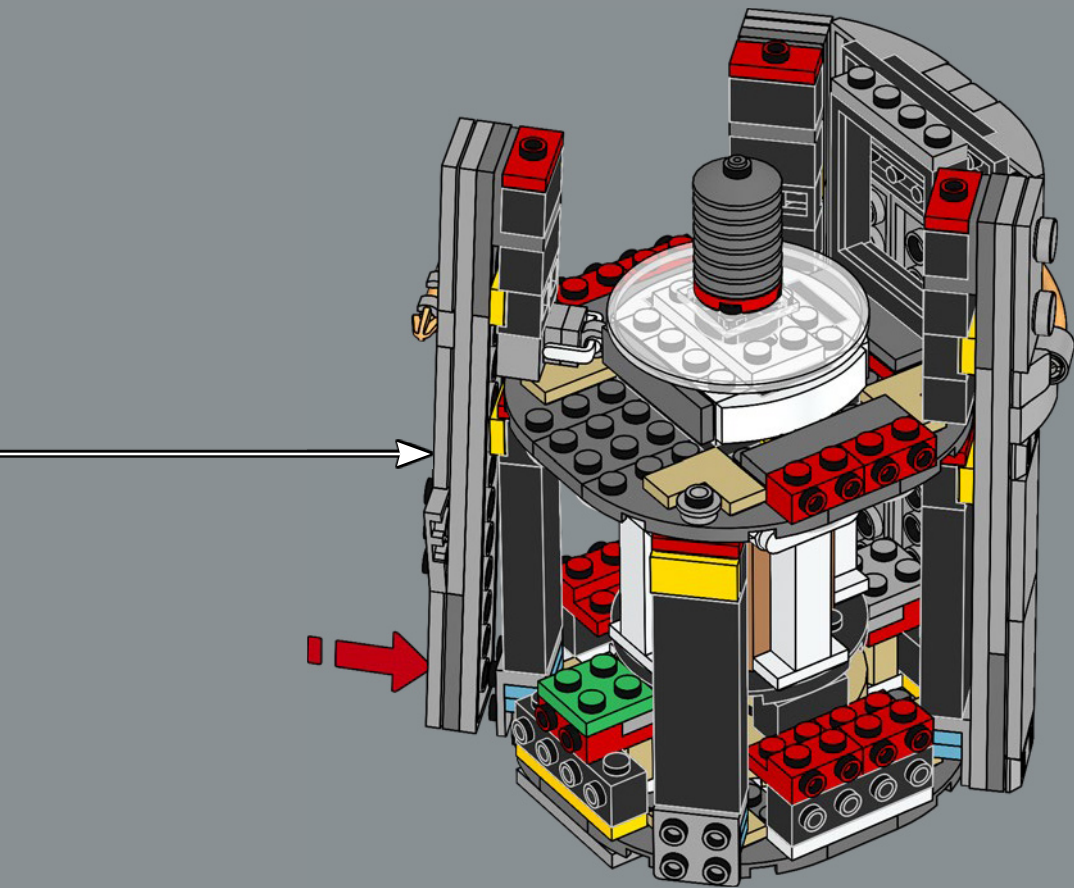


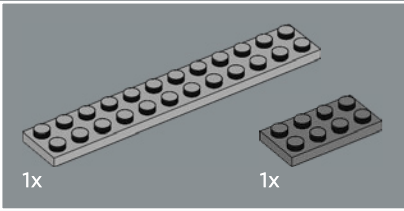
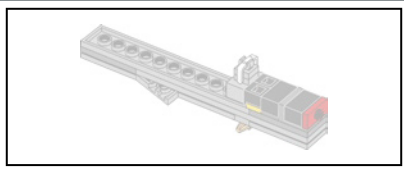
109



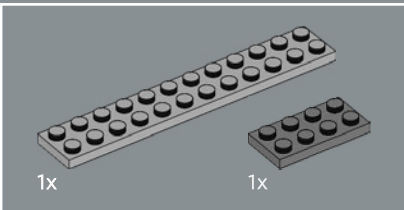
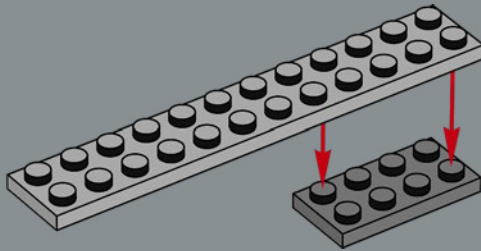
110



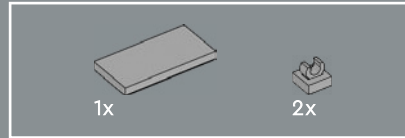
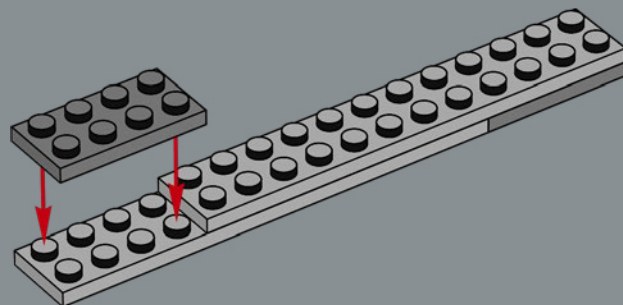




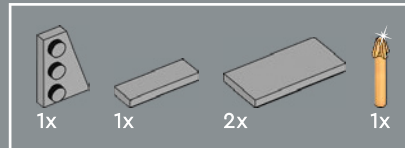
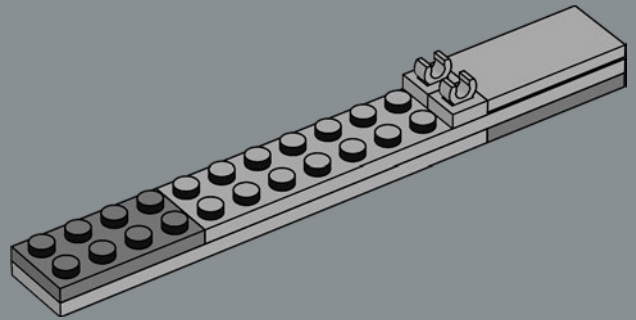
112



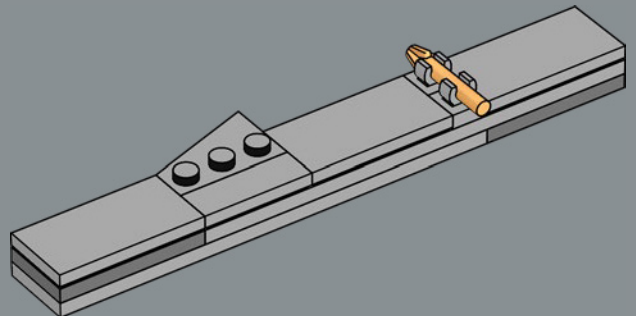
113

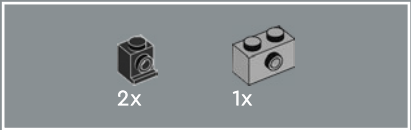


114

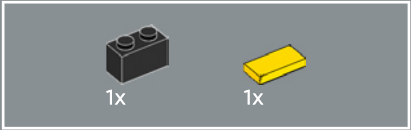
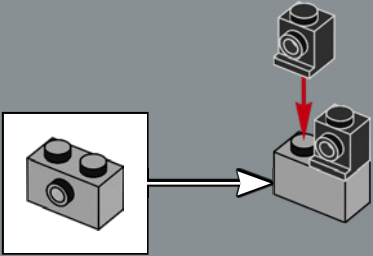


115

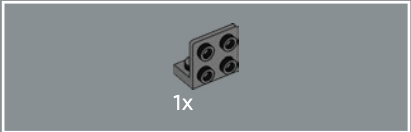
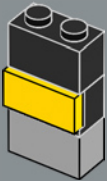




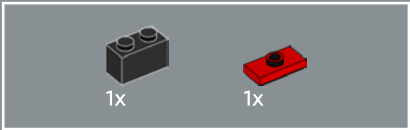
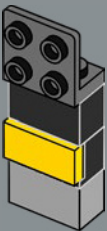
116



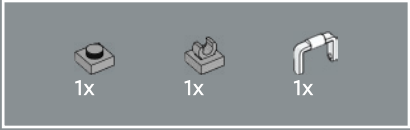
117



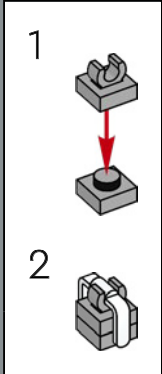
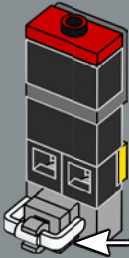
118



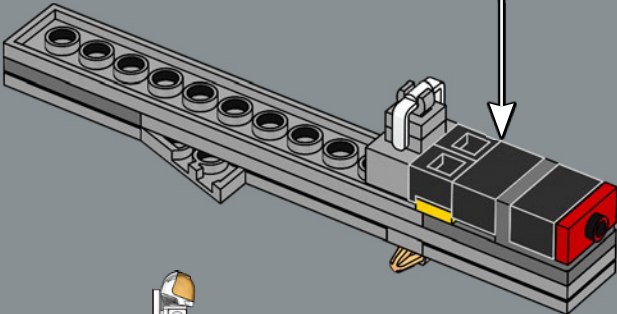
119



120



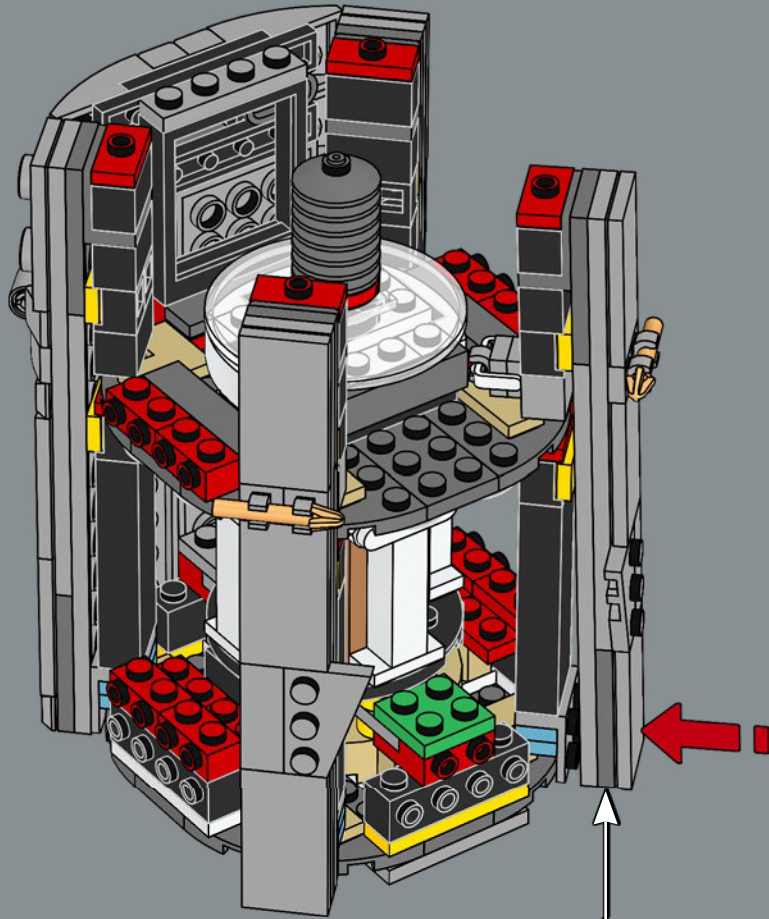
121

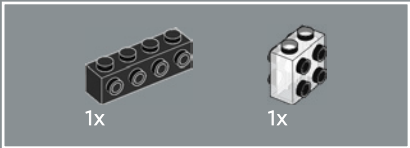
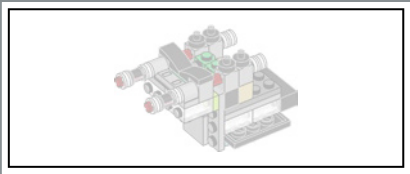


迷失在太空中？覆盖整个宇宙的
全球定位系统可能还需要一段时
间才能问世..... 迄今为止，
人们只观测到了天空的0.1%。

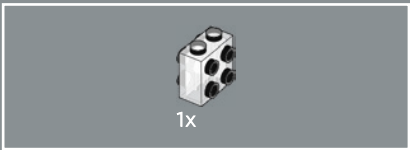
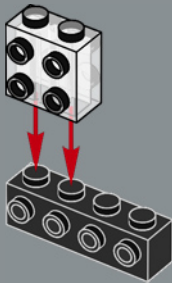


122

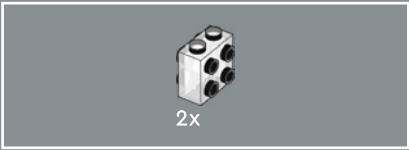
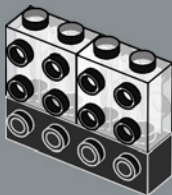




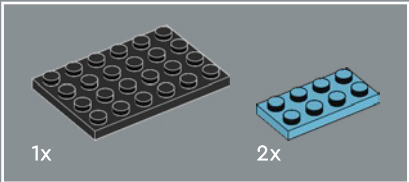
123



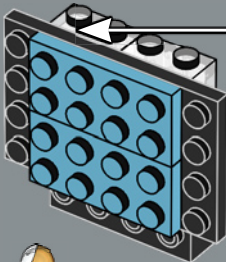
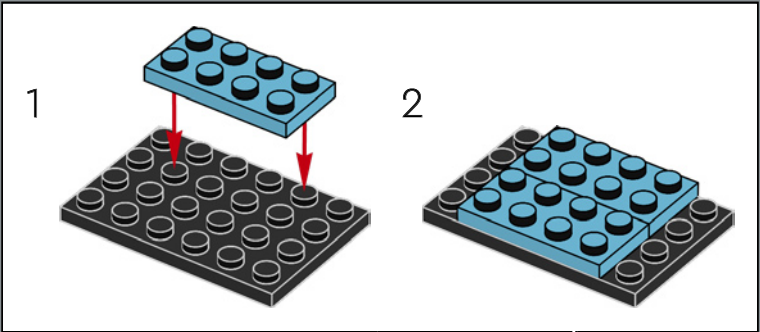
124

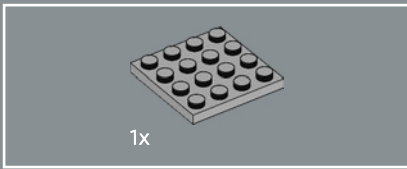


125

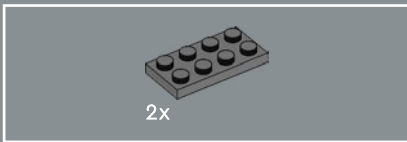
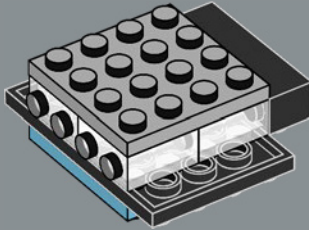


126

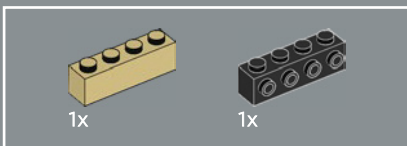
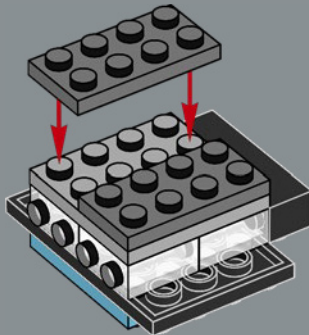




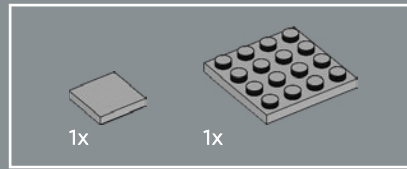
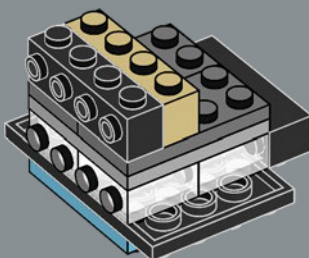
127



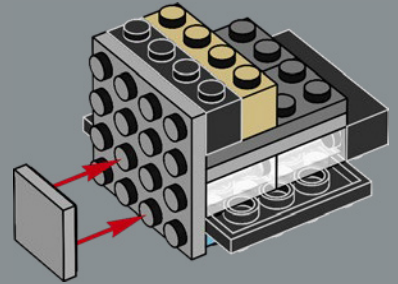
128



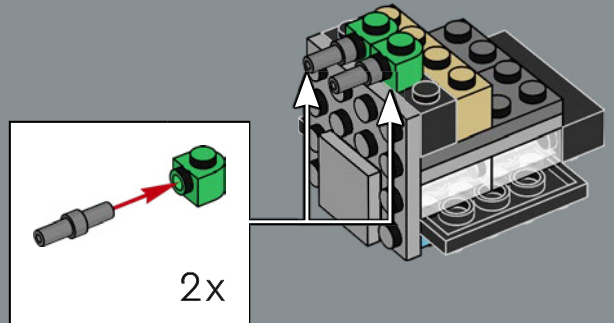
129



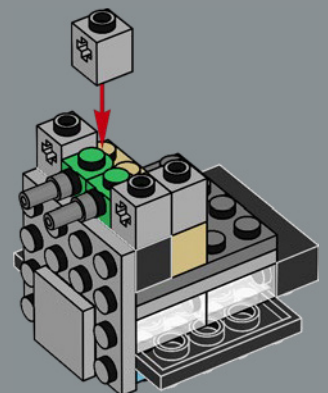
130



131

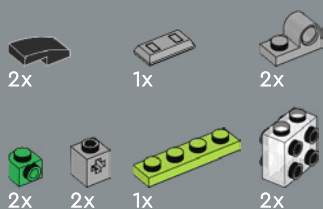
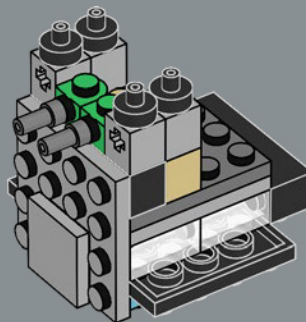


132

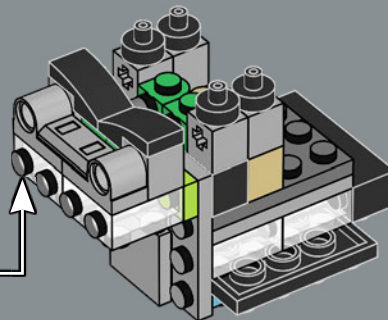
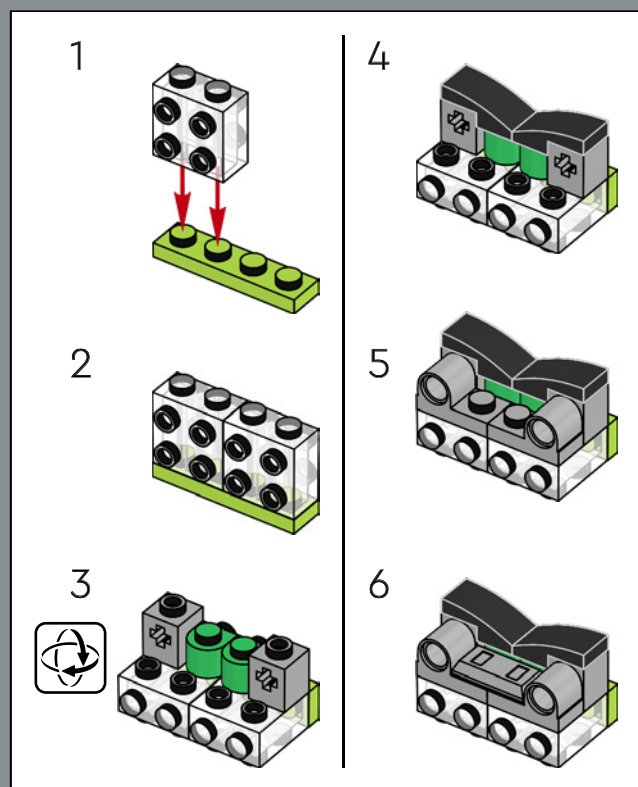


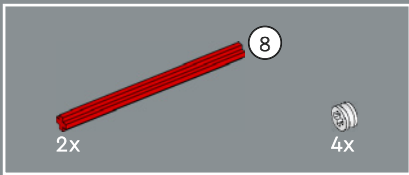
4x

133

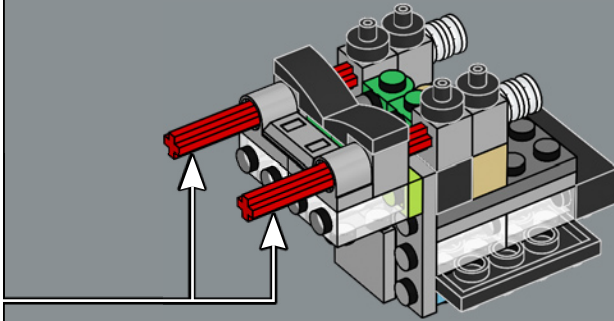
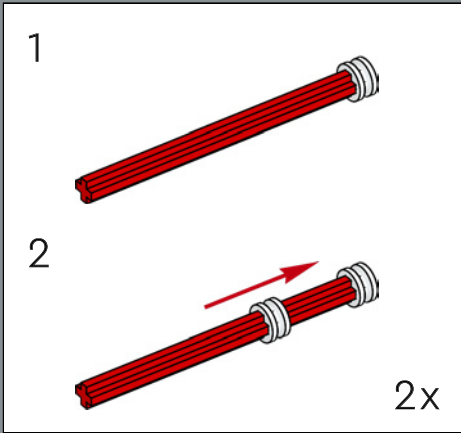


134

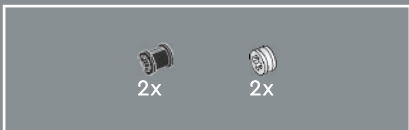
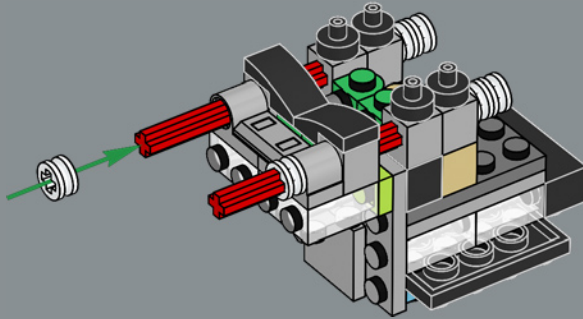




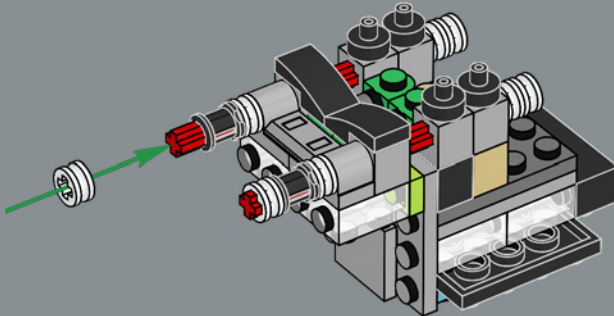
135



136



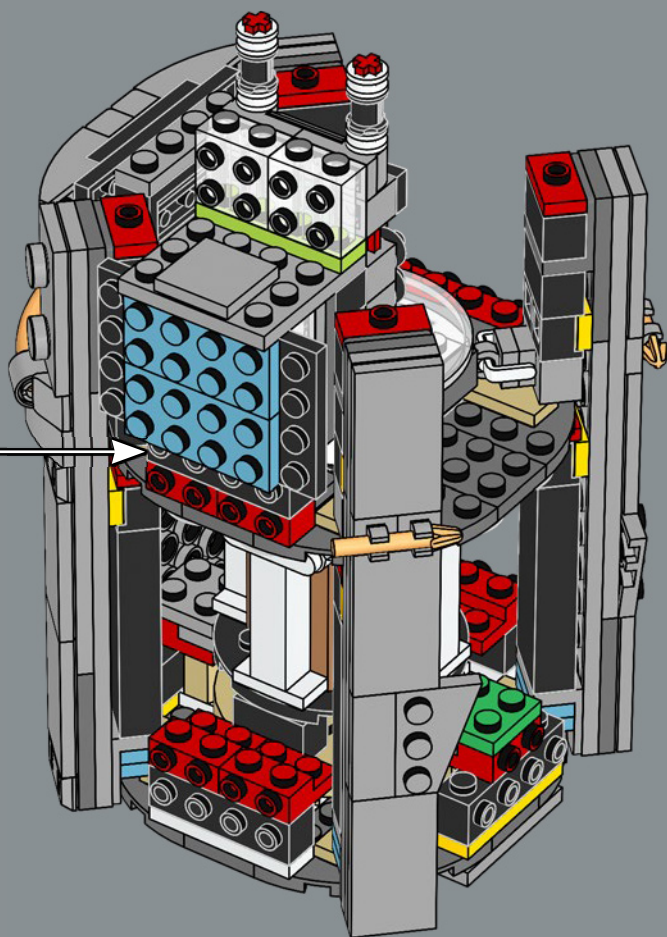
137

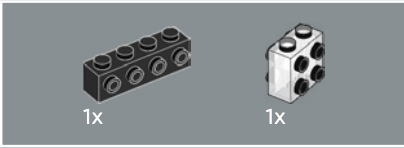
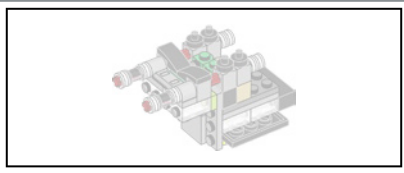


哈勃望远镜运行在距地球约483公里（合300英里）的轨道上，
它的平均轨道速度可达27000公里每小时（即17000英里每小时）。

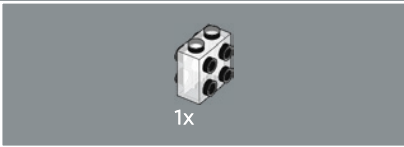
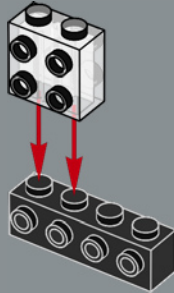


138

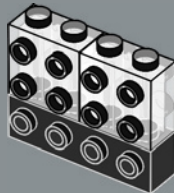




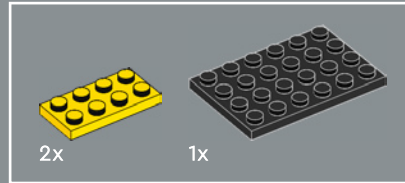
139



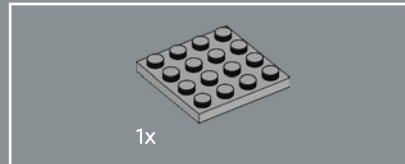
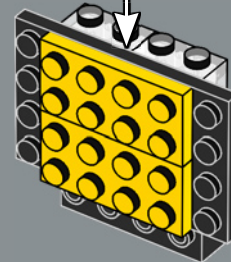
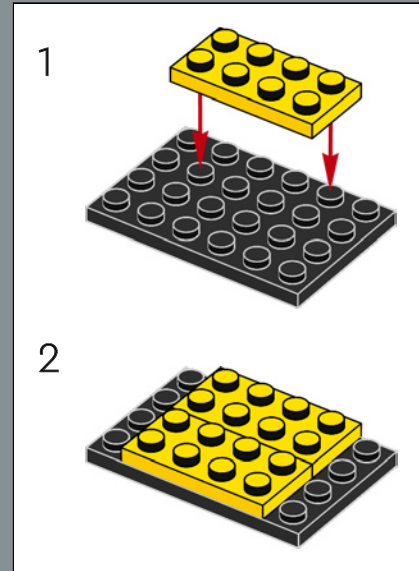
140



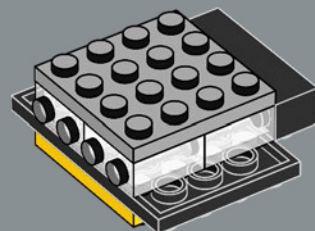
141

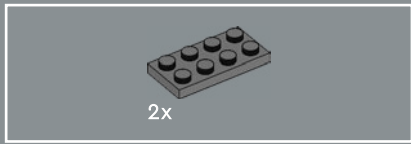


142

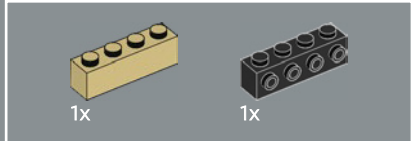
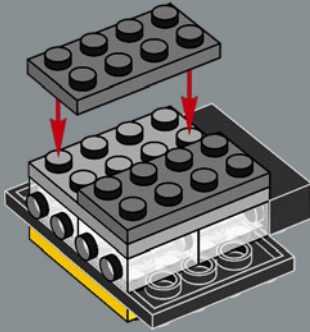


143

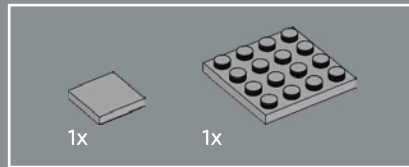
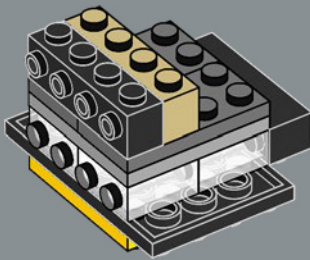




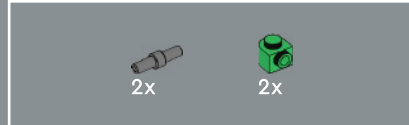
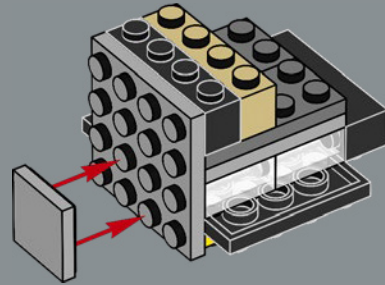
144



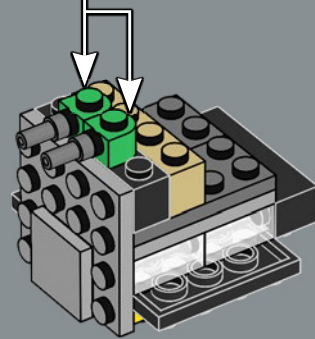
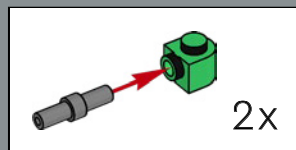
145



146



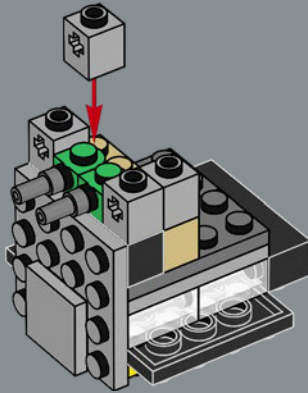
147





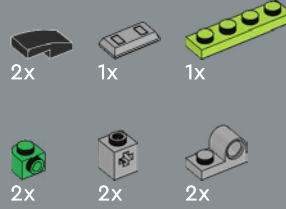
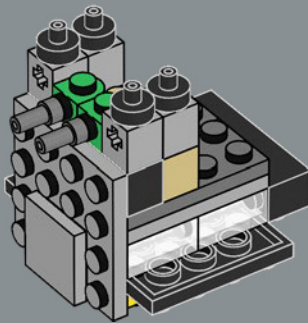
4x

148



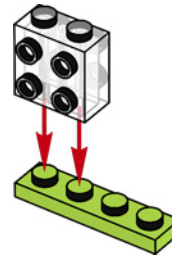
4x

149



150

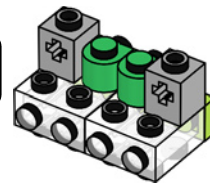
1



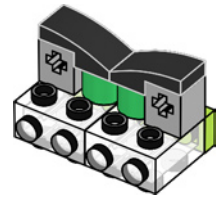
2



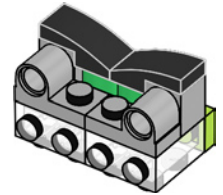
3



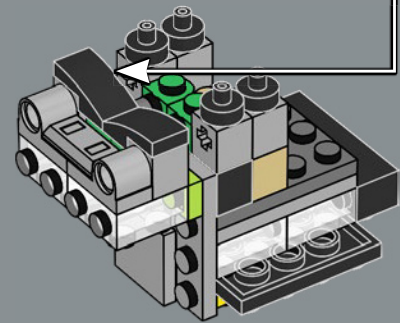
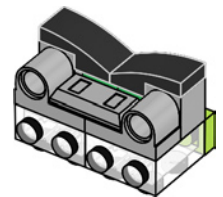
4

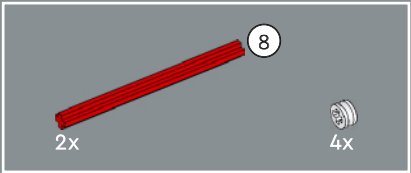


5

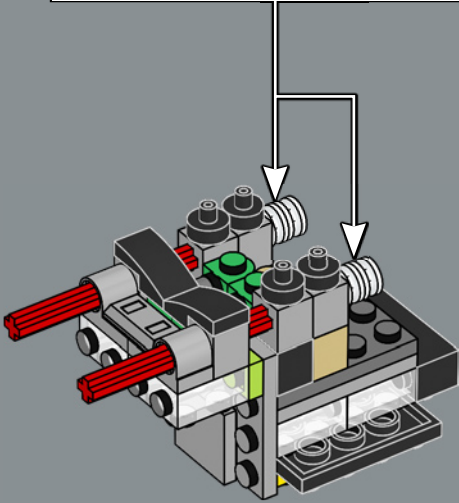
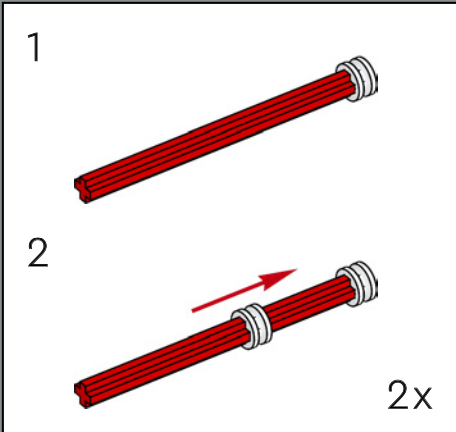


6

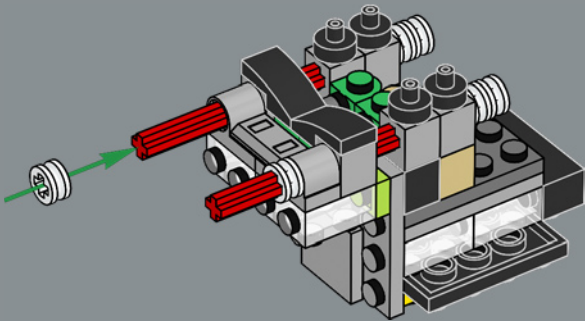




151



152



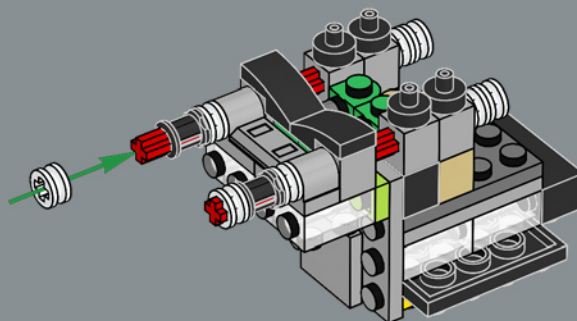


2x

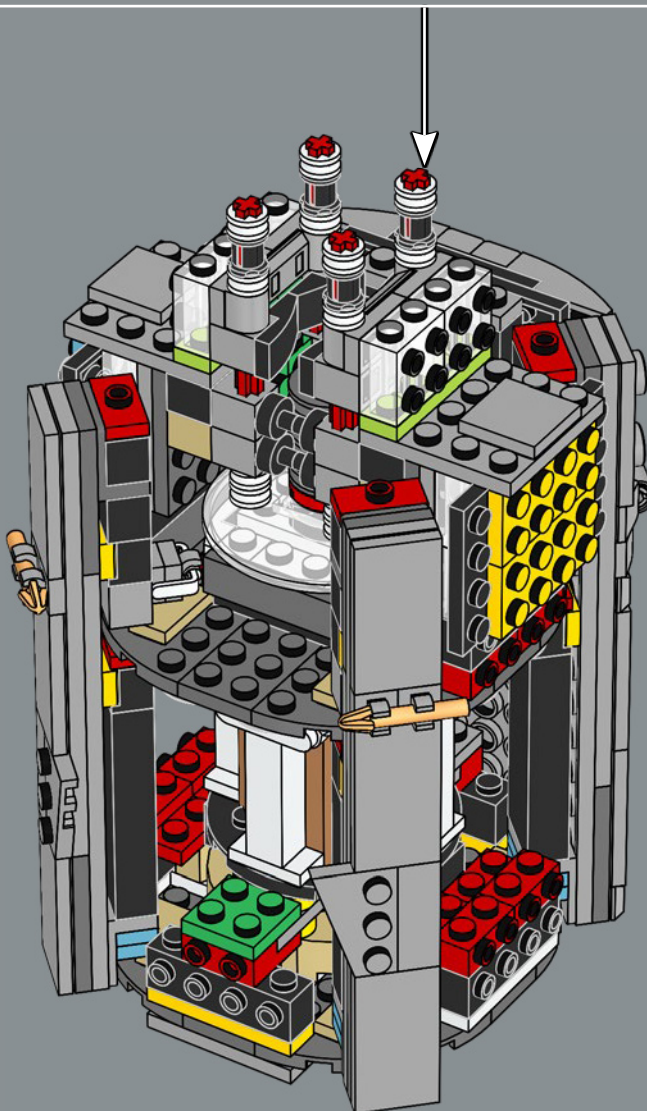


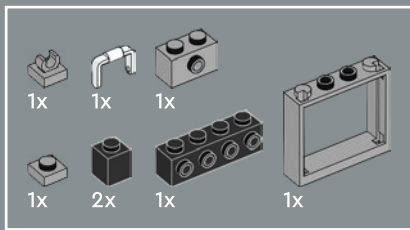
2x

153

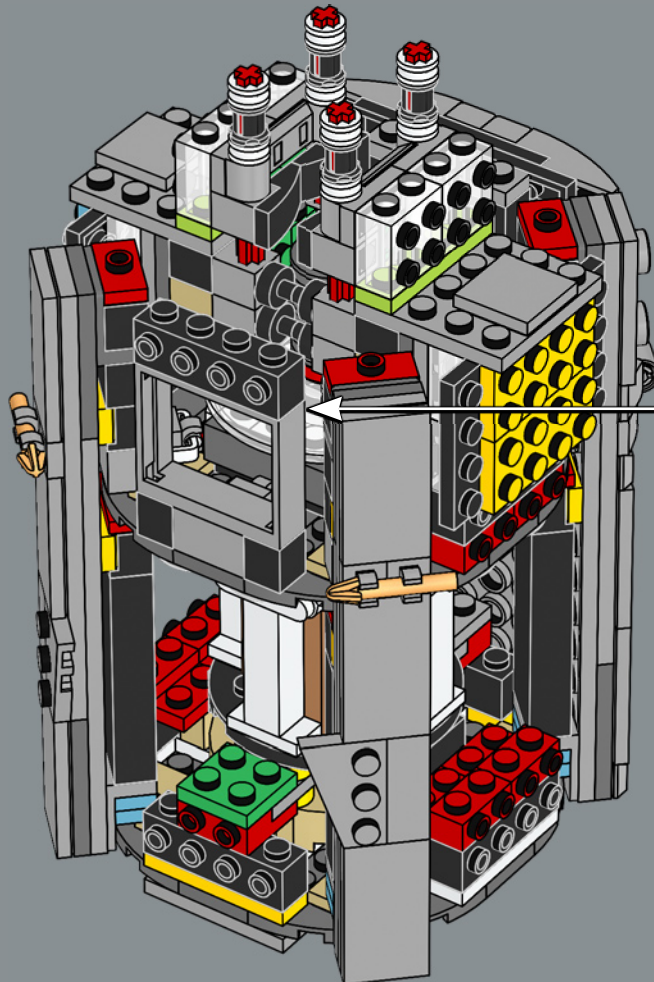
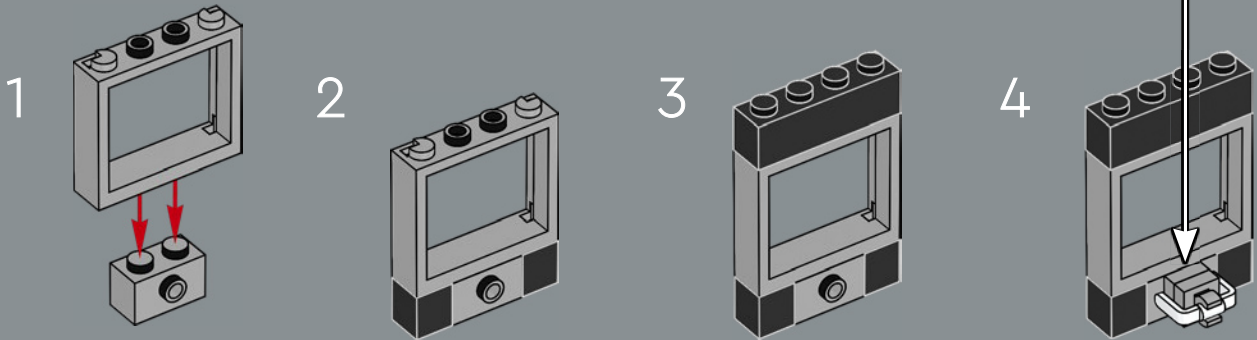
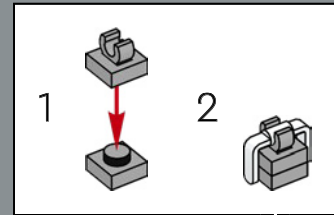


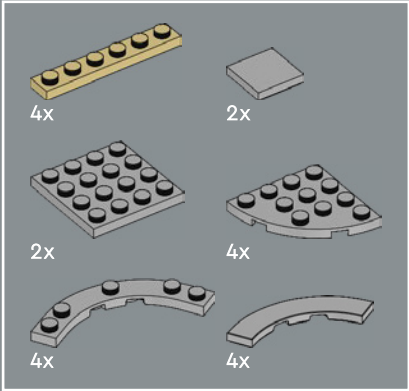
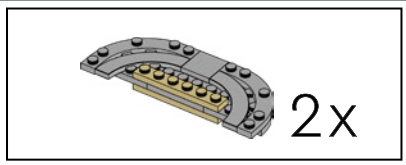
154





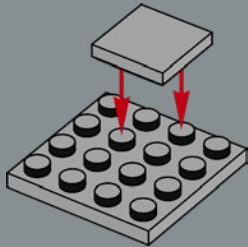
155



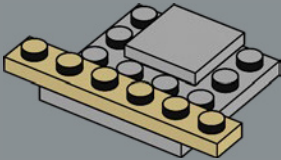


156

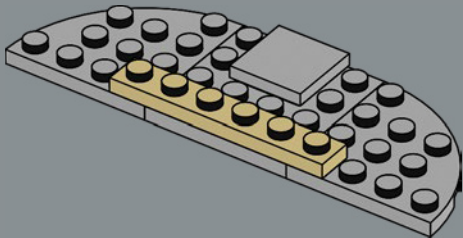
1



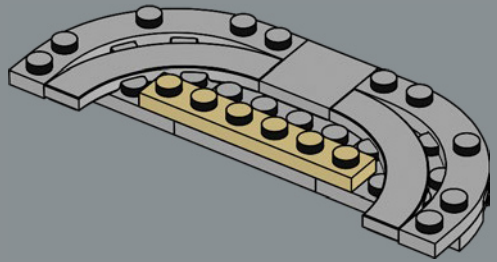
2



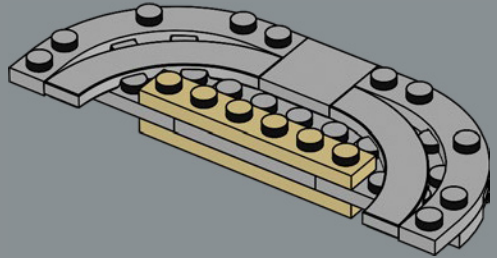
3



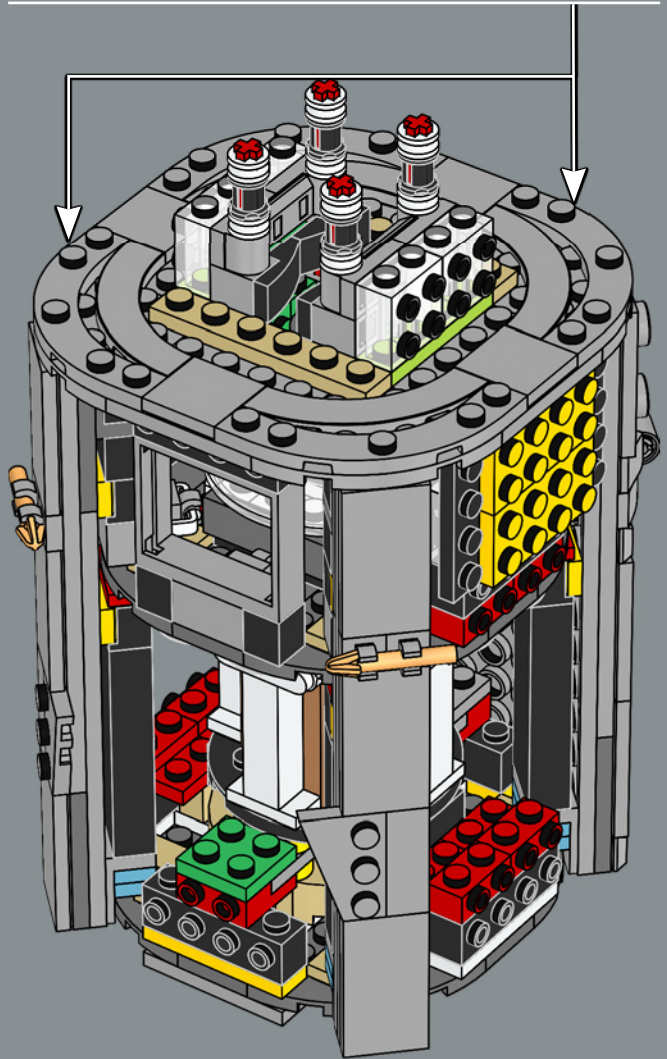
4

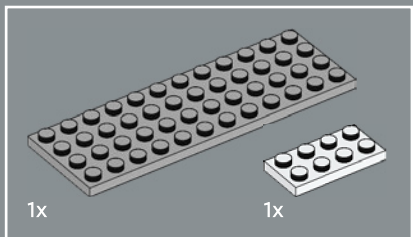
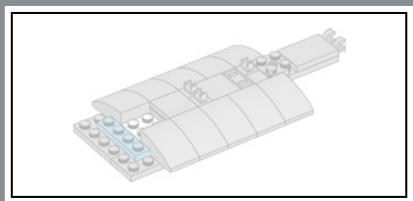


5

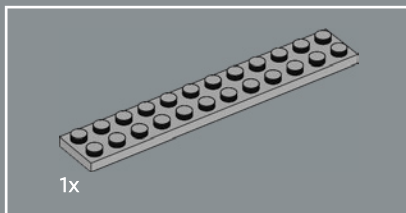
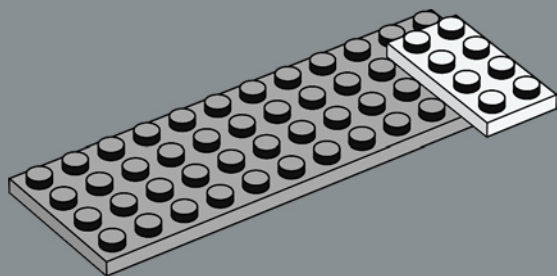


2x

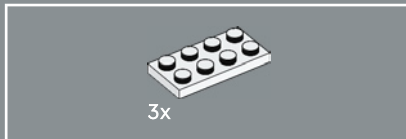
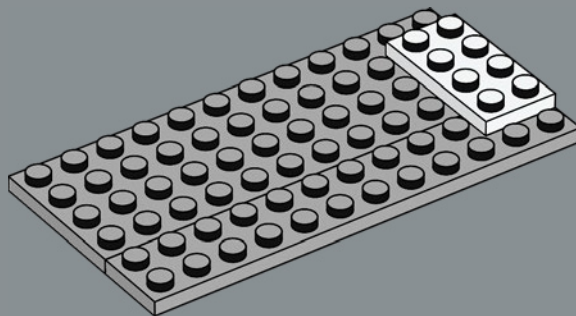




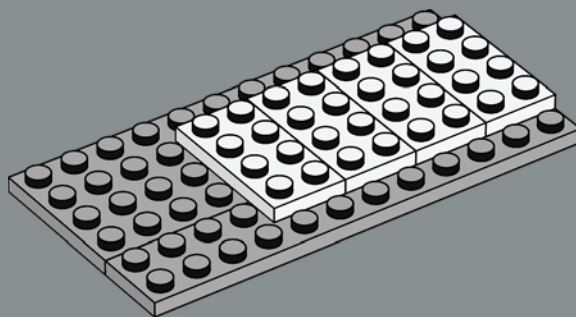
157

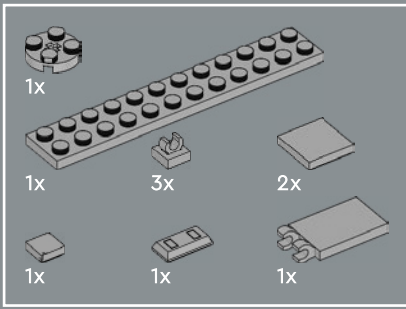


158

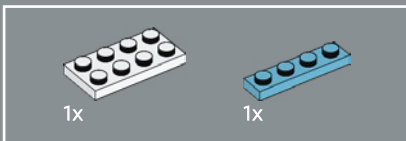
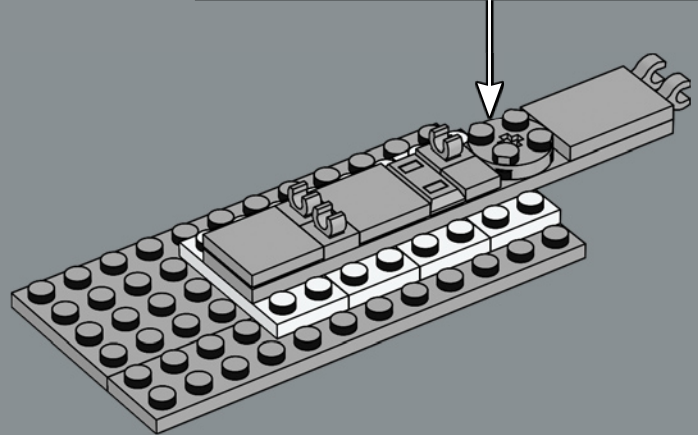
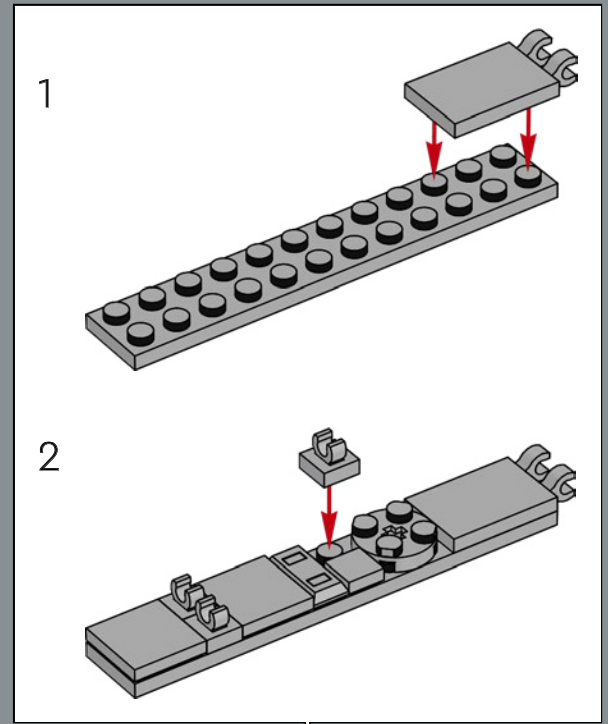


159

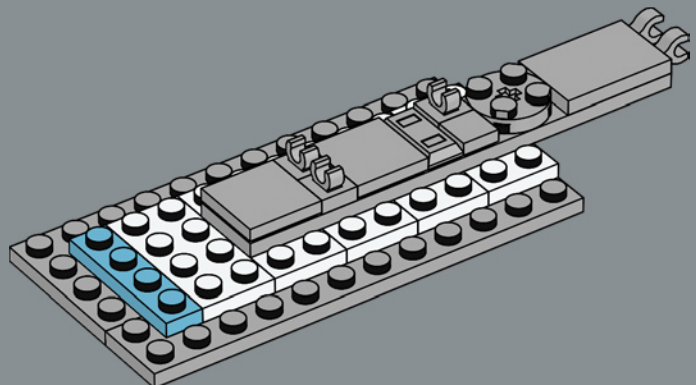


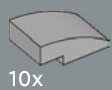


160



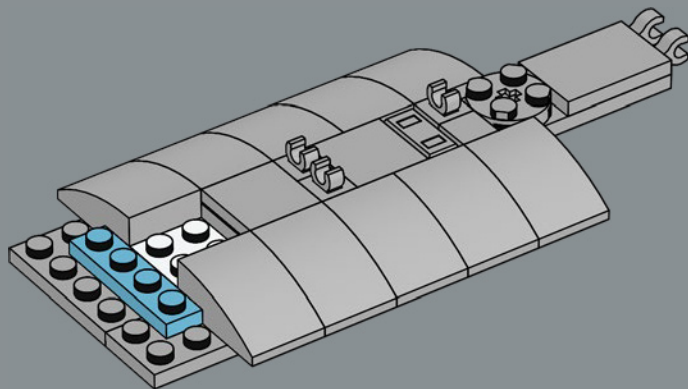
161



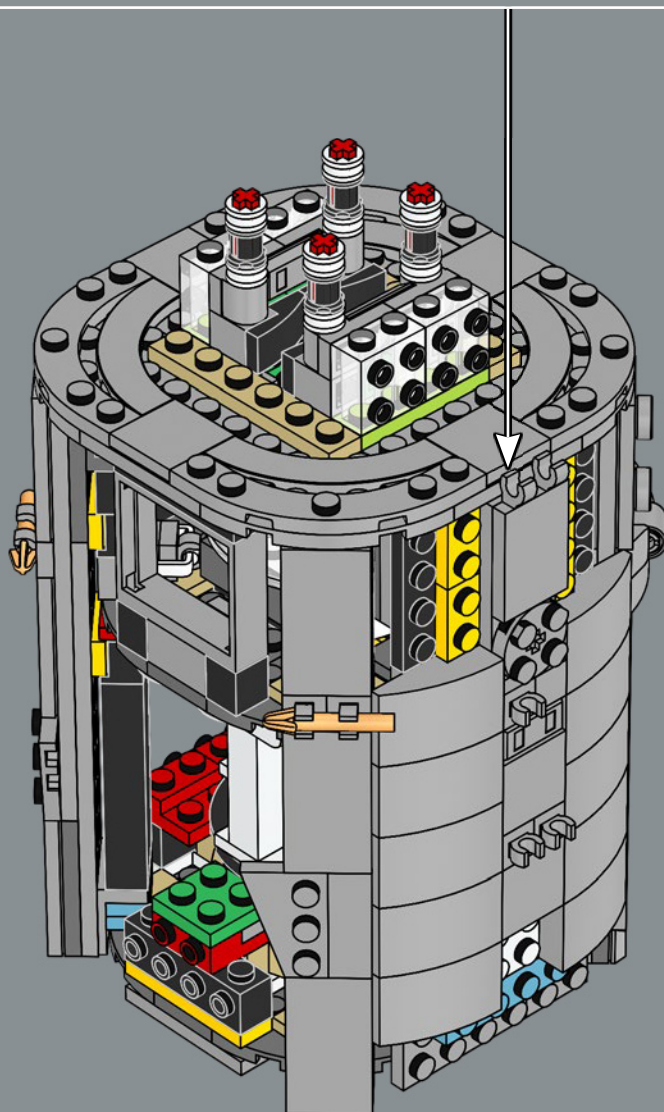


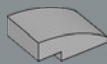
10x

162



163



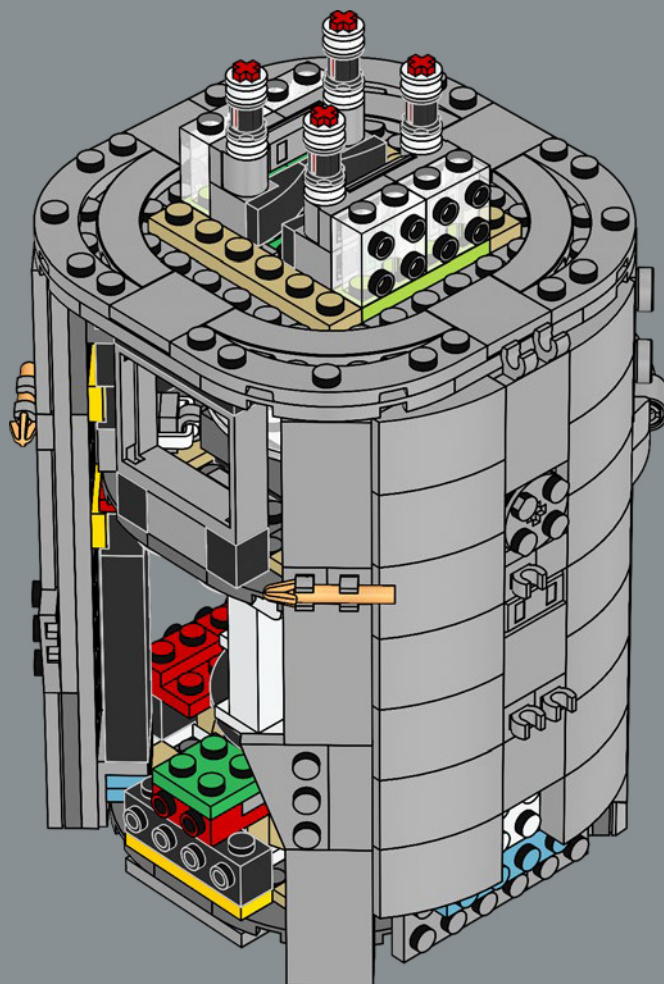


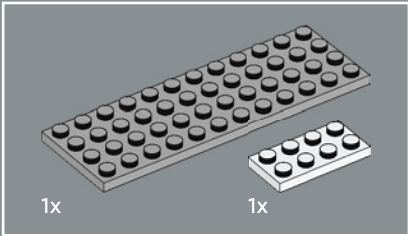
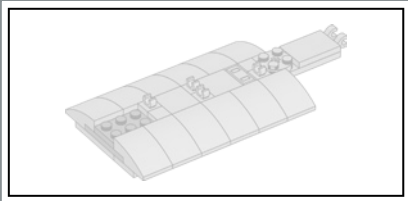
4x

截至目前，哈勃望远镜已经环绕地球飞行超18.4万次，
累计飞行里程突破80亿公里（约50亿英里）。

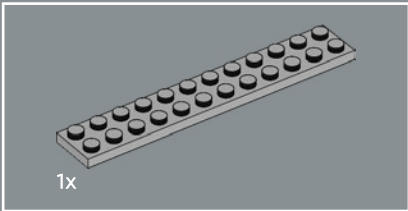
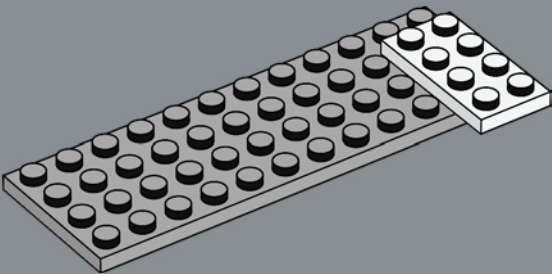


164

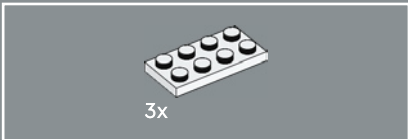
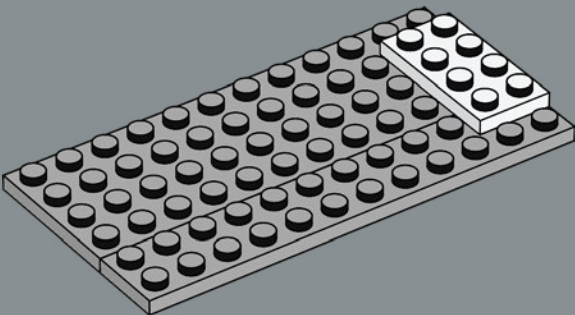




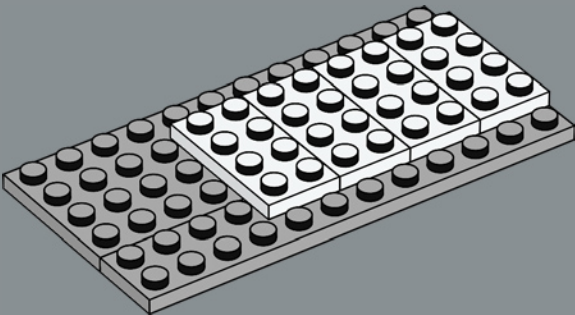
165

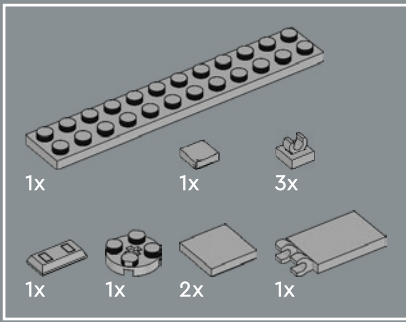


166

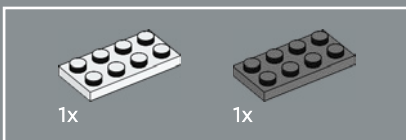
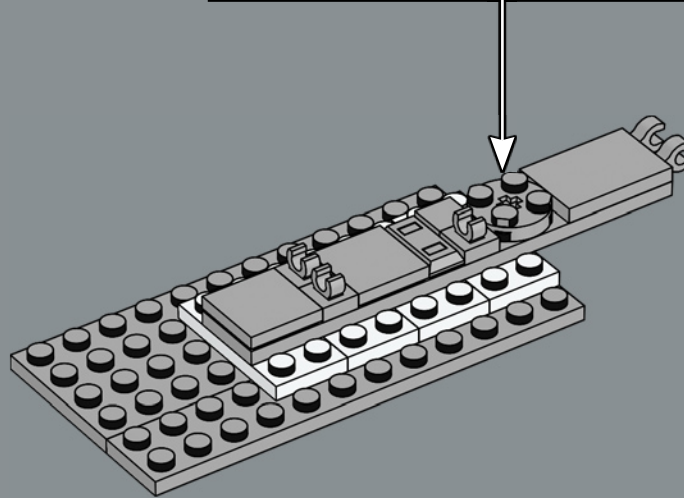
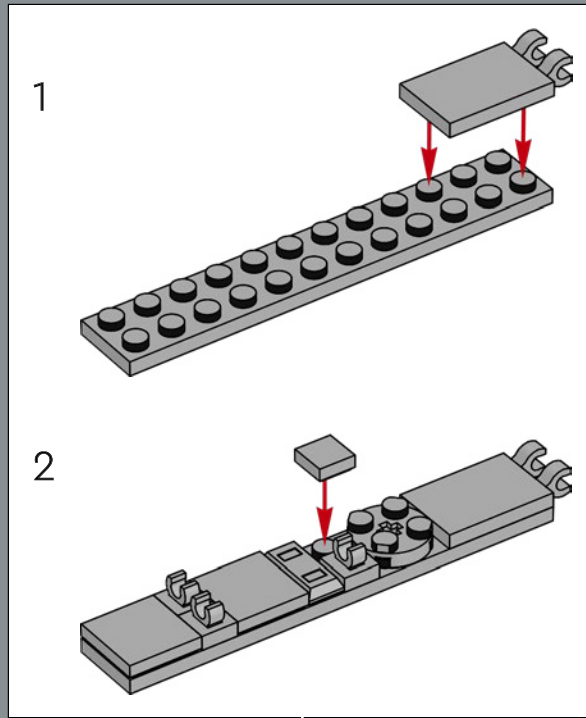


167

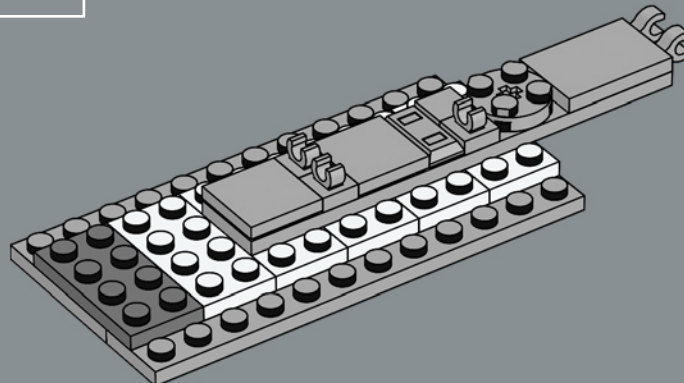




168



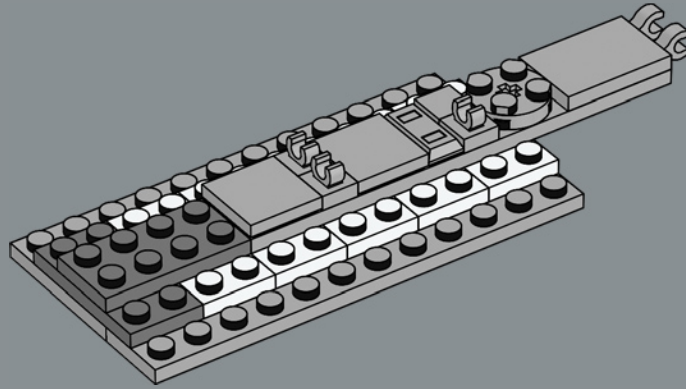
169





1x

170

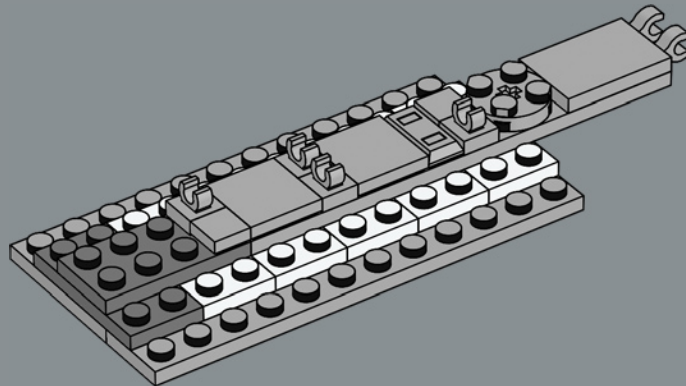


1x



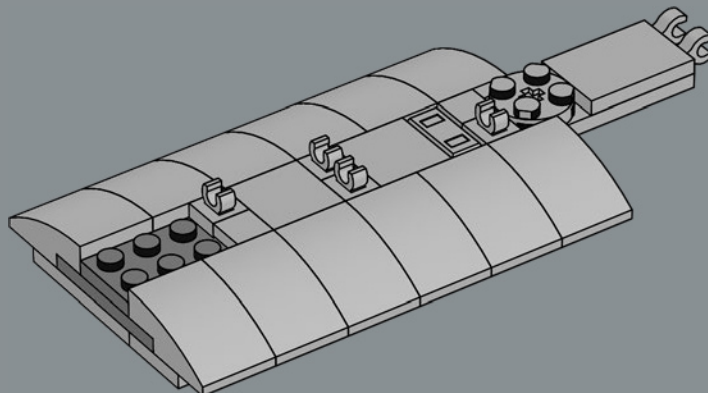
1x

171

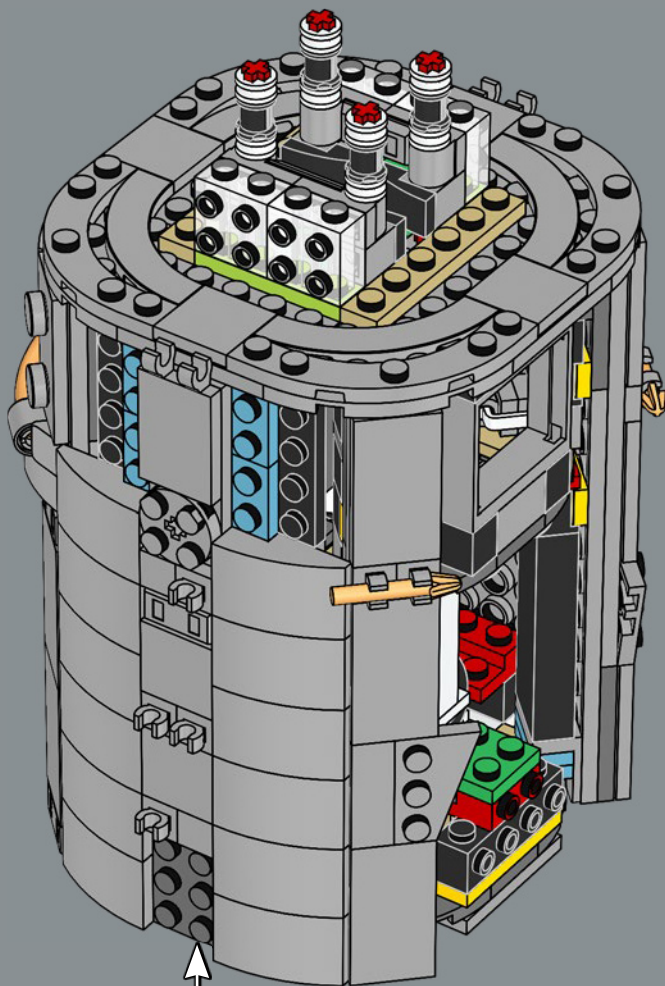


12x

172



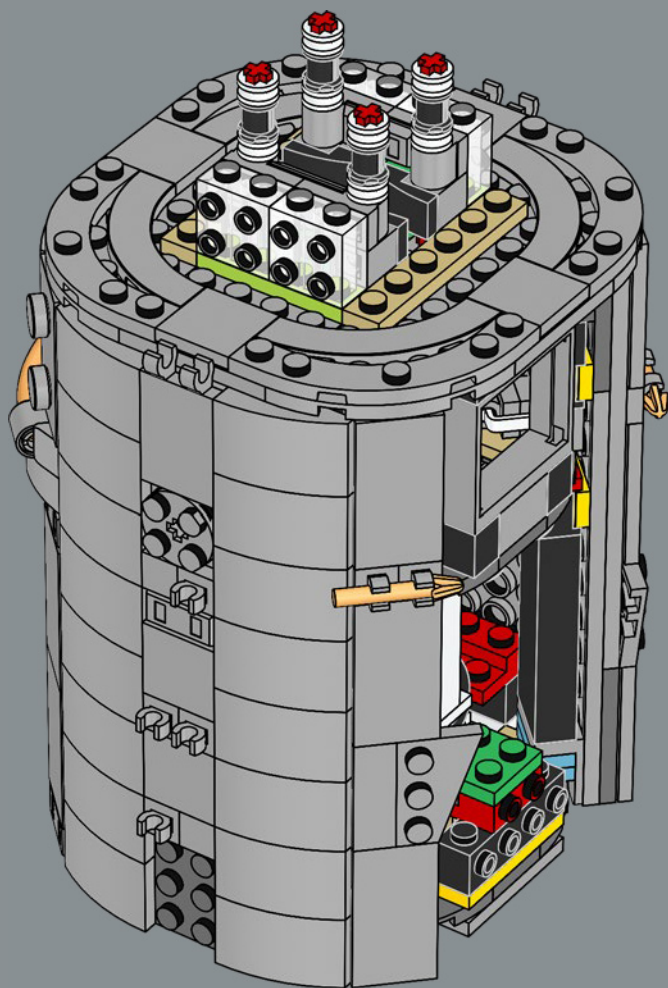
173

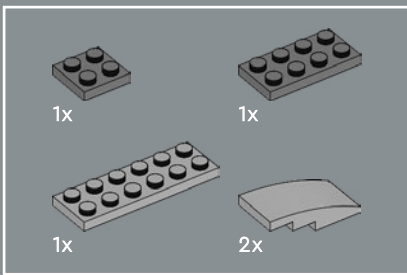




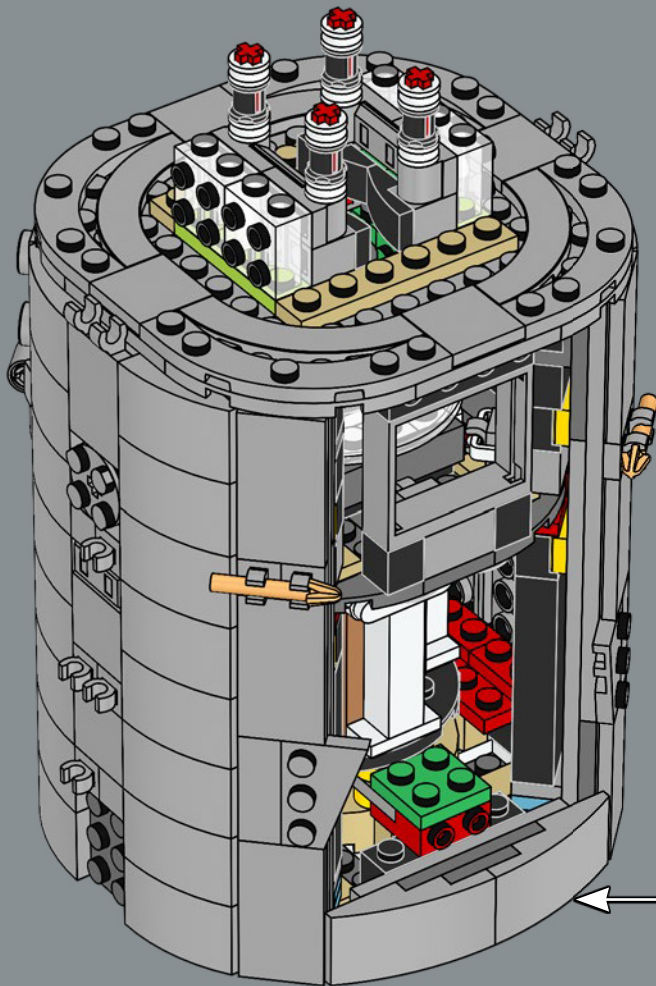
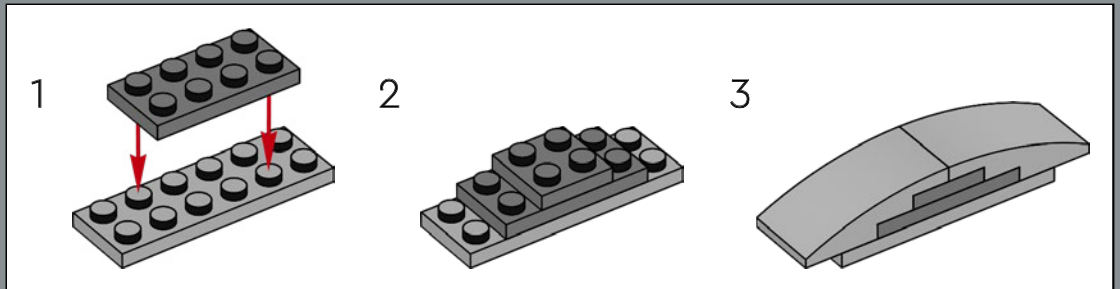
4x

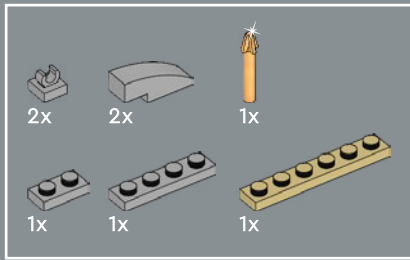
174



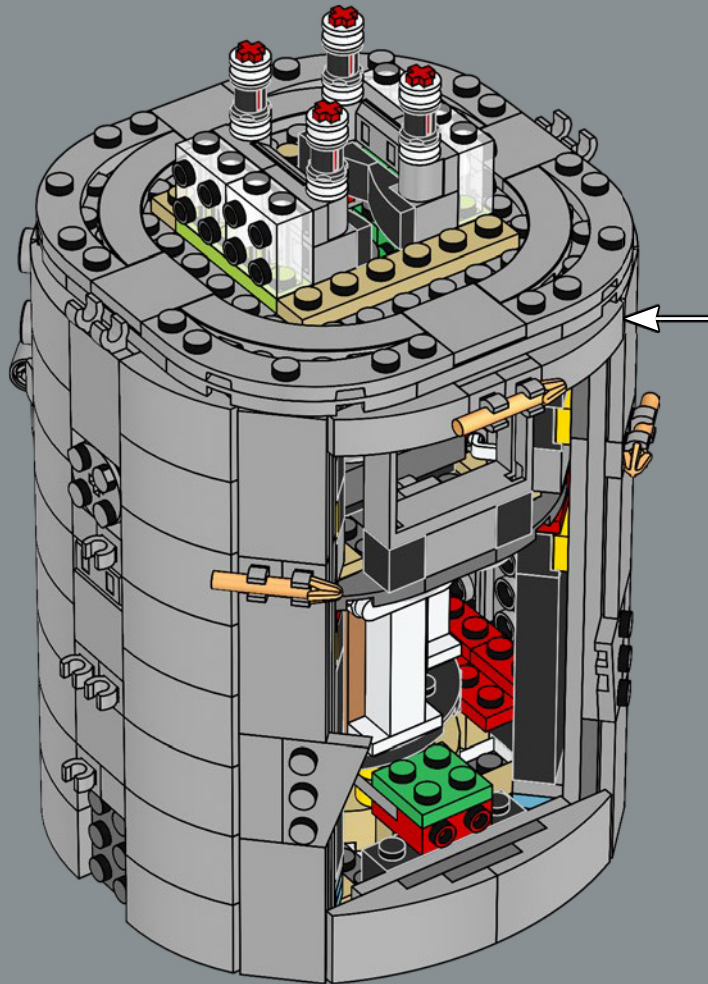
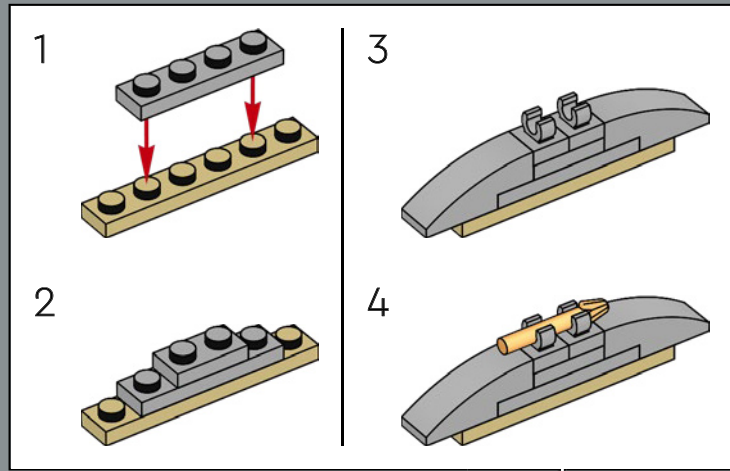


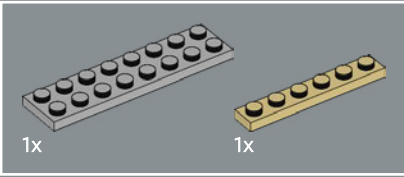
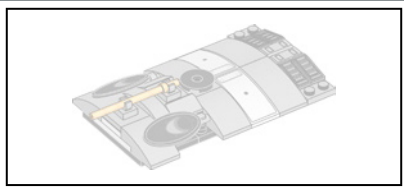
175



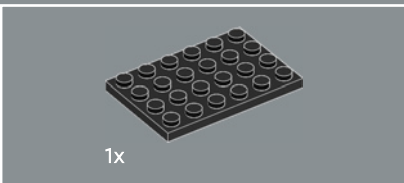
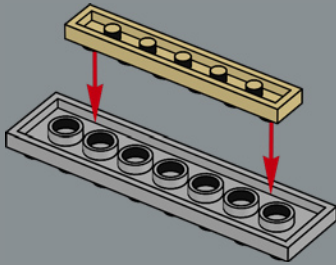


176

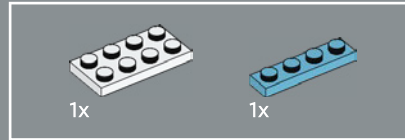
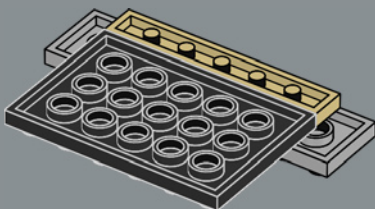




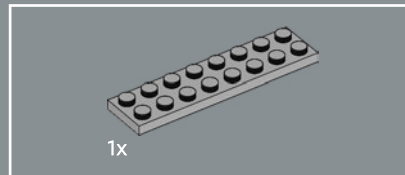
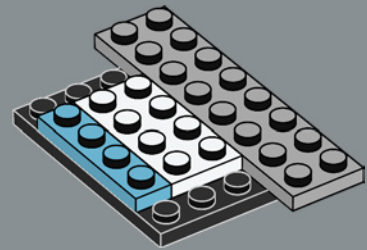
177



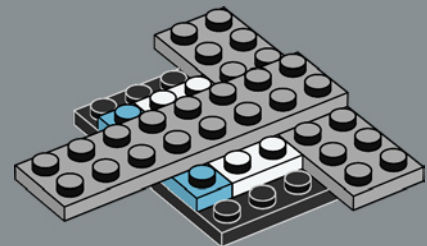
178

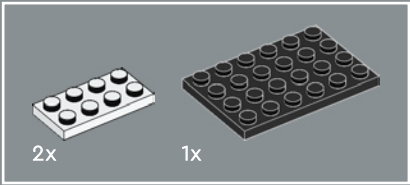


179

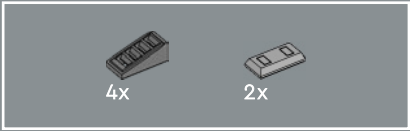
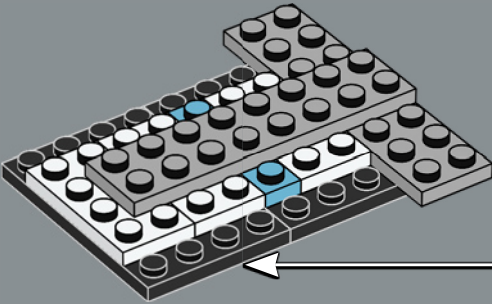
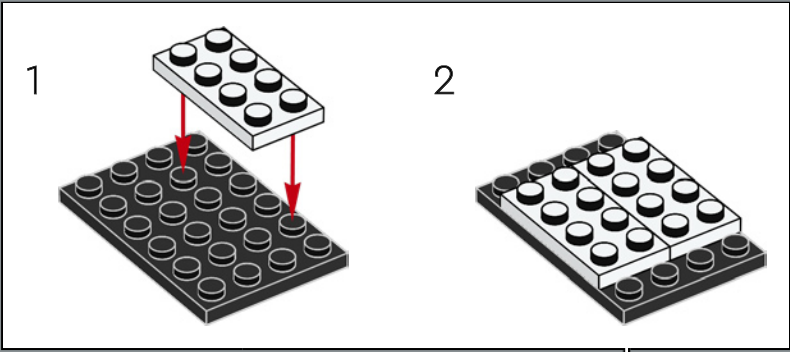


180

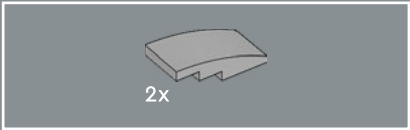
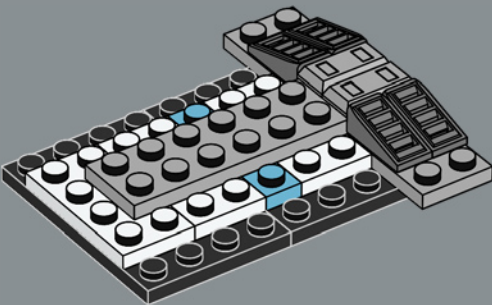




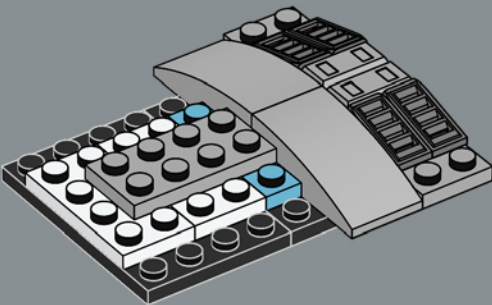
181



182

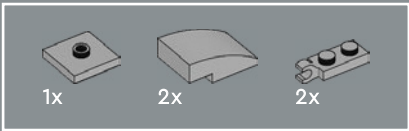
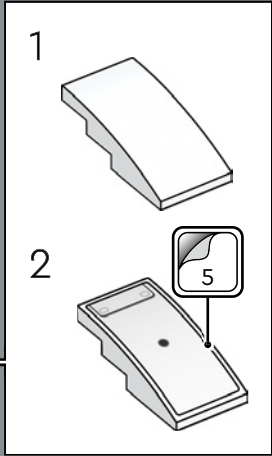
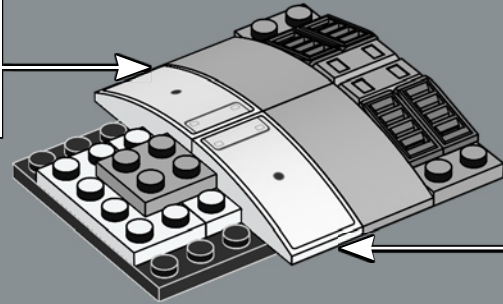
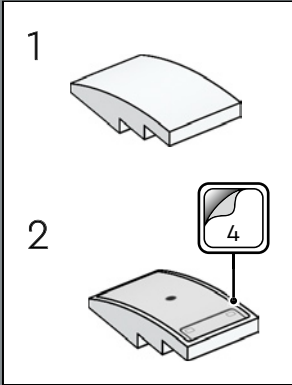


183

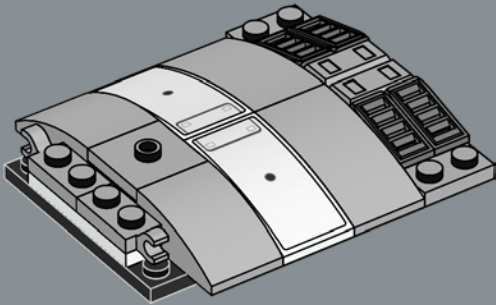


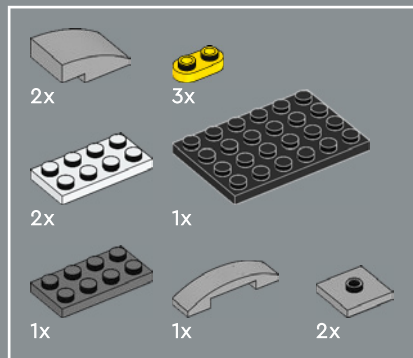


184

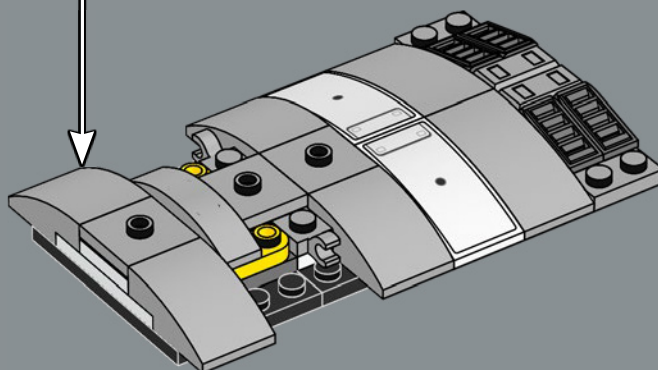
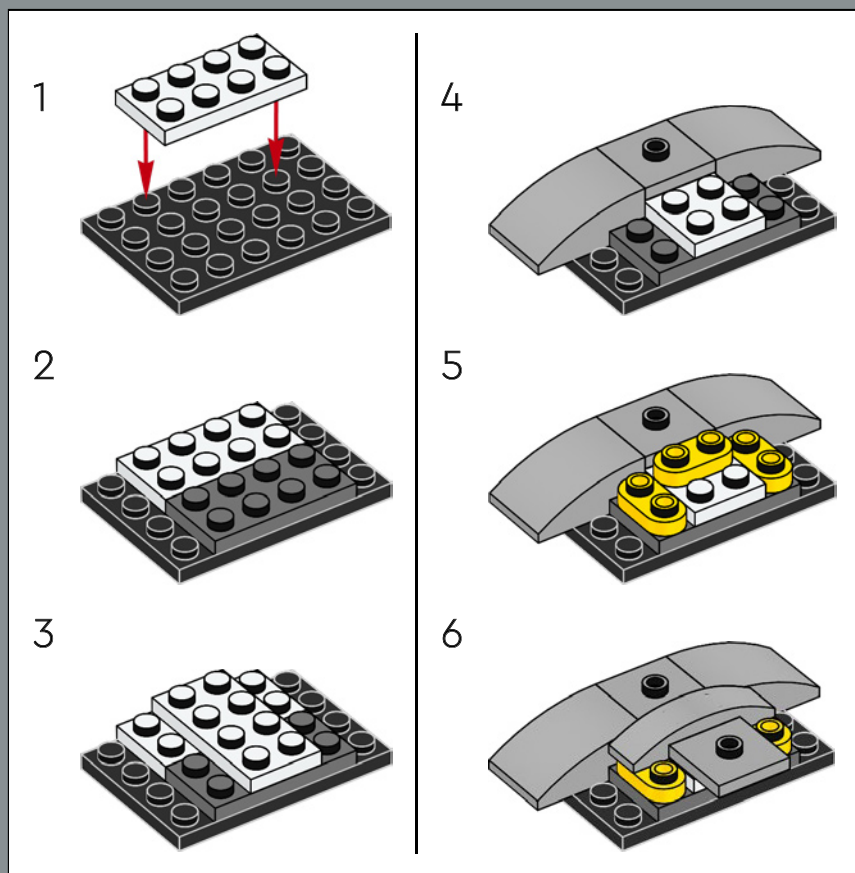


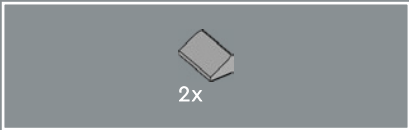
185



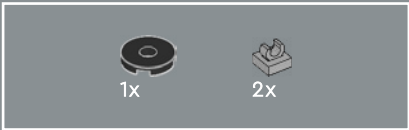
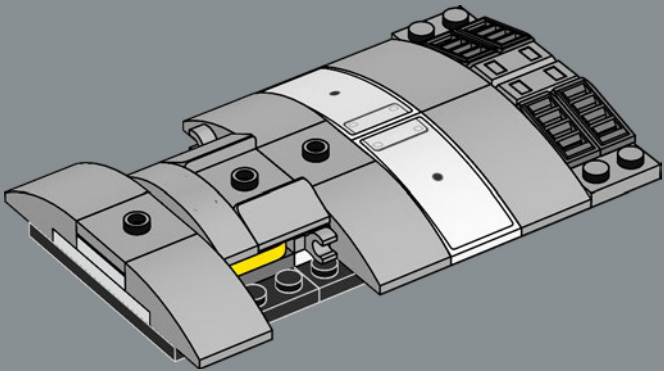


186

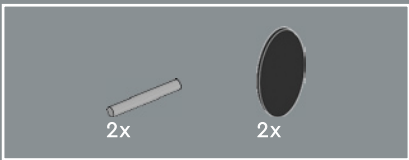
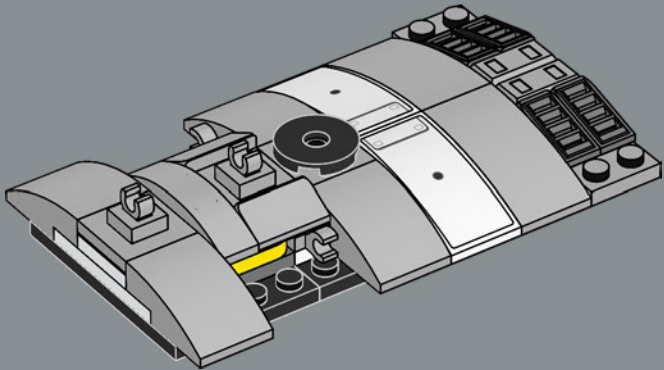




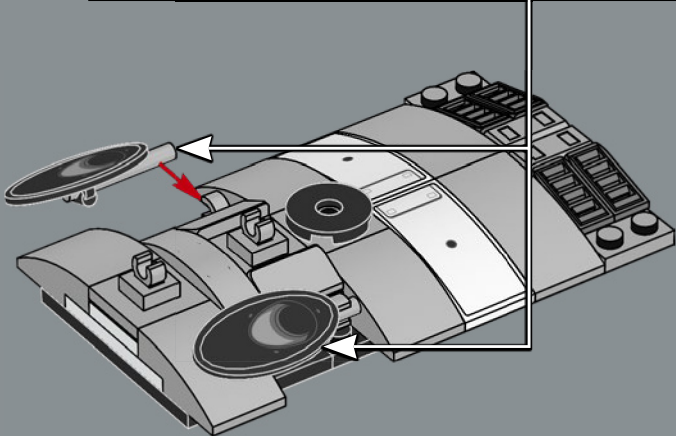
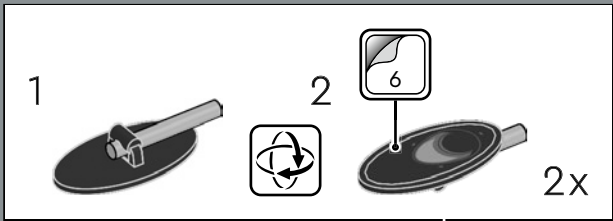
187



188

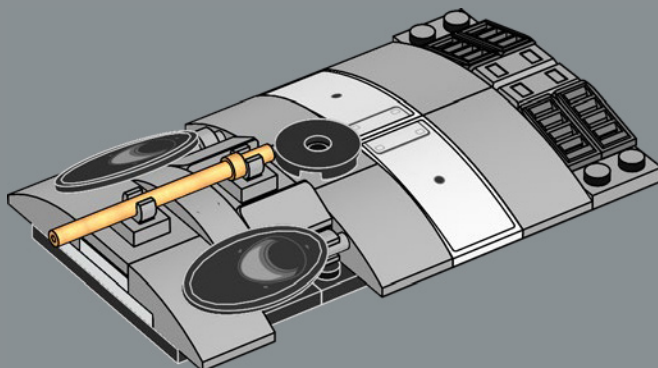


189

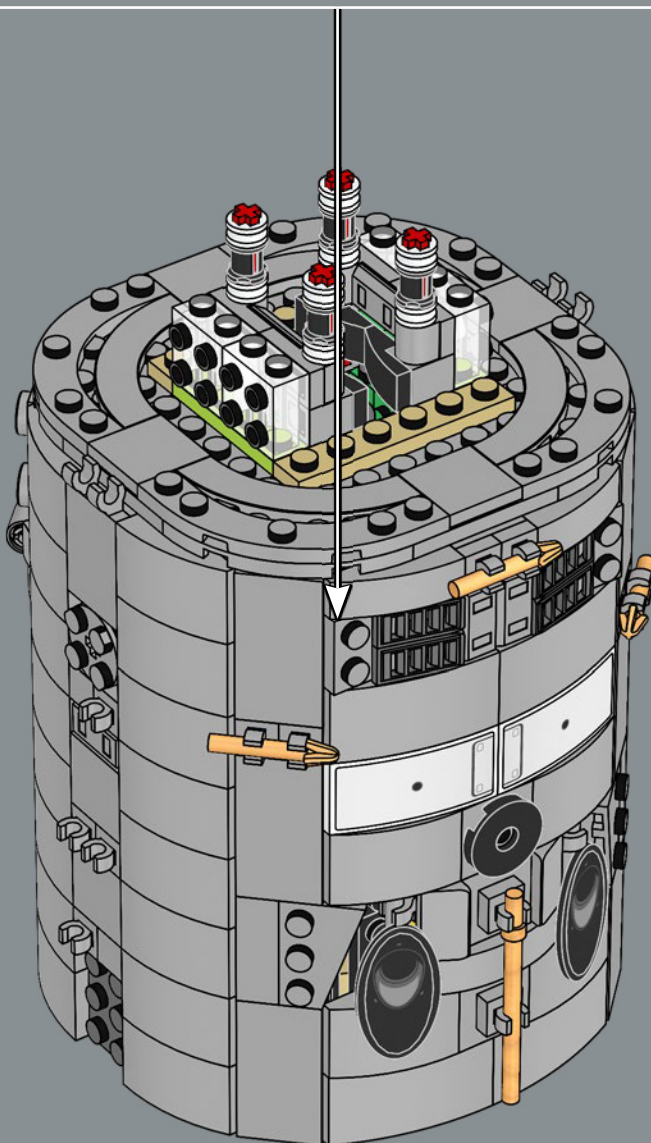


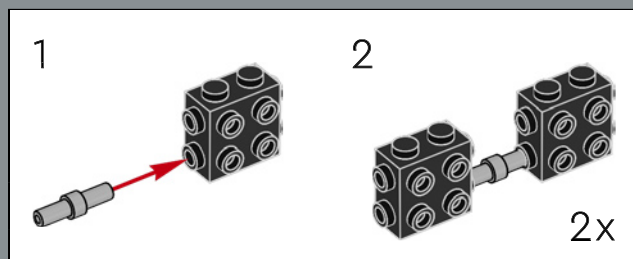
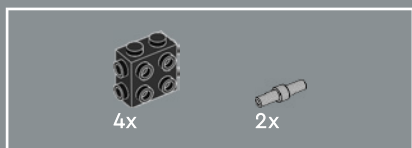


190

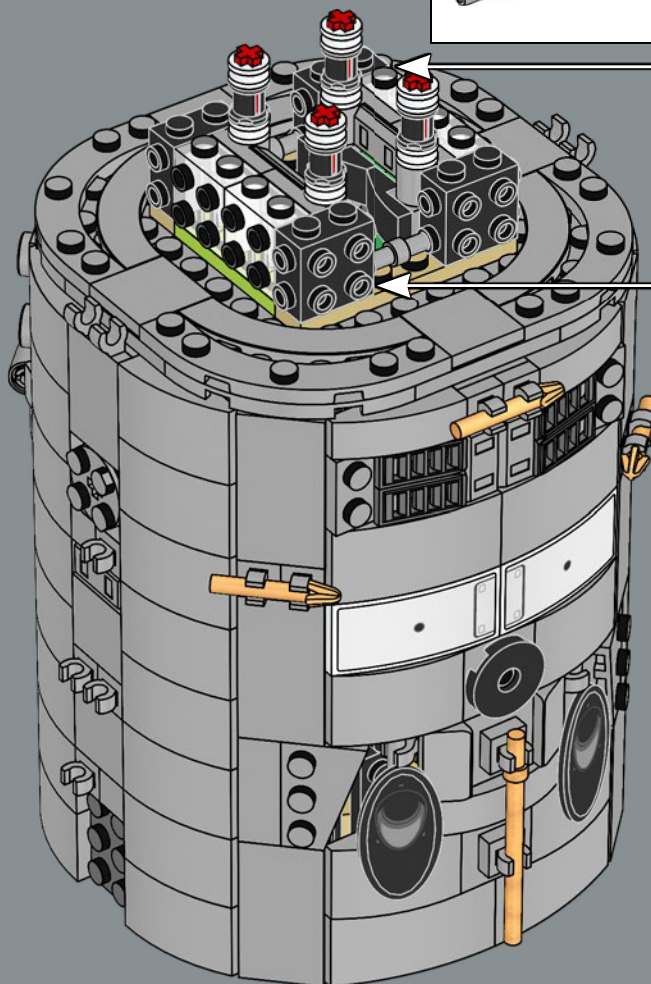


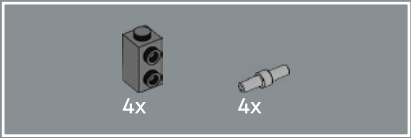
191



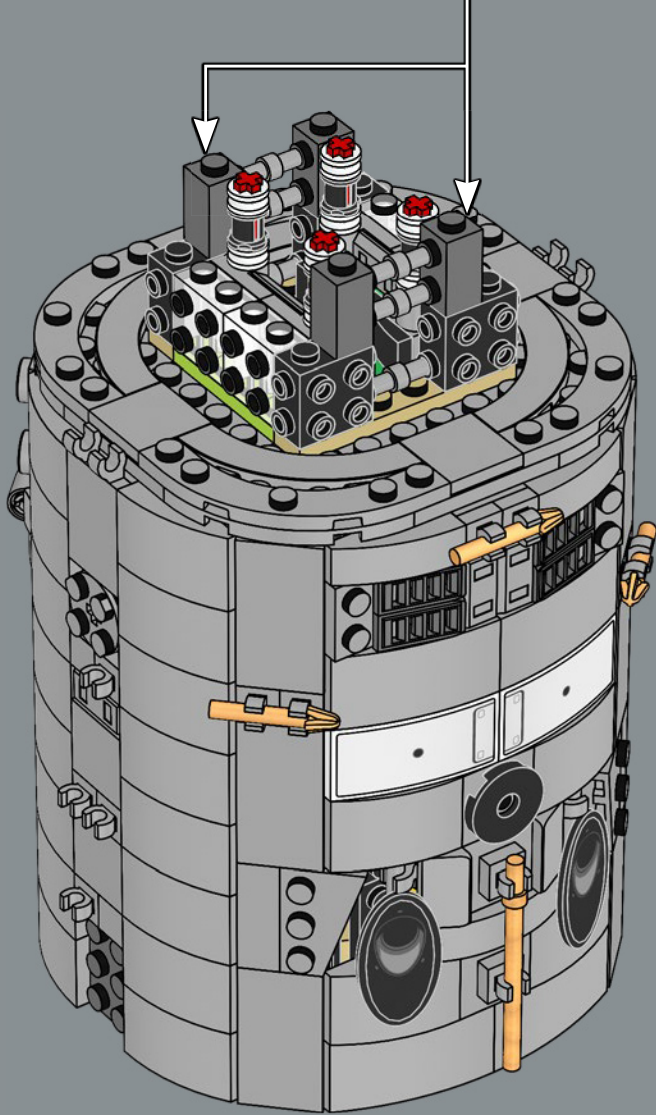
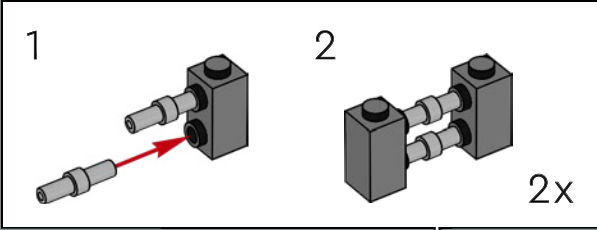


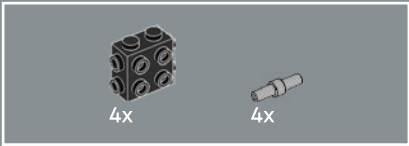
192



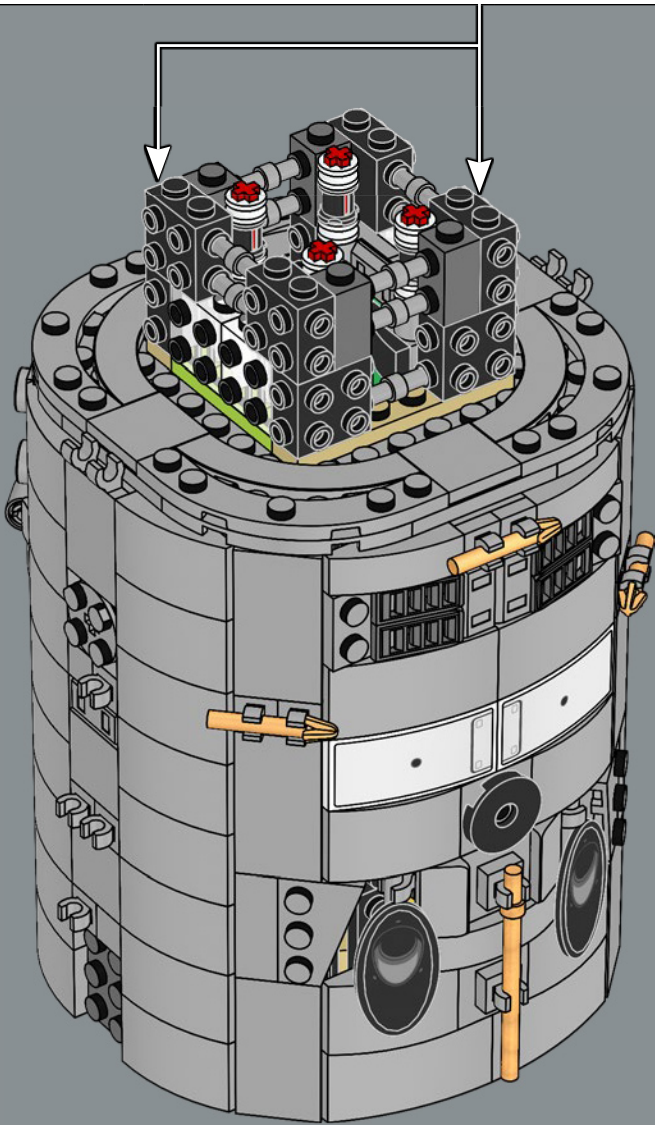
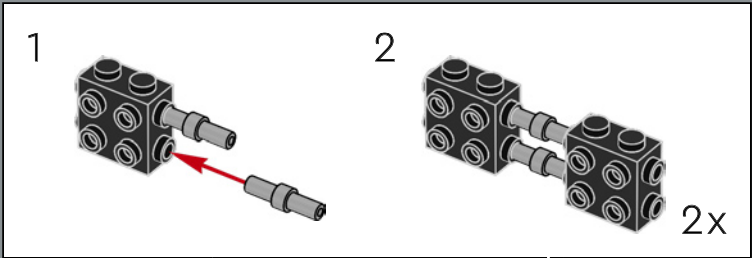


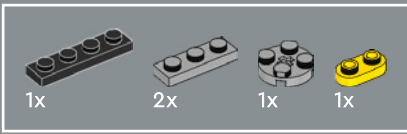
193



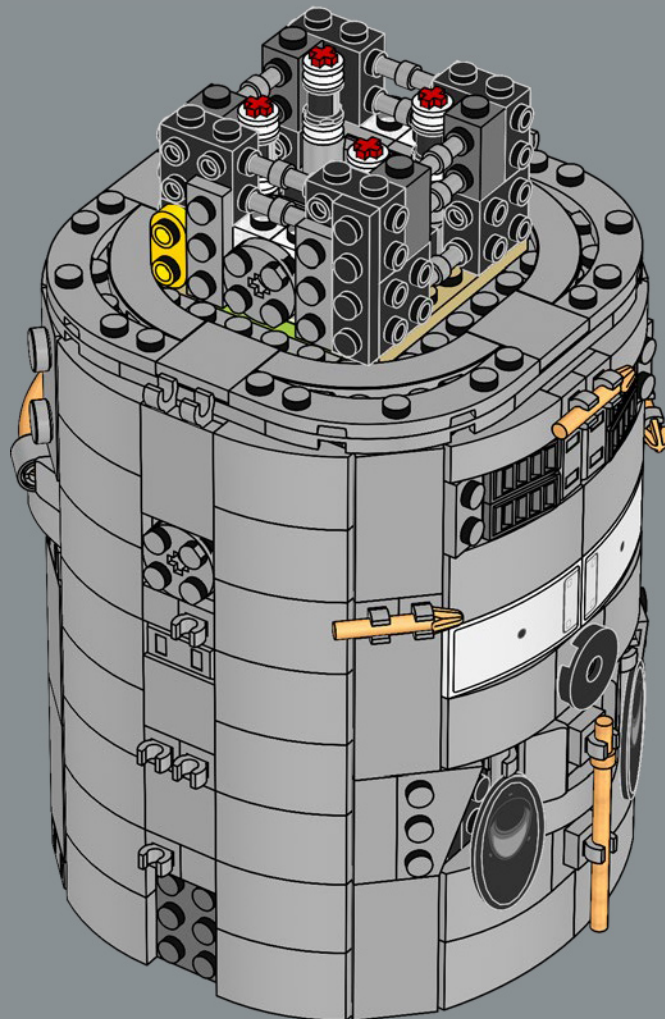


194





195



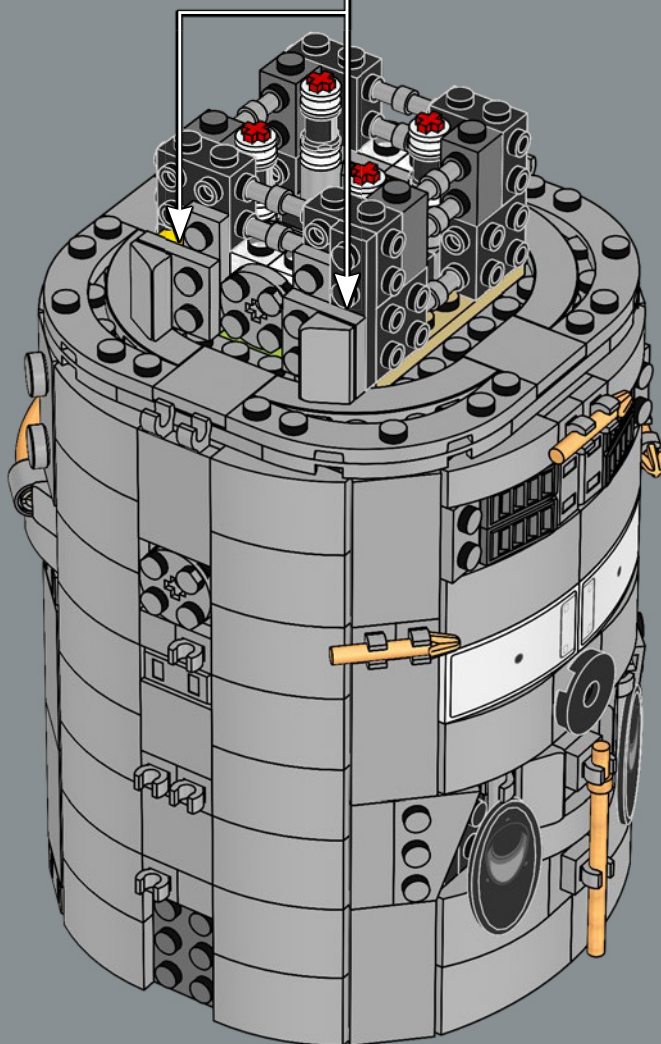
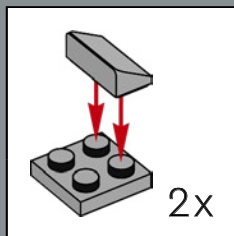


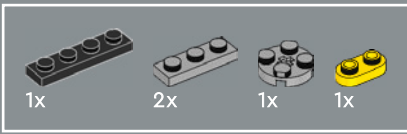
2x



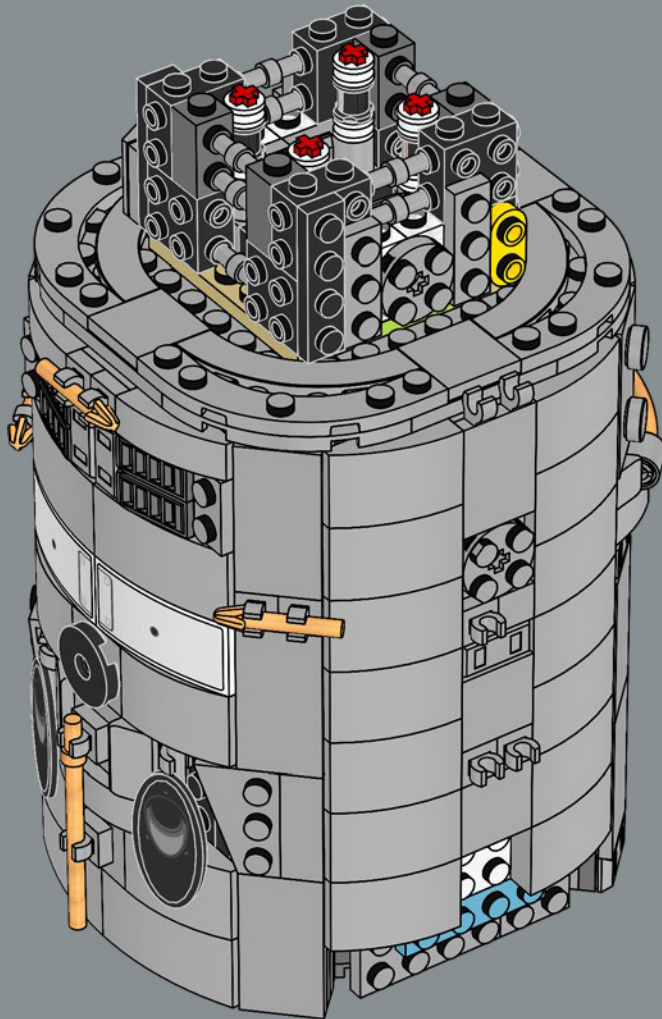
2x

196





197



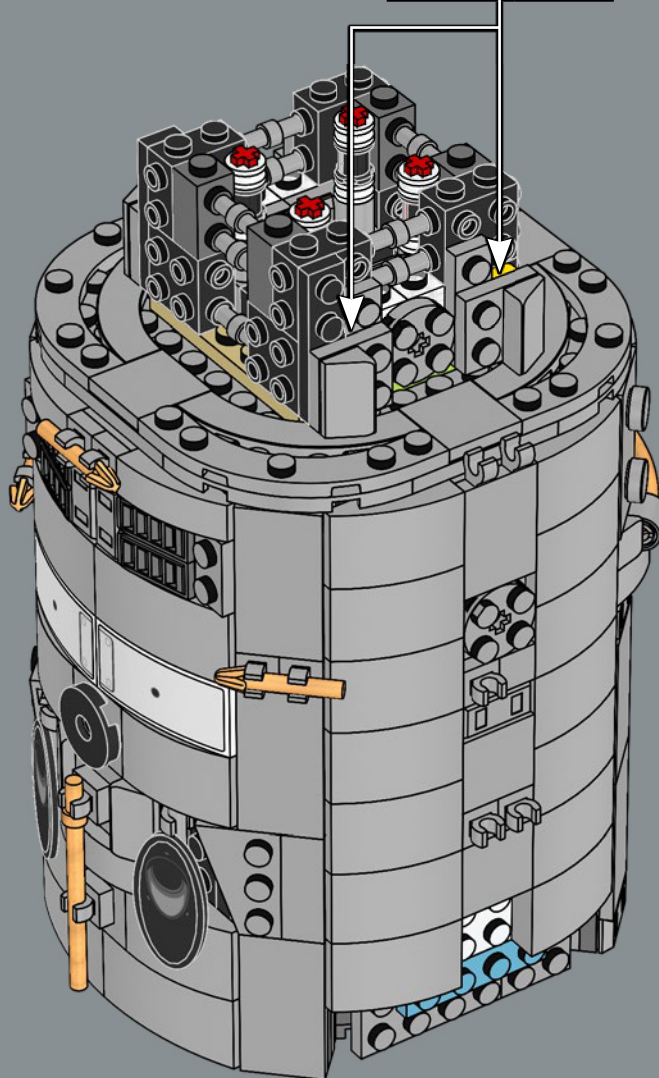
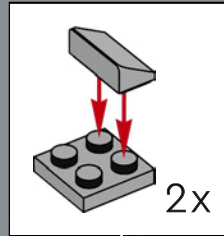


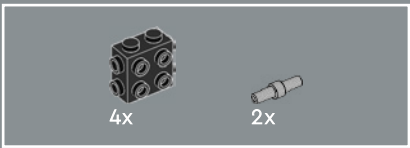
2x



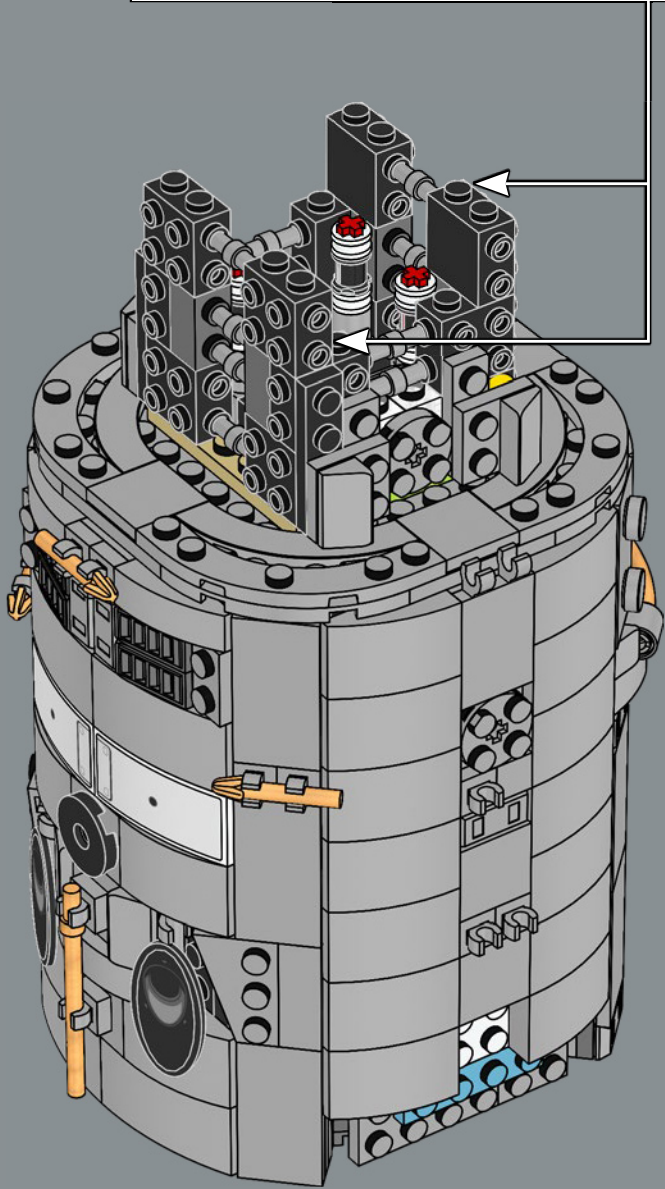
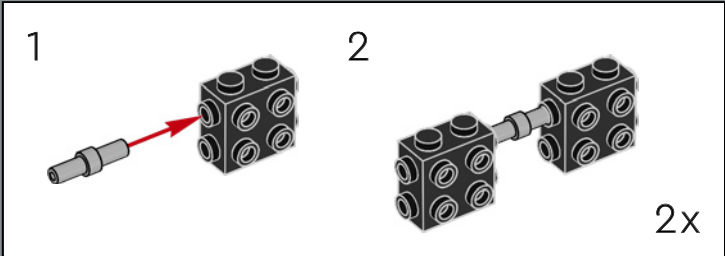
2x

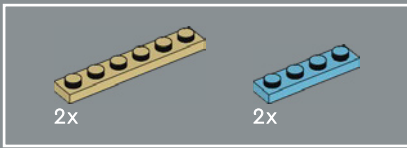
198



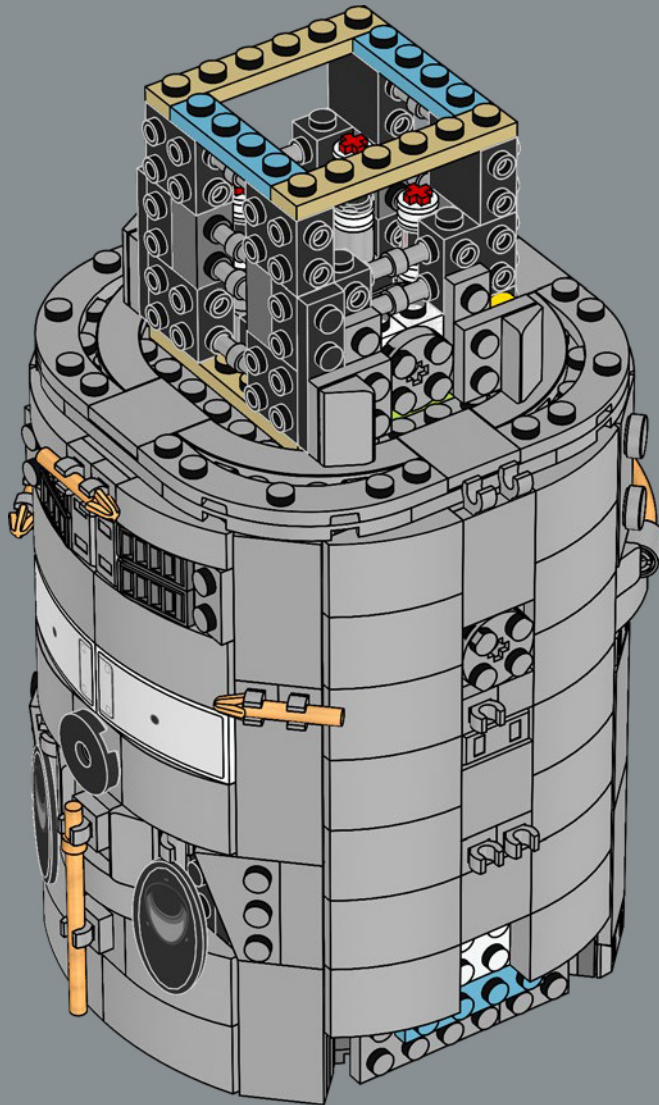


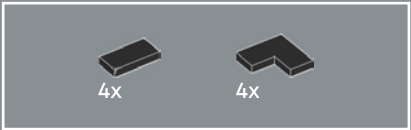
199



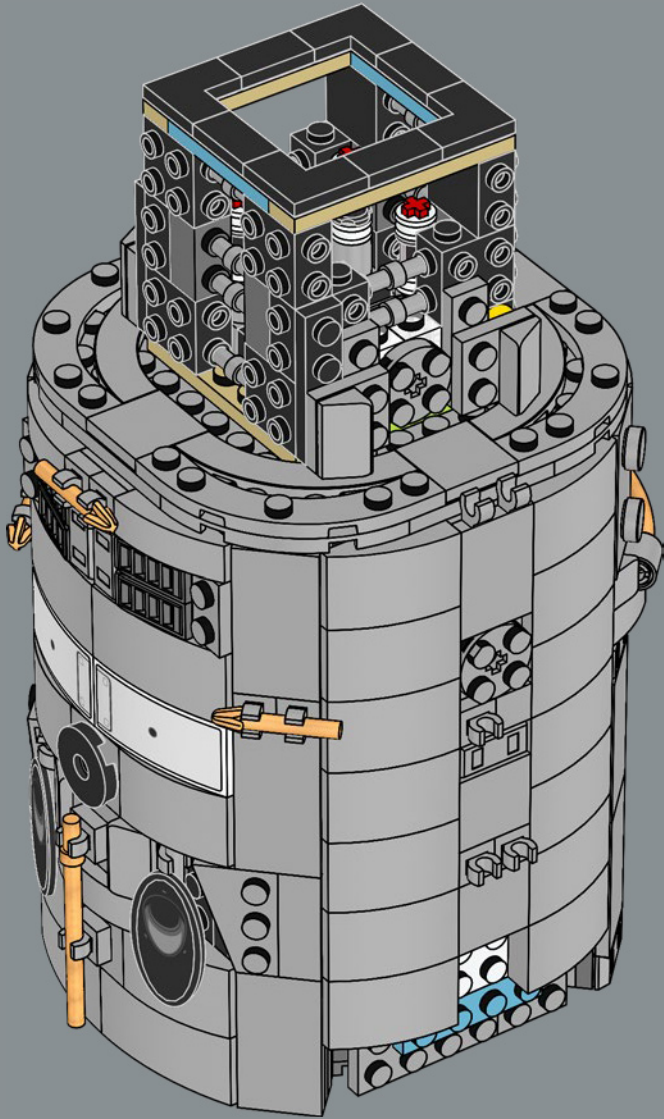


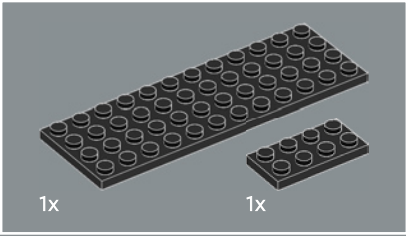
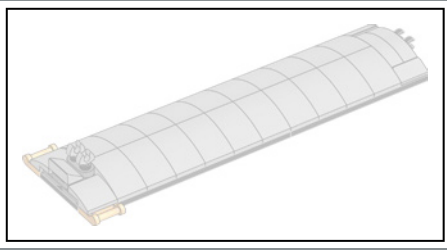
200



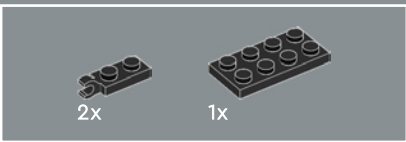
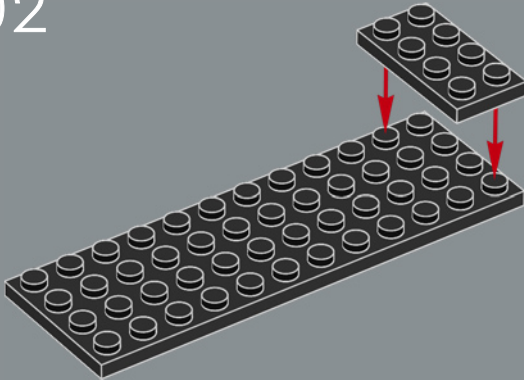


201

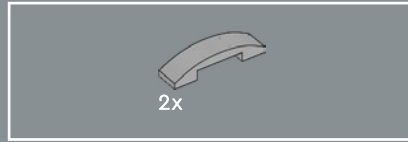
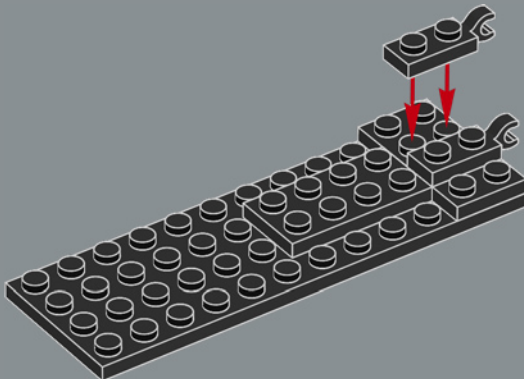




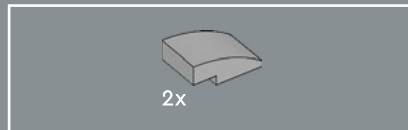
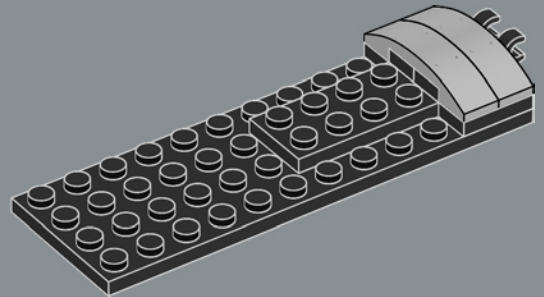
202



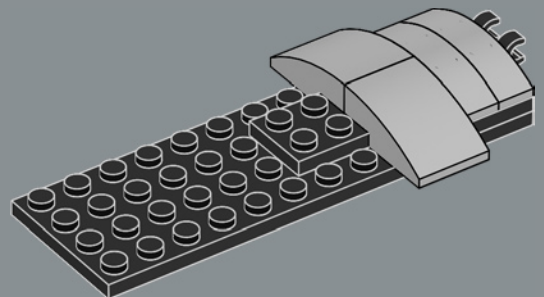
203

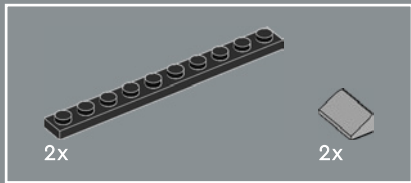


204

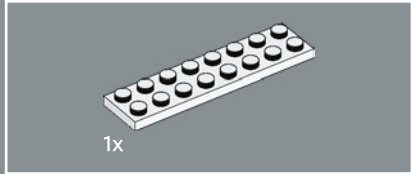
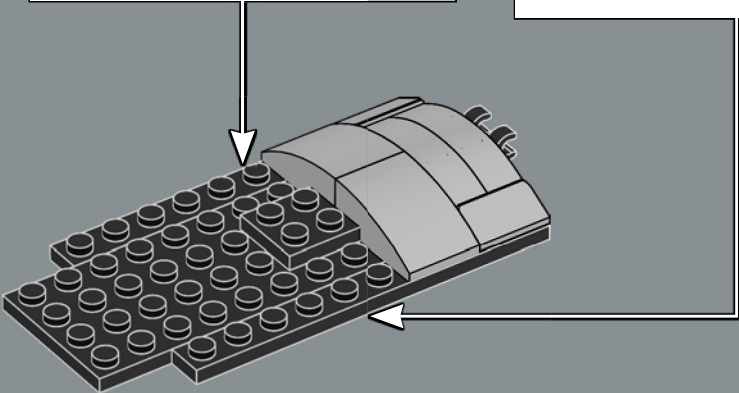
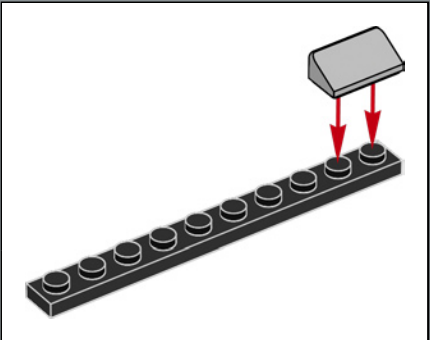
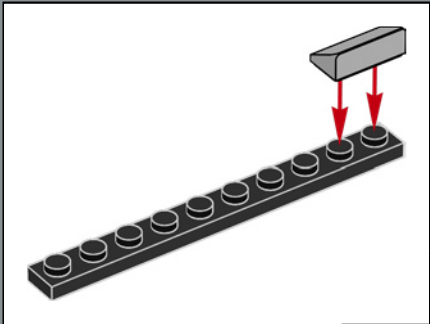


205

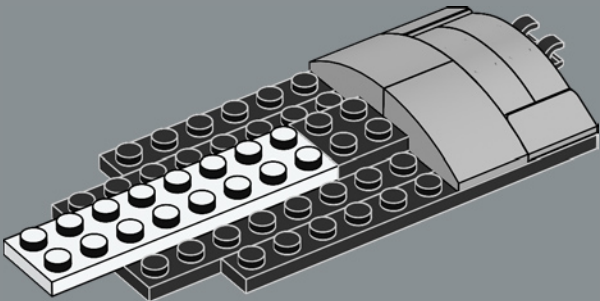


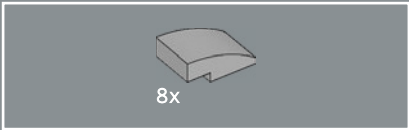


206

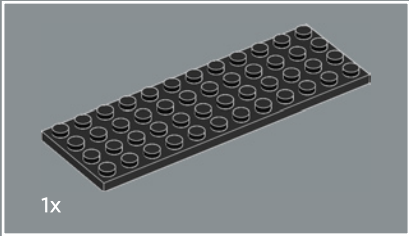
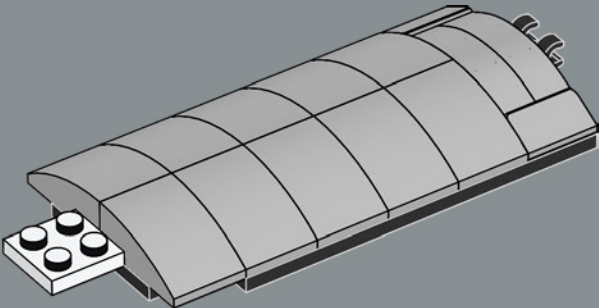


207

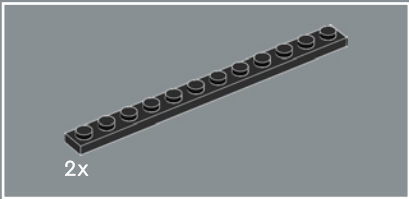
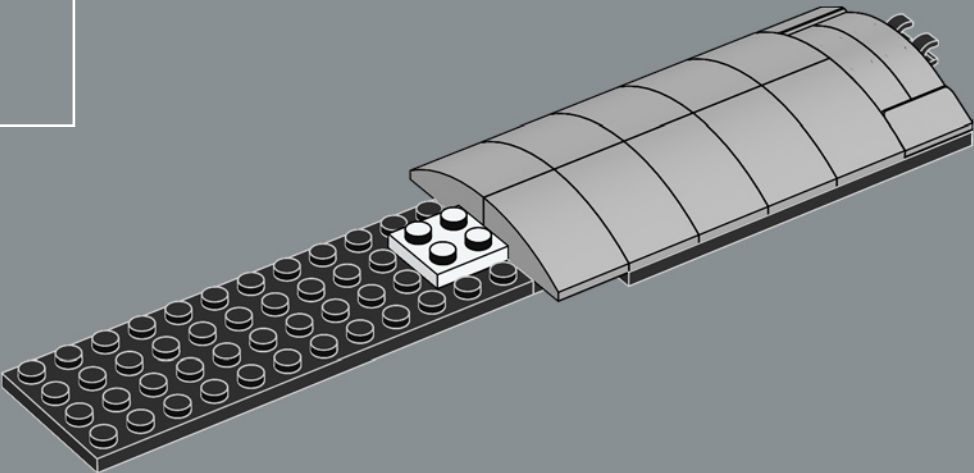




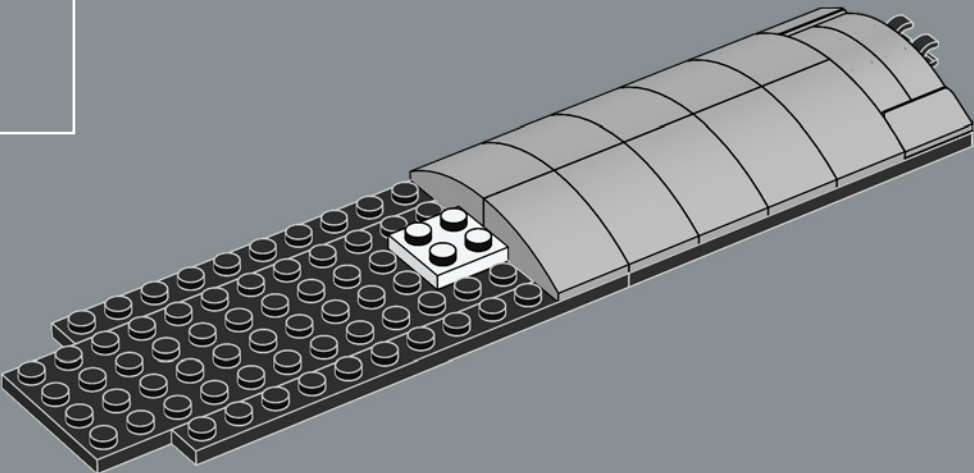
208

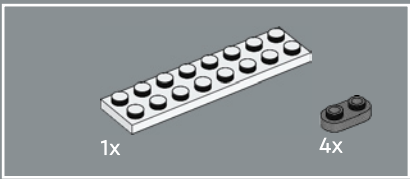


209

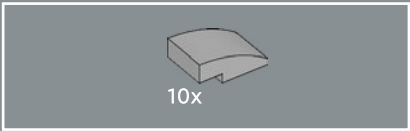
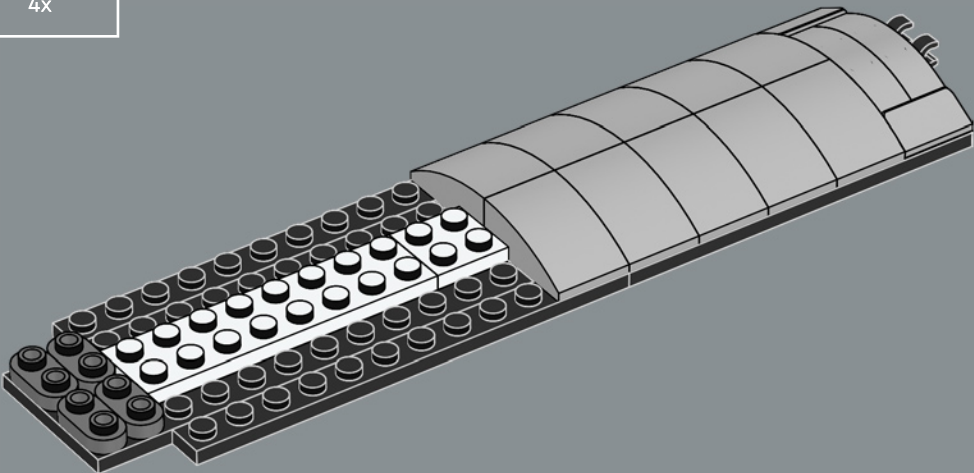


210

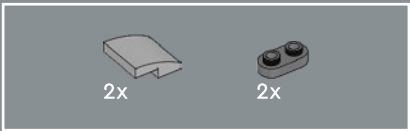
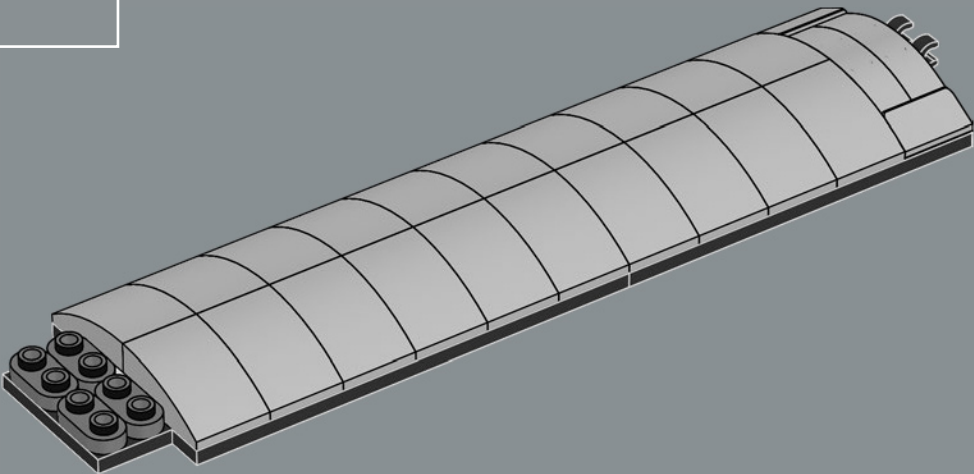




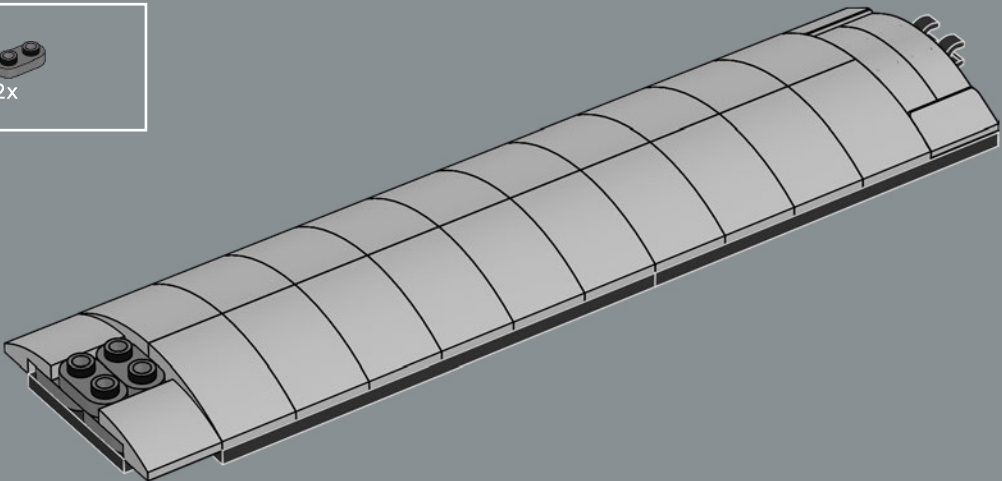
211



212

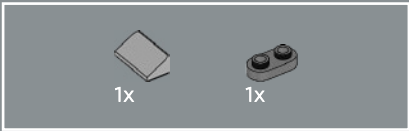
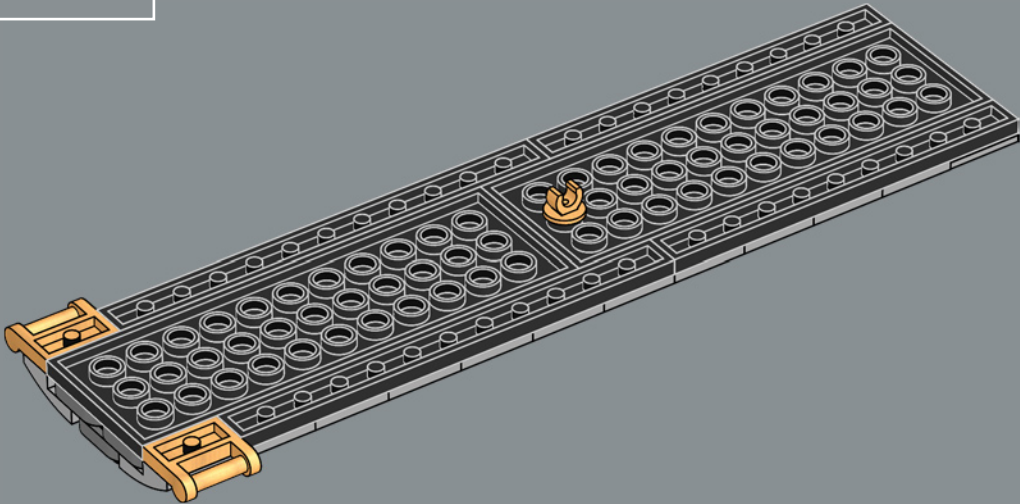


213

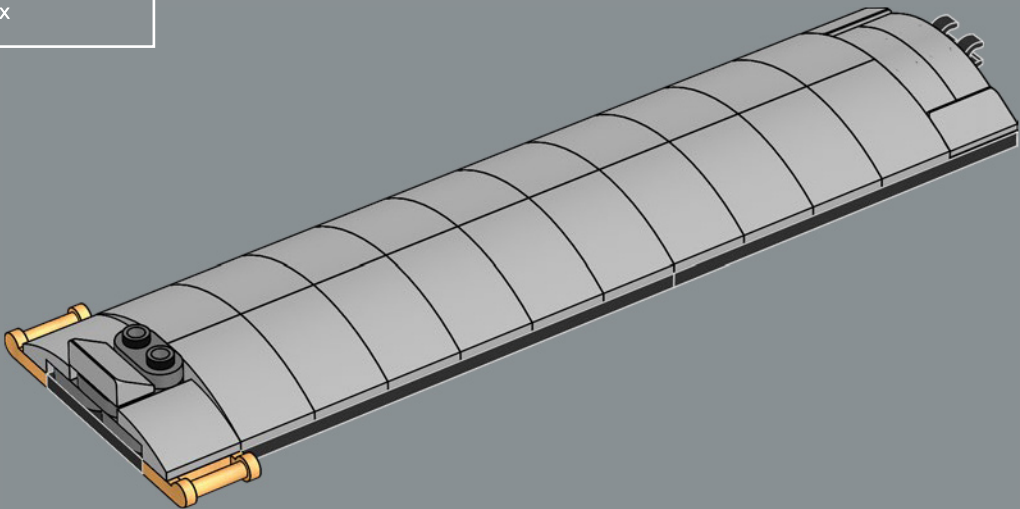




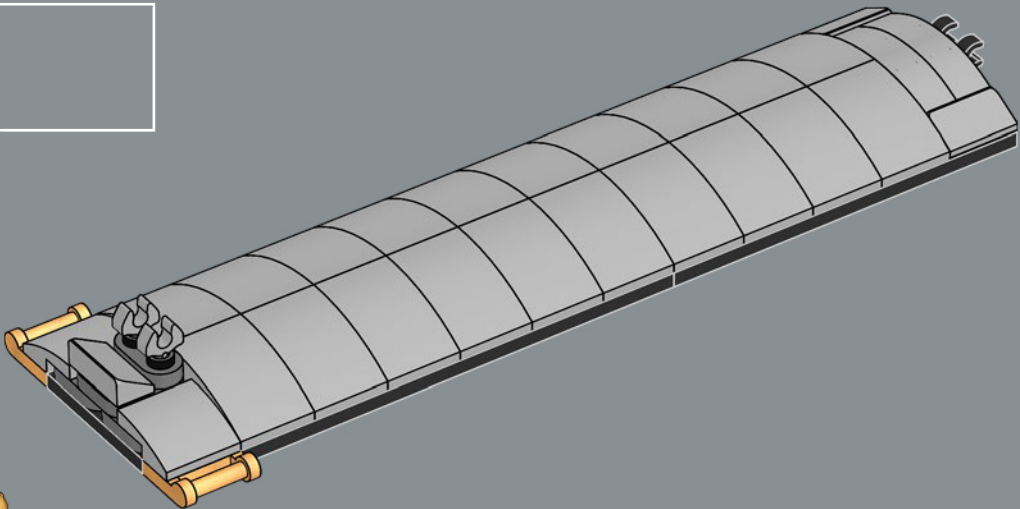
214

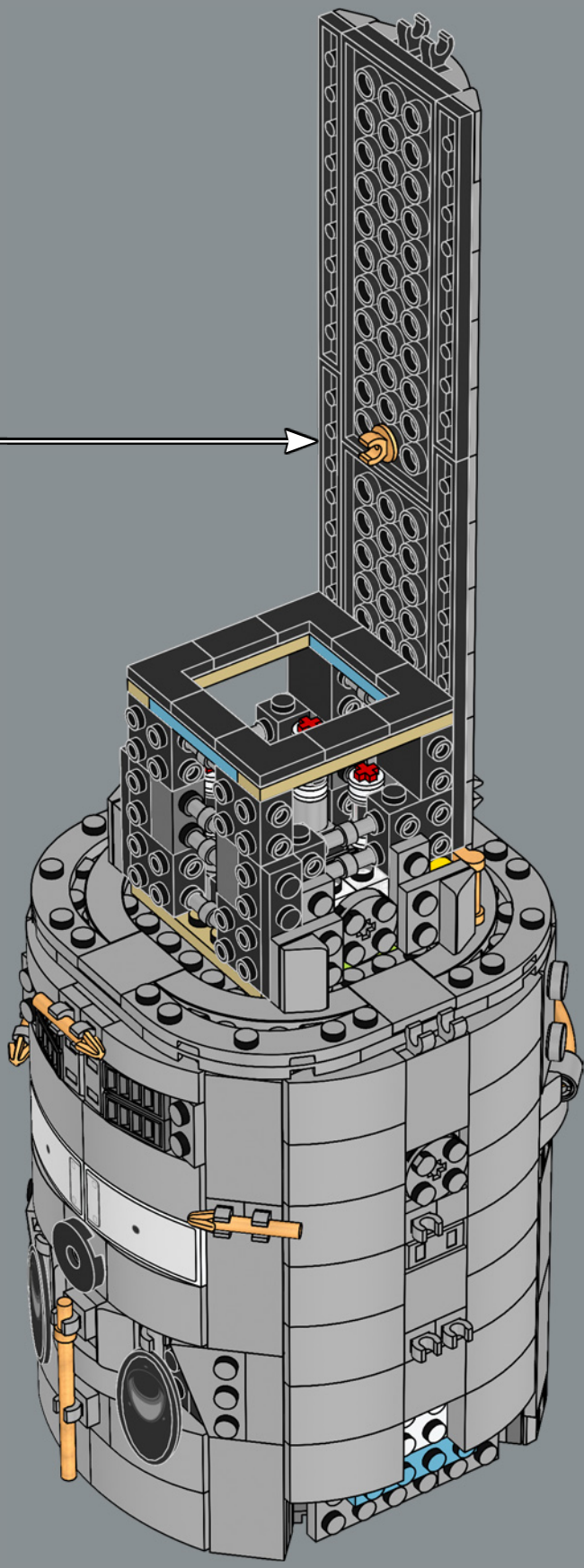


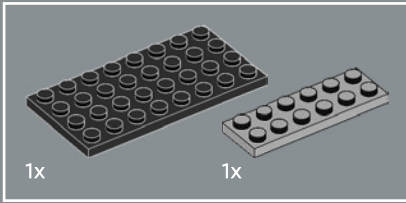
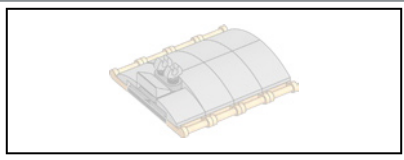
215



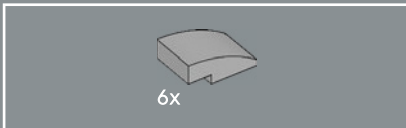
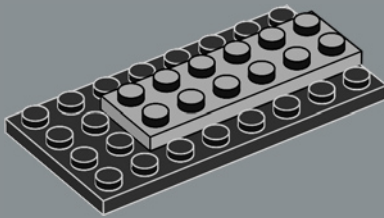
216



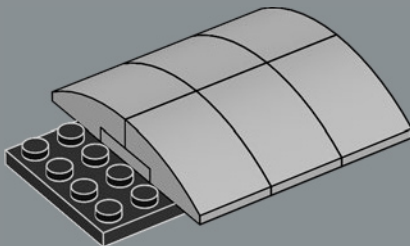




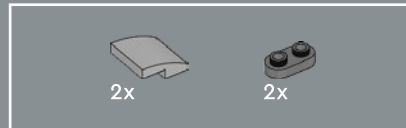
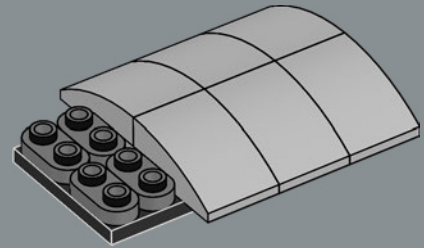
218



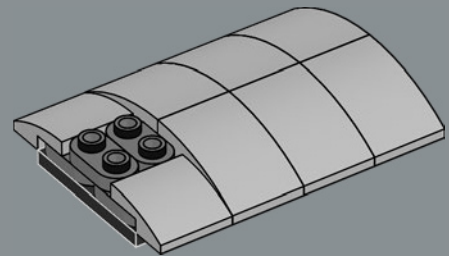
219



220



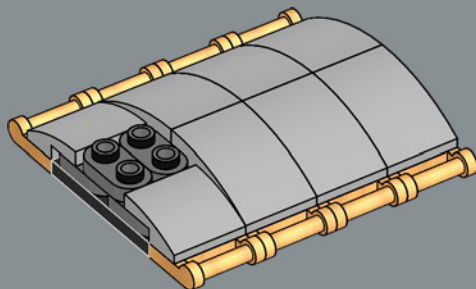
221





8x

222

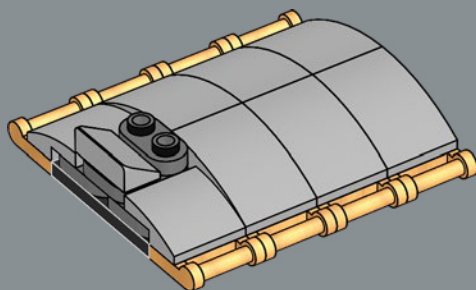


1x



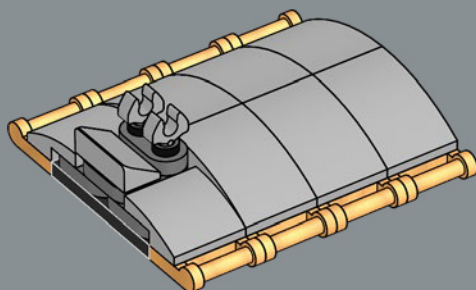
1x

223



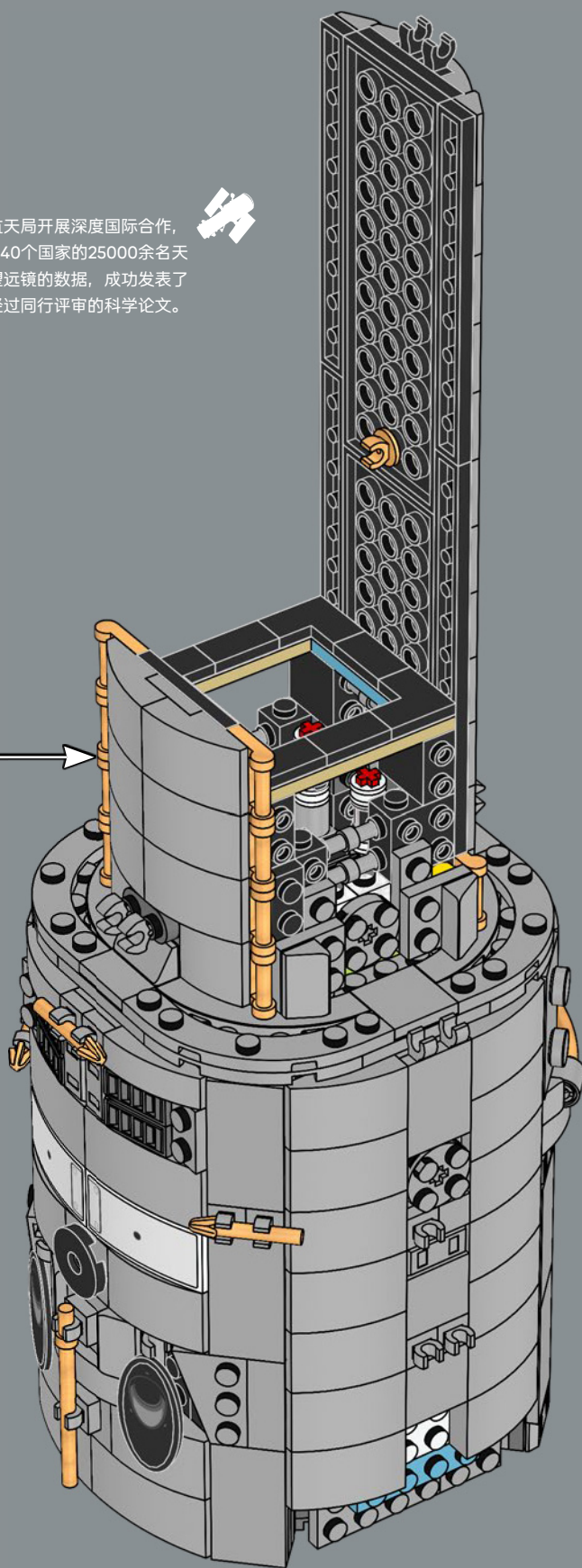
2x

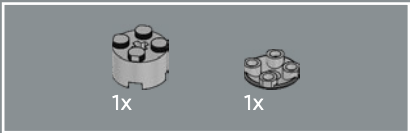
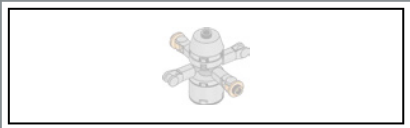
224



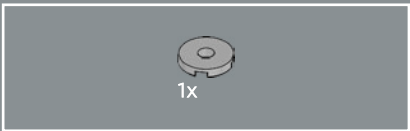
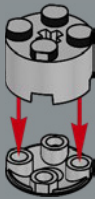
225

美国宇航局与欧洲航天局开展深度合作，
这一举措让来自近40个国家的25000余名天
文学家，依托哈勃望远镜的数据，成功发表了
22000篇经过同行评审的科学论文。

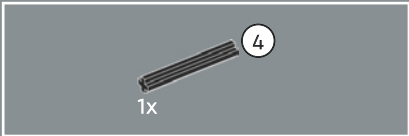




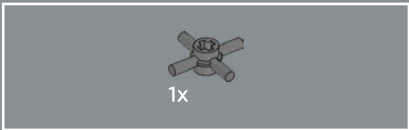
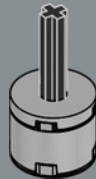
226



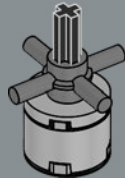
227



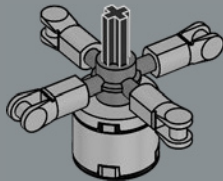
228



229

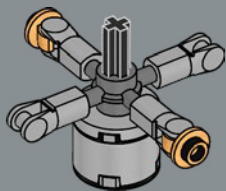


230

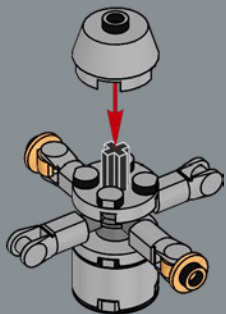




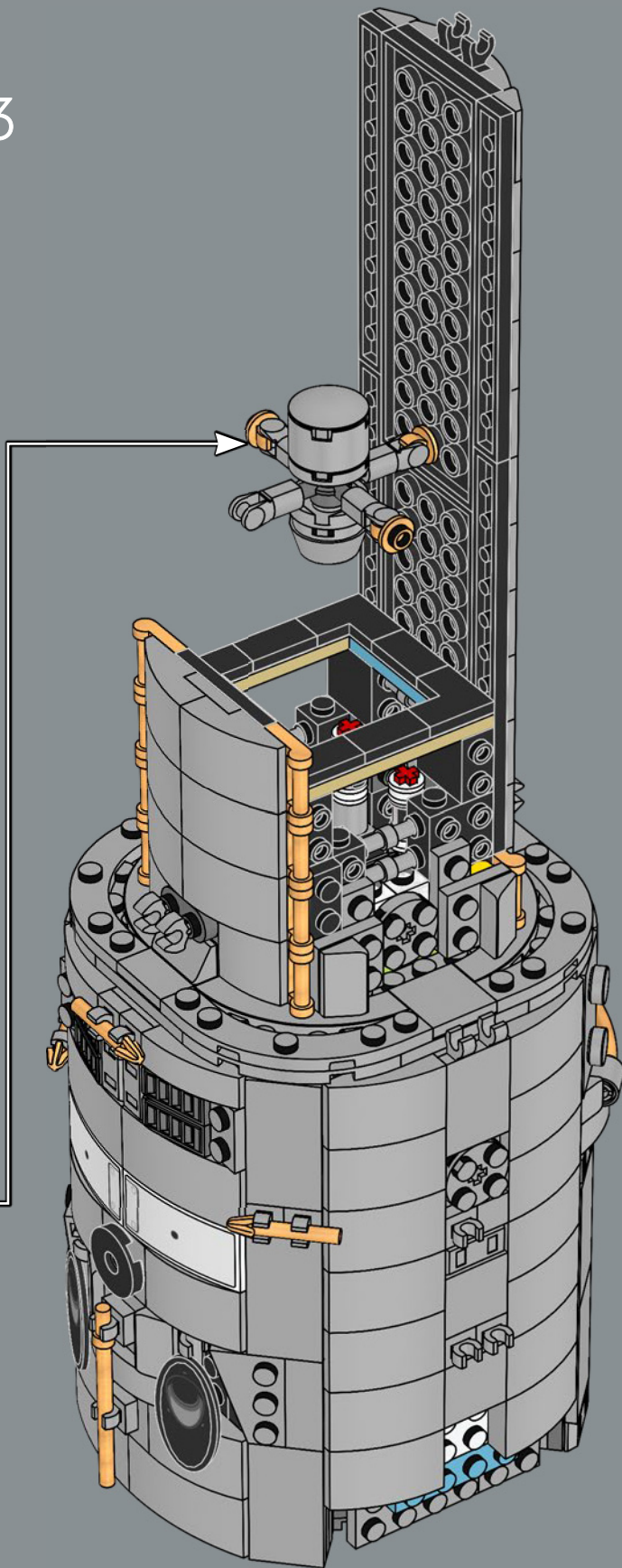
231

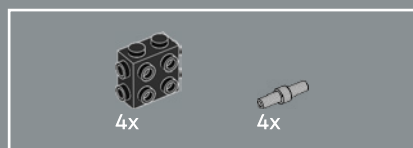
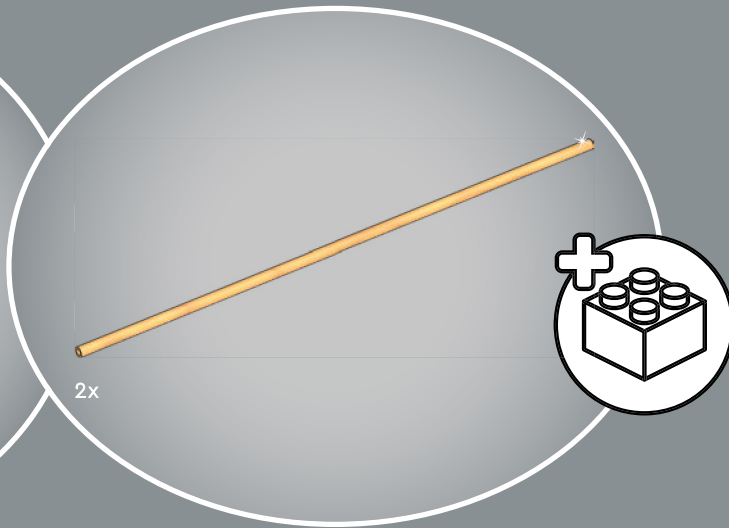


232

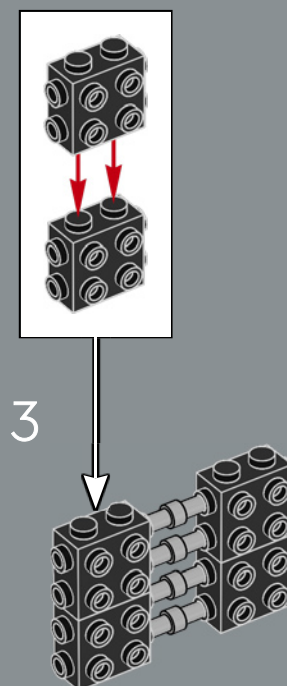
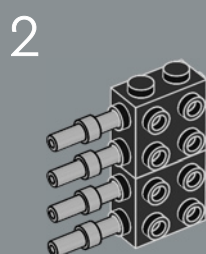
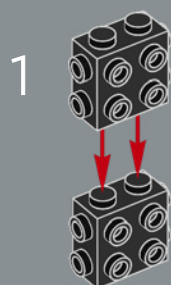


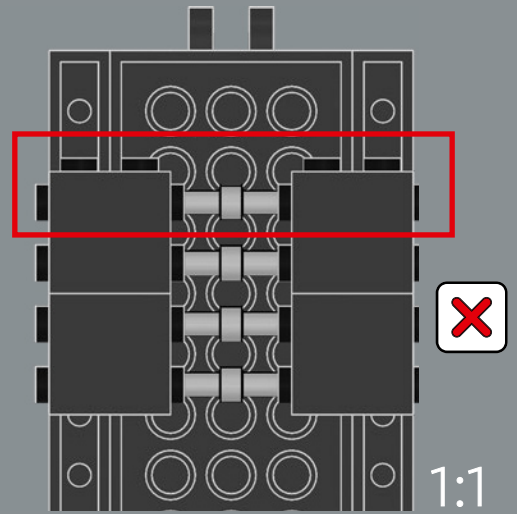
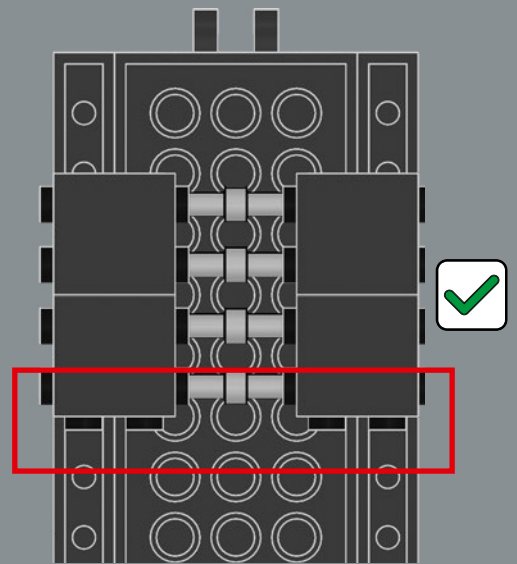
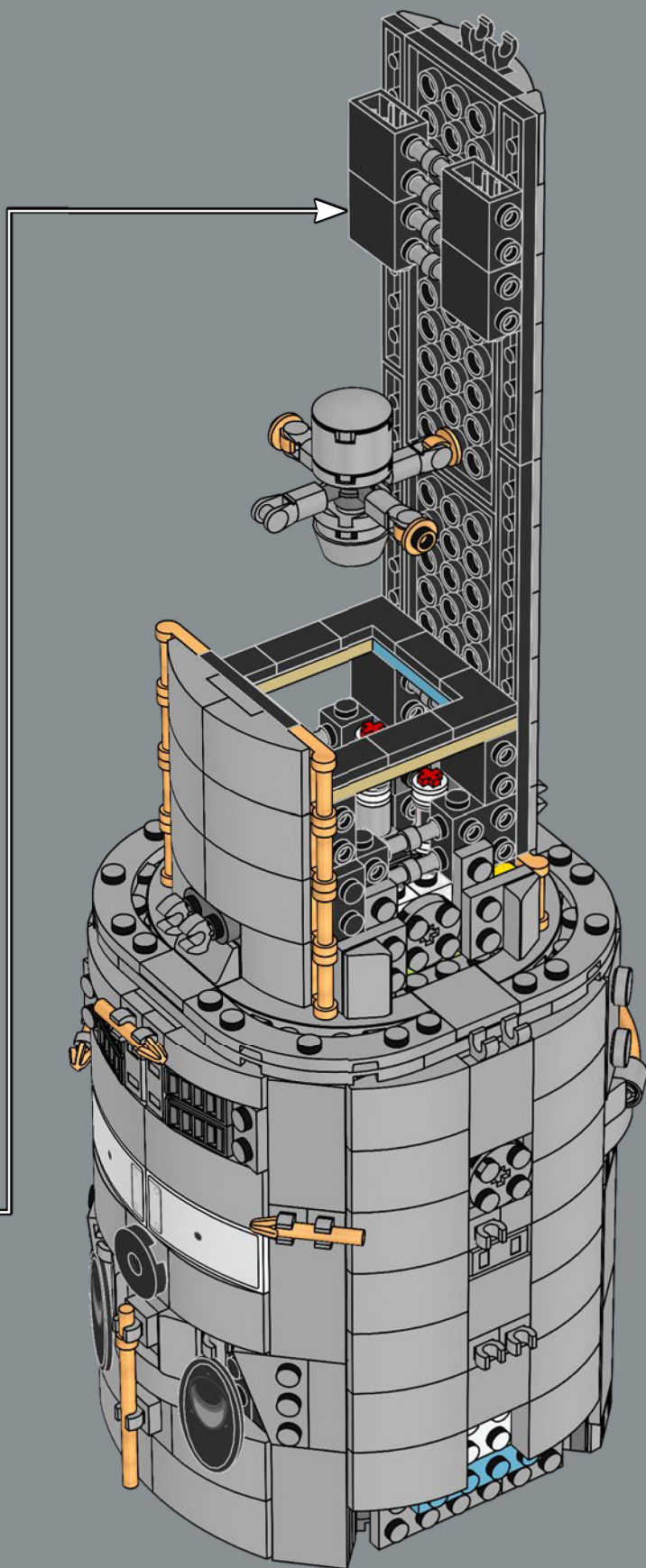
233

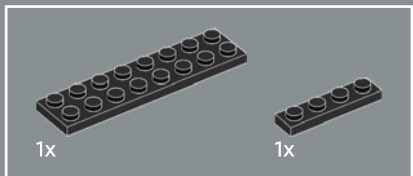
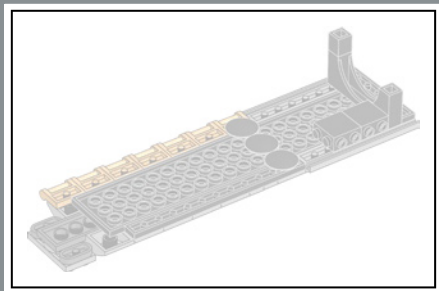




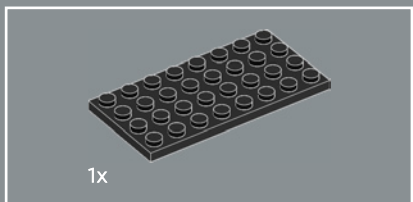
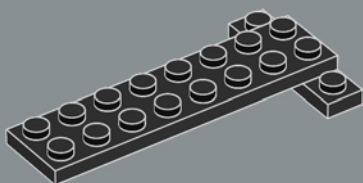
234



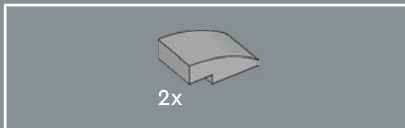
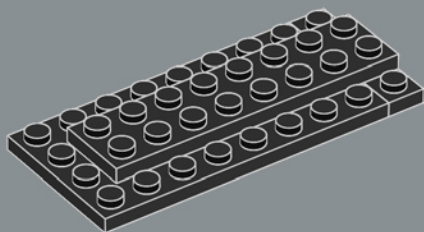




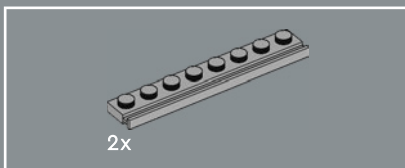
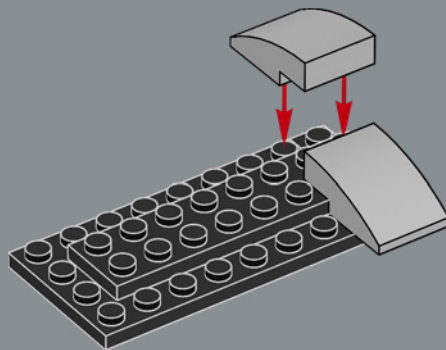
235



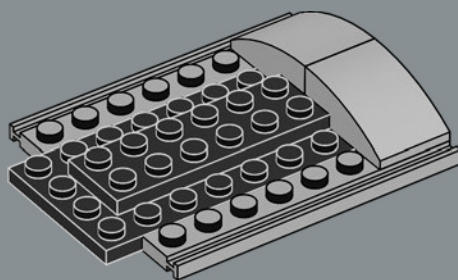
236

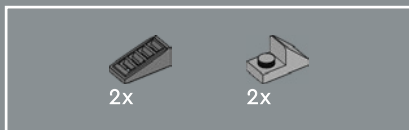


237

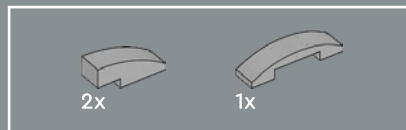
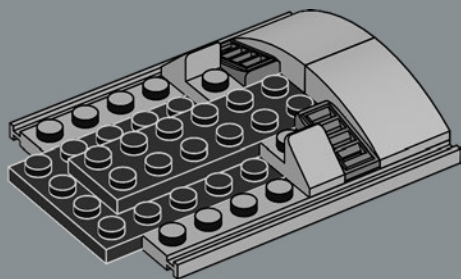


238

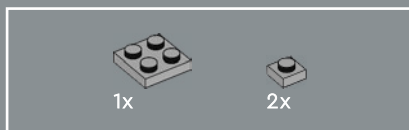
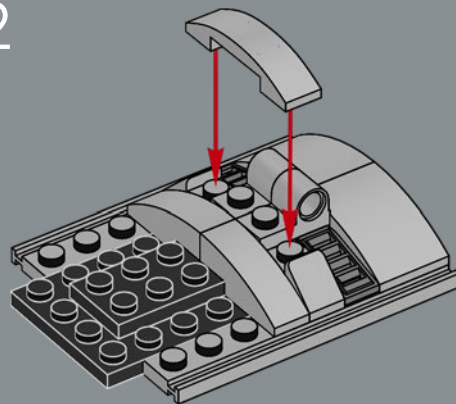




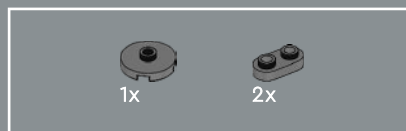
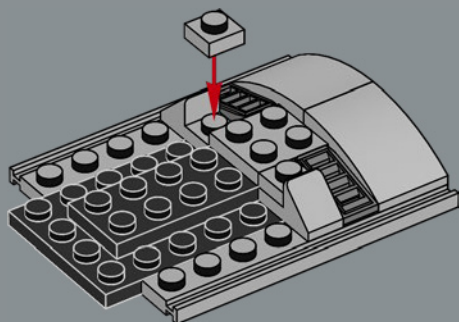
239



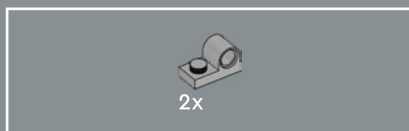
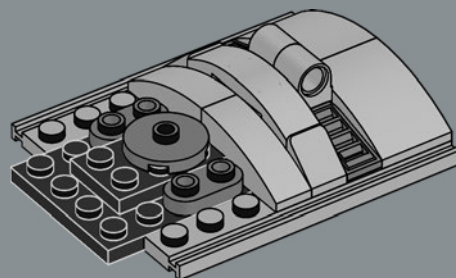
242



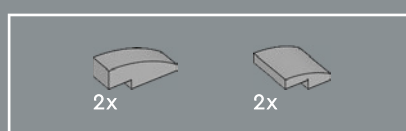
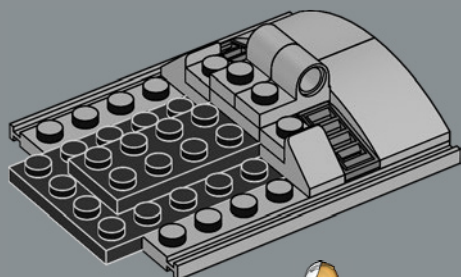
240



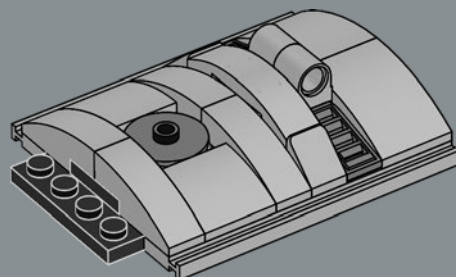
243

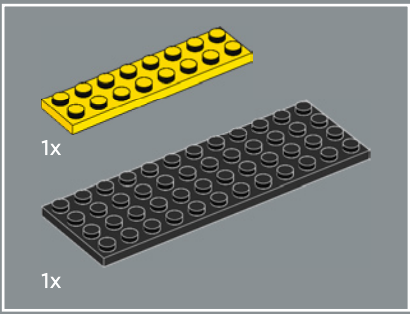


241

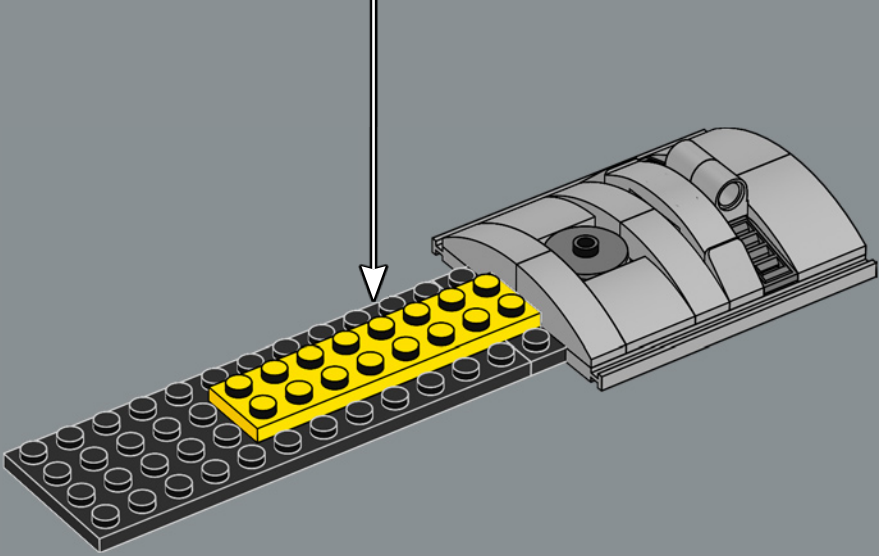
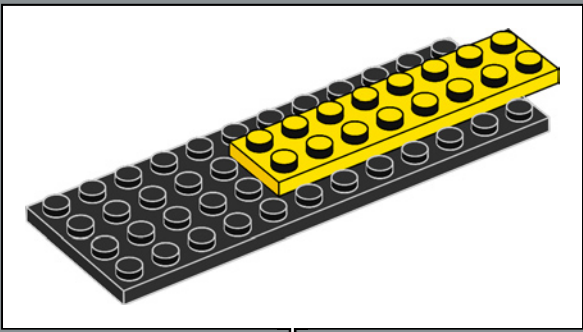


244

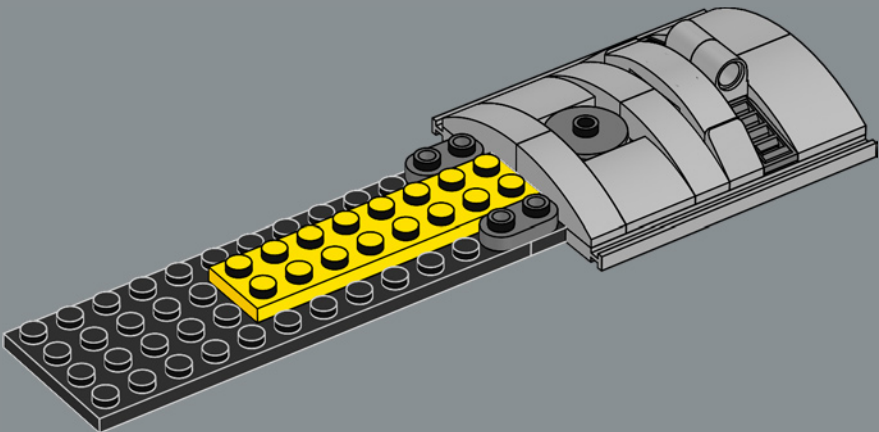


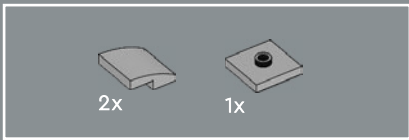


245

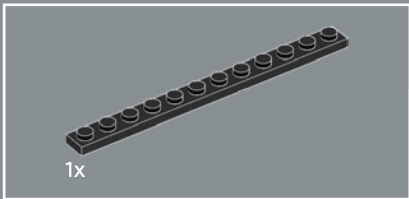
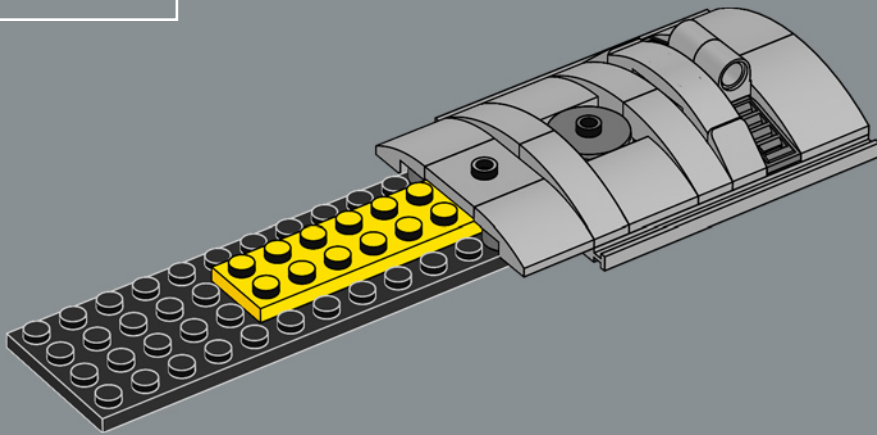


246

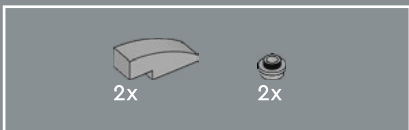
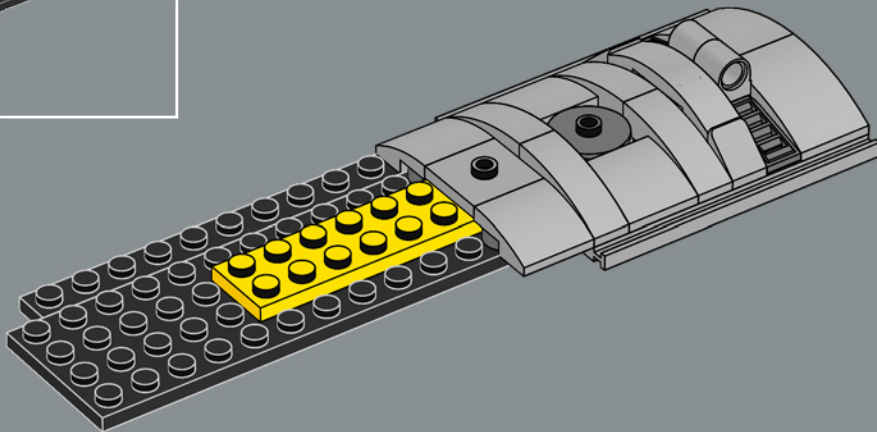




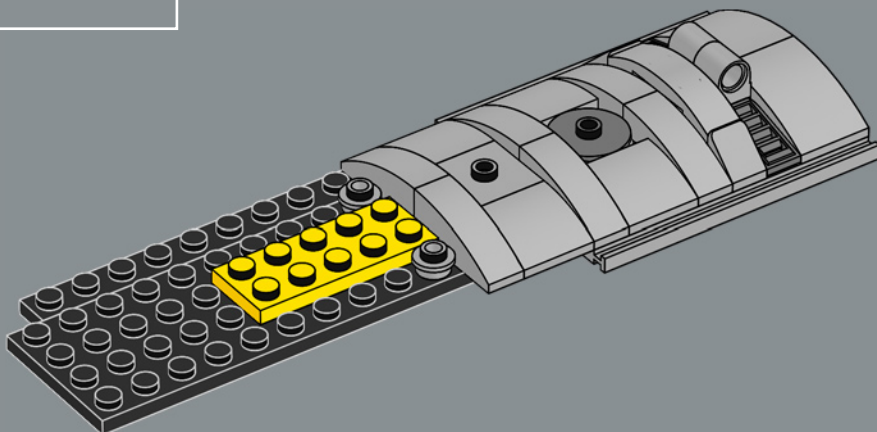
247

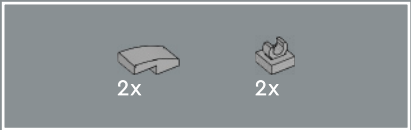


248

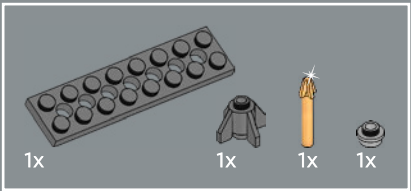
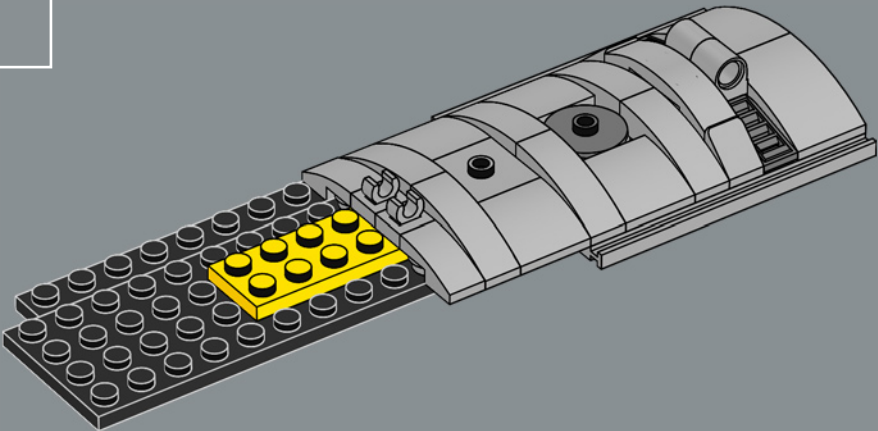


249

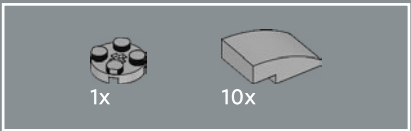
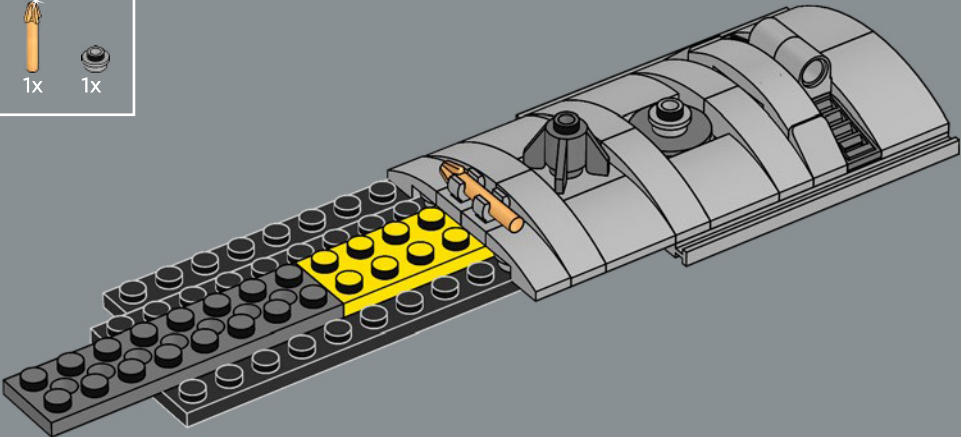




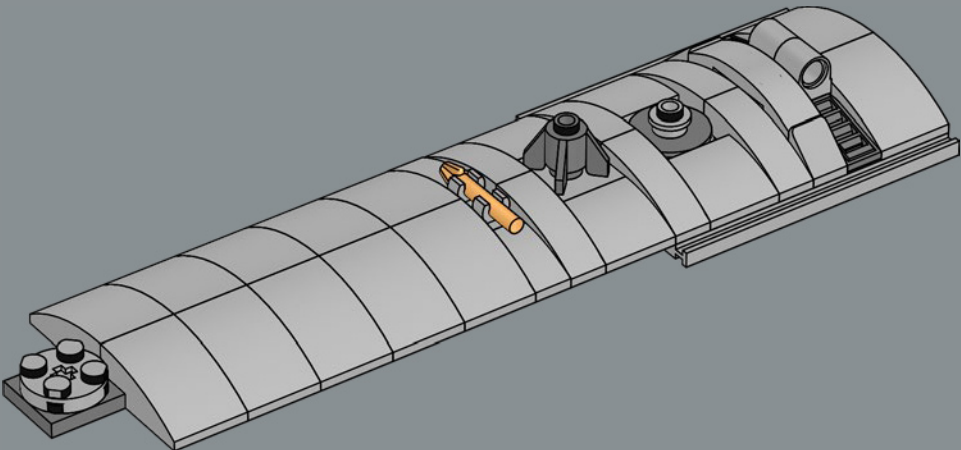
250

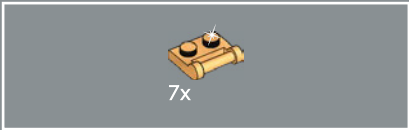


251

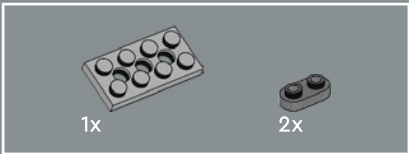
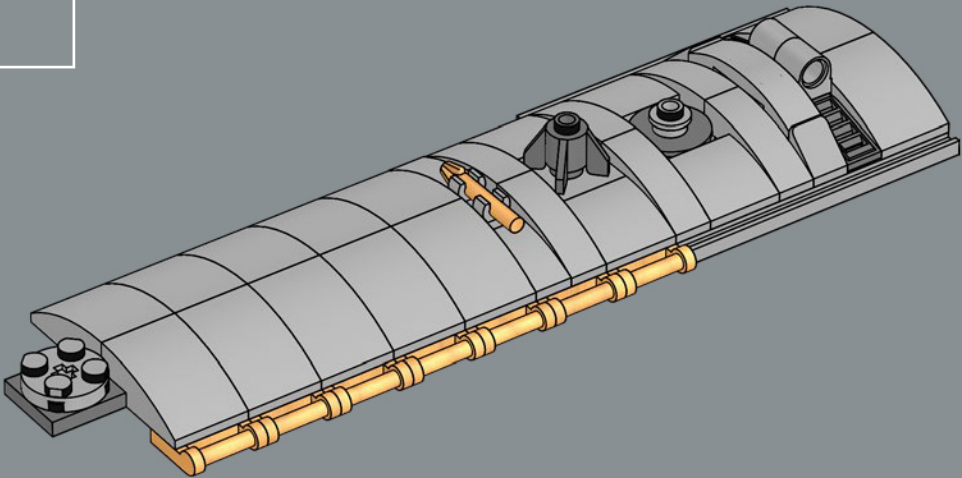


252

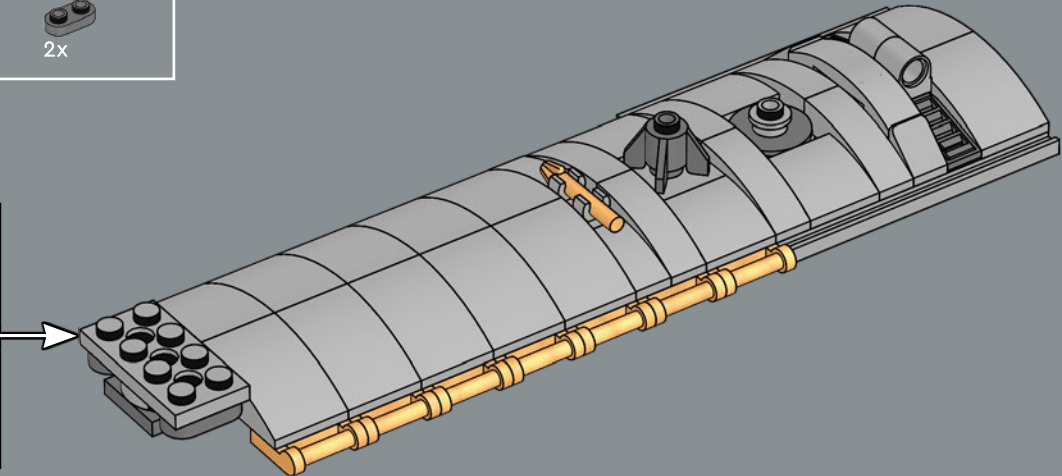
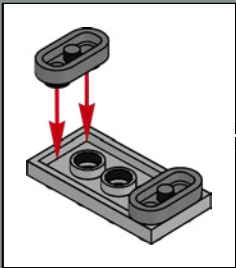




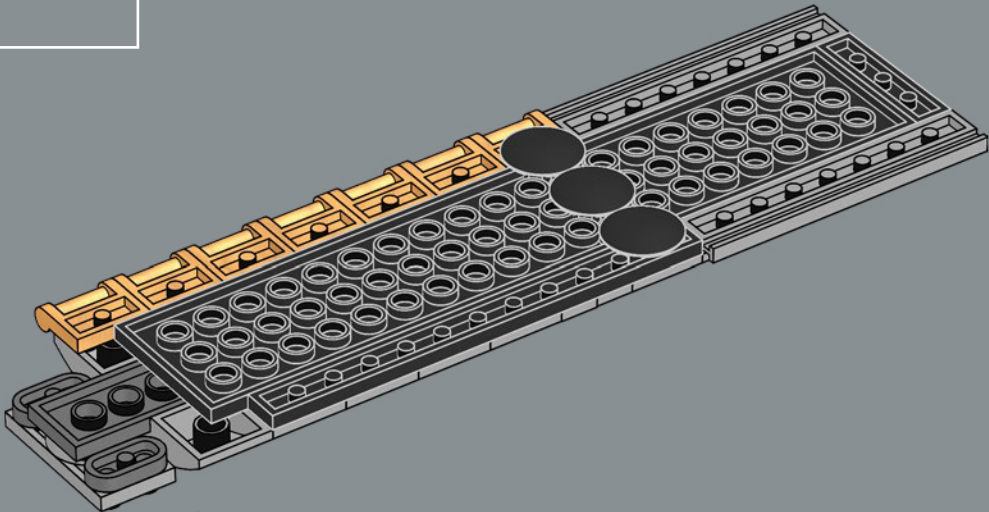
253

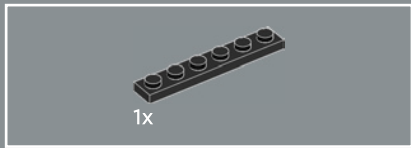


254

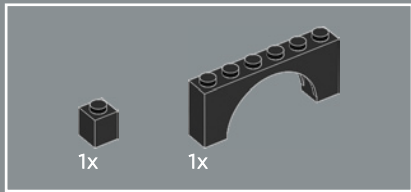
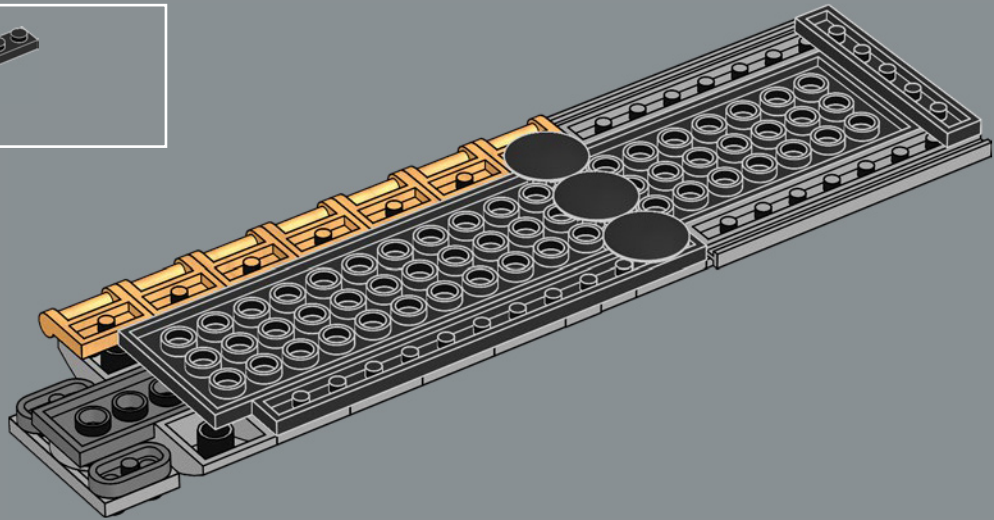


255

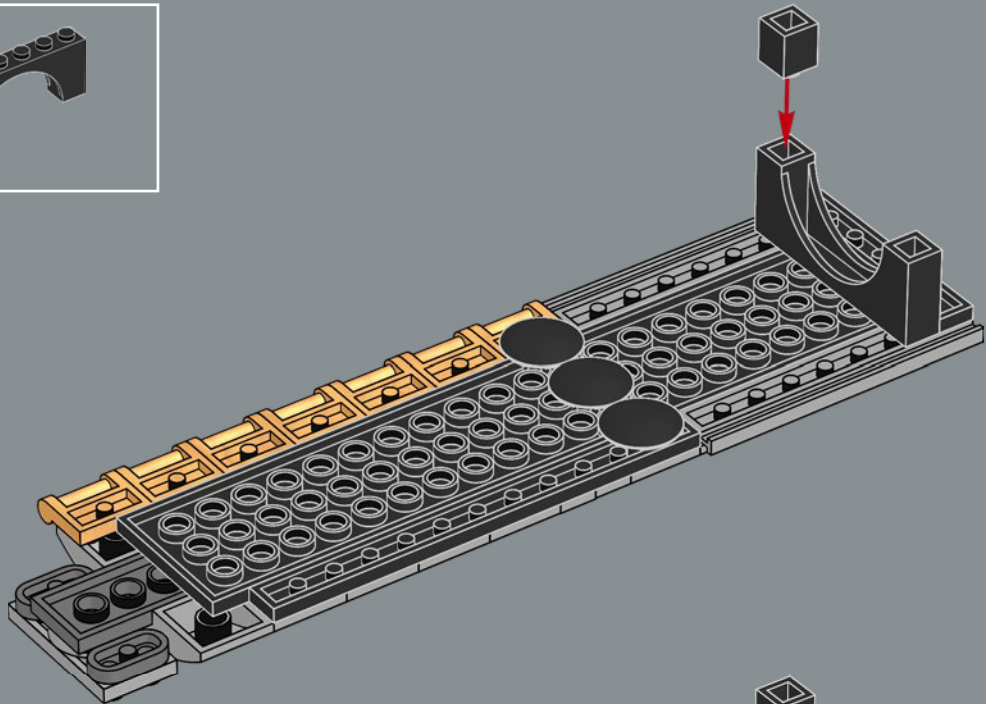




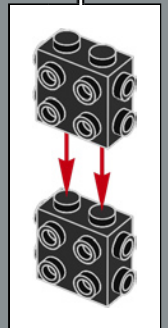
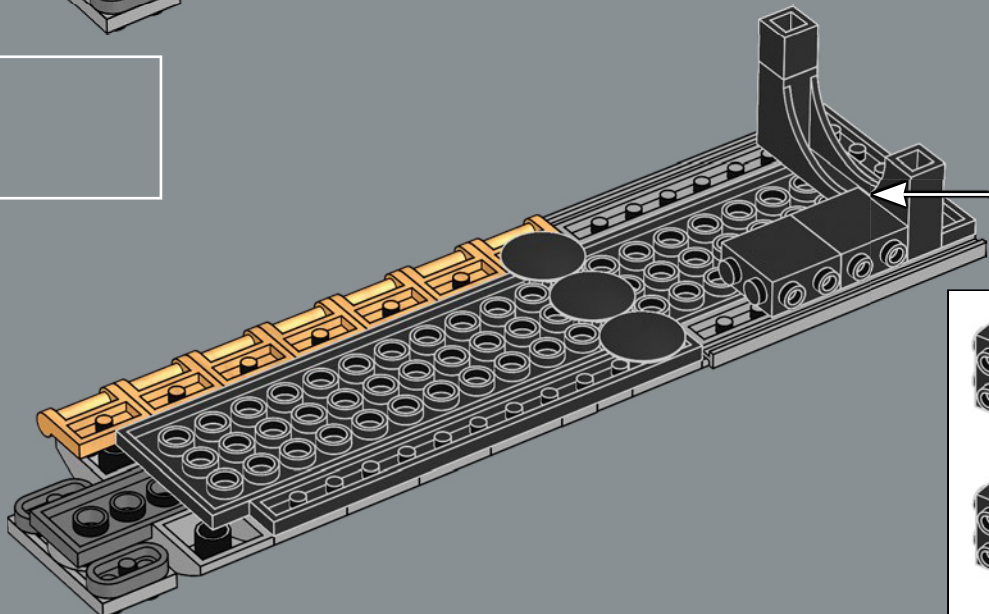
256



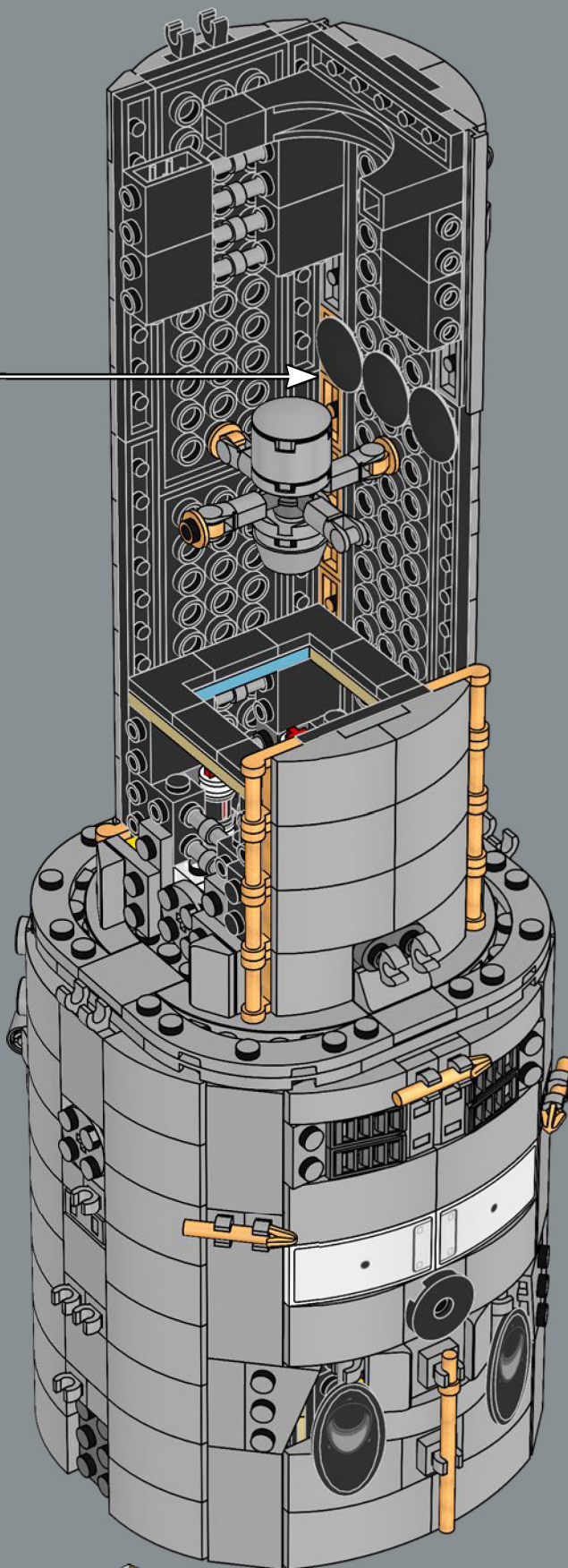
257

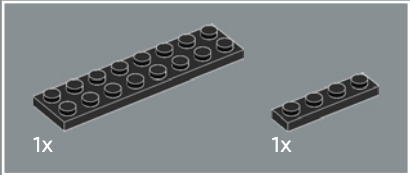
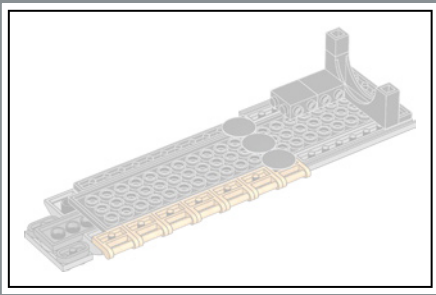


258

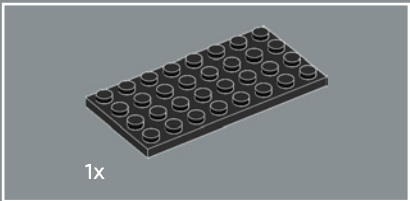
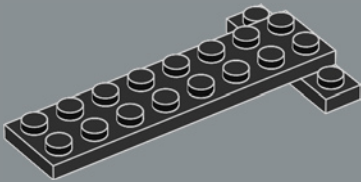


259

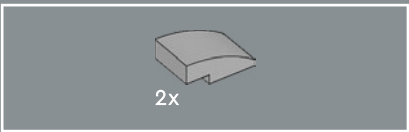
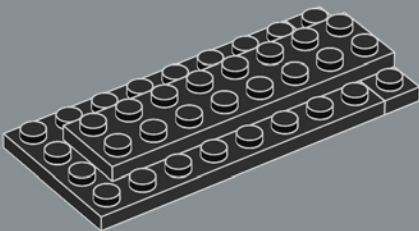




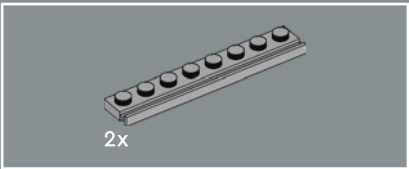
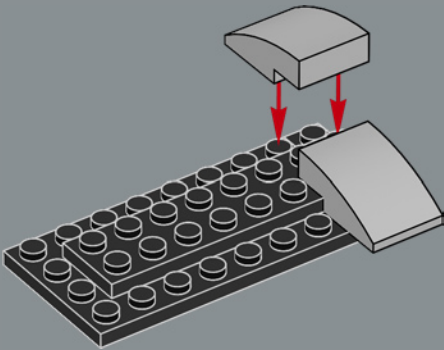
260



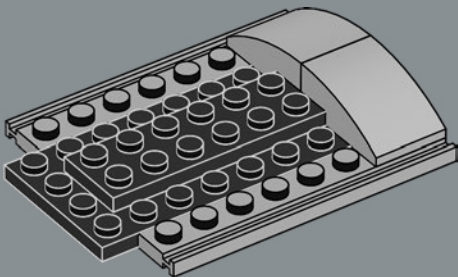
261

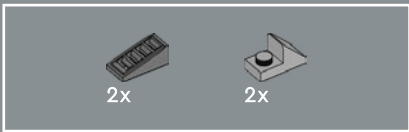


262

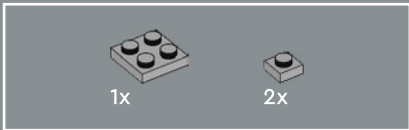
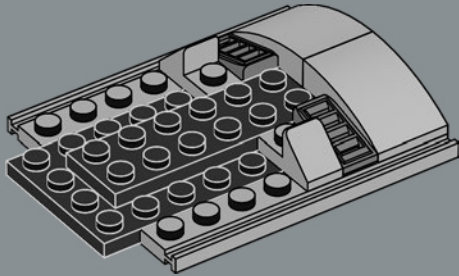


263

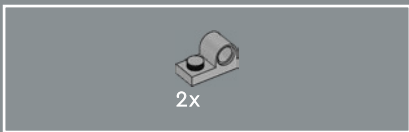
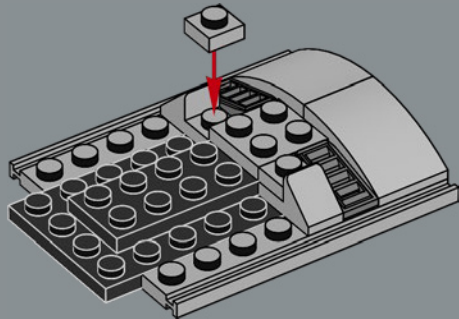




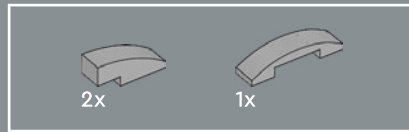
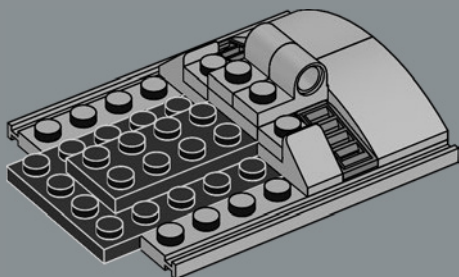
264



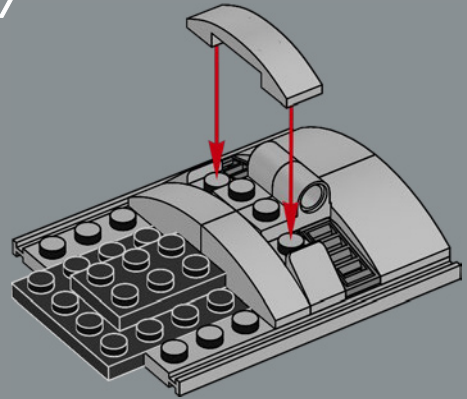
265



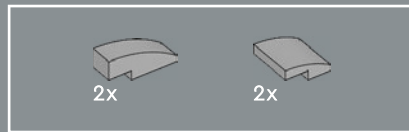
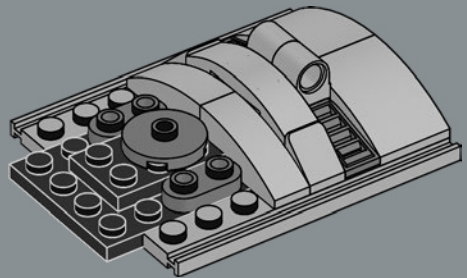
266



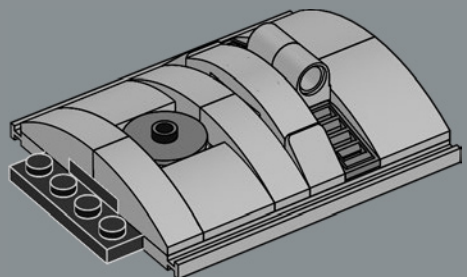
267

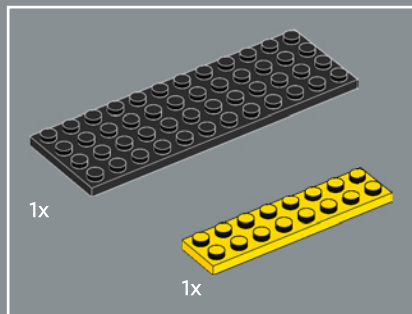


268

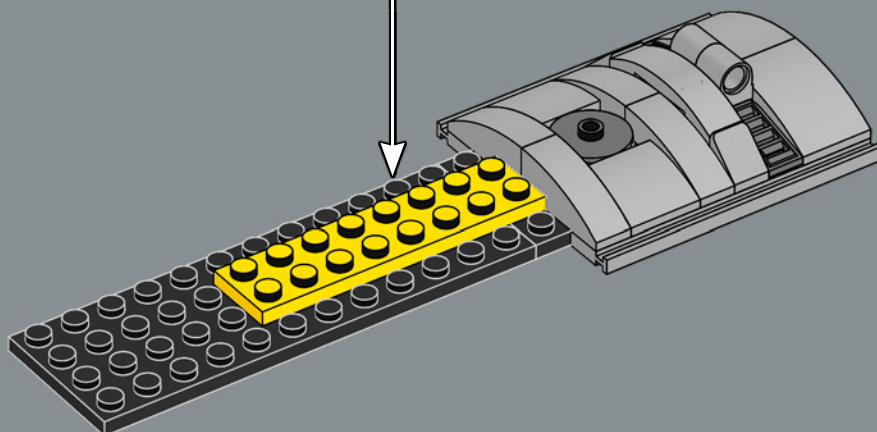
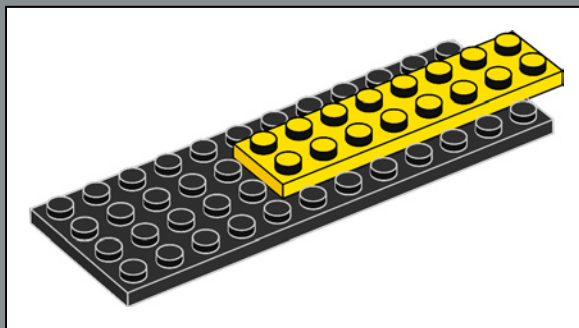


269

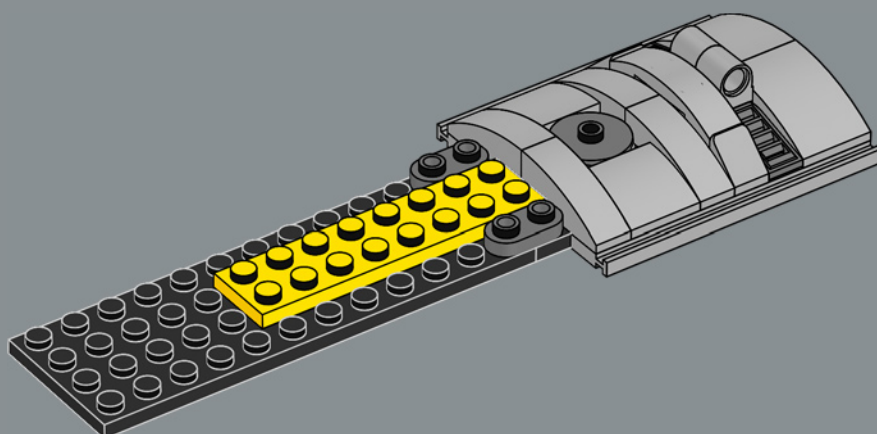


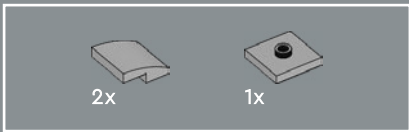


270

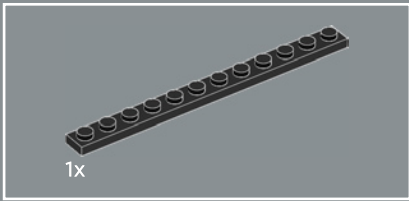
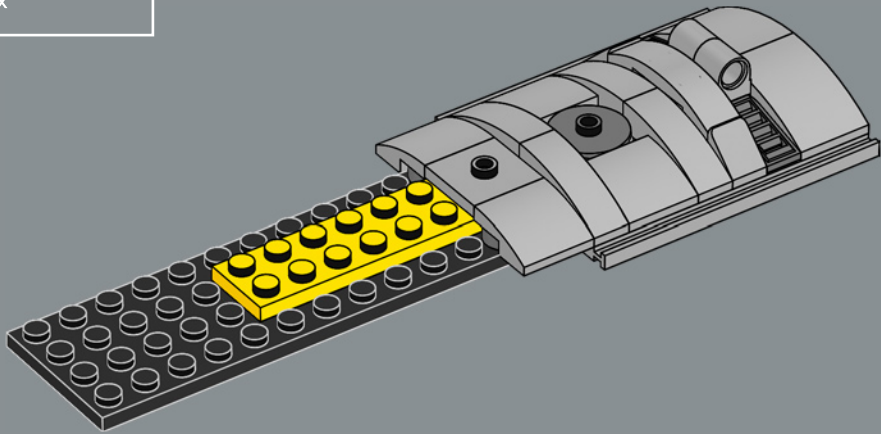


271

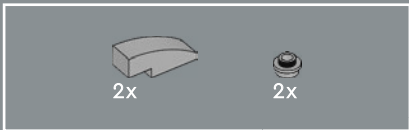
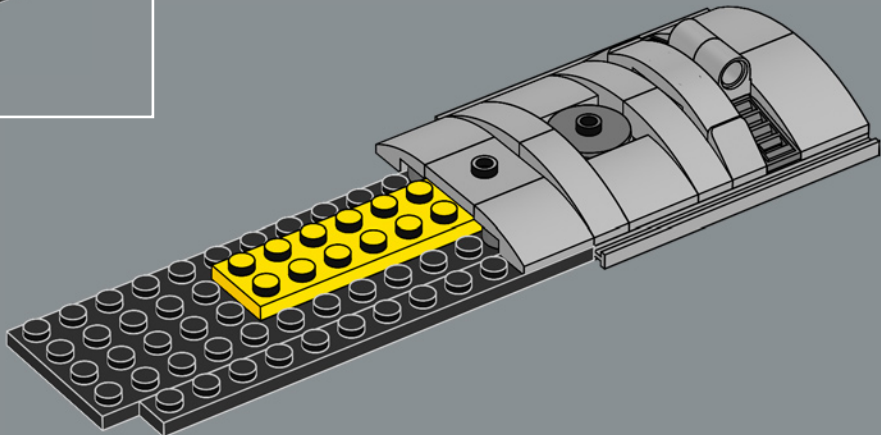




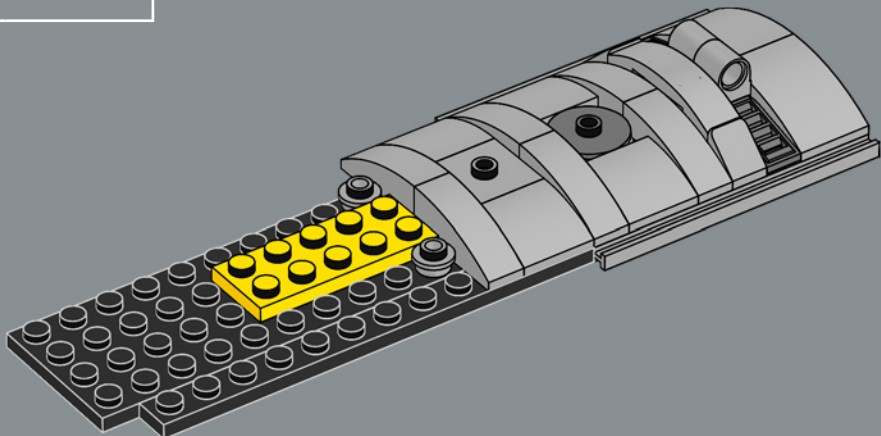
272

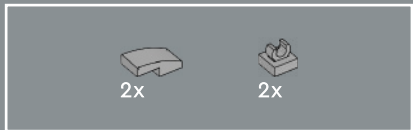


273

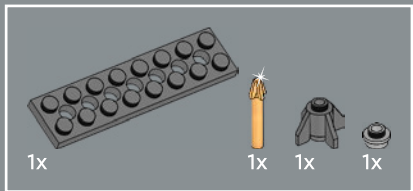
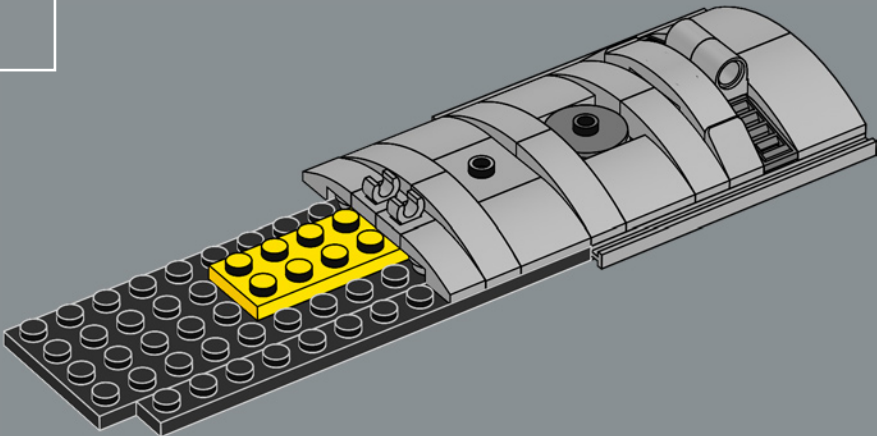


274

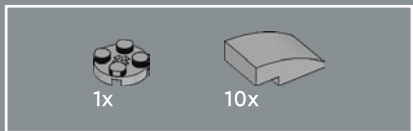
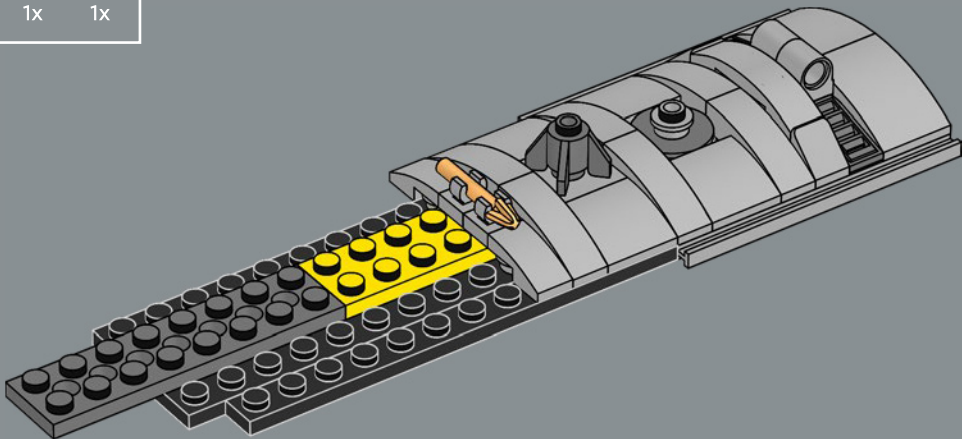




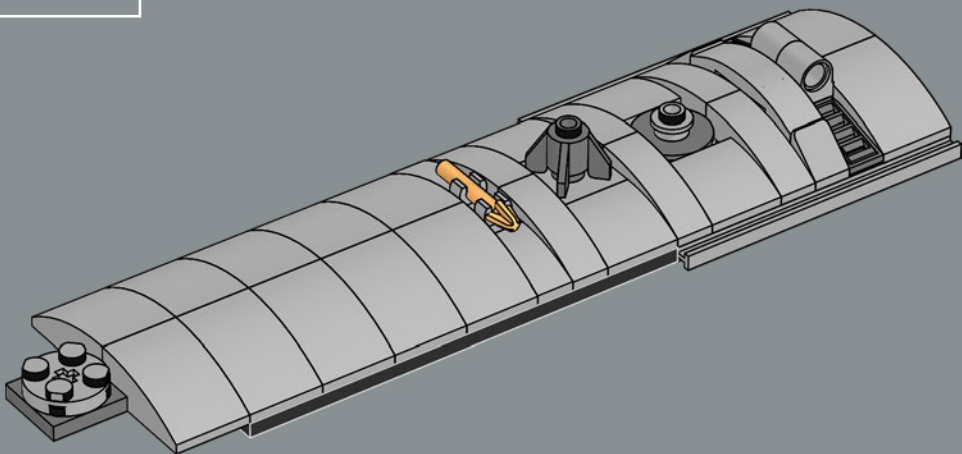
275

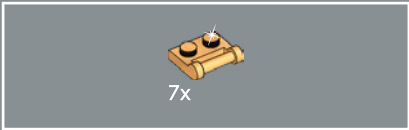


276

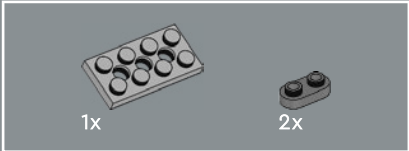
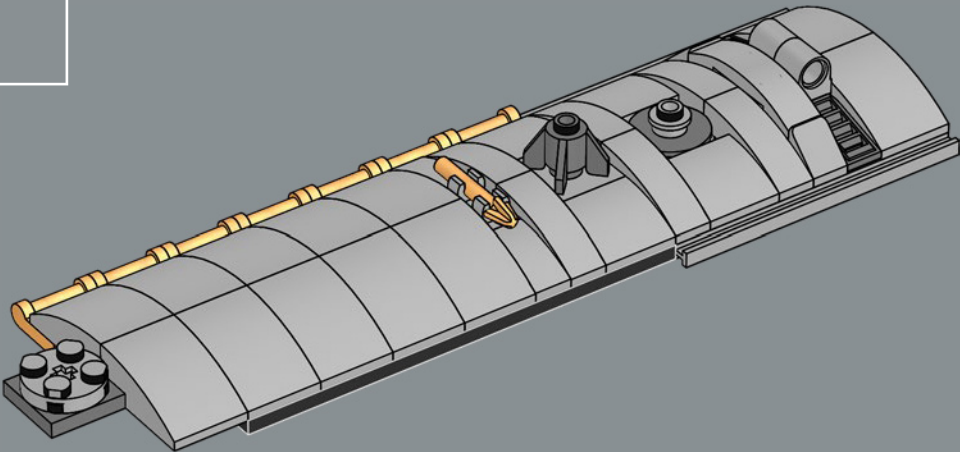


277

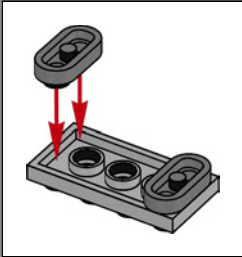
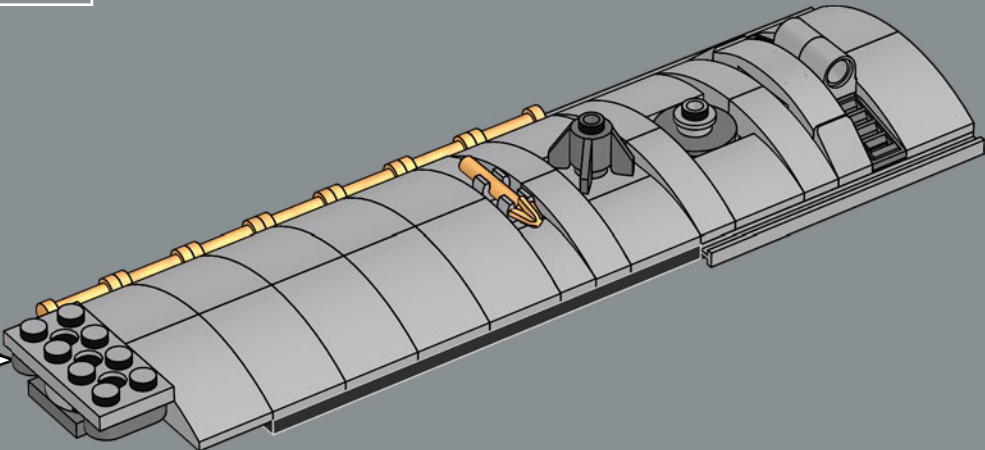




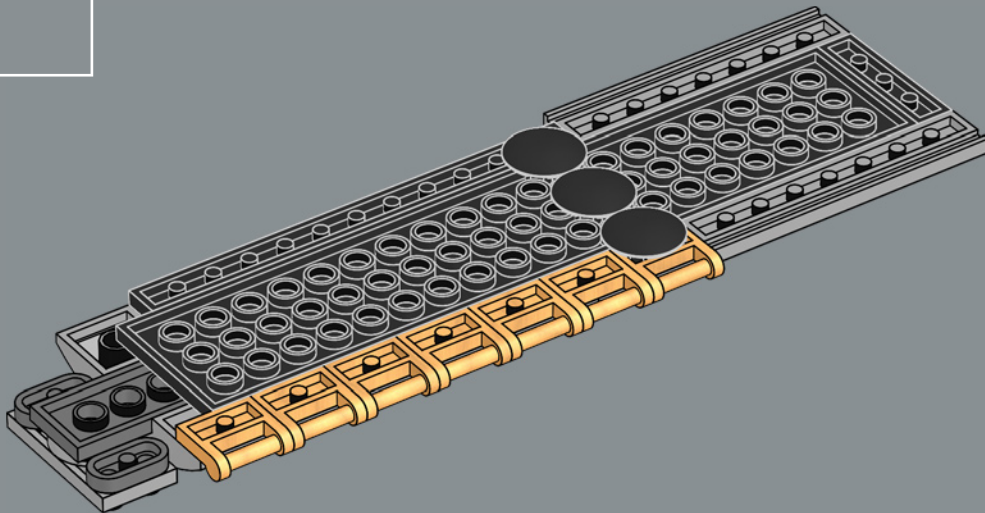
278

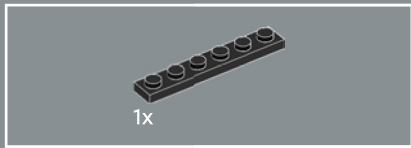


279

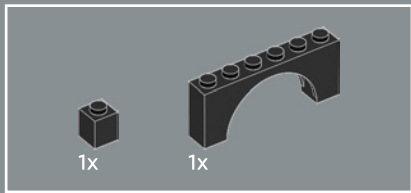
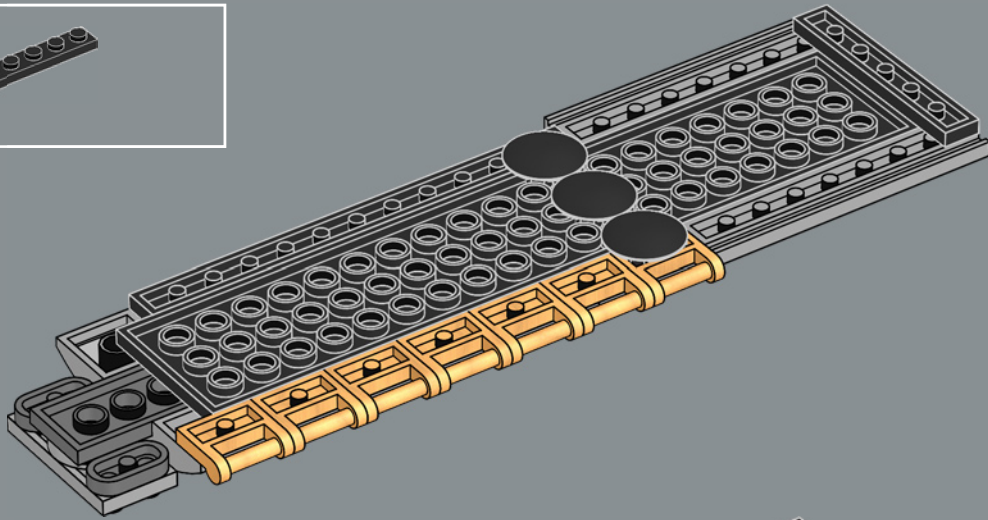


280

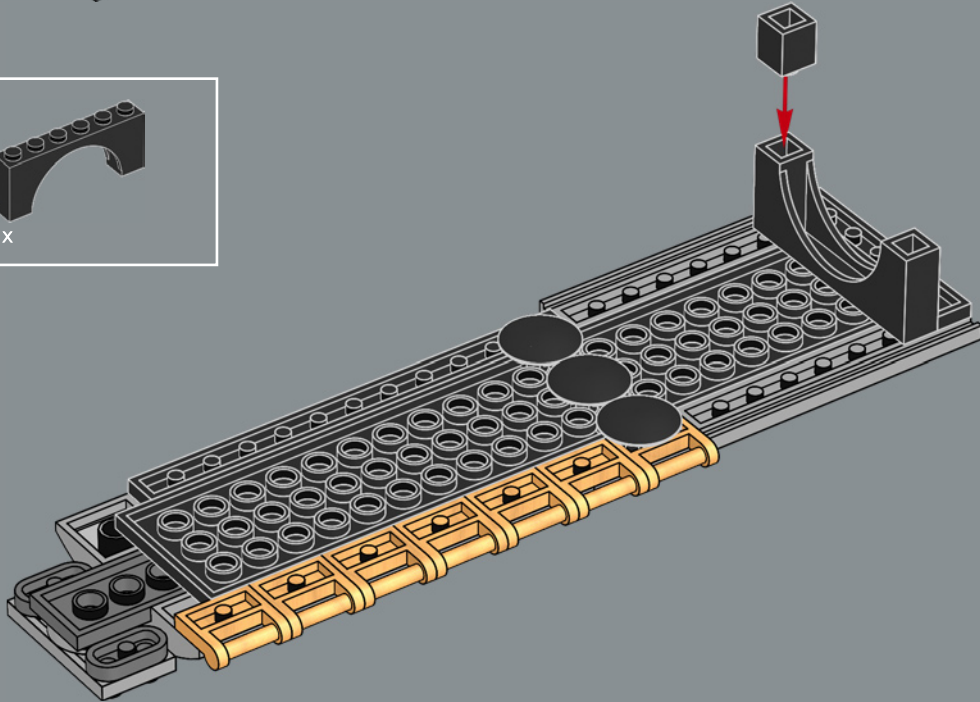




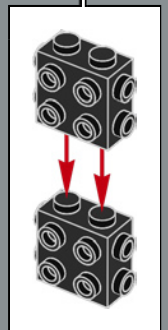
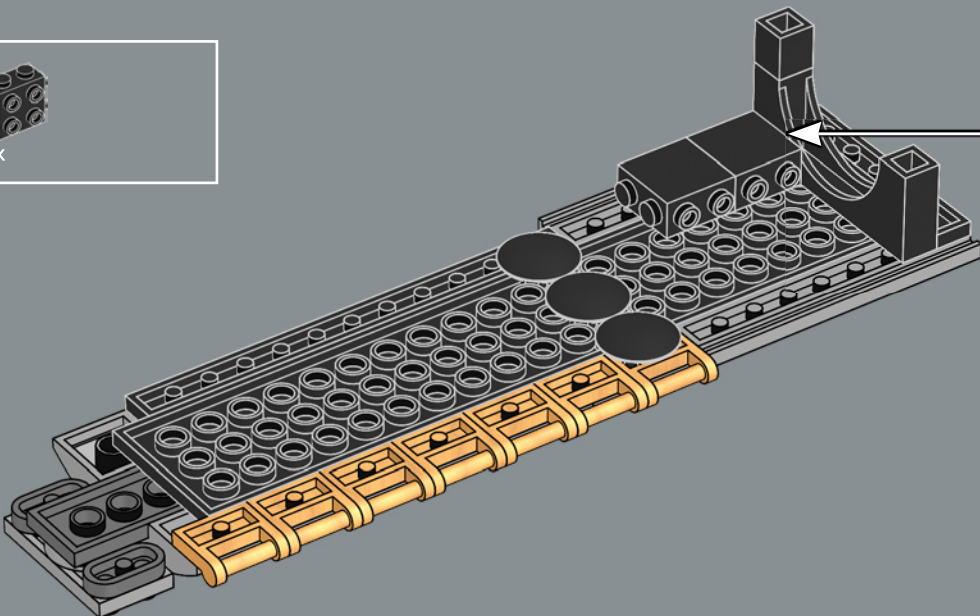
281

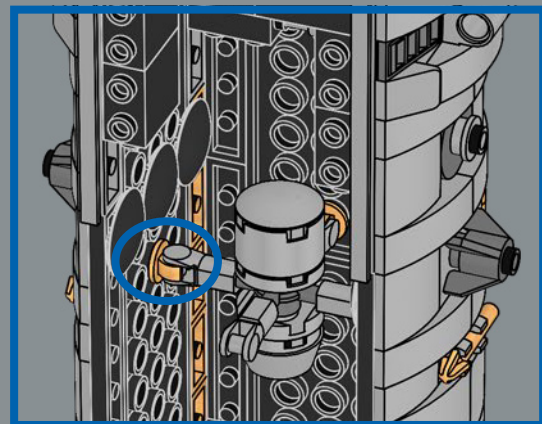
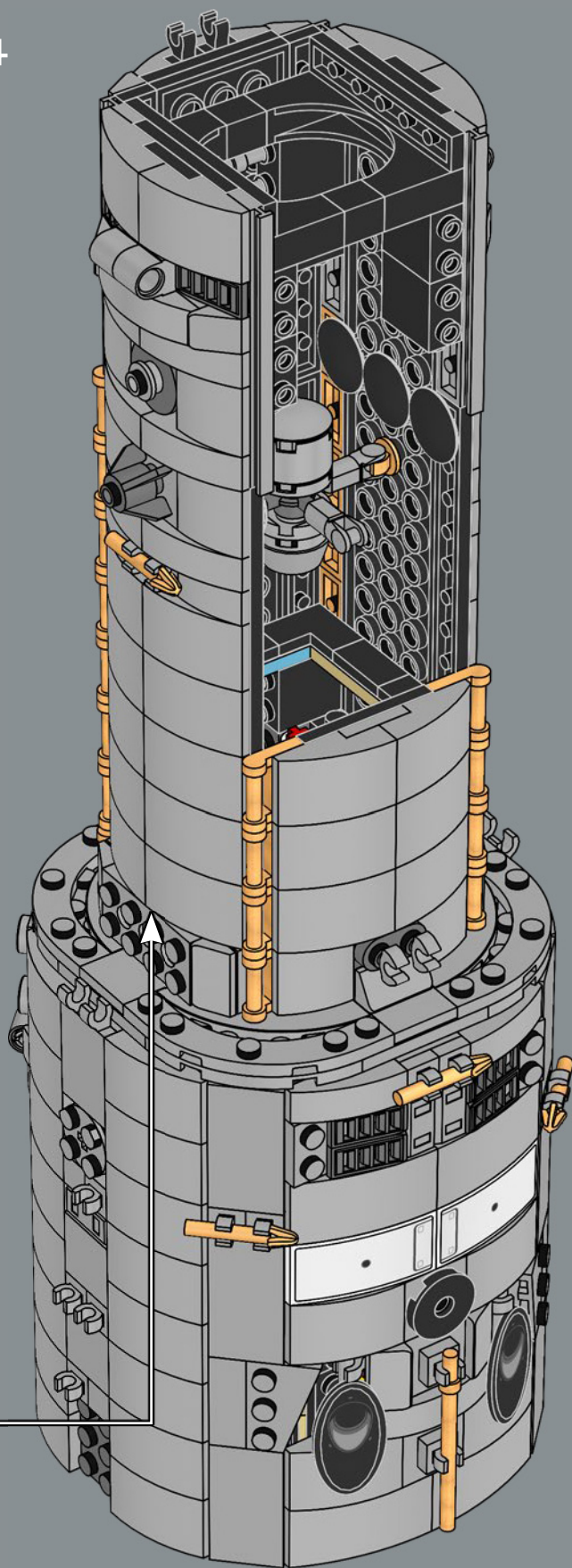


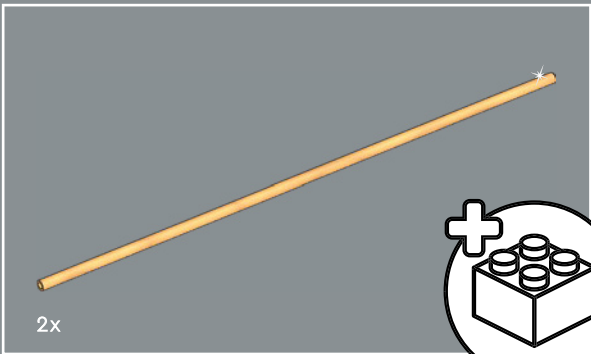
282



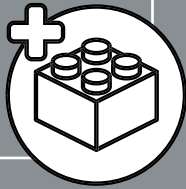
283



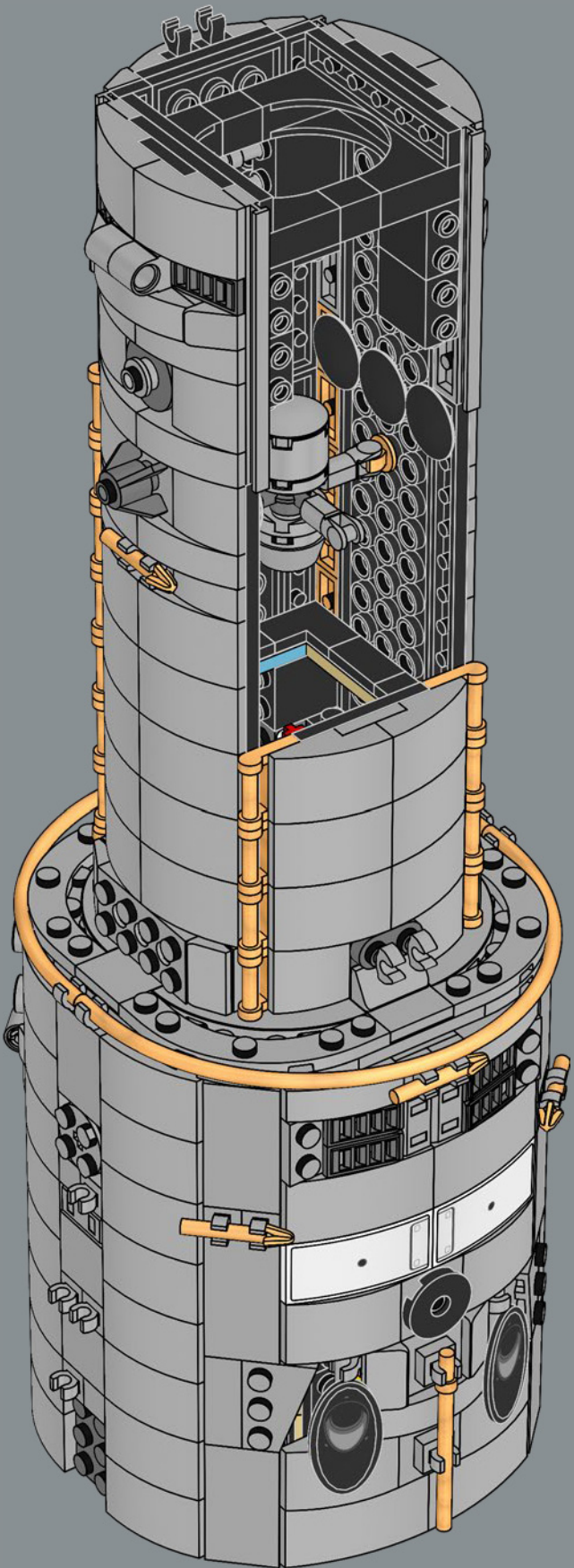


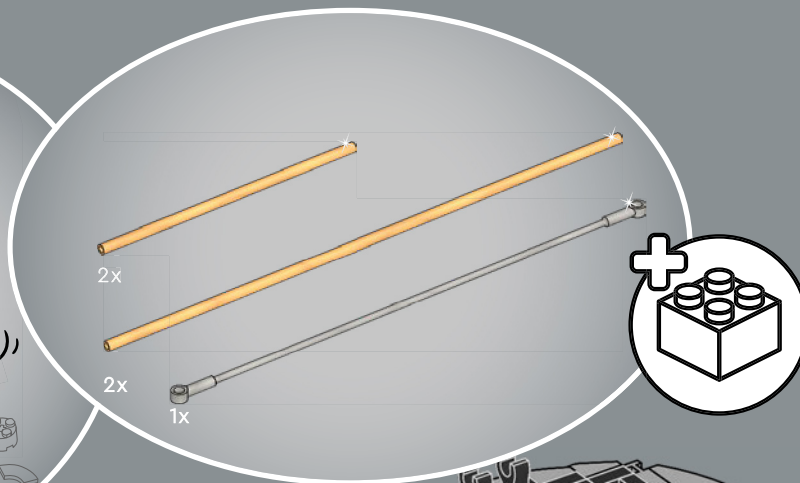


2x

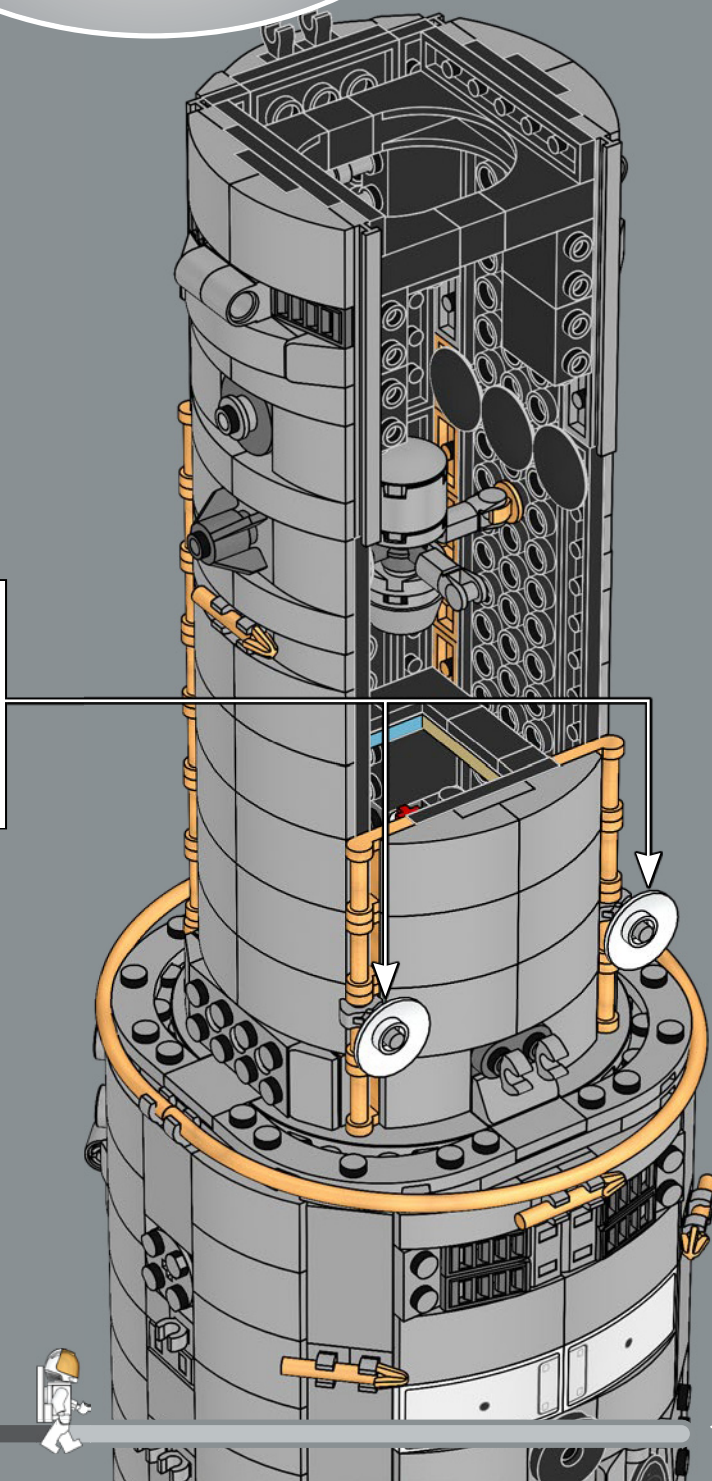
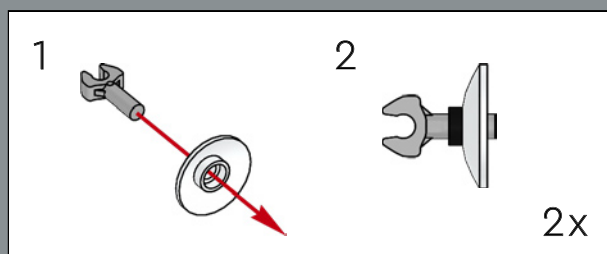


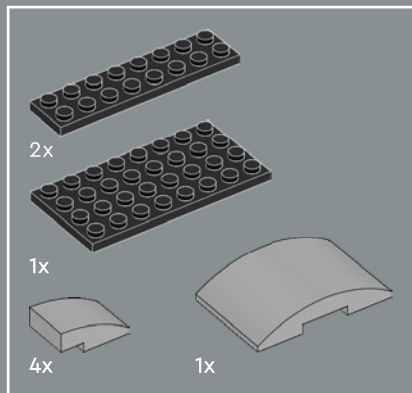
285





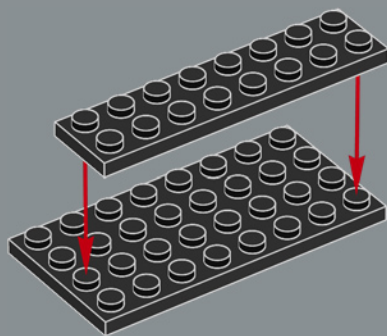
286



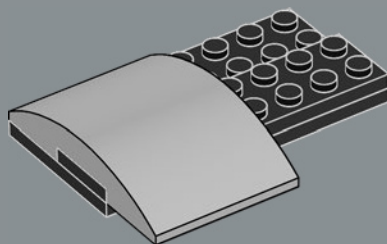


287

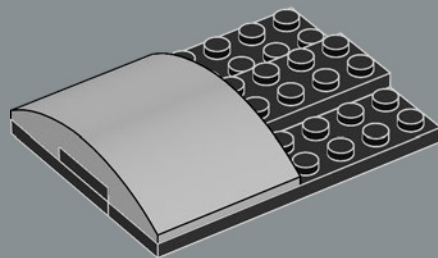
1



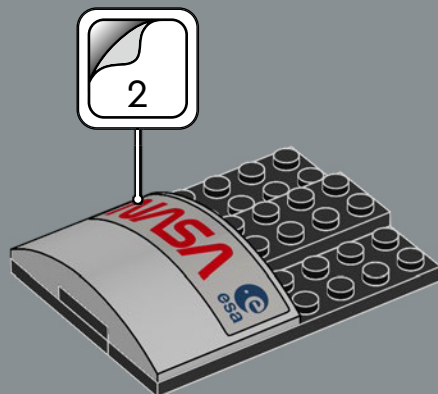
2



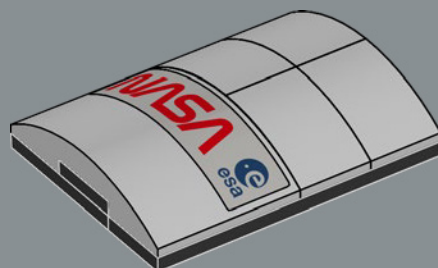
3



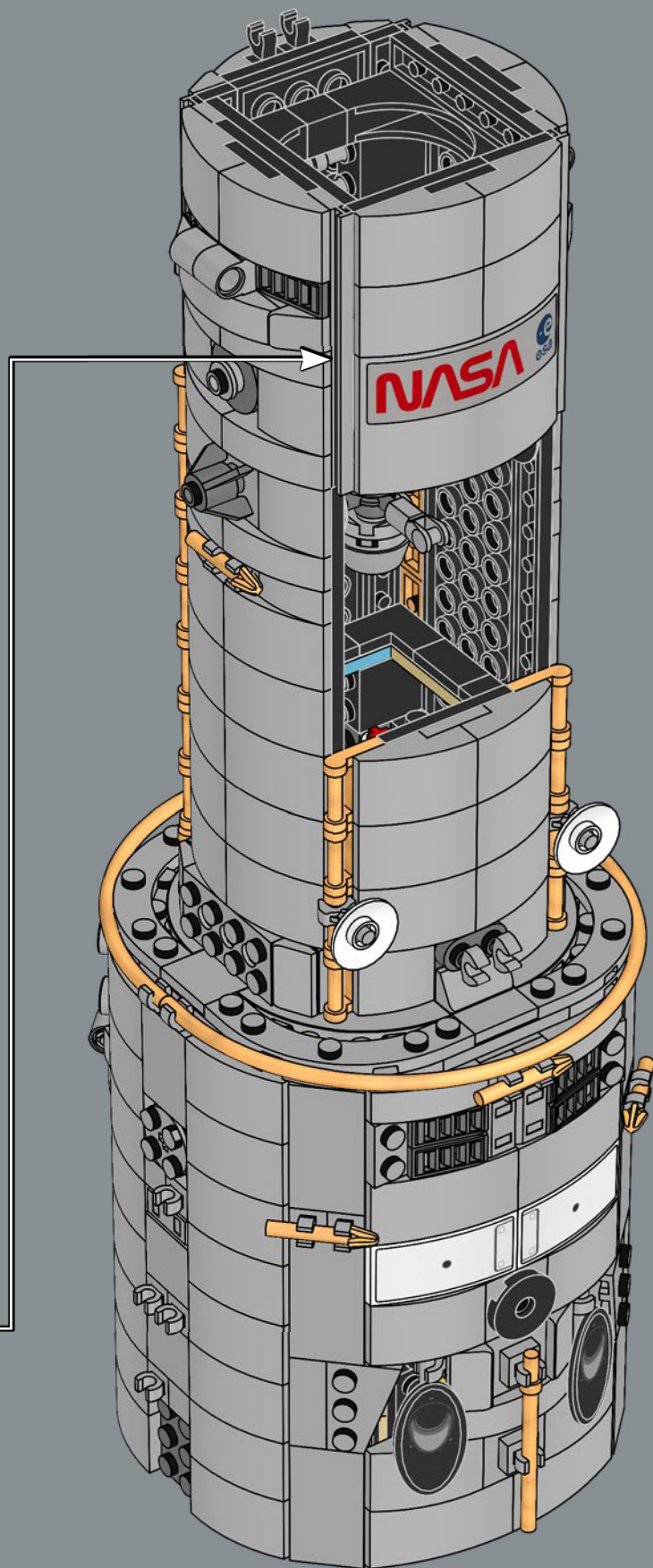
4

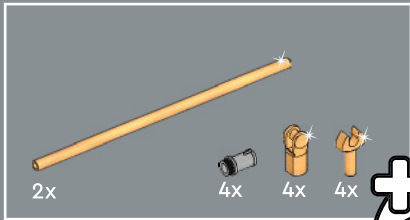
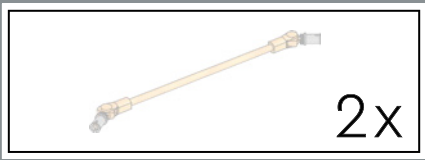


5



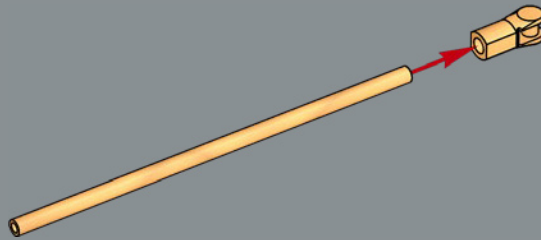
该望远镜改进了哈勃常数的估算，
确定宇宙的年龄约为 138 亿年。



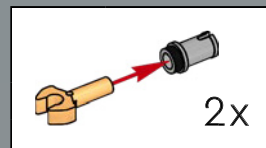
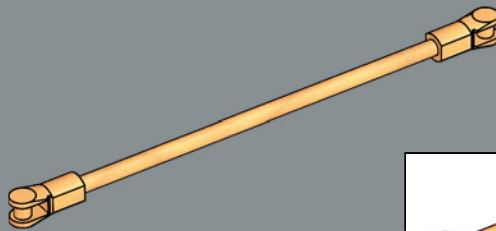


288

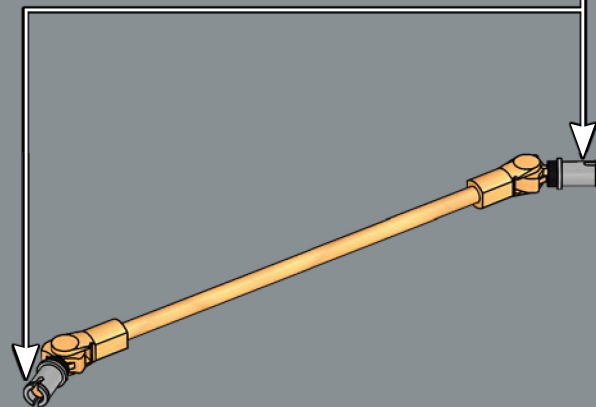
1

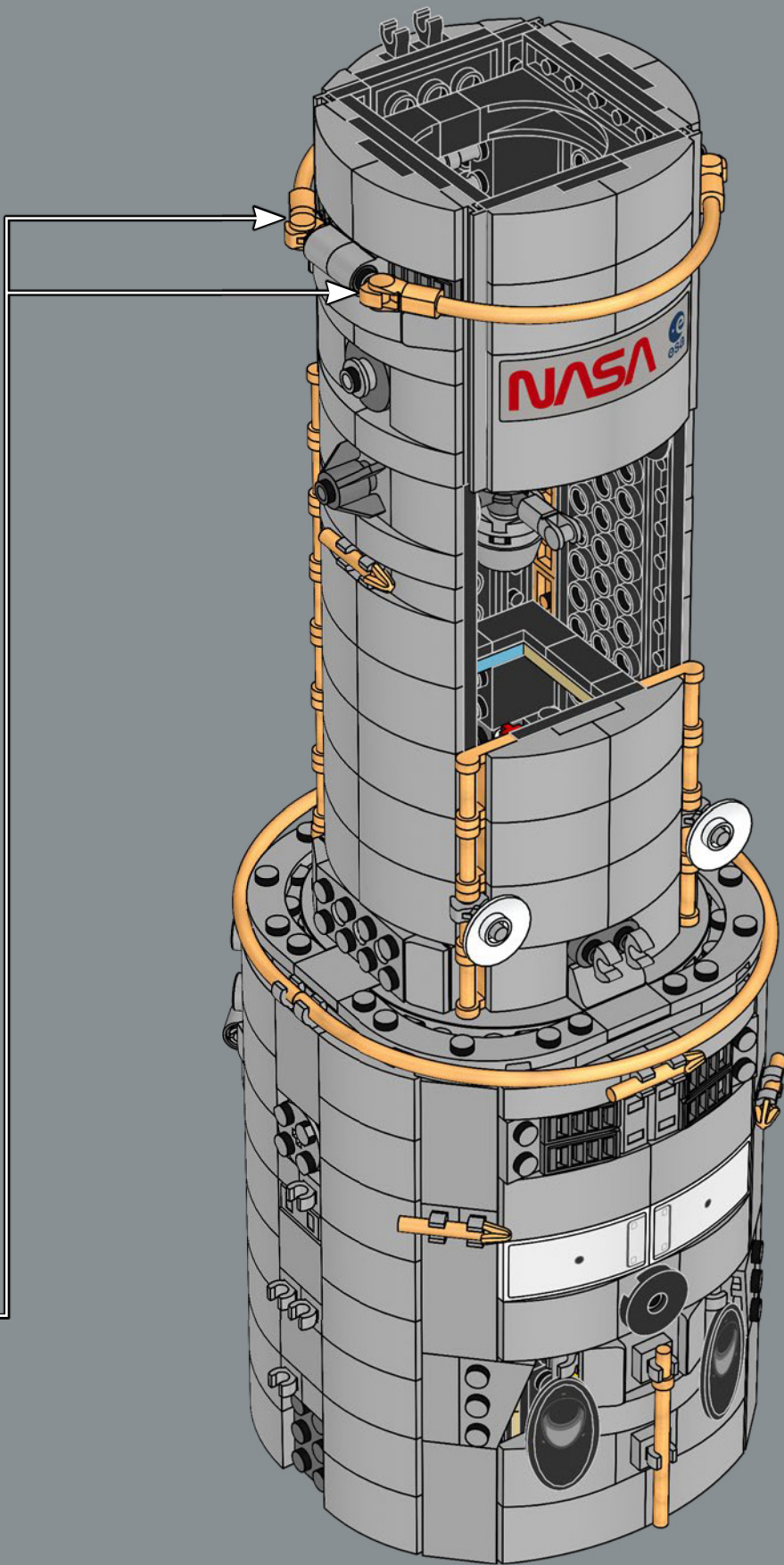


2



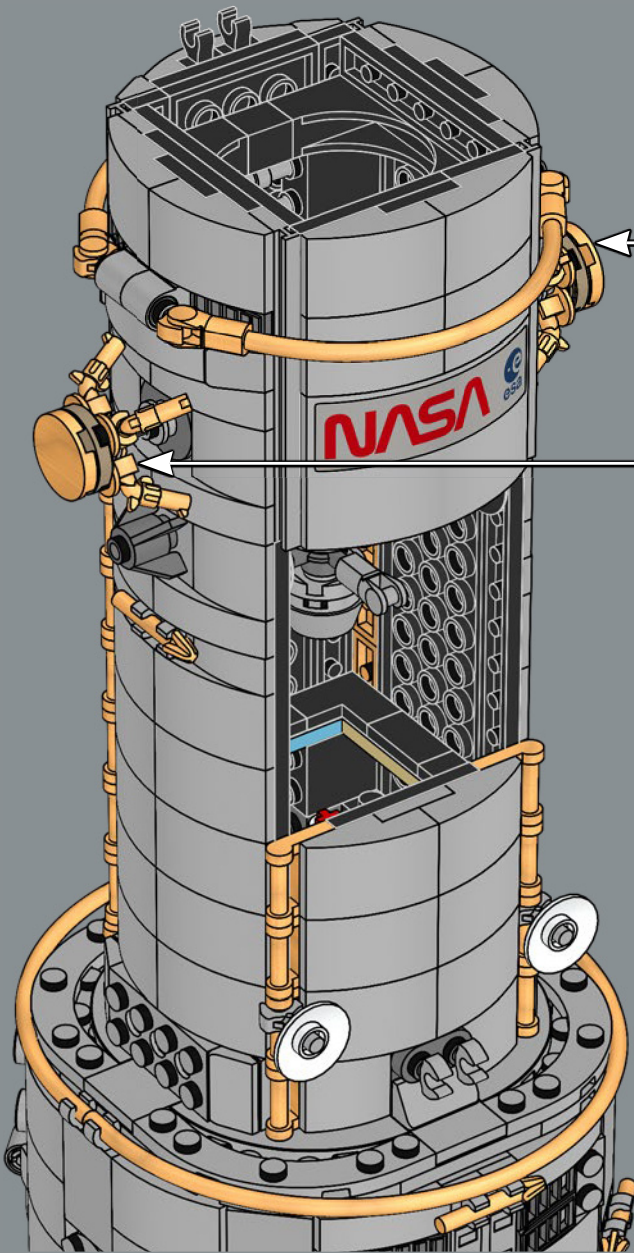
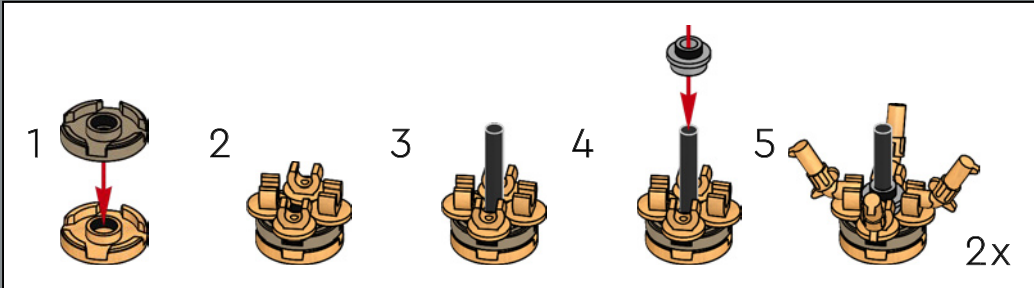
3

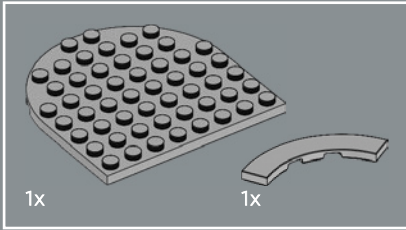
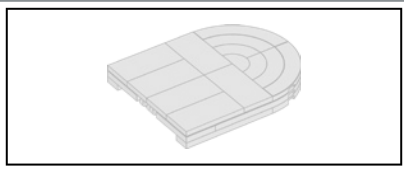




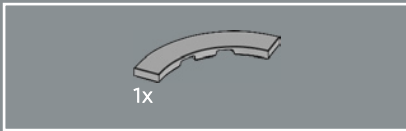
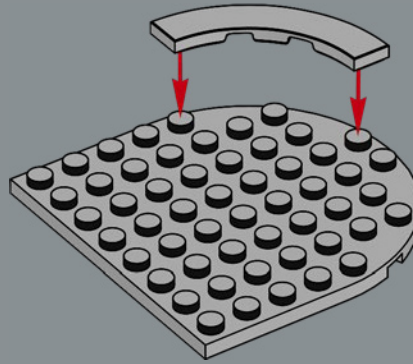


289

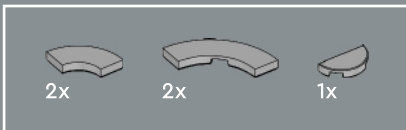
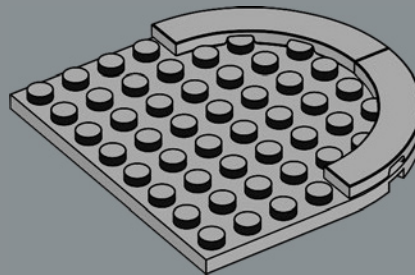




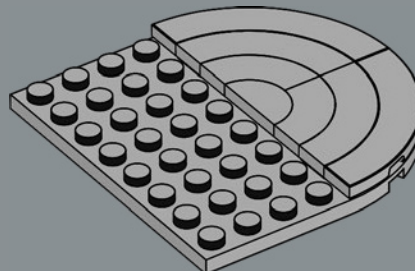
290

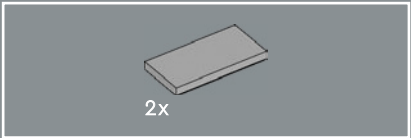


291

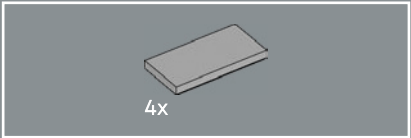
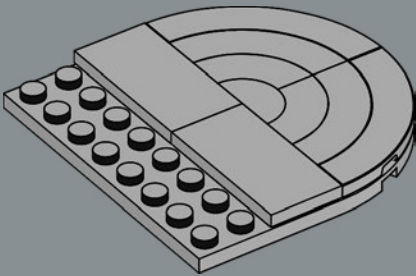


292

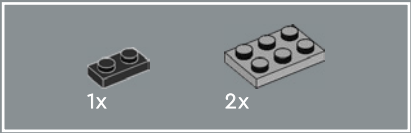
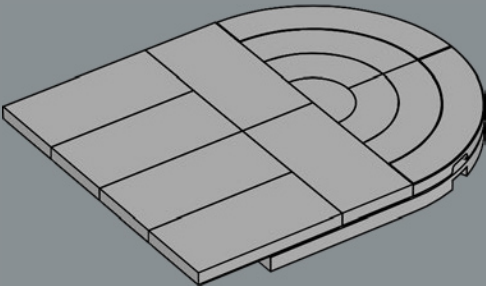




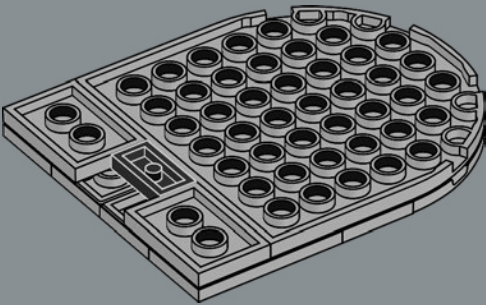
293

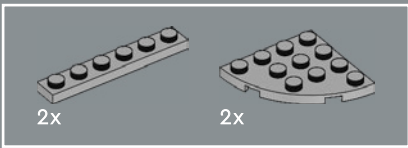


294

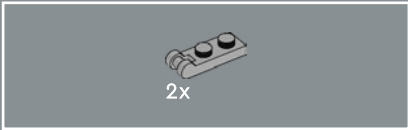
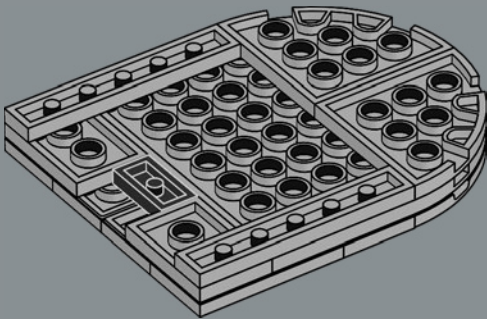


295

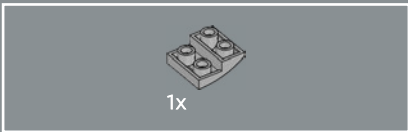
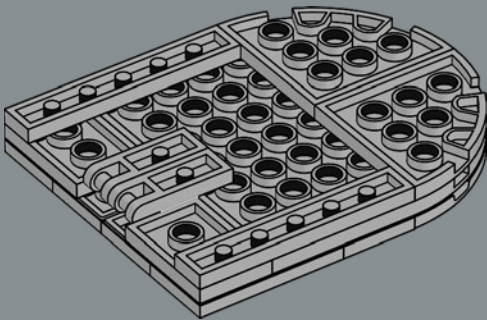




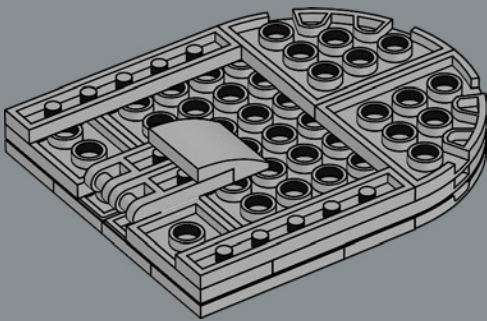
296

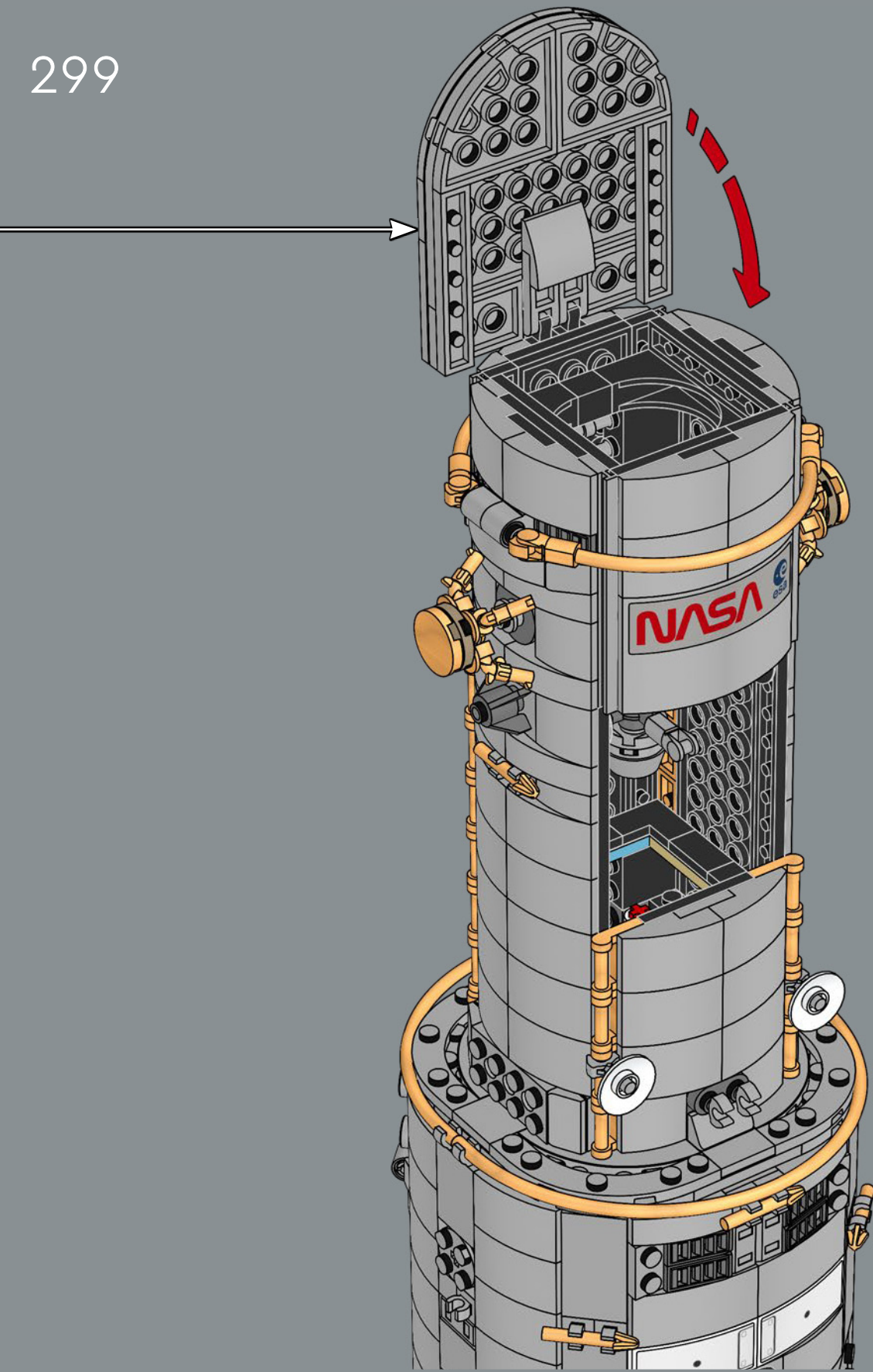


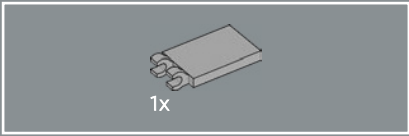
297



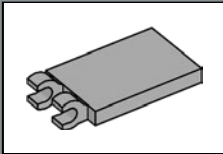
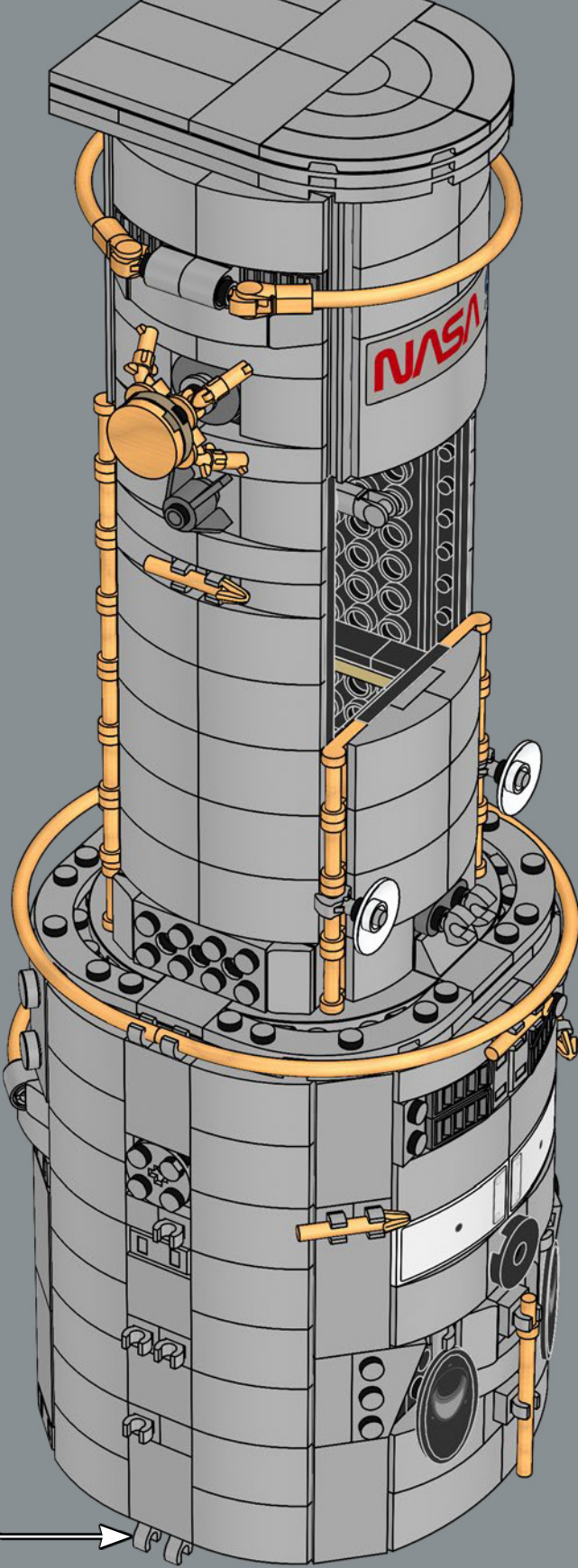
298





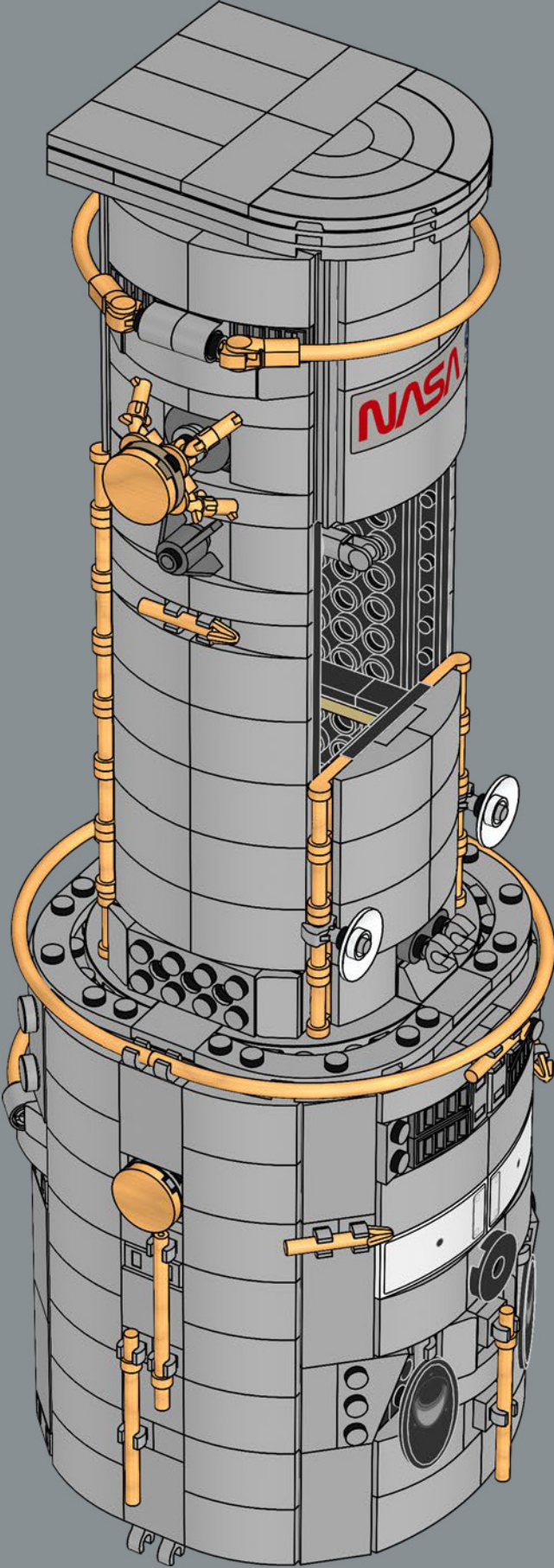


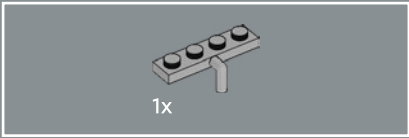
300



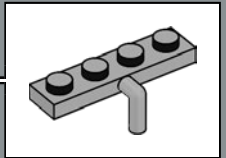
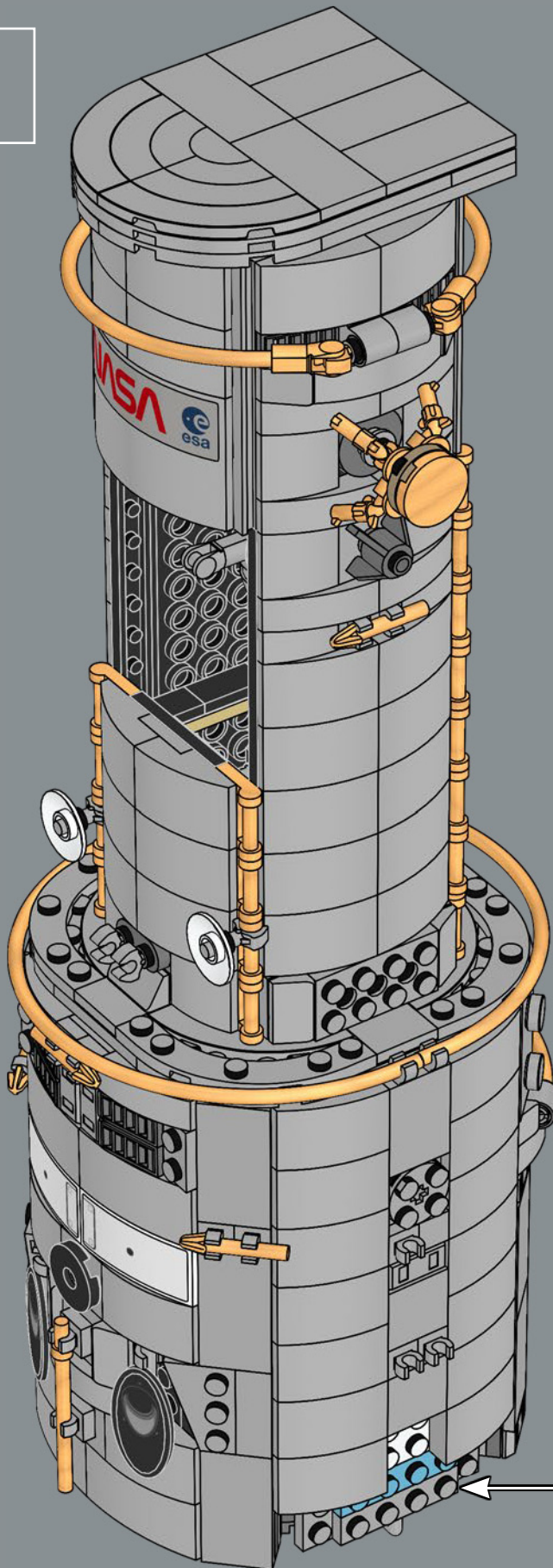


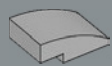
301





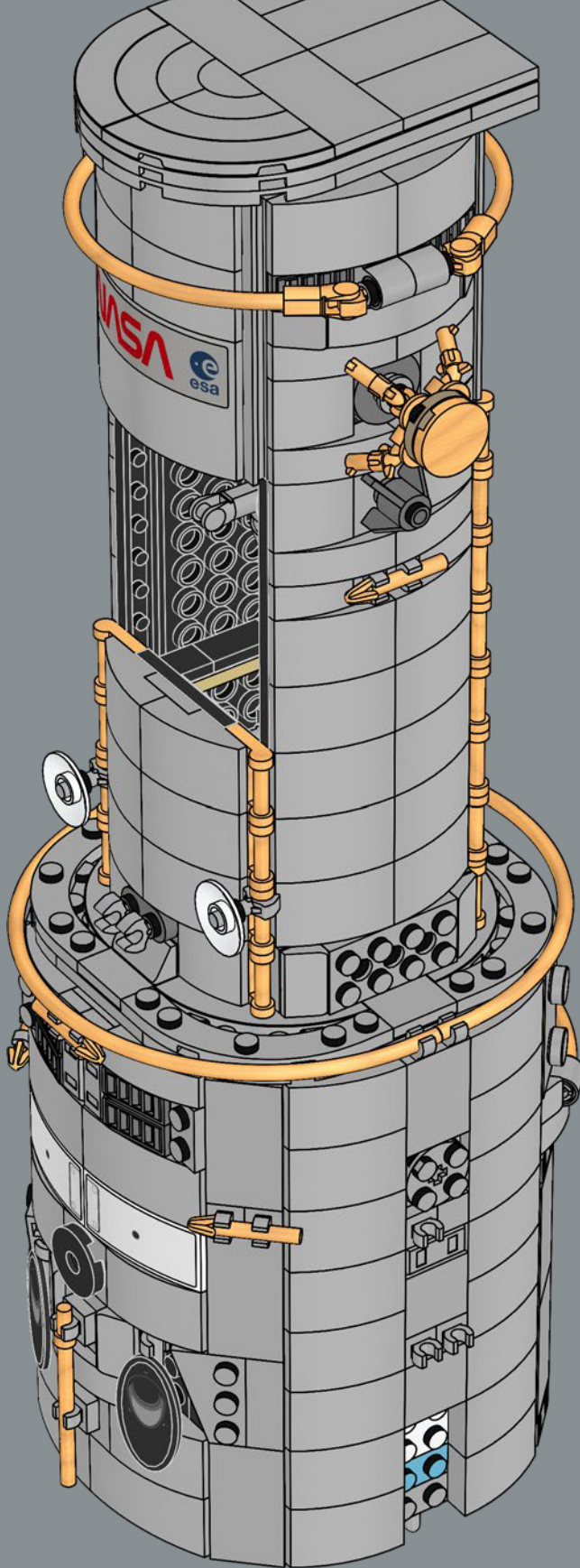
302

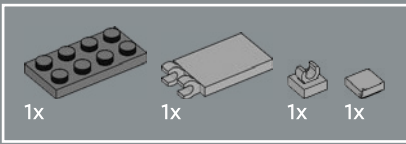




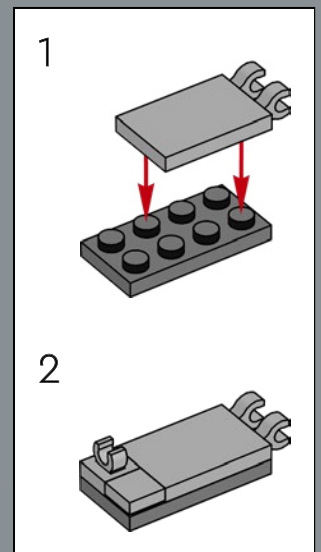
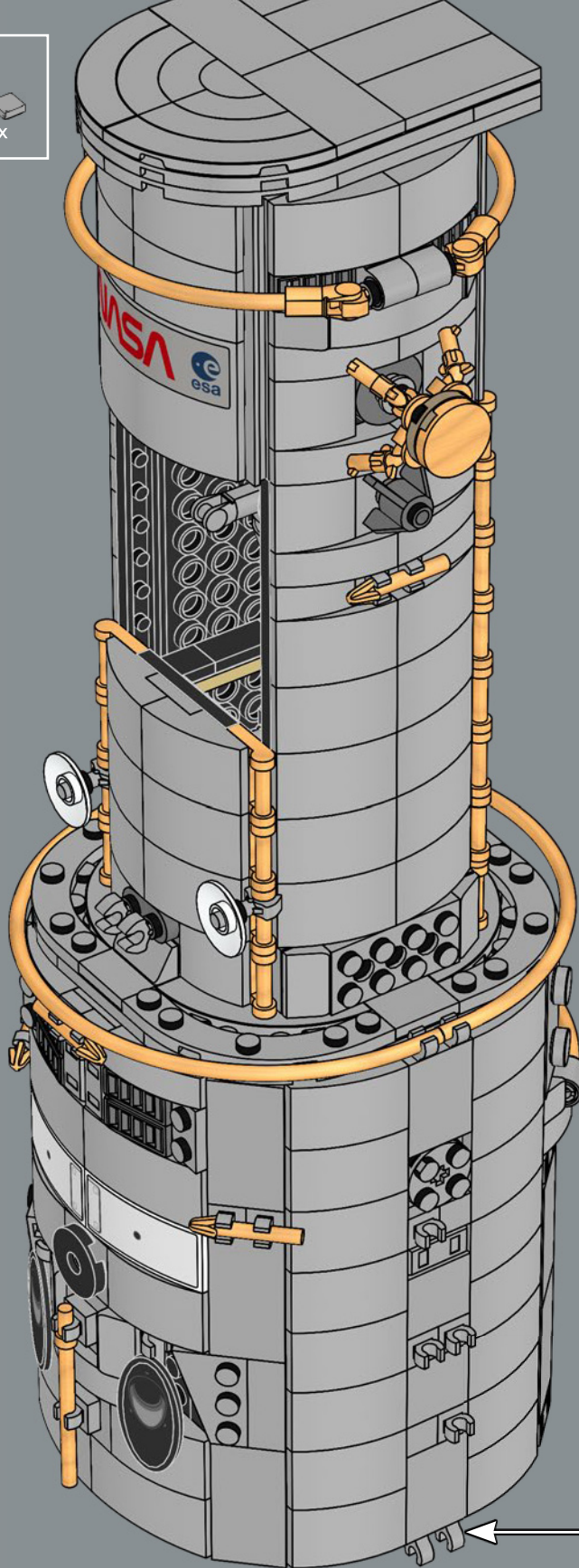
2x

303



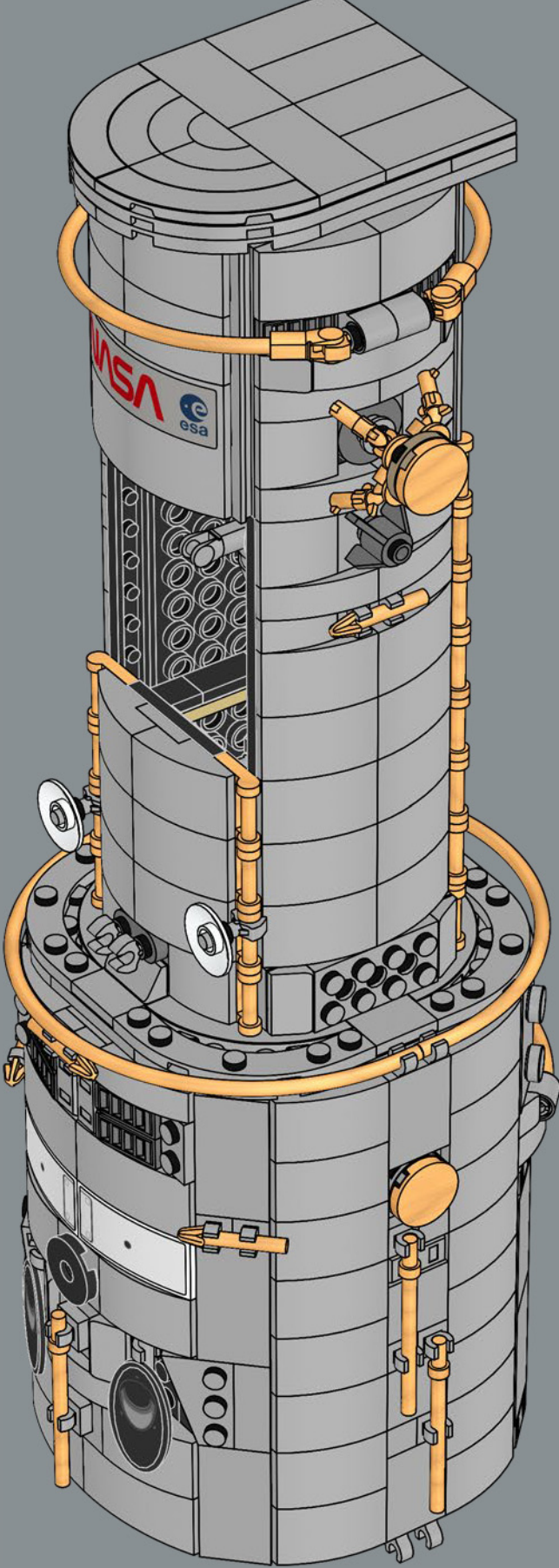


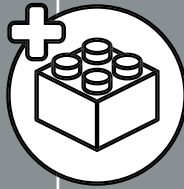
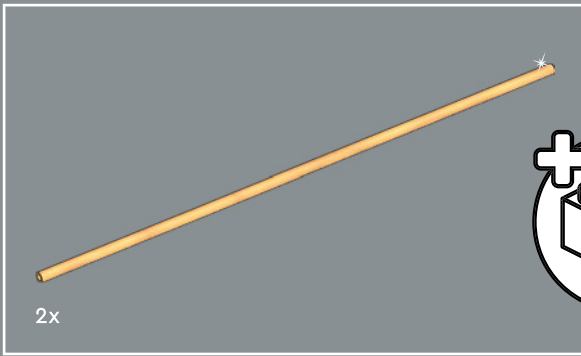
304



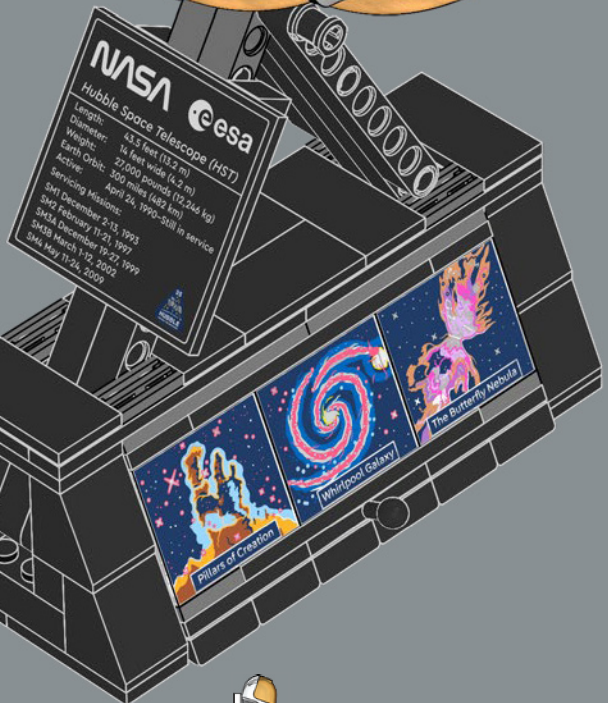
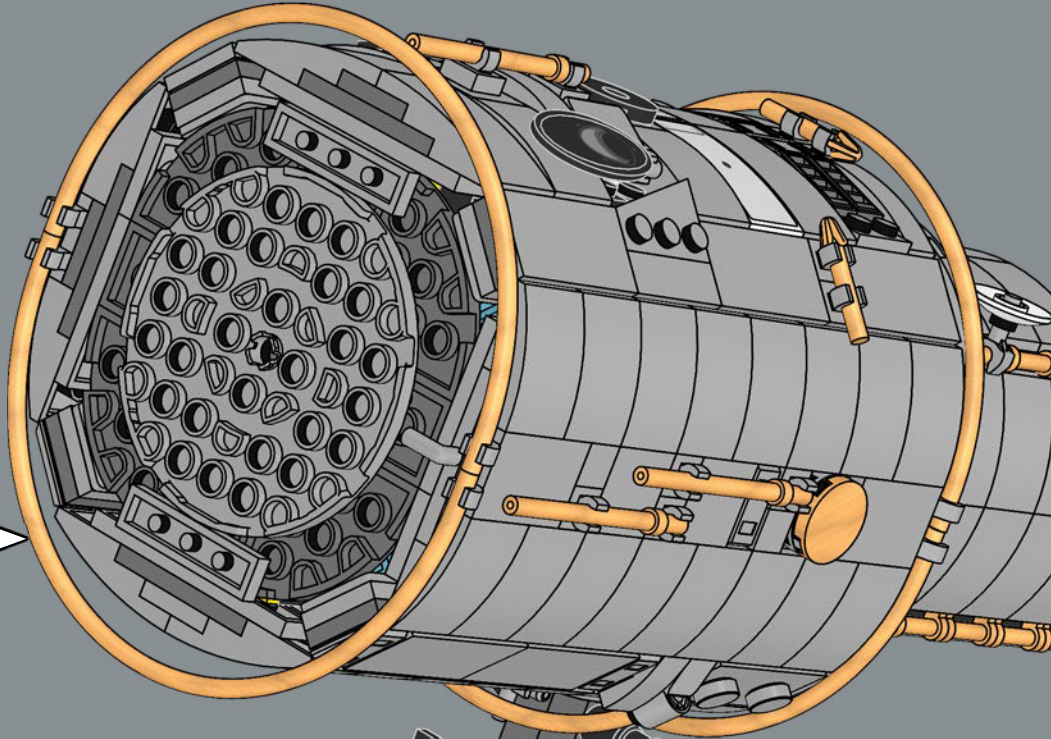


305





306

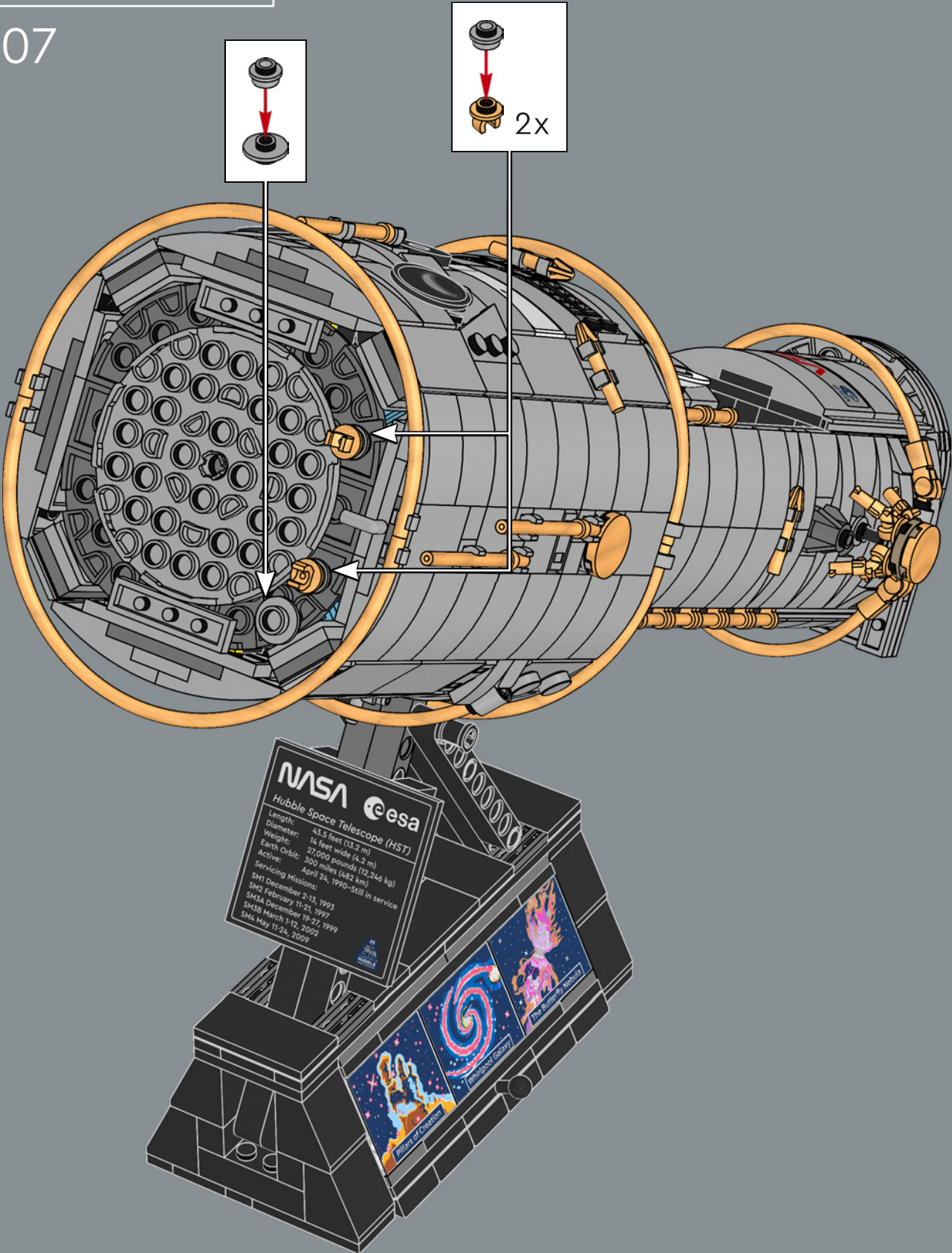


3x

2x

1x

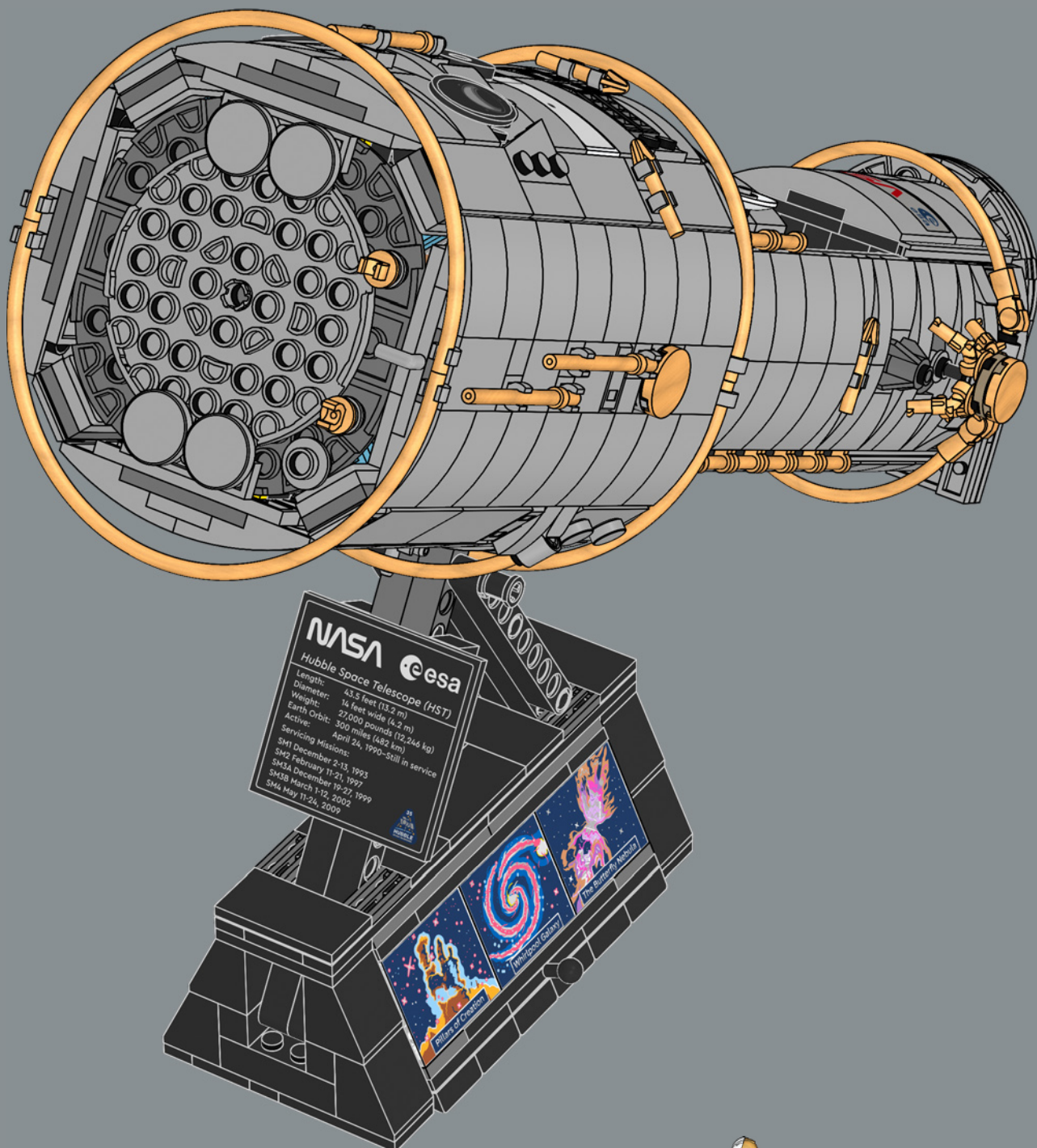
307

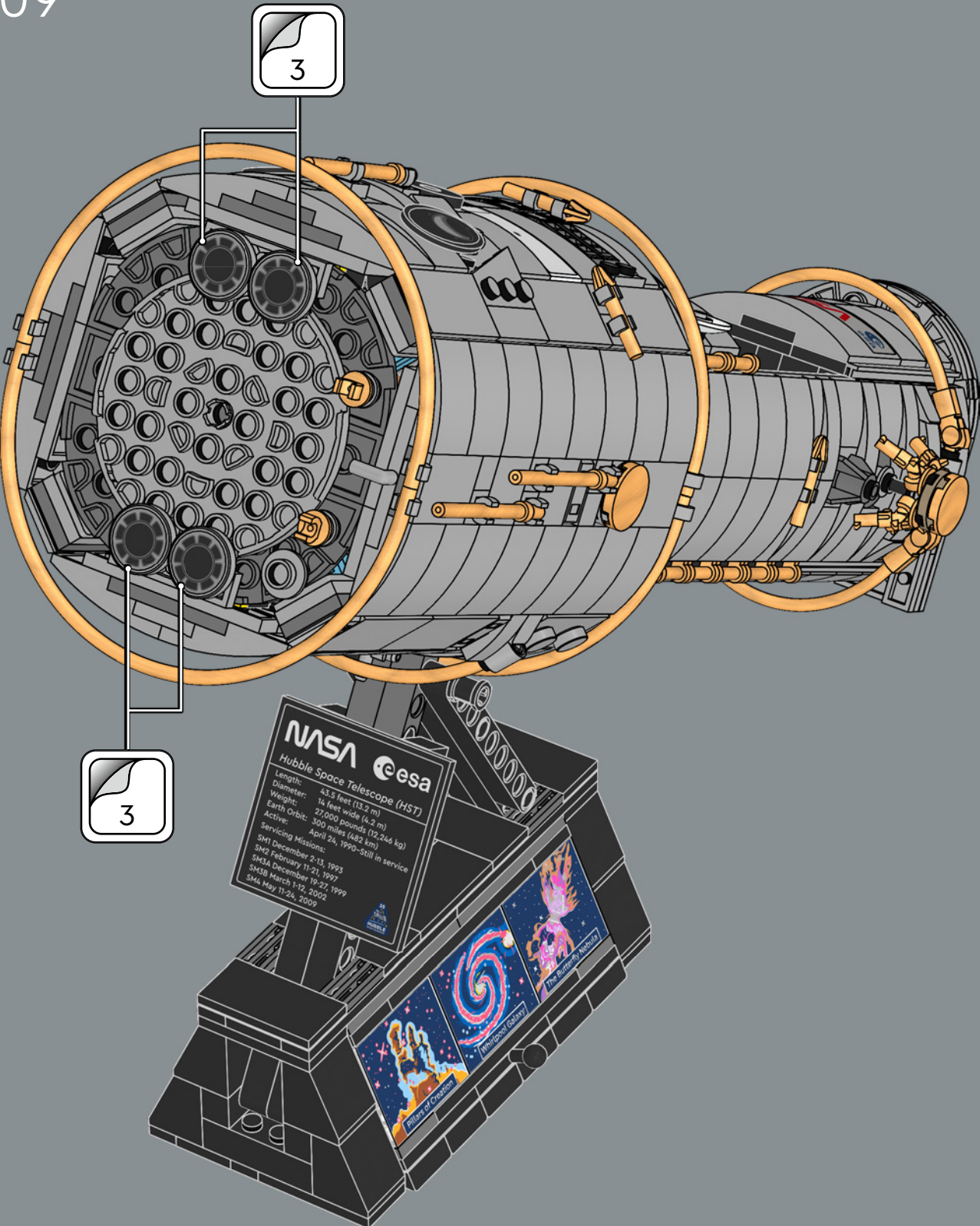


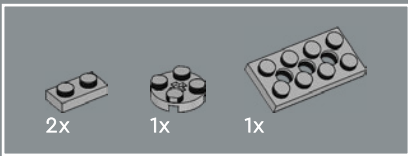


4x

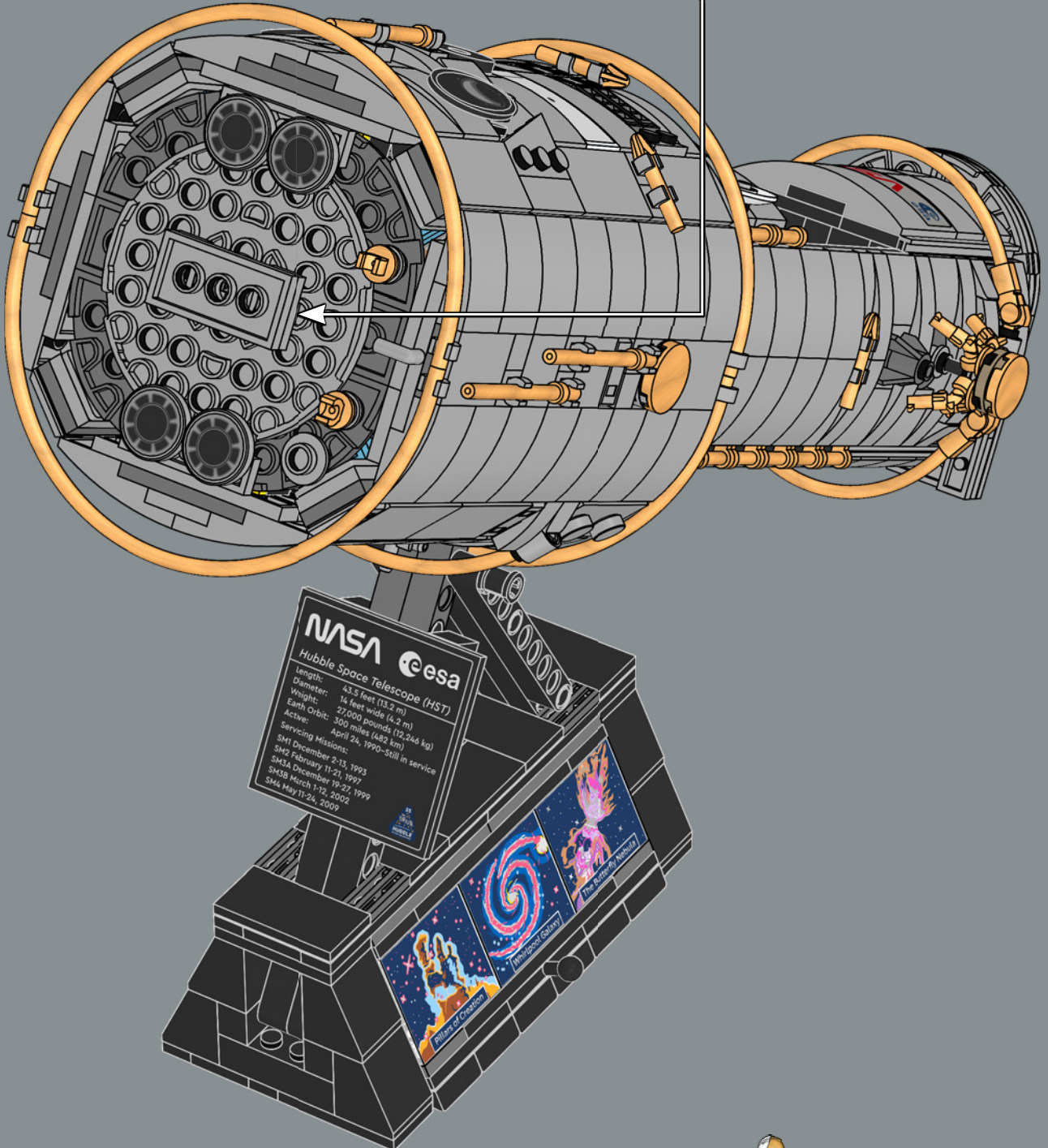
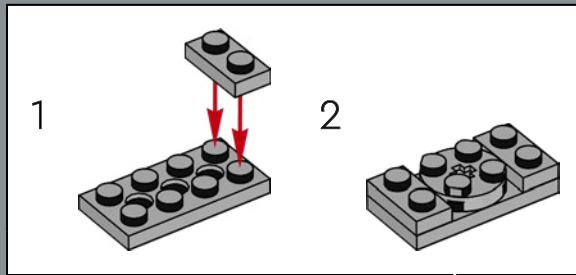
308





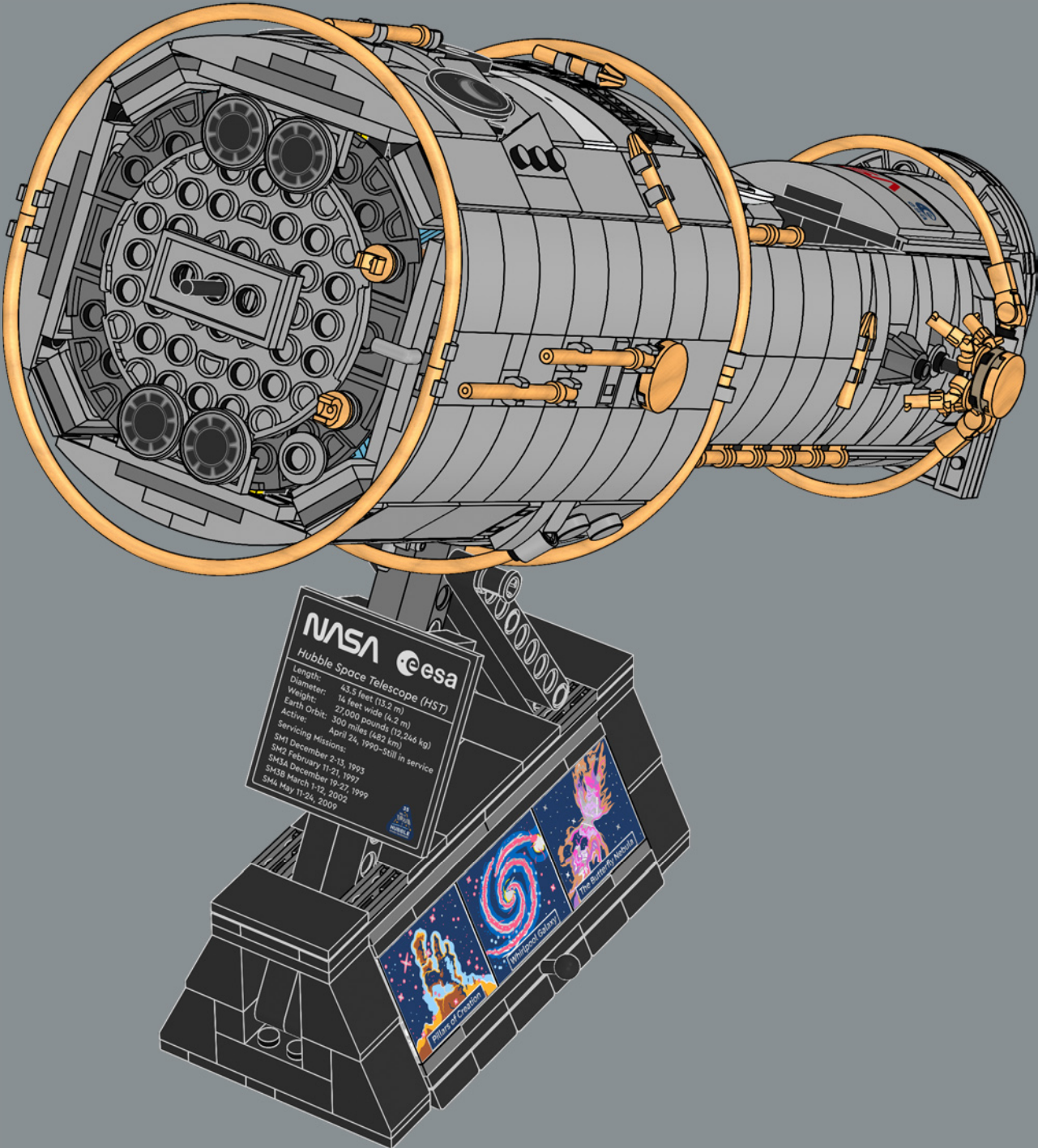


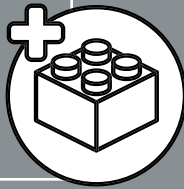
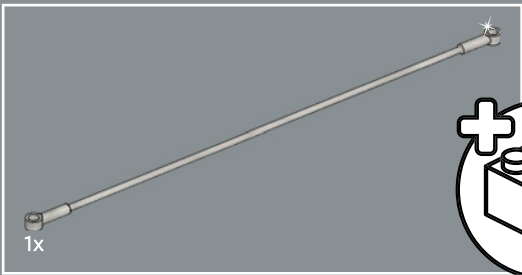
310



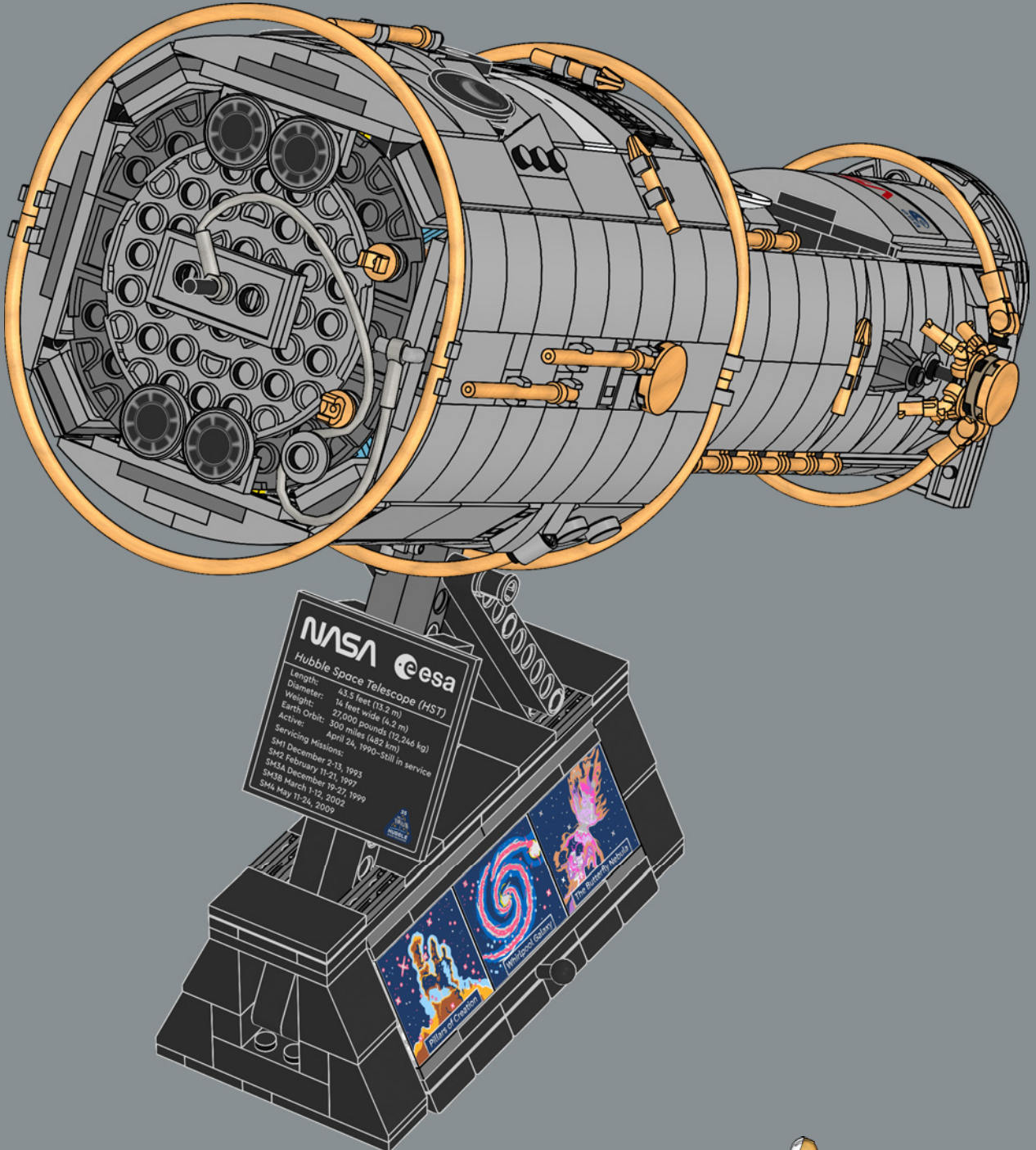


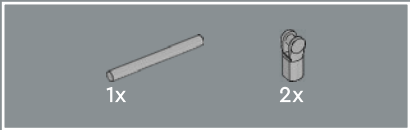
311



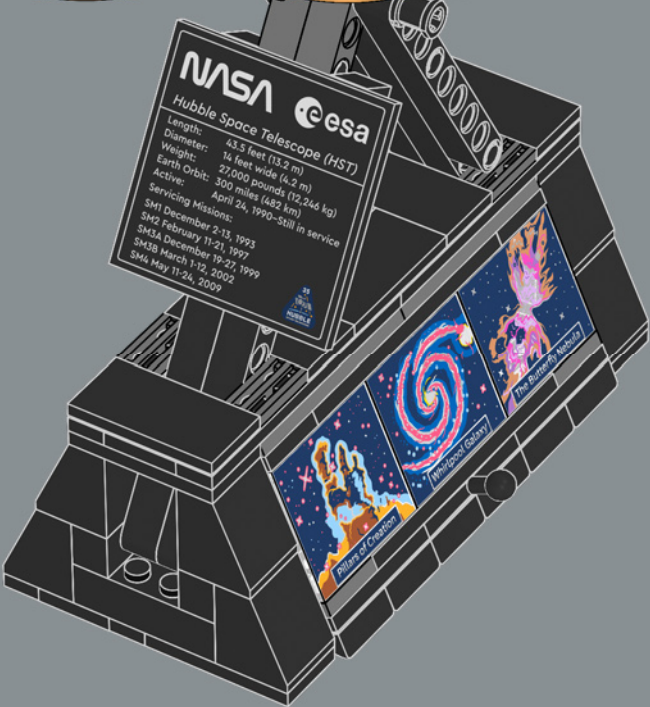
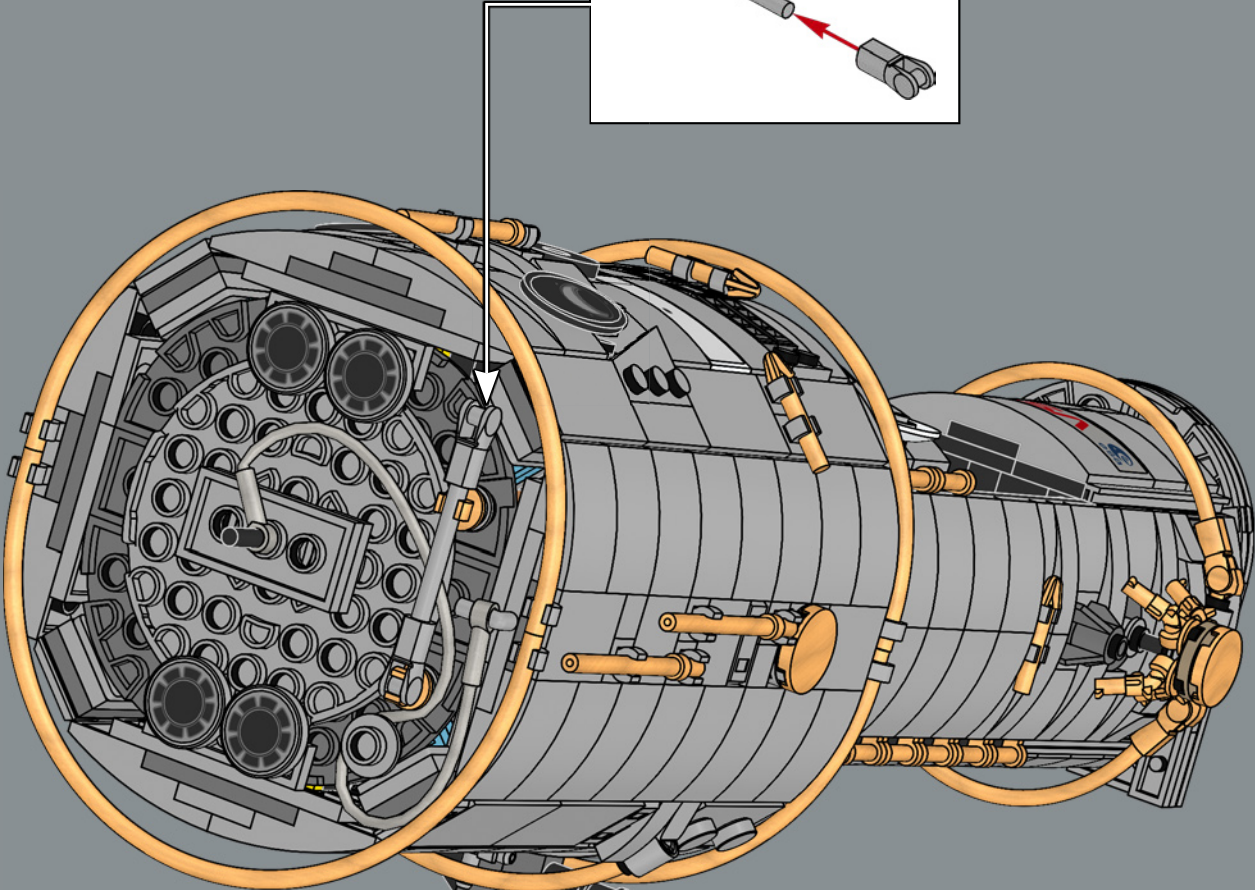
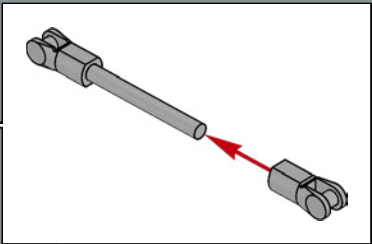


312





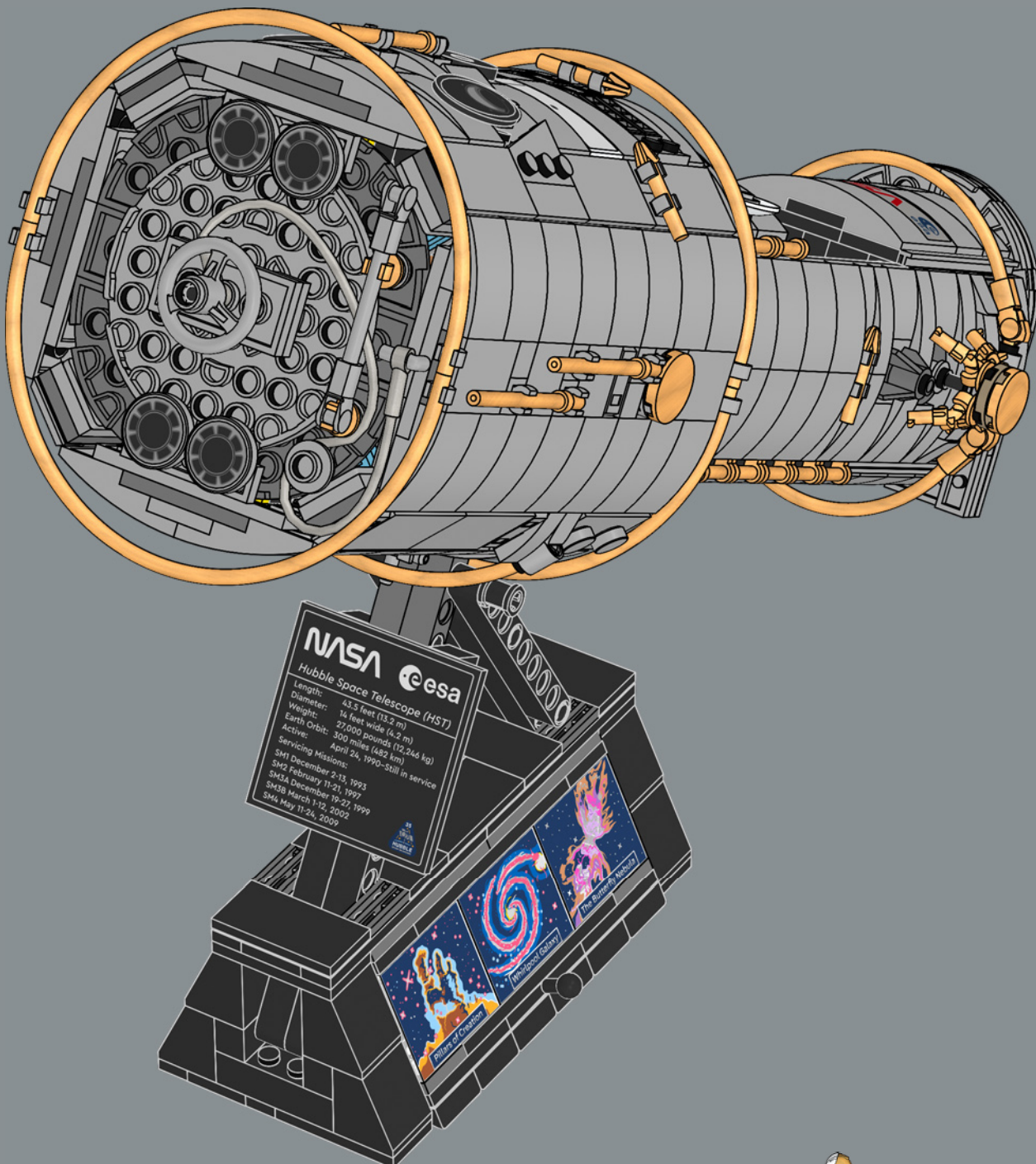
313

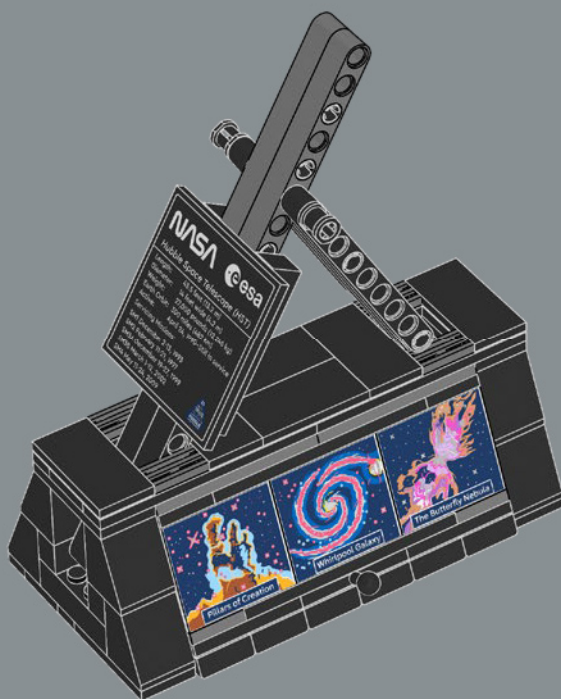


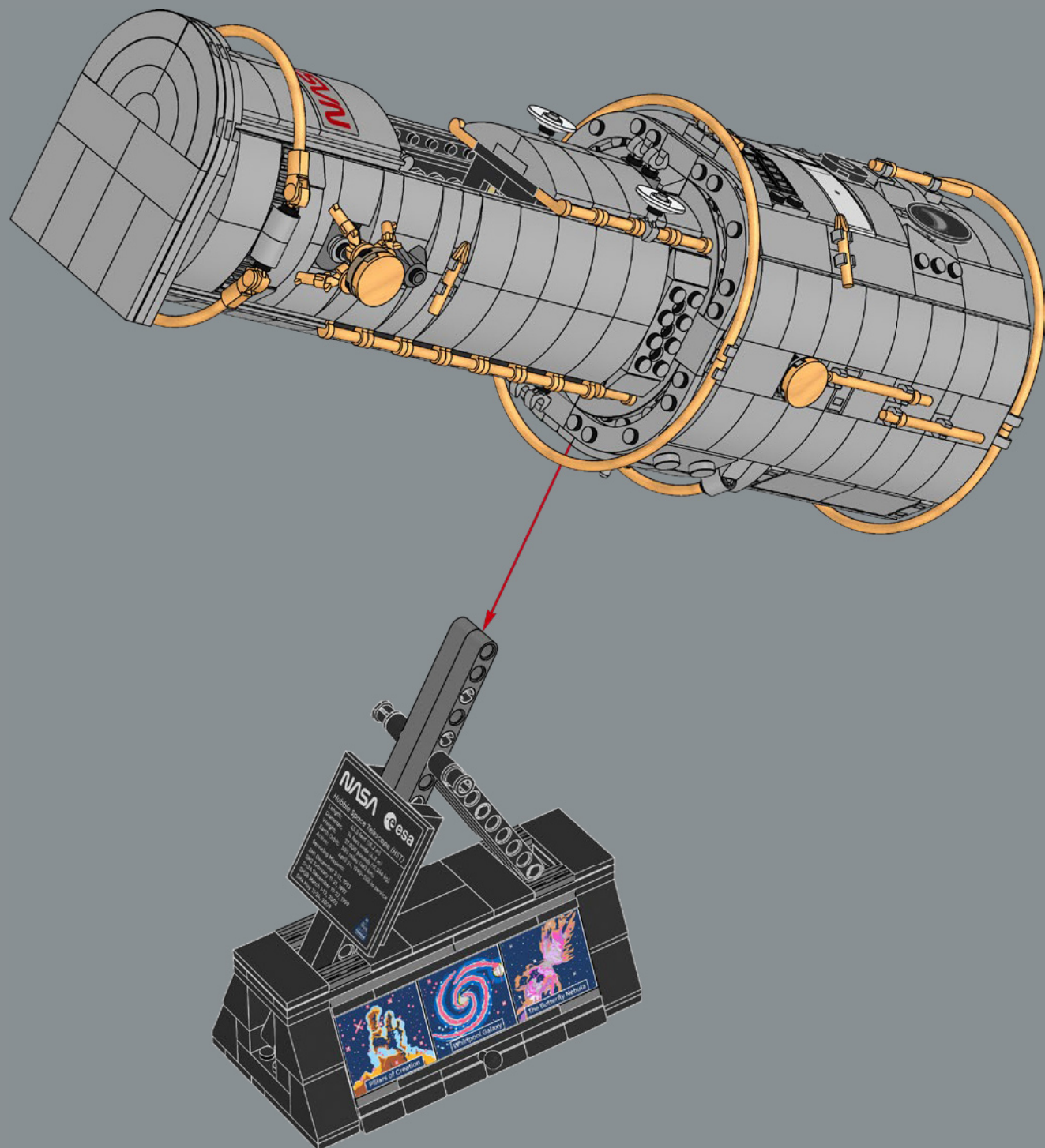


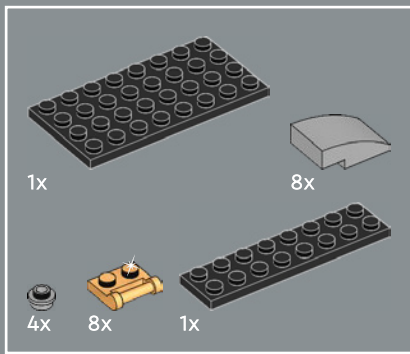
1x

314



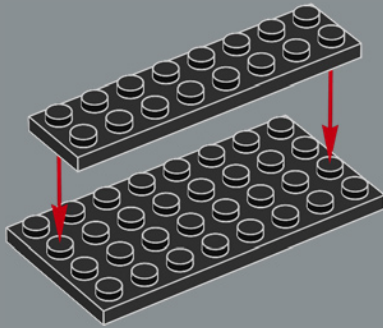




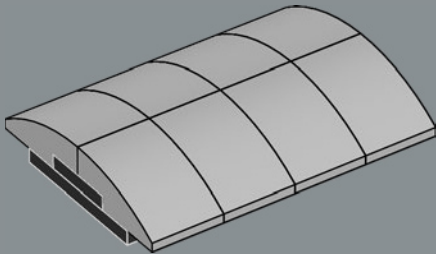


317

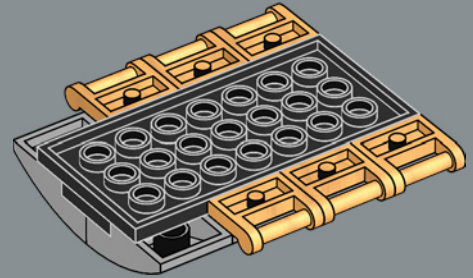
1



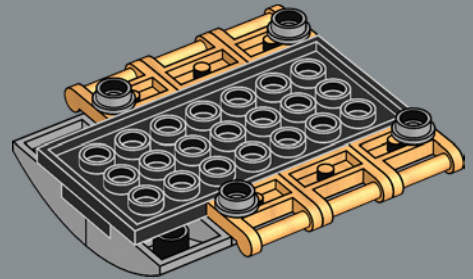
2



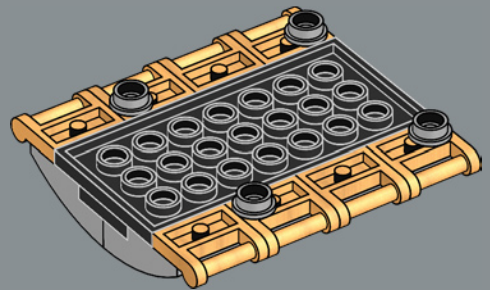
3

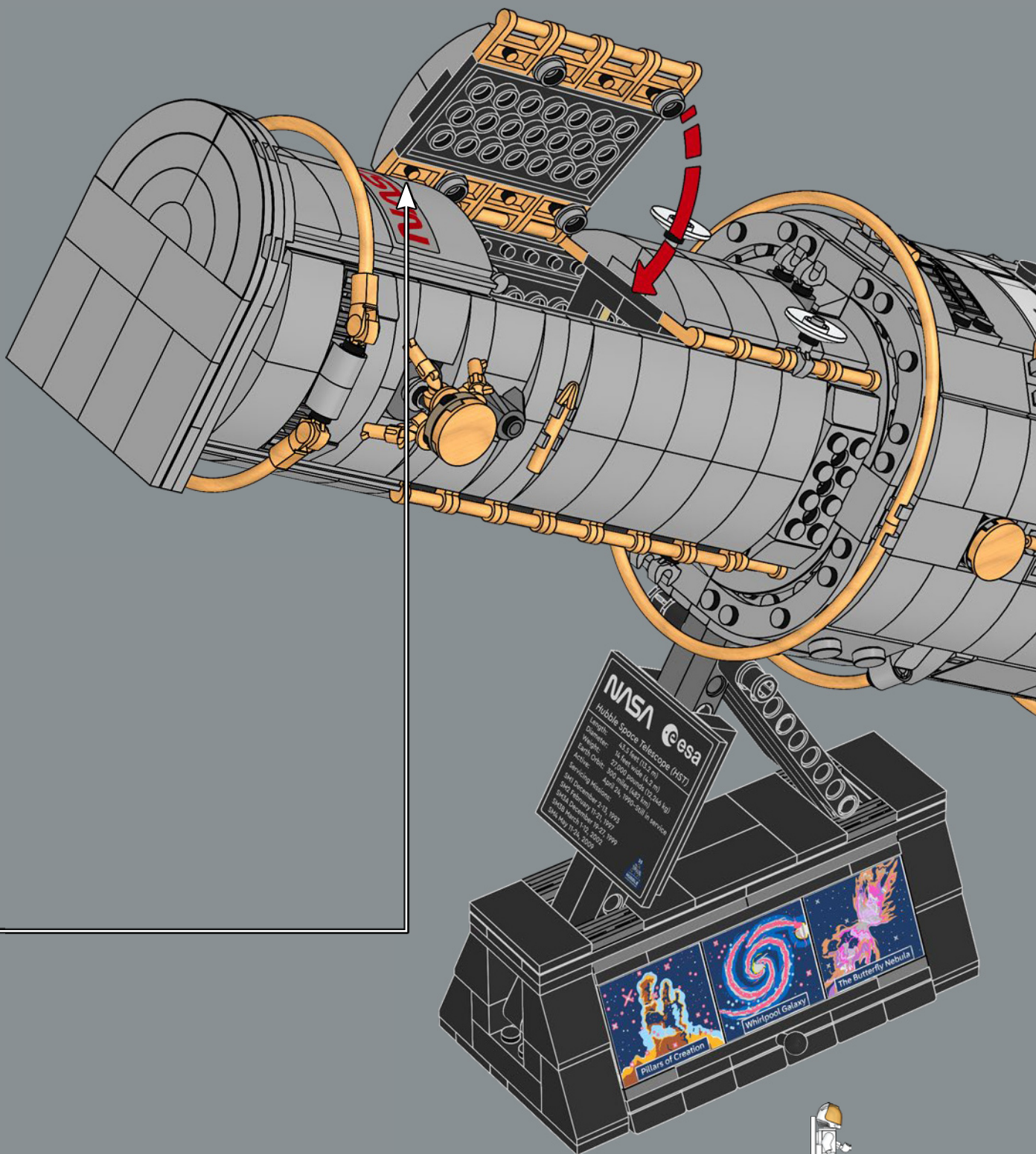


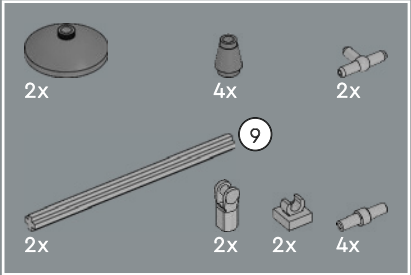
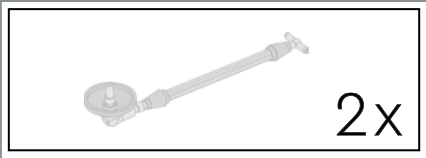
4



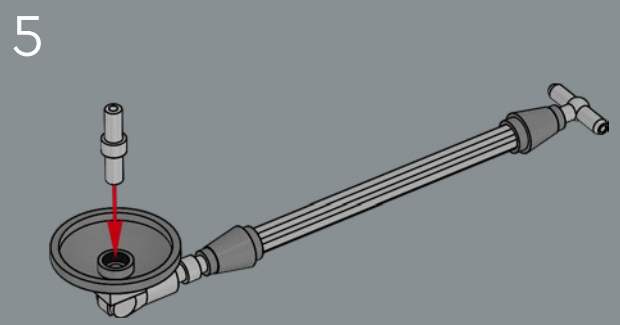
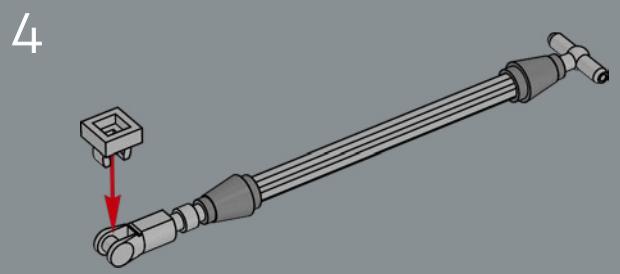
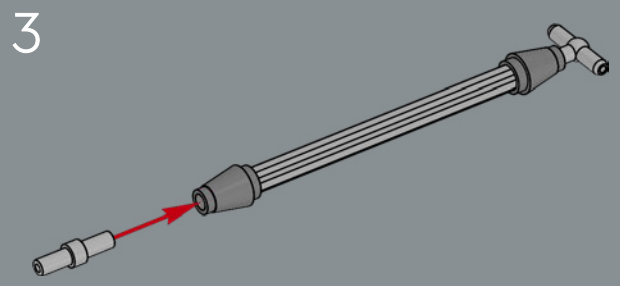
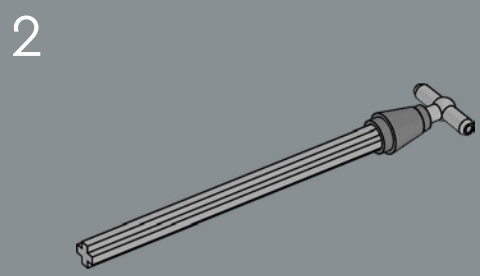
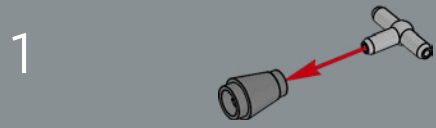
5





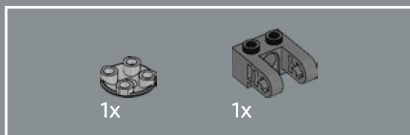
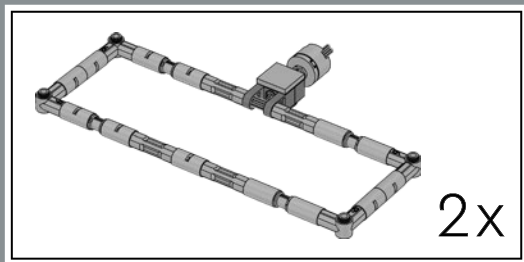
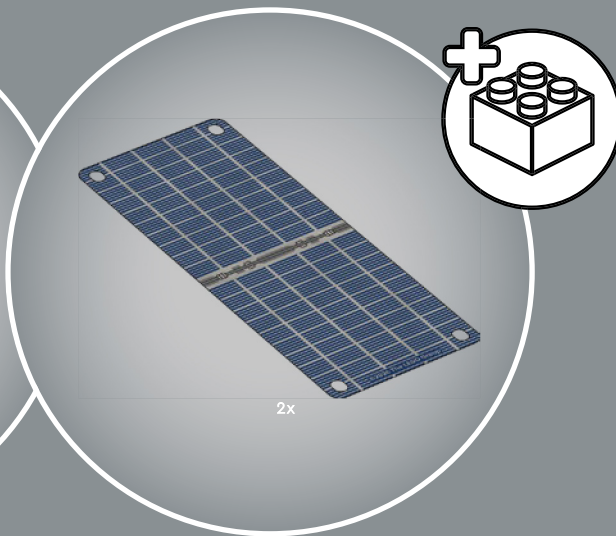


318

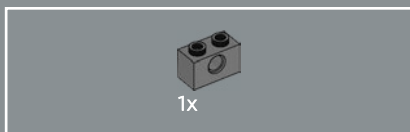
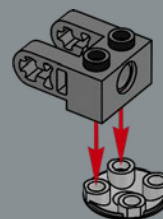


2x

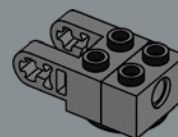


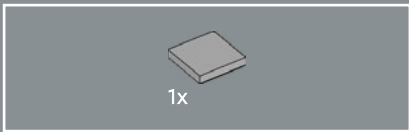


319

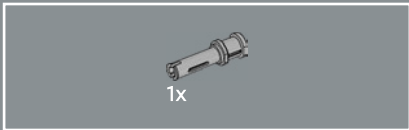
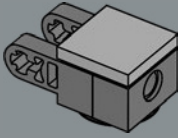


320

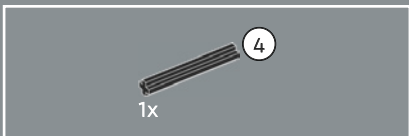
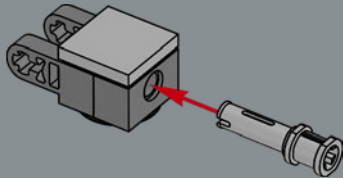




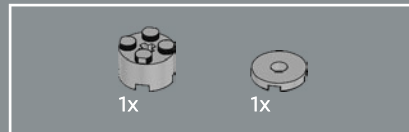
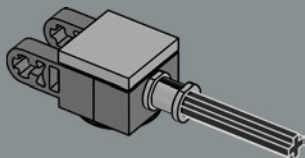
321



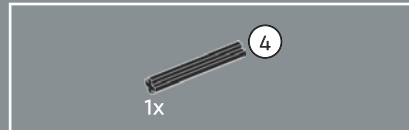
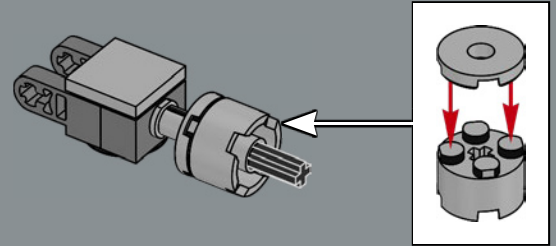
322



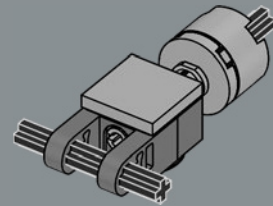
323



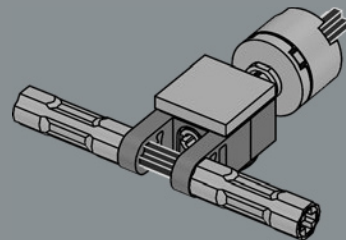
324

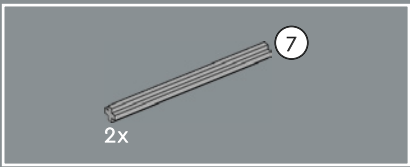


325

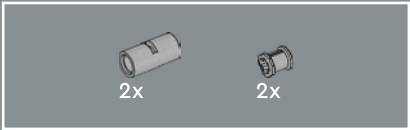
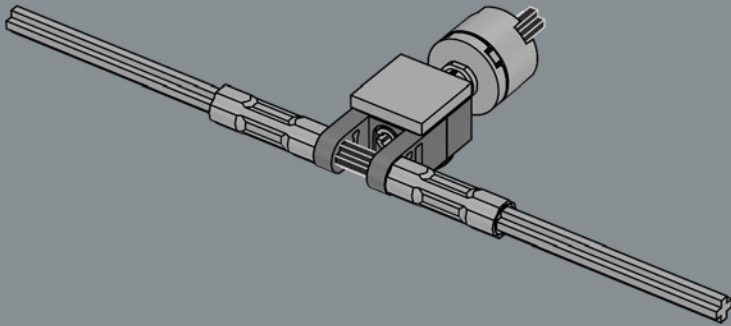


326

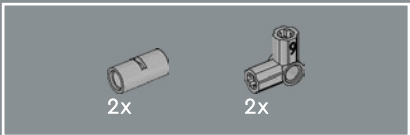
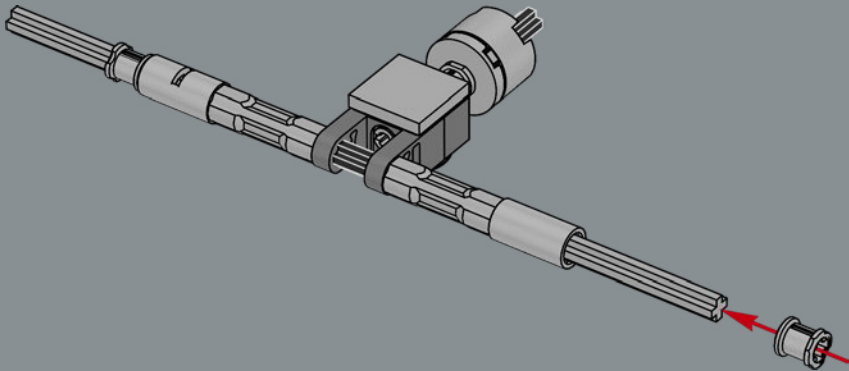




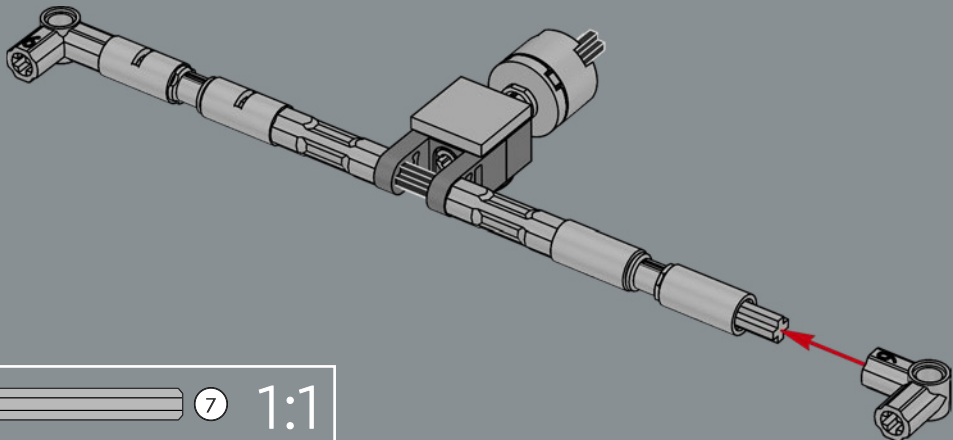
327

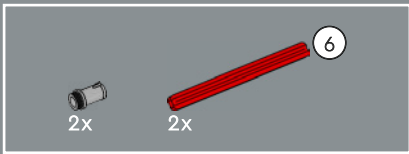


328

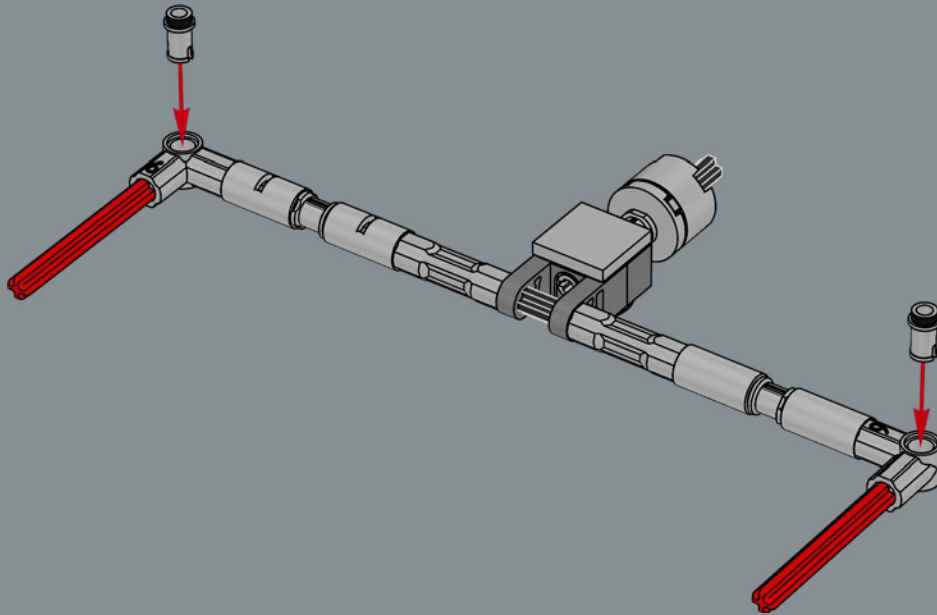


329

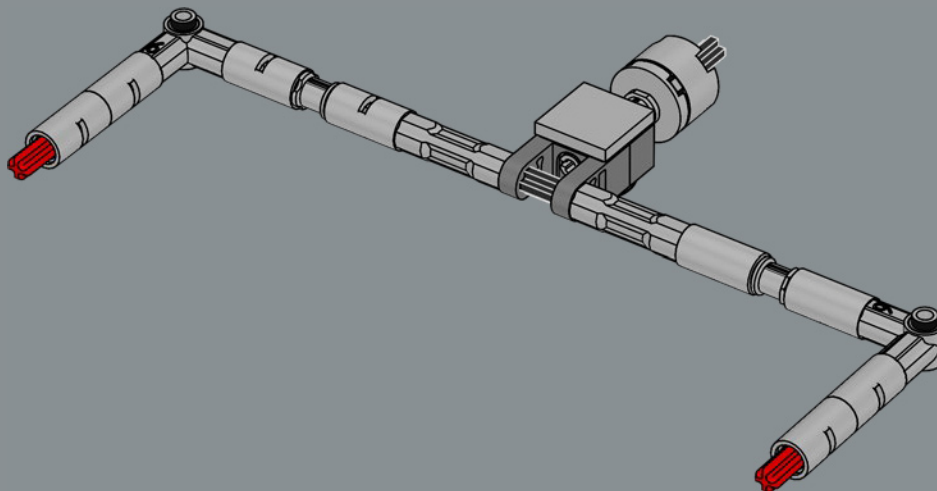


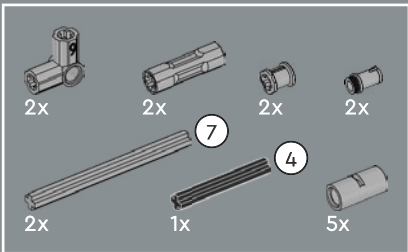
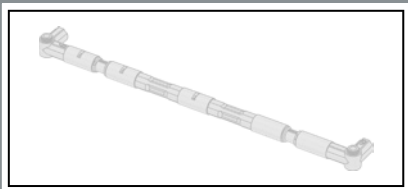


330



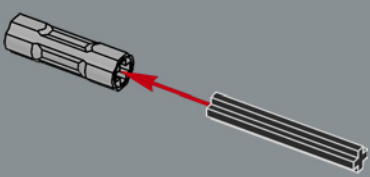
331



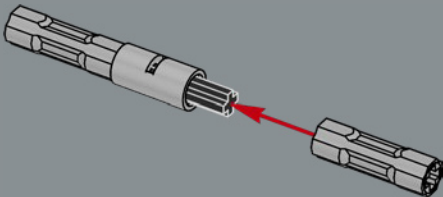


332

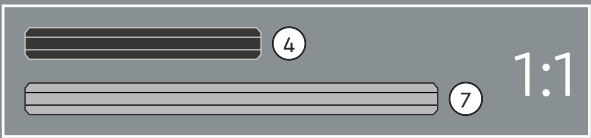
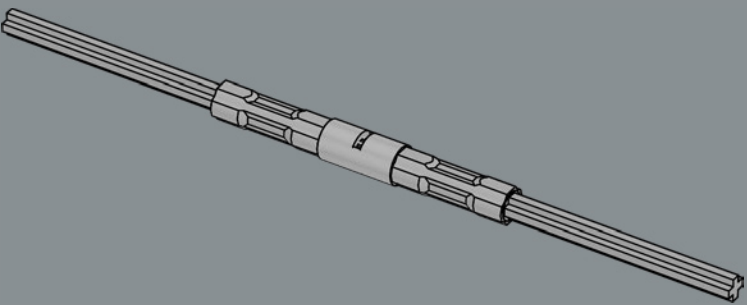
1



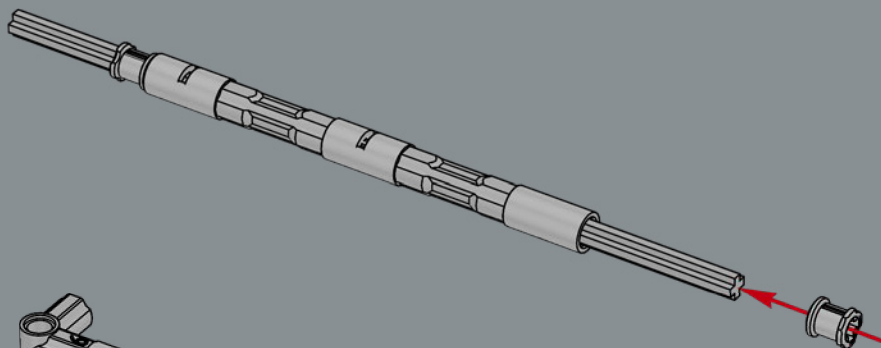
2



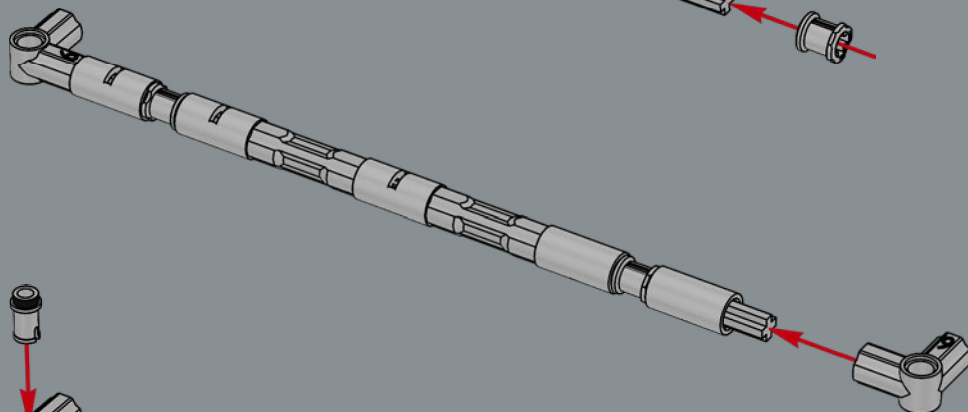
3



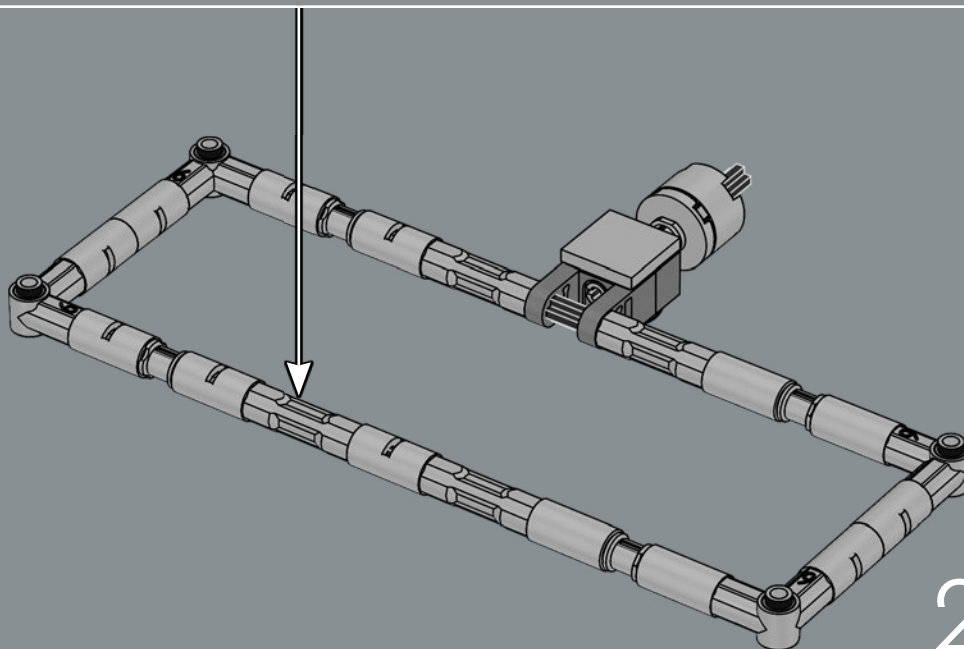
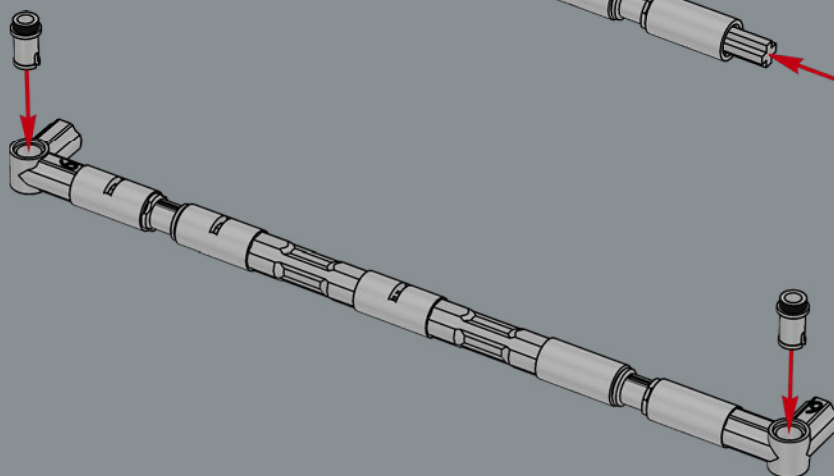
4



5

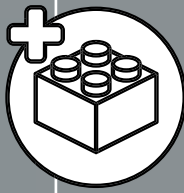
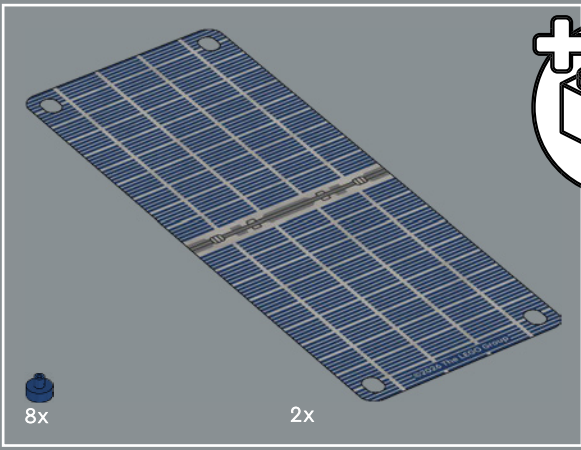


6



2x

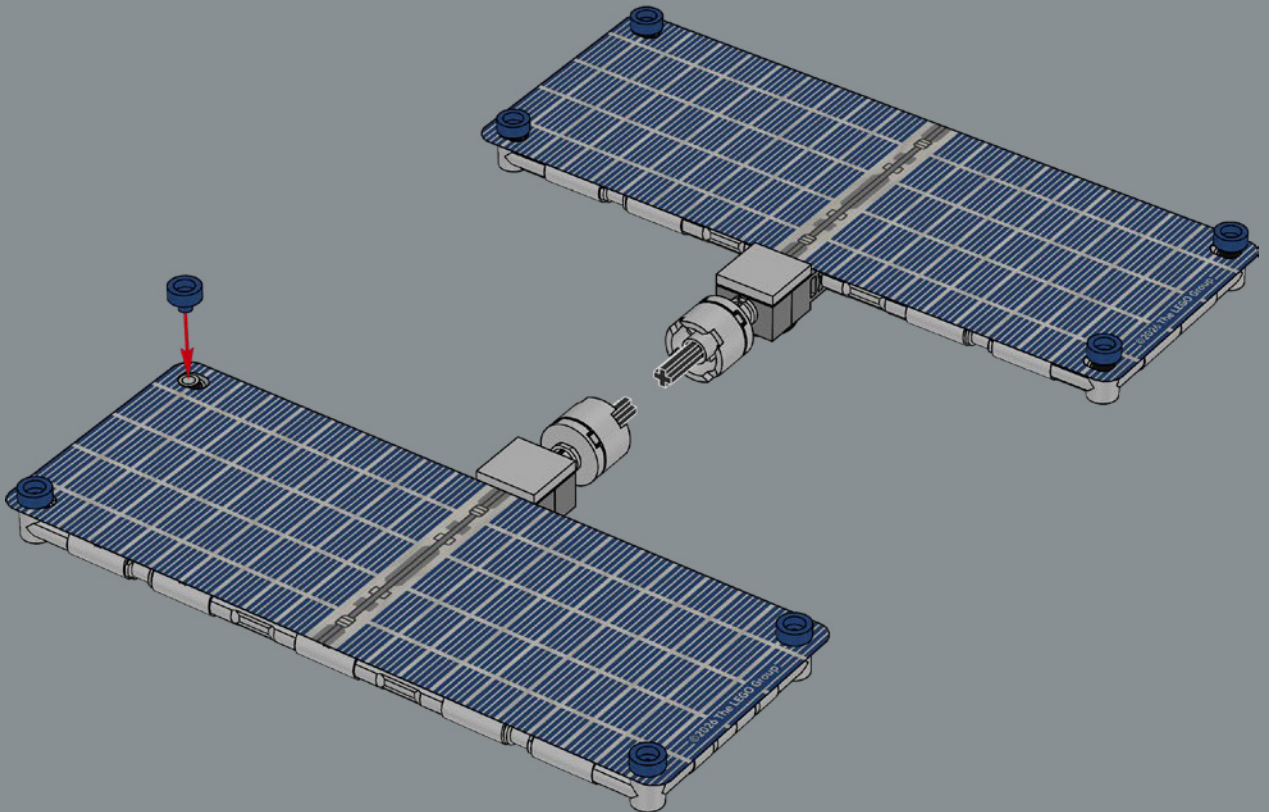


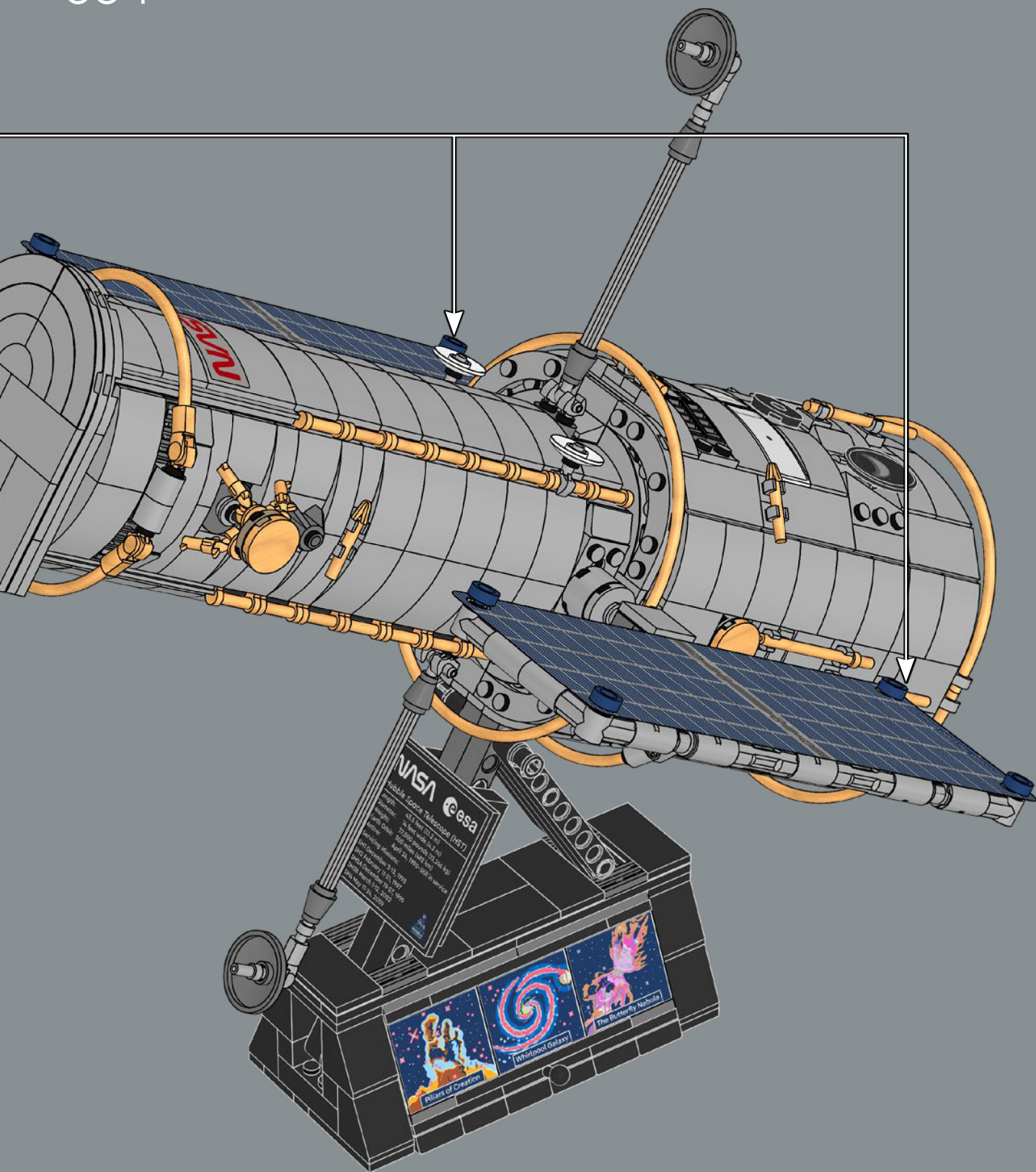


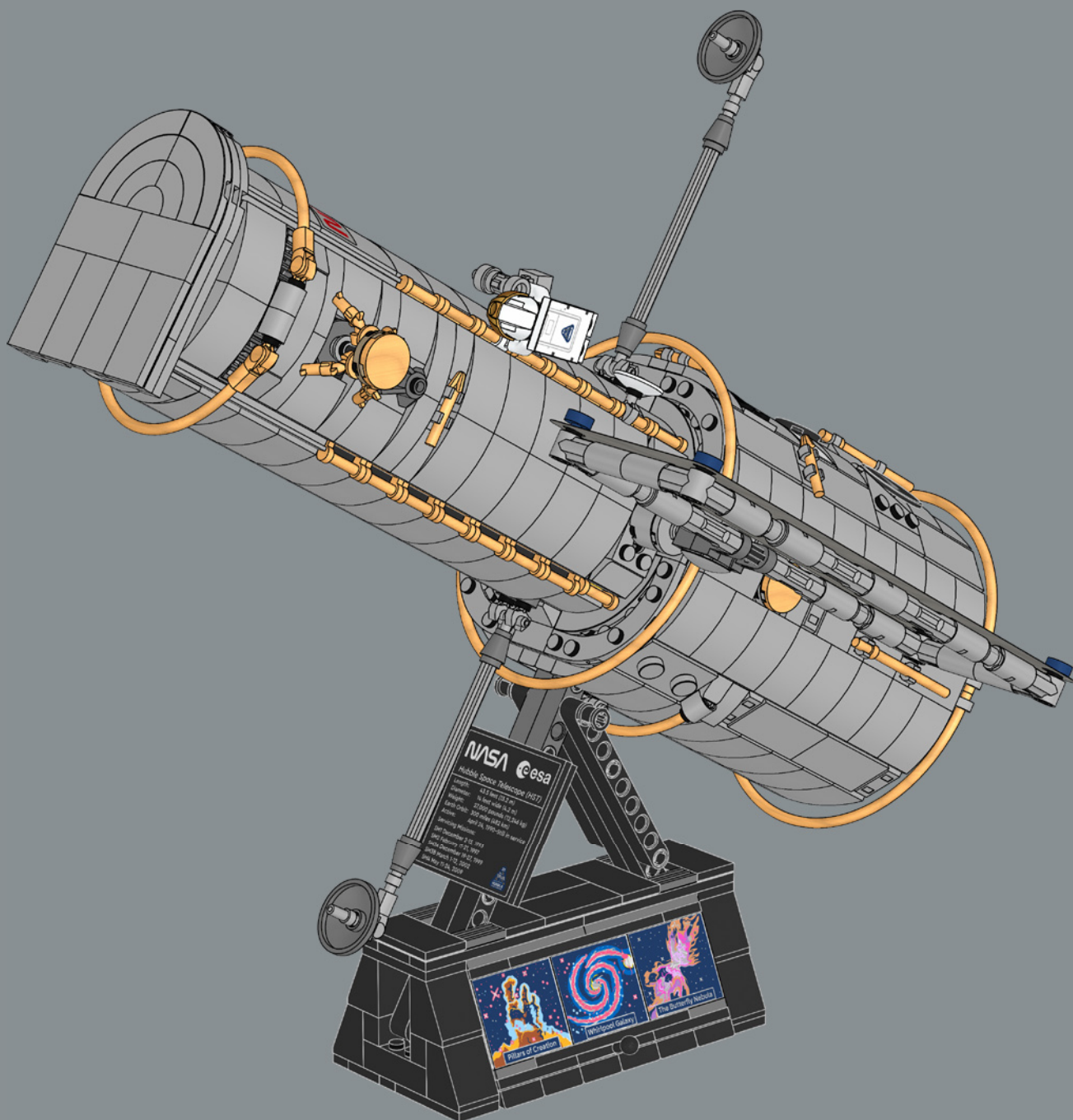
哈勃望远镜的太阳能电池板更换过两次。对于该模型，我们选择了 2002 年 SM3B 期间安装的最新版本。



333







8x 6341465
16x 6360263
4x 6055541
4x 300501
4x 307001
4x 6224811
3x 6627203
1x 6594307
1x 6610802
2x 474001
1x 302301
2x 6313115
4x 6051511
4x 6058177
4x 6431329
1x 6618623
1x 6594611
1x 6594613
1x 6594614
2x 302101
2x 371001

3x 6023806
1x 370901
2x 6031947
15x 302001
3x 303401
4x 4218749
8x 6173057
2x 4113916
8x 4124067
1x 6525731
2x 6102138
8x 6092565
12x 6469446
4x 6130002
4x 6130004
12x 6248971
8x 306924
2x 371024
2x 302024
3x 303424

8x 6186675
4x 6332148
4x 300526
16x 407026
2x 6594309
6x 4548180
25x 6279875
14x 4278359
1x 403226
1x 6143850
10x 302326
4x 6178922
12x 300426
4x 306926
4x 6047276
4x 245426
20x 6308883
2x 6336989
3x 6093525

8x 4273703
2x 302226
2x 6053077
4x 6133722
2x 6321745
9x 370526
6x 371026
1x 4516020
9x 4162443
1x 6254519
2x 300126
4x 302026
6x 4560182
2x 389426
2x 6184876
4x 366626
2x 6058118

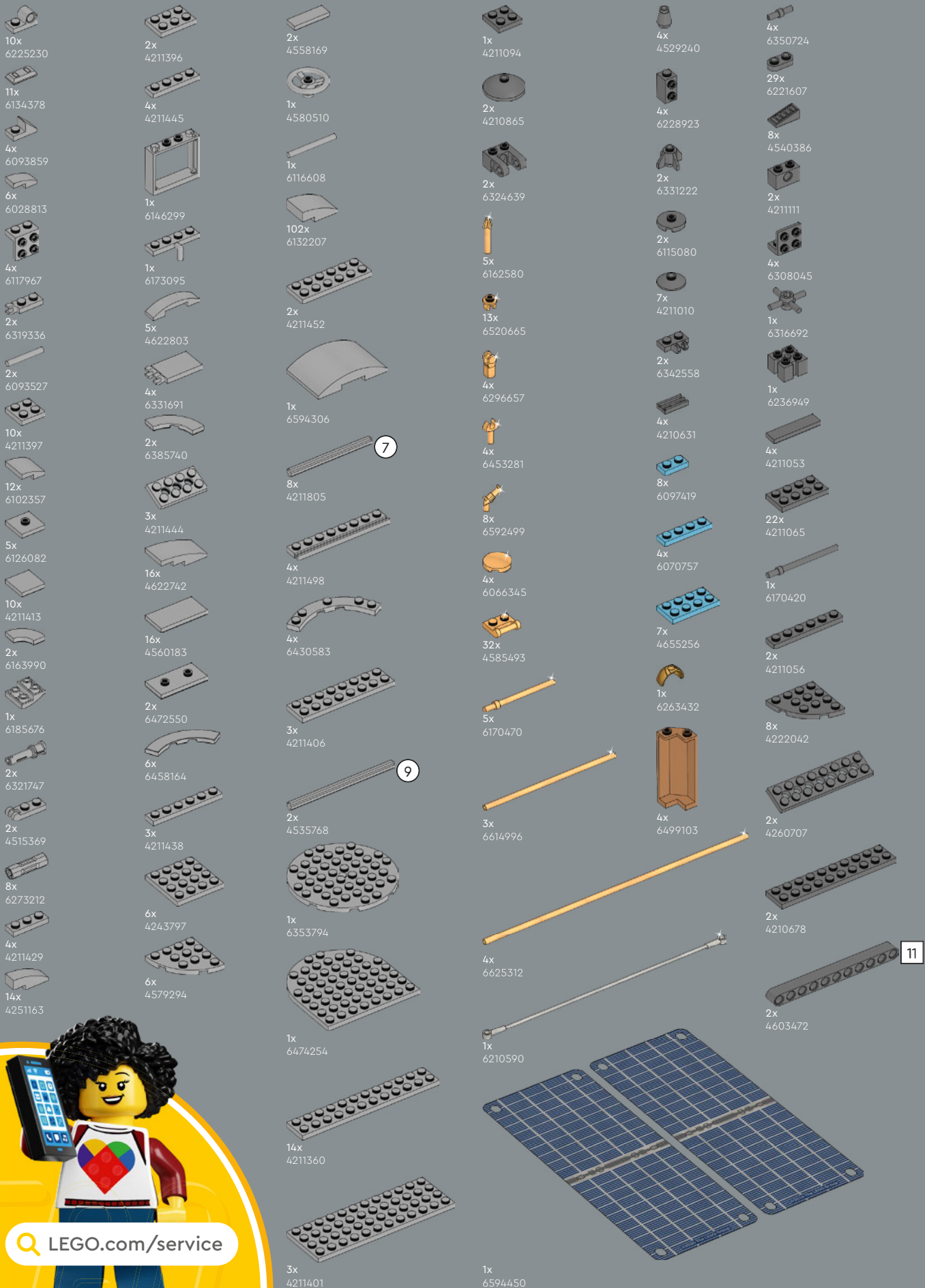
2x 6483102
1x 6187587
6x 346026
5x 303226
5x 303426
4x 4645732
1x 6155125
2x 447726
5x 303526
4x 4514845
2x 4522933
4x 302926
1x 428226

8x 6493351
1x 302228
12x 6514455
1x 6660655
1x 6660657
1x 6660656
1x 6507944
1x 6240515
2x 4187743
2x 6132767
8x 6429553
8x 6343976
1x 4640844
24x 6168647
4x 6284071
2x 6258831
6x 6439041
8x 6275844
14x 4211483
1x 6531935

1x 6401023
7x 4211399
27x 6308012
4x 4211415
4x 4521921
12x 6336539
20x 6436419
1x 6510070
3x 4211508
1x 4211794
1x 4211791
10x 4568637
8x 4211475
3x 4278273
1x 6028324
4x 4211526
3x 6179186
4x 6508097
8x 6268924
26x 6173127
3x 4211398
3x 6383177

4x 6055541
4x 300501
4x 307001
4x 6224811
3x 6627203
1x 6594307
1x 6610802
2x 474001
1x 302301
2x 6313115
4x 6051511
4x 6058177
4x 6431329
1x 6618623
1x 6594611
1x 6594613
1x 6594614
2x 302101
2x 371001

8x 6186675
4x 6332148
4x 300526
16x 407026
2x 6594309
6x 4548180
25x 6279875
14x 4278359
1x 403226
1x 6143850
10x 302326
4x 6178922
12x 300426
4x 306926
4x 6047276
4x 245426
20x 6308883
2x 6336989
3x 6093525





YOU COULD WIN



YOU COULD WIN

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

Visit:

DU KÖNNTEST GEWINNEN

Dein Feedback trägt zur Weiterentwicklung dieser Produktreihe bei.

Geh auf:

VOUS POURRIEZ GAGNER

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

Visitez :

POTRESTI VINCERE TU

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

Visita:

PUEDES GANAR

Tu opinión contribuirá al futuro de esta serie de productos.

Visita:

轻松获奖

您的反馈将有助于我们在今后改进本产品系列。

请访问:

LEGO.com/productfeedback

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

Terms and conditions apply.*

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

Es gelten die Teilnahmebedingungen.*

Vous pourriez également gagner un ensemble LEGO®.

Des conditions s'appliquent.*

Hai anche la possibilità di vincere un set LEGO®.

Termini e condizioni sono applicabili.*

También tienes la oportunidad de ganar un set LEGO®.

Aplican términos y condiciones.*

您还有机会赢取乐高®套装。

条款和条件适用。*

*LEGO.com/productfeedback-terms



LEGO and the LEGO logo are trademarks of the LEGO Group. ©2026 The LEGO Group.

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

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