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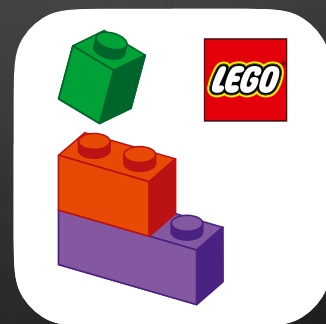


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LEGO® Builder



La nostra finestra sull'universo

Roma non fu costruita in un giorno, e un universo frutto di 13,8 miliardi di anni di evoluzione richiederà generazioni per essere studiato, compreso ed esplorato. Negli ultimi decenni, tuttavia, la tecnologia ha effettuato passi da gigante e ci ha aiutato a comprendere meglio la sua immensa estensione, la sua origine e la sua composizione, portandoci a interrogarci sul nostro posto nel tempo e nello spazio. Grazie a secoli di osservazioni e progressi scientifici, il Telescopio spaziale Hubble ha svolto un ruolo fondamentale in alcune delle scoperte più rivoluzionarie sul nostro universo negli ultimi 35 anni, e oltre.



Novembre 1995

L'immagine della Nebulosa Aquila ("I Pilastri della Creazione") rivela colonne di gas e polveri in cui si formano le stelle.

Credit: NASA, ESA/Hubble, STScI, J. Hester and P. Scowen (Arizona State University)



Gennaio 2005

La galassia a spirale a grand design Messier 51, la "Galassia Vortice", contiene centinaia di miliardi di stelle e nebulose attive in cui si formano le stelle.

Credit: NASA, ESA, S. Beckwith (STScI), e The Hubble Heritage Team (STScI/AURA)



Luglio 2009

La Nebulosa Bug offre preziose informazioni sul gas in espulsione da una stella morente e sulla formazione di una nebulosa brillante.

Credit: NASA, ESA e il team Hubble SM4 ERO



Il commento del LEGO® Icons Design Team

Le straordinarie immagini e i dati forniti dal Telescopio spaziale Hubble hanno avvicinato i confini più remoti dell'universo alla Terra. Stiamo appena iniziando a comprenderne la portata storica, e continua a ispirare gli scienziati e a stimolare l'immaginazione del pubblico. Abbiamo voluto onorare questa tradizione. Con questo modello, realizzato in scala minifigure LEGO®, potrai esaminare l'interno del telescopio e alcuni dei suoi strumenti, oltre a ricreare ed esporre elementi della sua missione in corso. Ogni dettaglio è rappresentato fedelmente grazie alla collaborazione con i nostri straordinari partner di NASA ed ESA. Grazie al loro aiuto, abbiamo realizzato un modello robusto e ricco di dettagli minuziosi, come l'evoluzione visiva dei pannelli solari. Il conto alla rovescia inizia: preparati a costruire ed esplorare.



Una partnership stellare

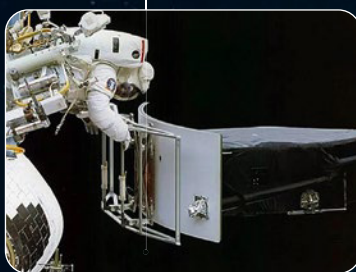
Grazie a una collaborazione continuativa, NASA ed ESA uniscono le proprie risorse e i propri contributi per sostenere il programma Hubble e rivoluzionare l'astronomia. Entrambe condividono le scoperte, con il tempo di osservazione assegnato esclusivamente in base al merito scientifico da una commissione internazionale. All'ESA è garantito il 15% dell'accesso e spesso raggiunge quasi il 25%. Il Telescopio spaziale Hubble è stato progettato con corrimani e componenti sostituibili per consentire la manutenzione in orbita e, tra il 1993 e il 2009, gli astronauti di NASA ed ESA hanno effettuato diverse missioni di servizio (SM) per apportare riparazioni e aggiornamenti significativi.

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



24-29 aprile 1990

Lancio: lo Space Shuttle Discovery trasporta il Telescopio spaziale Hubble nello spazio.



2-13 dicembre 1993

SM1: ha aggiornato il telescopio e corretto un difetto nello specchio principale dell'Hubble, risolvendo l'aberrazione sferica per i restanti strumenti.

11-21 febbraio 1997

SM2: ha esteso la gamma di lunghezze d'onda visibili dall'Hubble, con un nuovo STIS (Space Telescope Imaging Spectrograph) e NICMOS (Near Infrared Camera and Multi-Object Spectrometer).



1999

2000

2001

2002

2003

2004

2005

2006

2007

2008

2009

2010



19-27 dicembre 1999

SM3A: a causa di un guasto al quarto giroscopio dell'Hubble, il telescopio entra in safe mode. Una missione in due parti, l'equipaggio americano ed europeo della SM3A collabora per ripristinare la piena operatività.



1-12 marzo 2002

SM3B: vengono installati due nuovi pannelli solari e la Faint Object Camera (l'ultimo strumento originale) viene sostituita dall'ACS (Advanced Camera for Surveys).

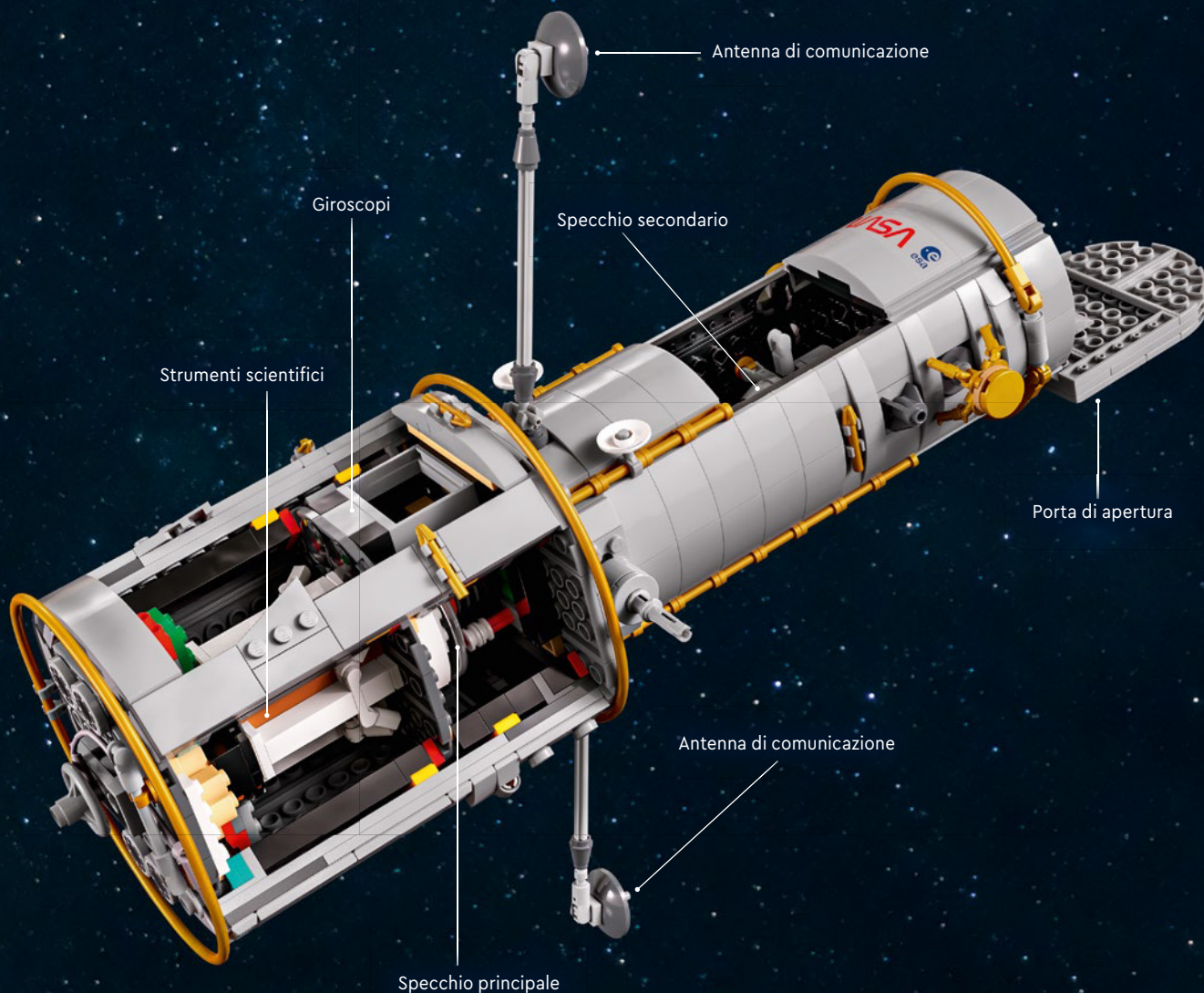


11-24 maggio 2009

SM4: vengono installati il COS (Cosmic Origins Spectrograph) e la WFC3 (Wide Field Camera 3), un Fine Guidance Sensor revisionato e un dispositivo per l'aggancio all'Hubble.

Esplora il tuo modello

In stretta collaborazione con i nostri partner di NASA ed ESA, abbiamo ricreato autentici dettagli tecnici, sia all'interno sia all'esterno. Ogni sezione del tuo modello corrisponde a strumenti reali che hanno contribuito a scoprire nuove e straordinarie informazioni sul nostro universo.



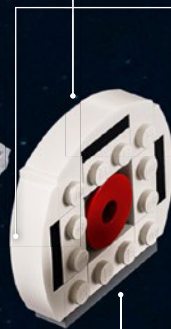


Space Telescope Imaging Spectrograph (STIS)
Cosmic Origins Spectrograph (COS)
Advanced Camera for Surveys (ACS)
Near Infrared Camera and Multi-Object Spectrometer (NICMOS)



Giroscopi

Fine Guidance Sensors (FGS)



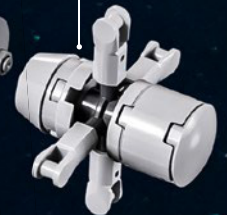
Wide Field Camera

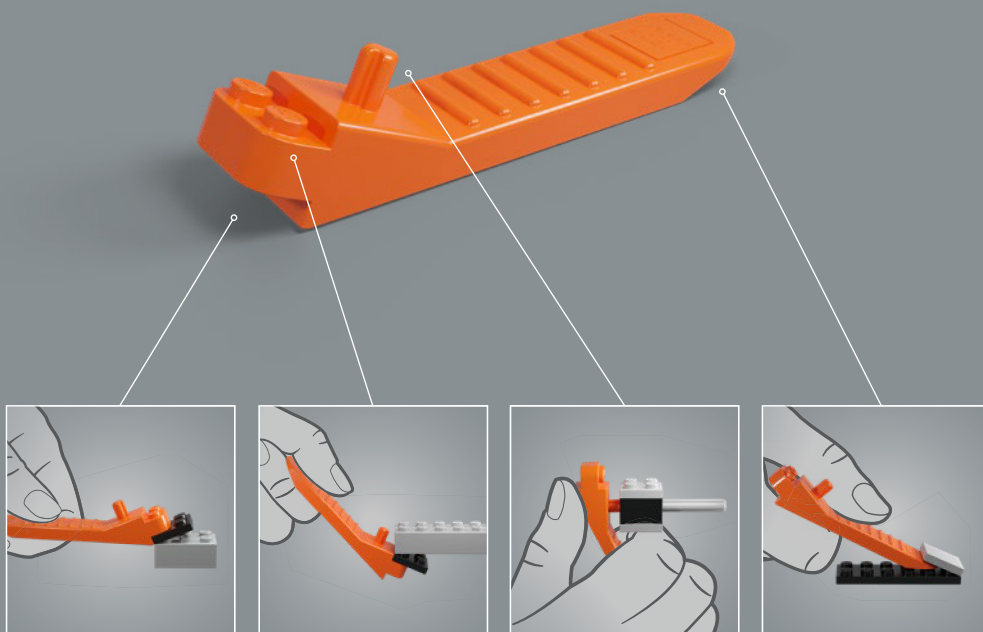
Specchio principale

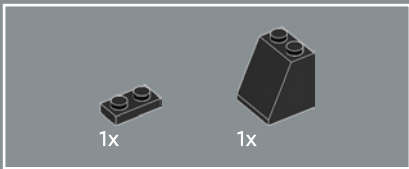


Specchio secondario

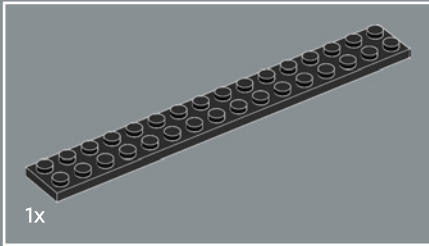
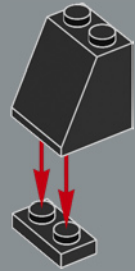
Deflettore centrale



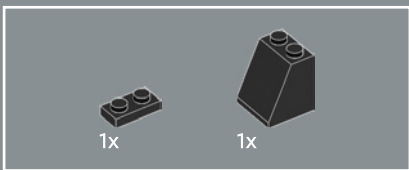
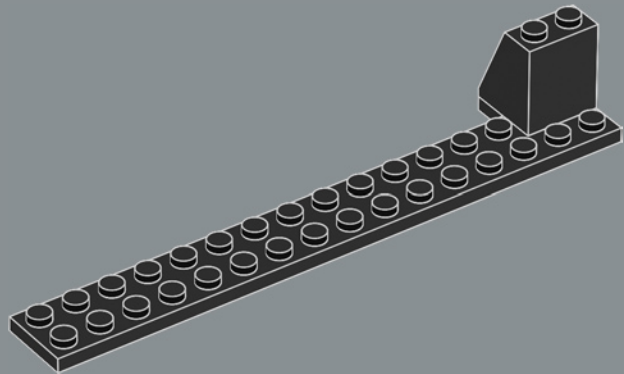




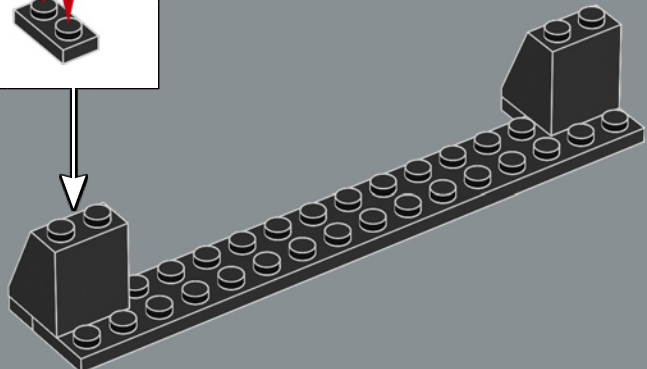
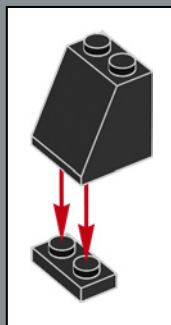
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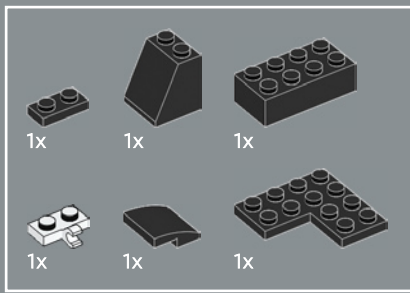


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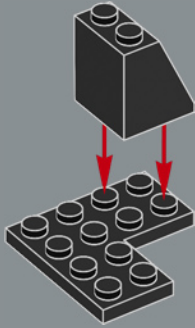
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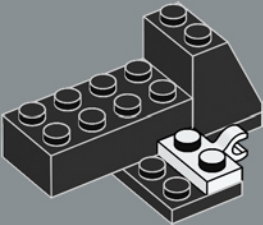


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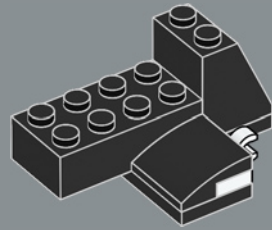
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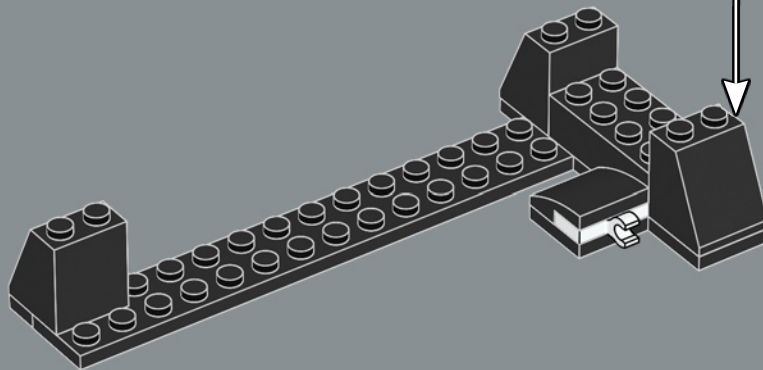
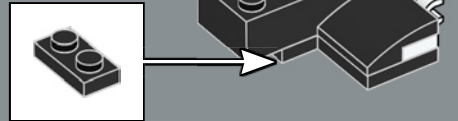
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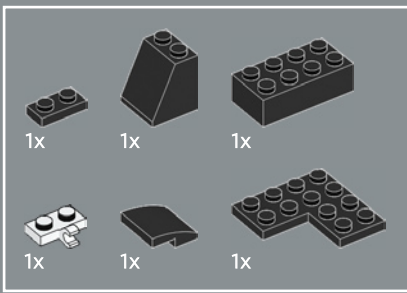


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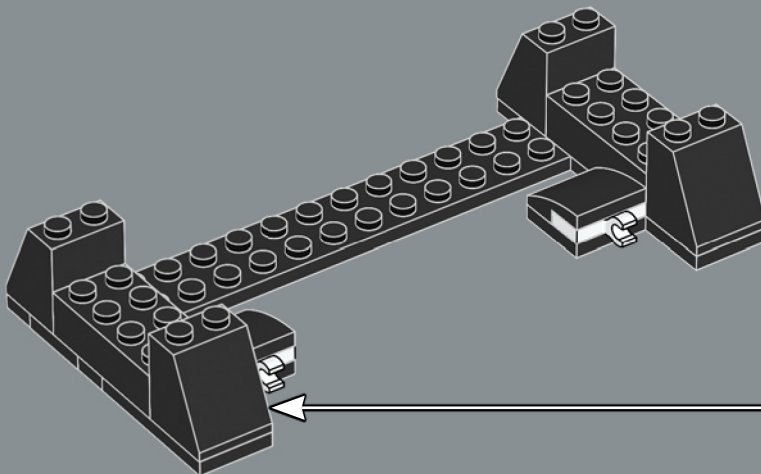
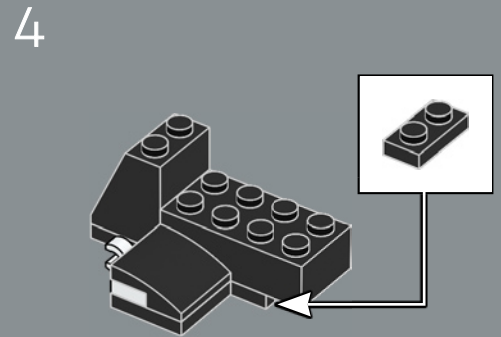
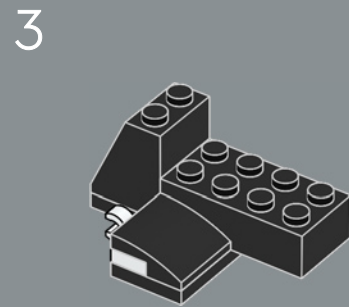
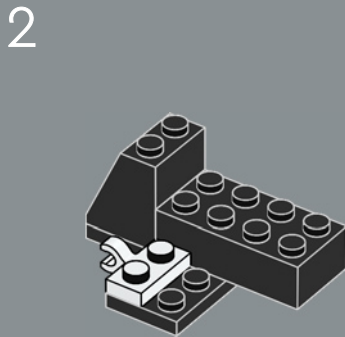
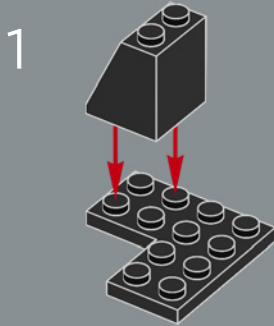


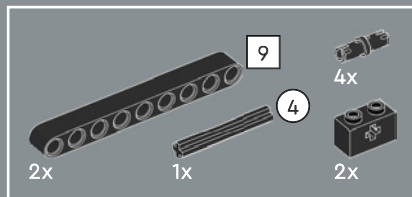
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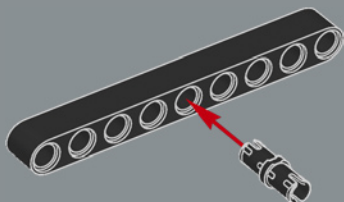
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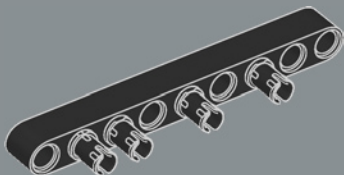


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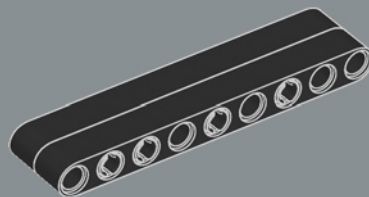
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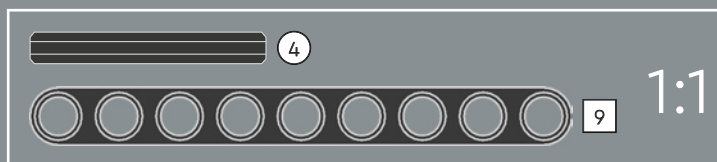
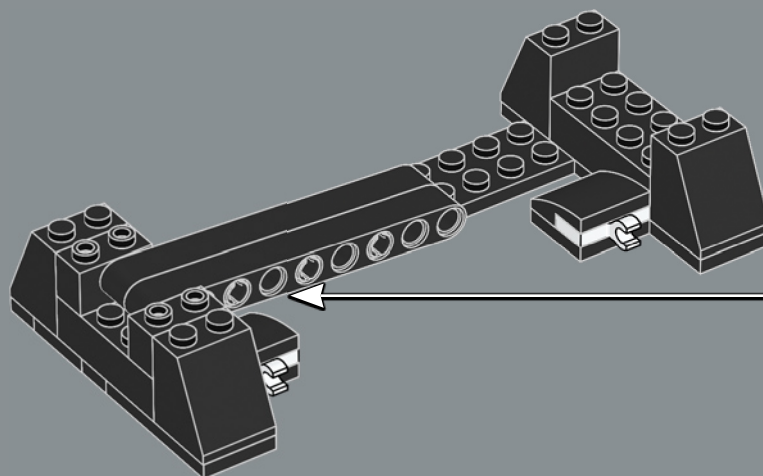
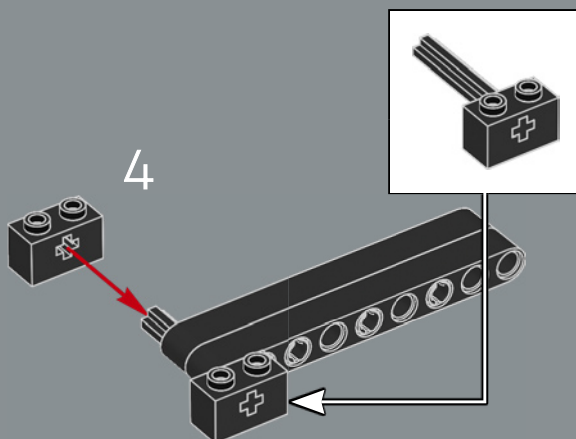
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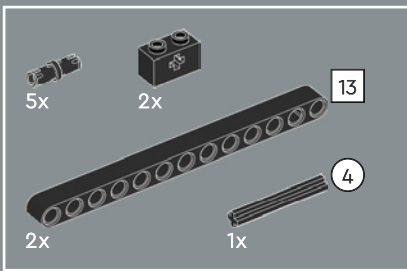


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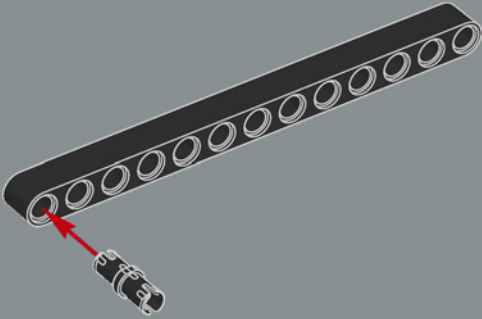
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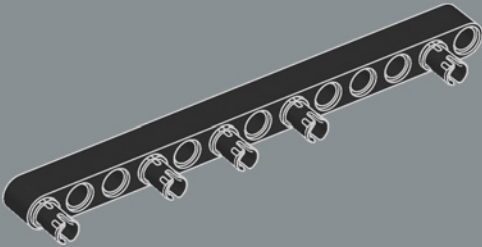


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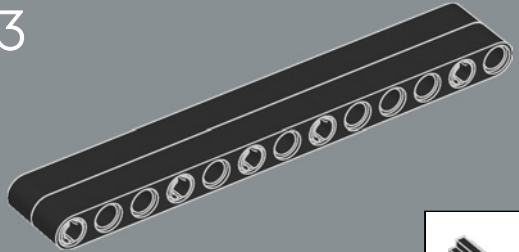
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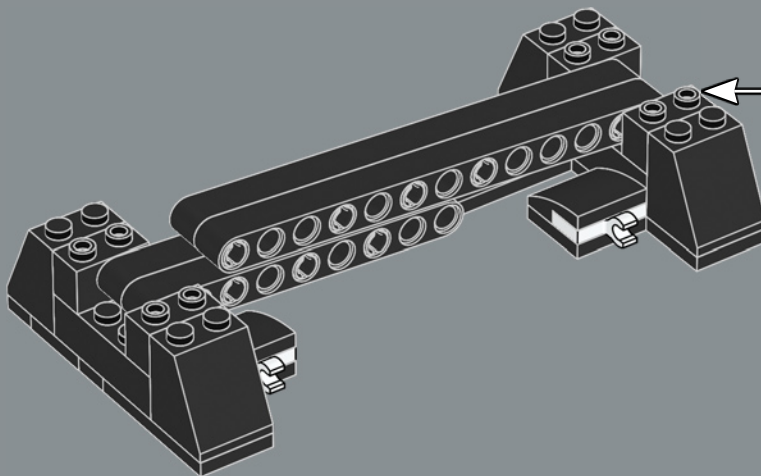
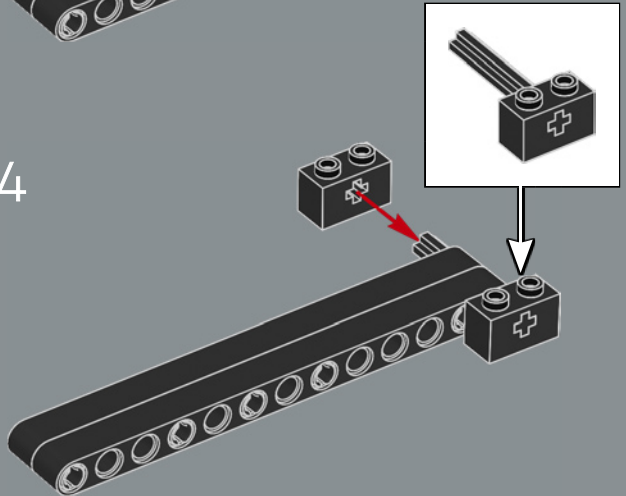
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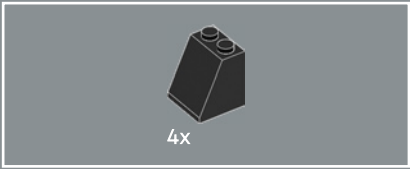


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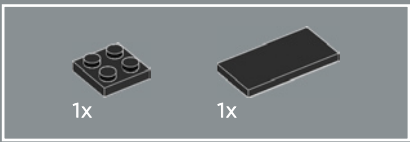
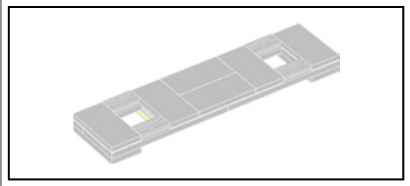
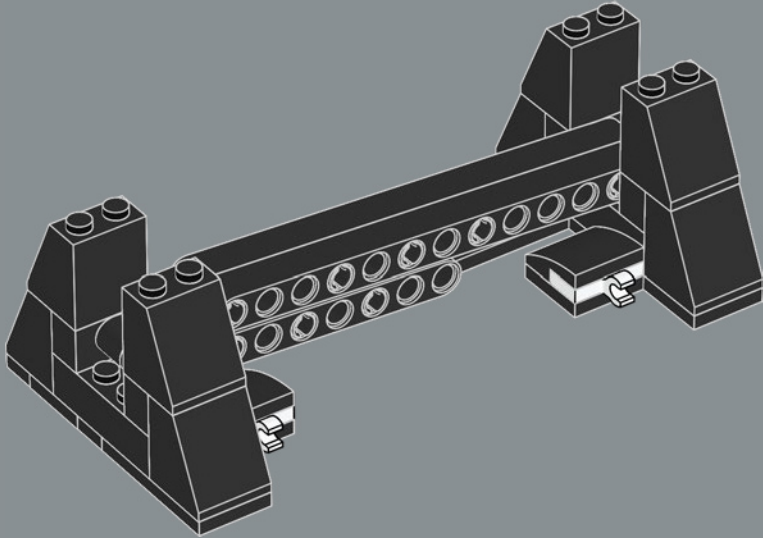


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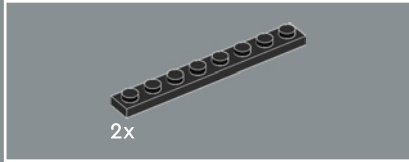
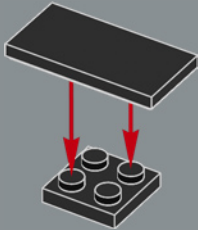




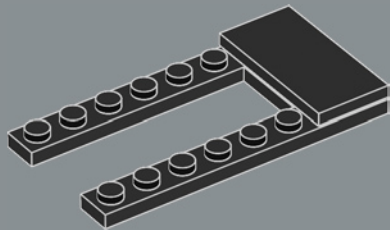
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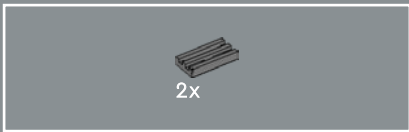


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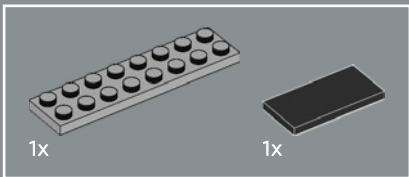
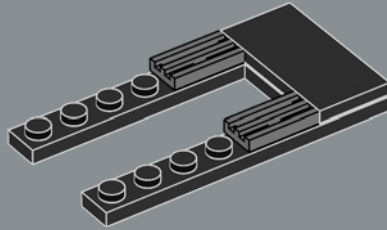


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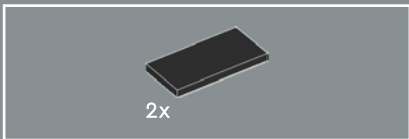
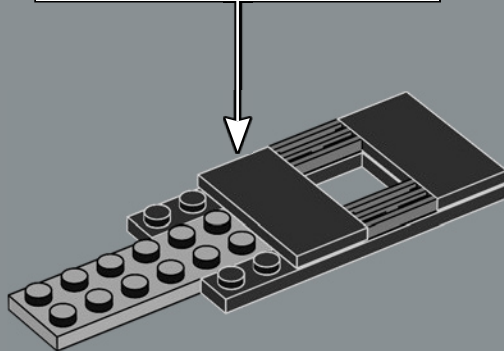
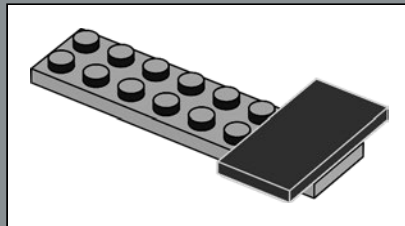




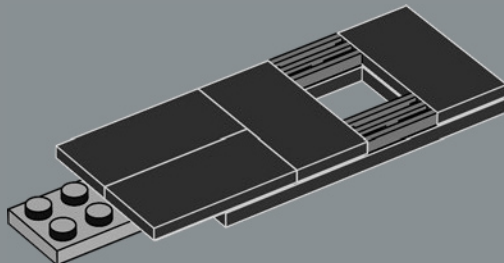
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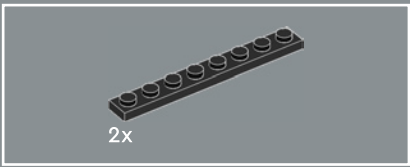


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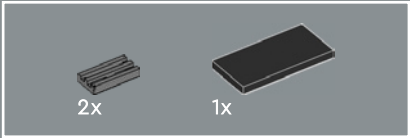
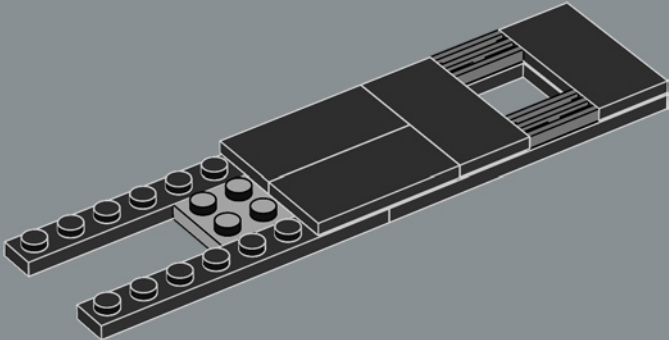


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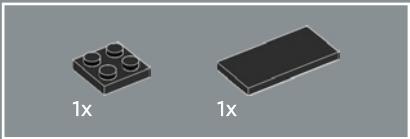
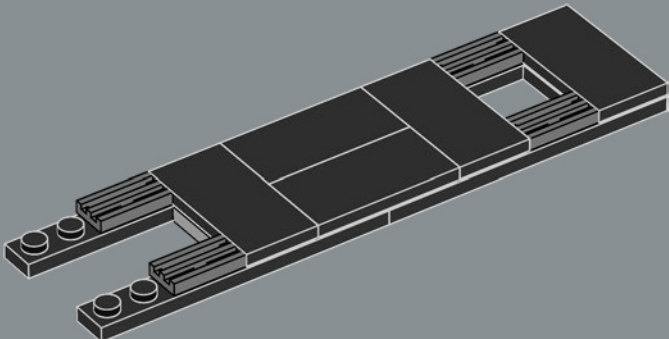




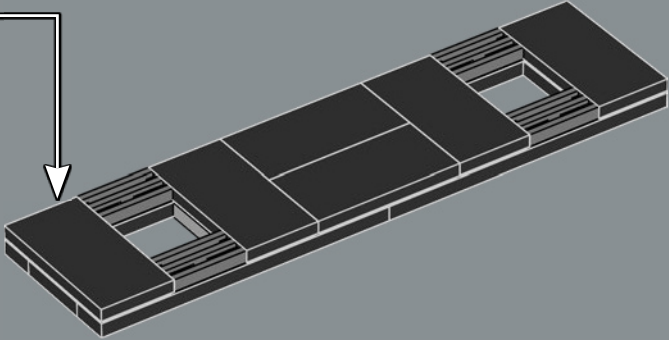
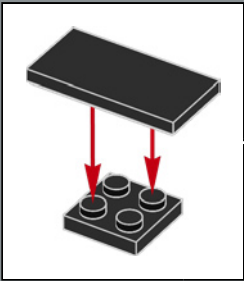
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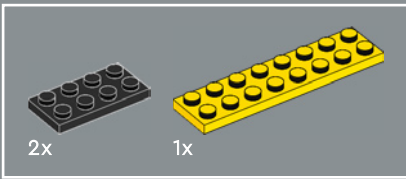


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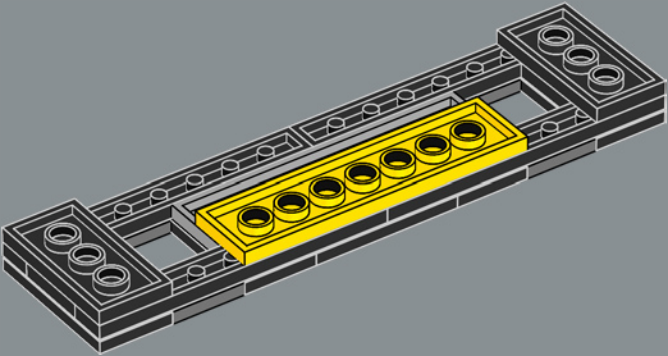


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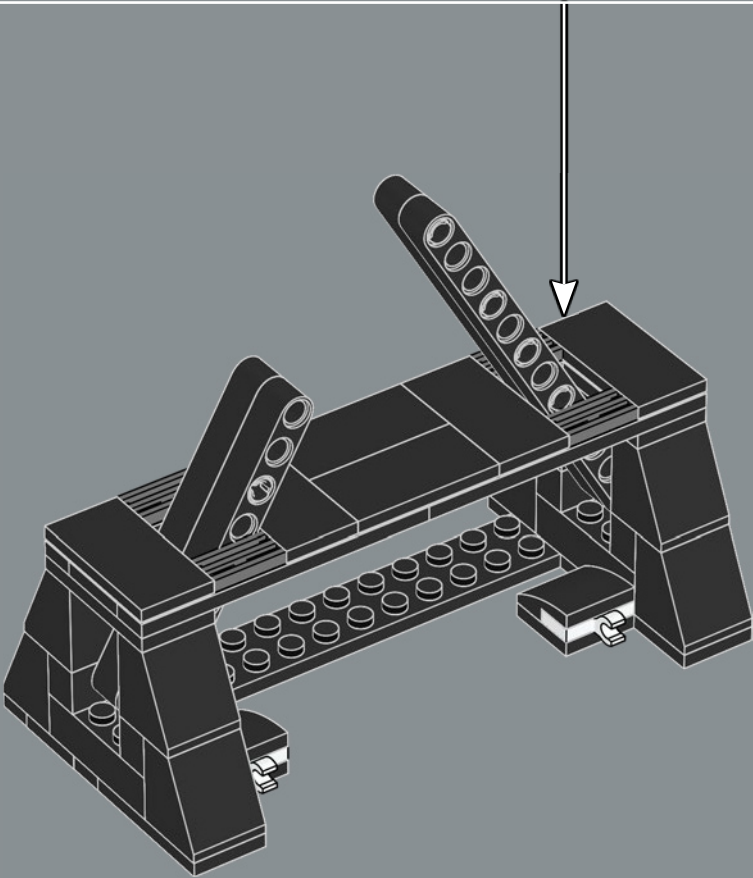


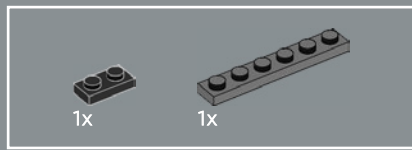


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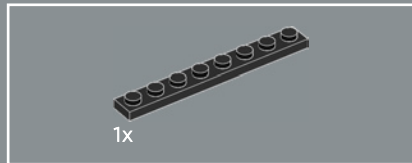
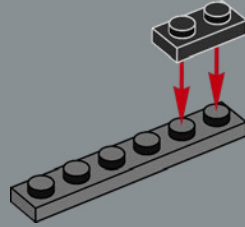


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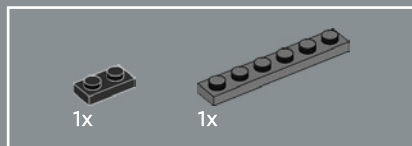
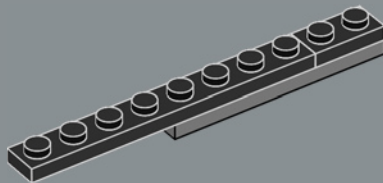




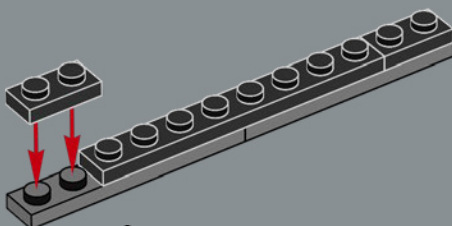
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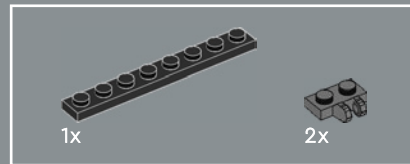
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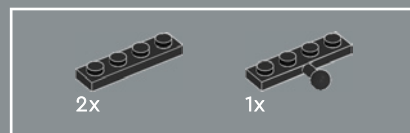
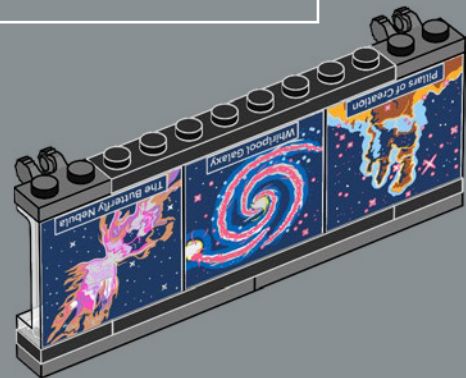
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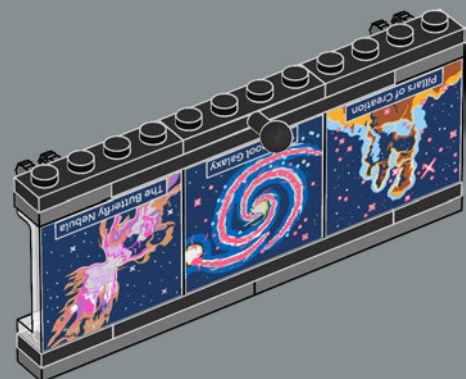
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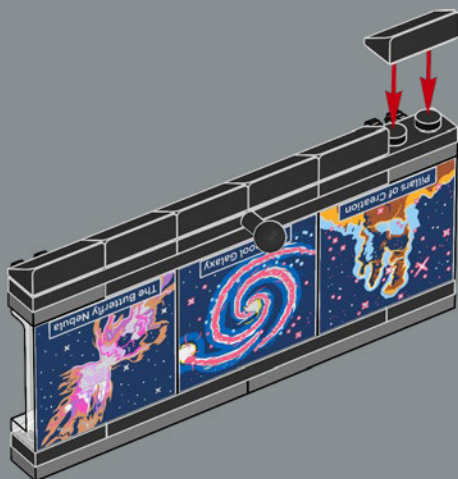
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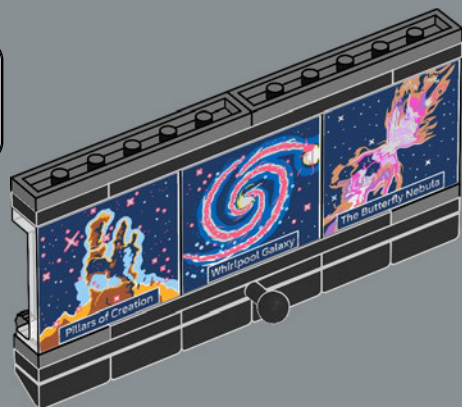


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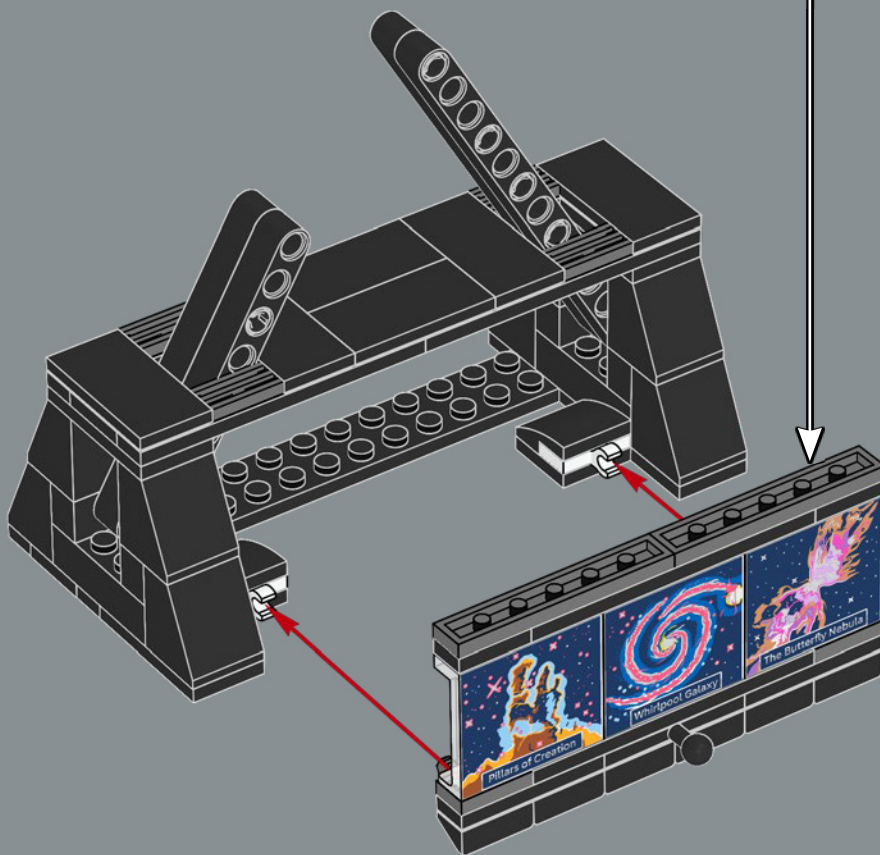
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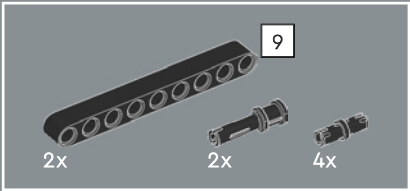


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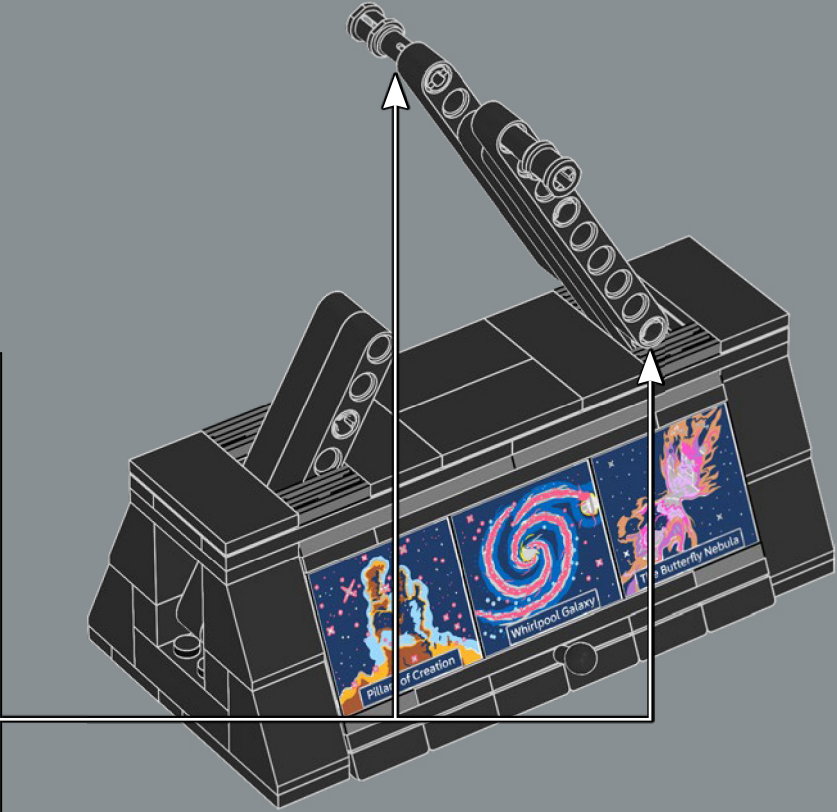
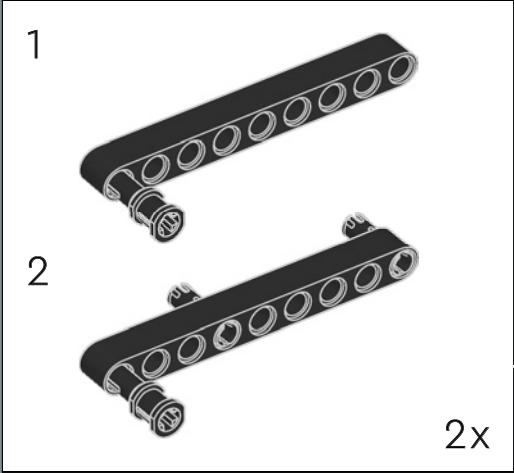


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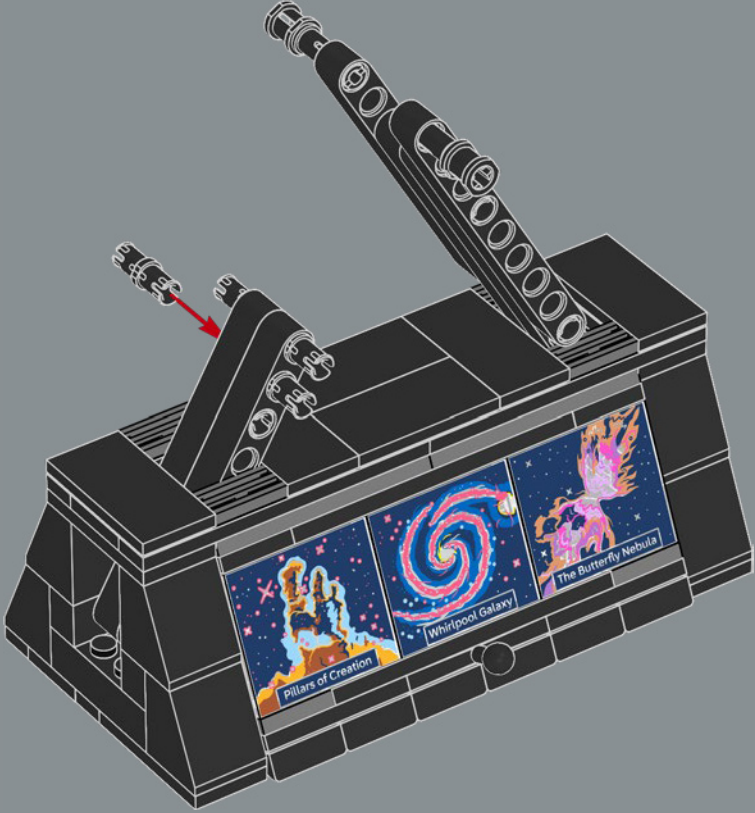


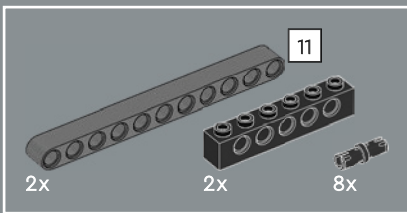


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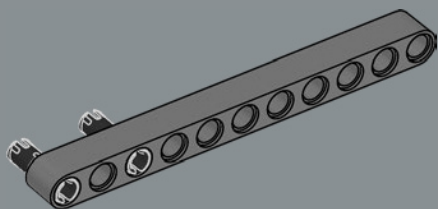
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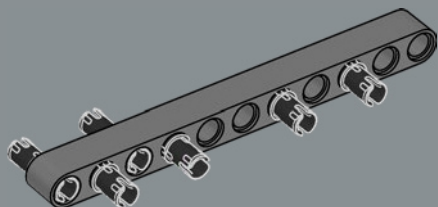


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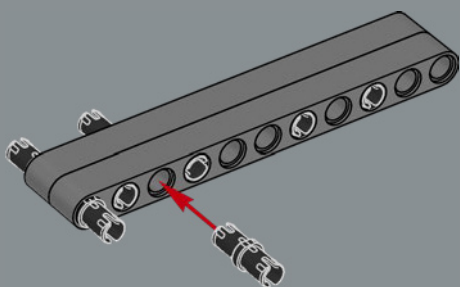
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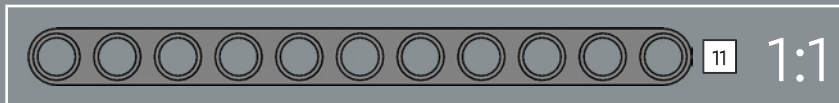
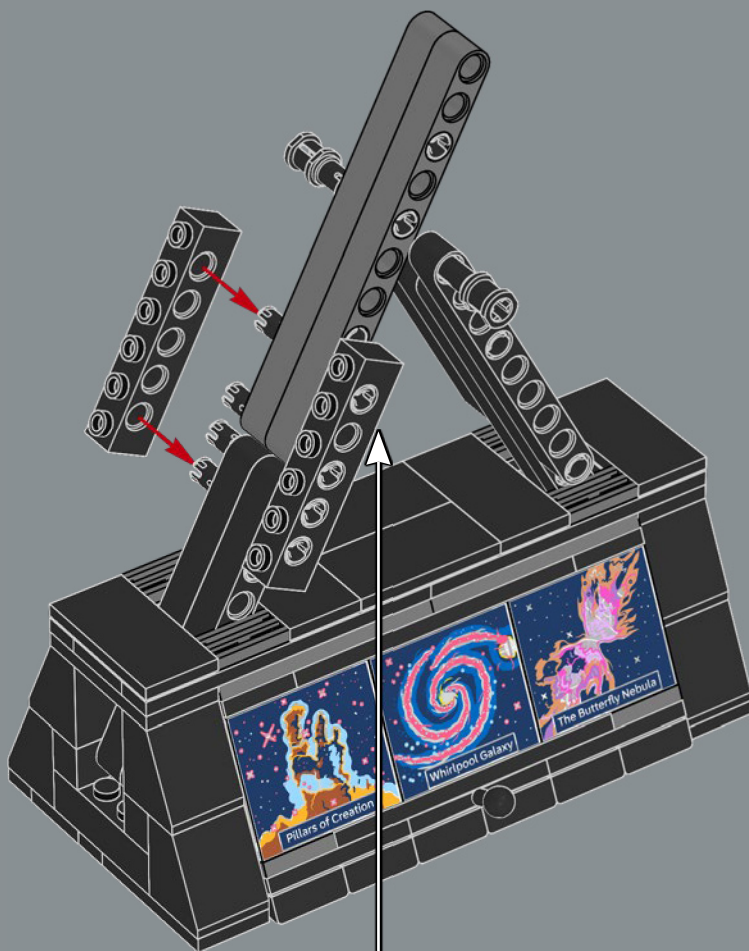
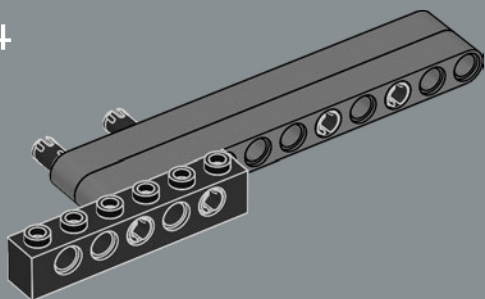
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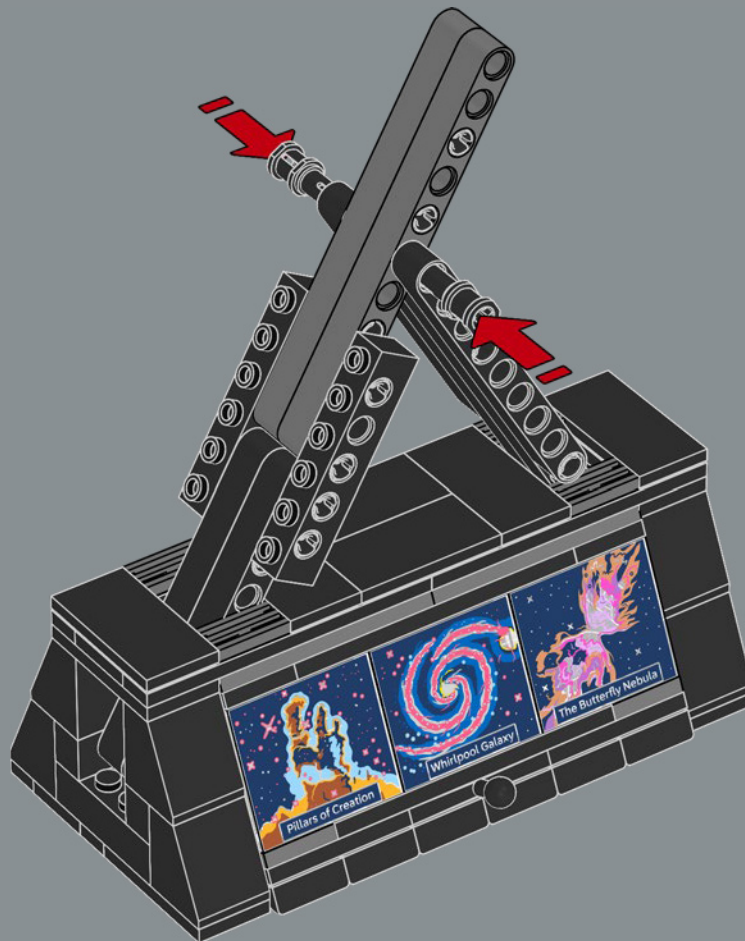
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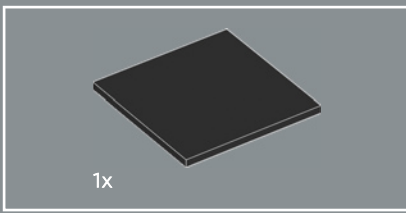


Dal 1990, il Telescopio spaziale Hubble ha registrato
oltre 1,7 milioni di osservazioni e raccolto dati da più di
108.000.000 di oggetti astronomici.

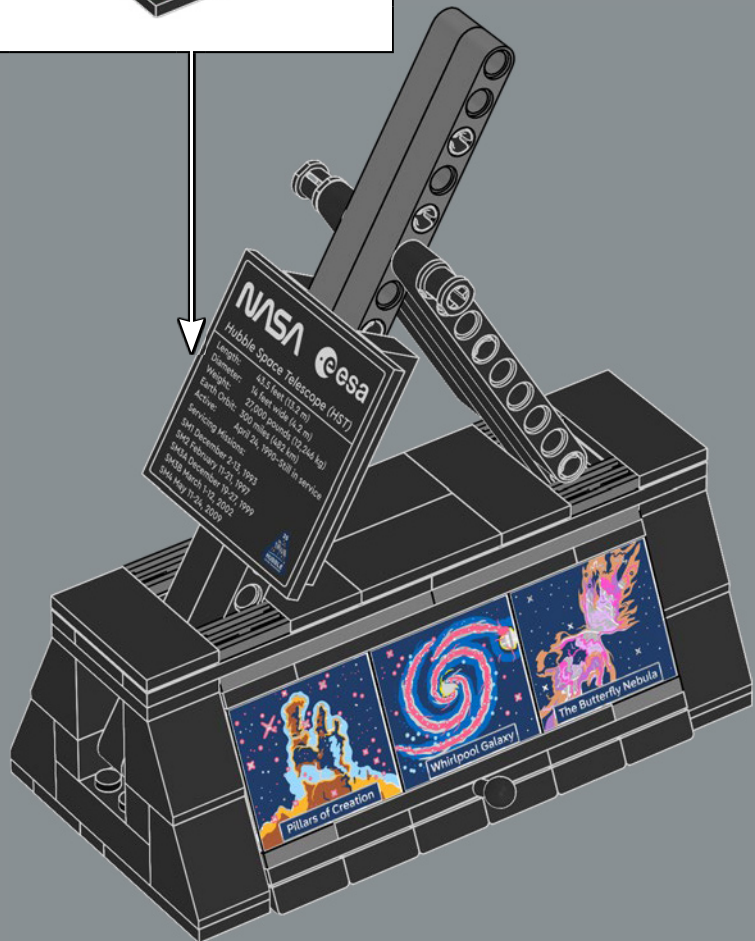
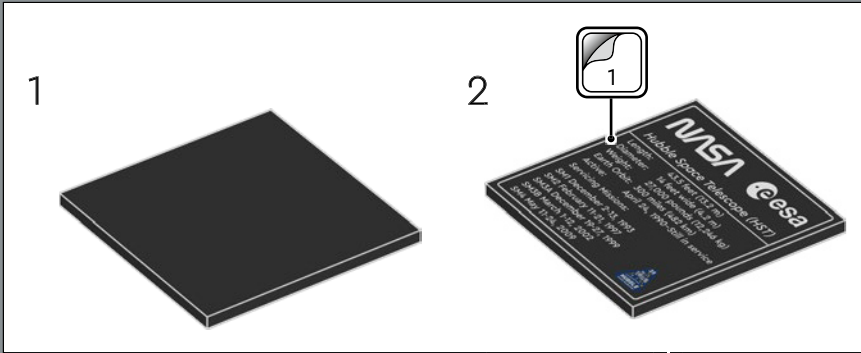


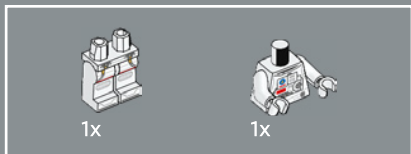
31





32

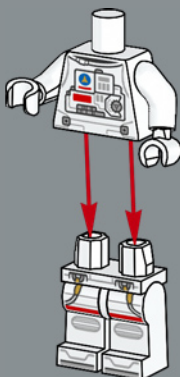




Anche dopo oltre 35 anni in orbita, Hubble continua a produrre scoperte scientifiche rivoluzionarie e ha ispirato telescopi come il James Webb Space Telescope.

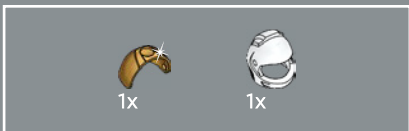
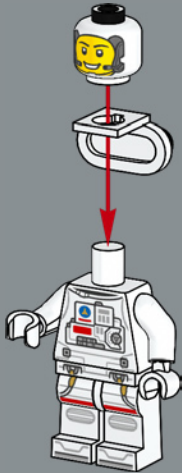


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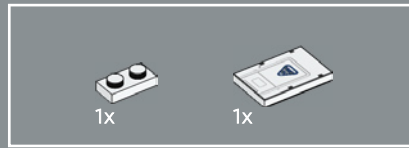
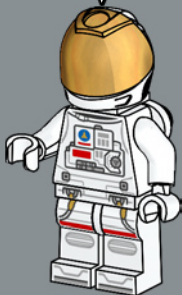
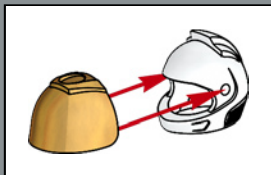




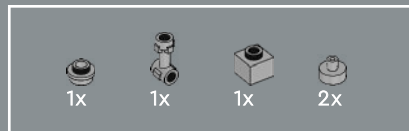
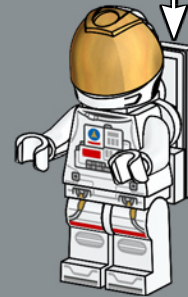
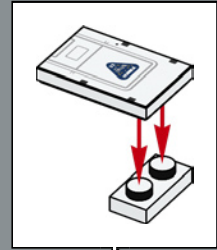
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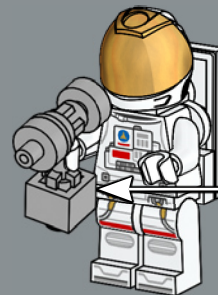
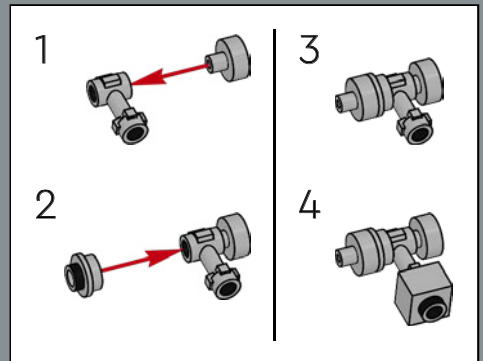
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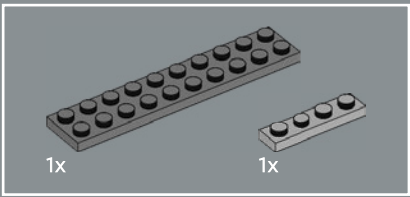


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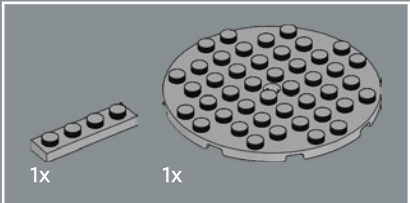
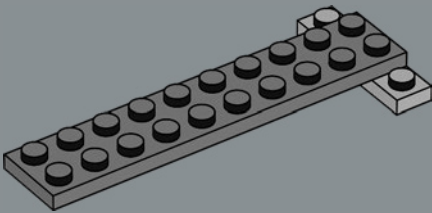


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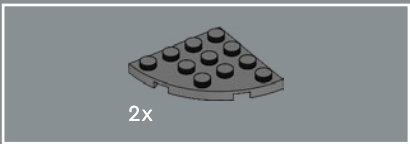
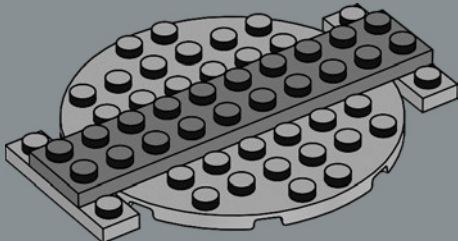




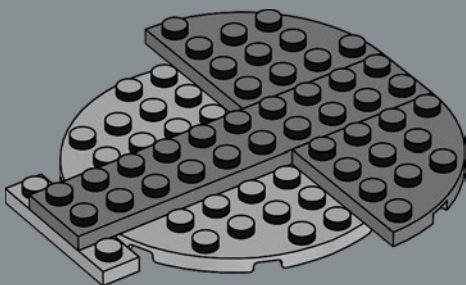
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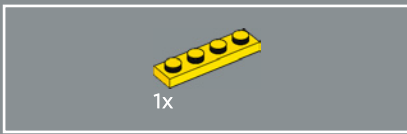


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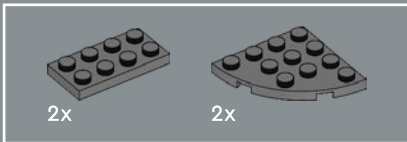
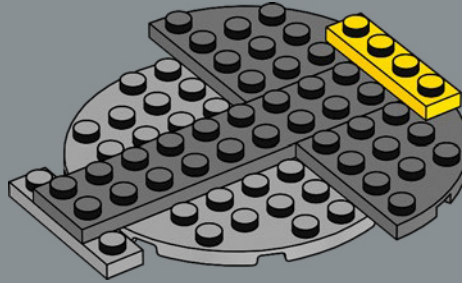


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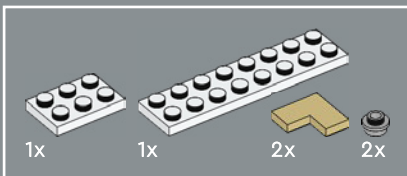
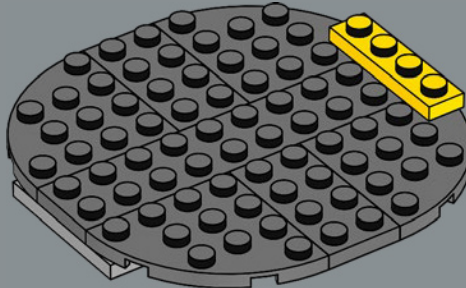




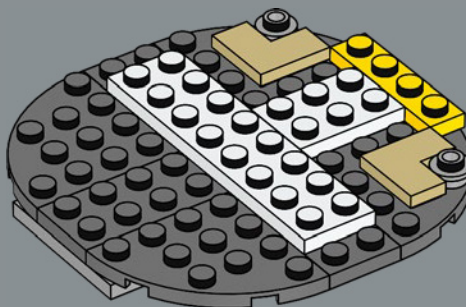
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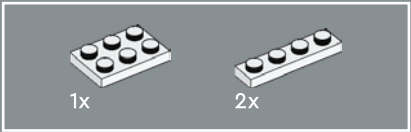


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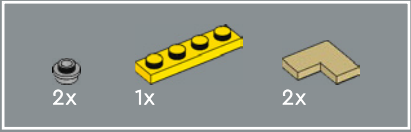
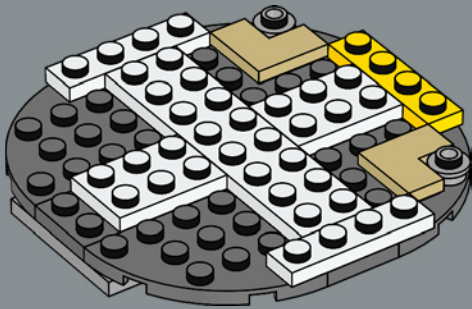


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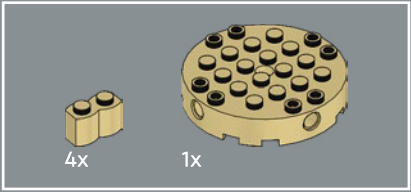
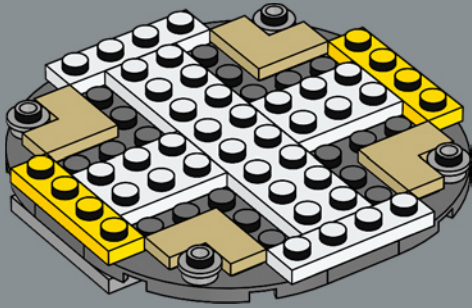




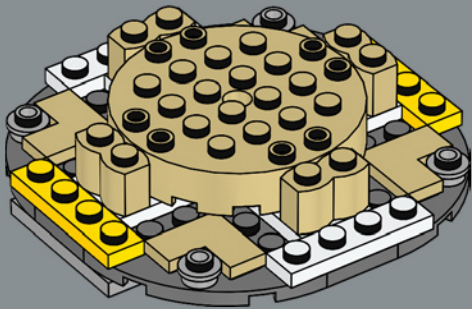
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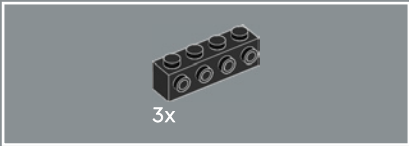


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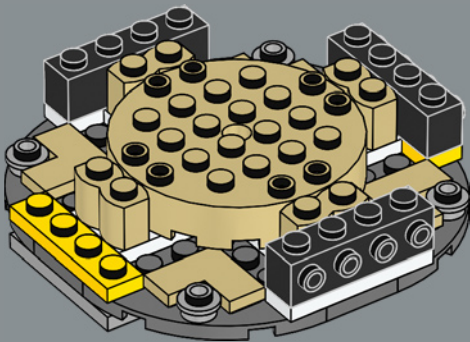


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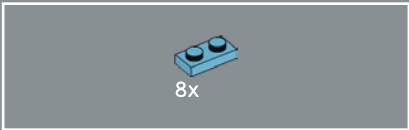
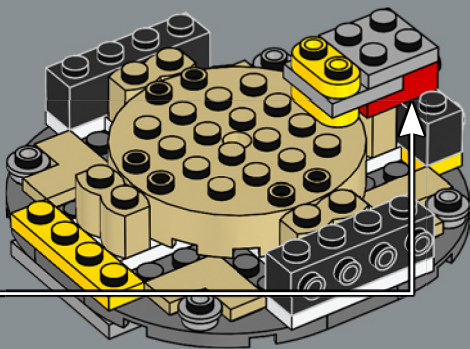
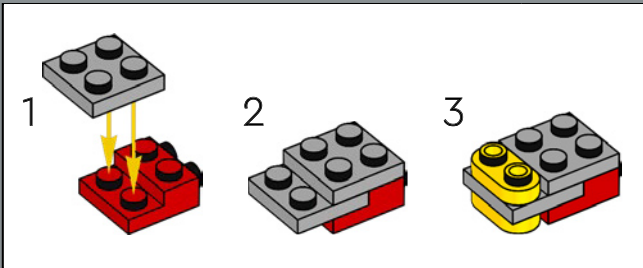




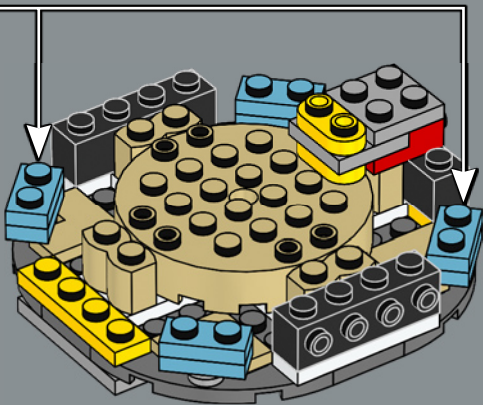
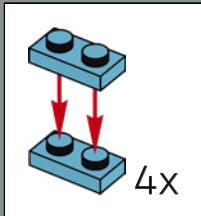
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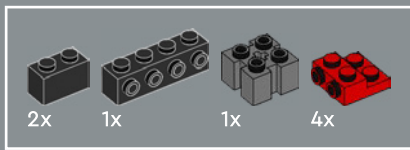


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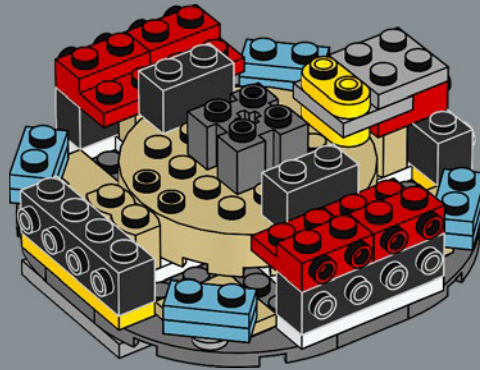


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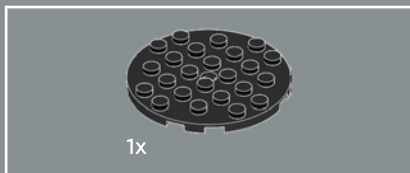
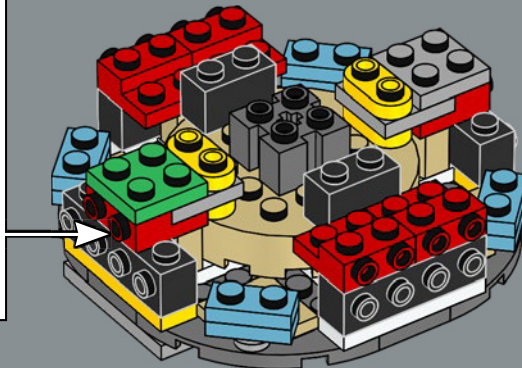
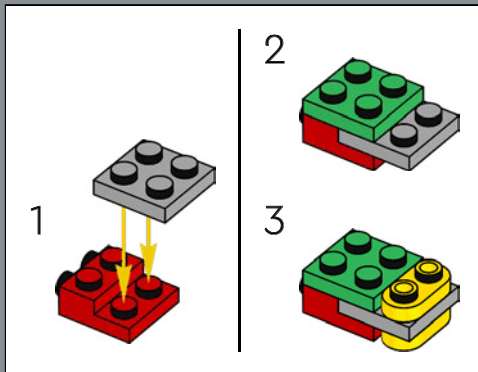




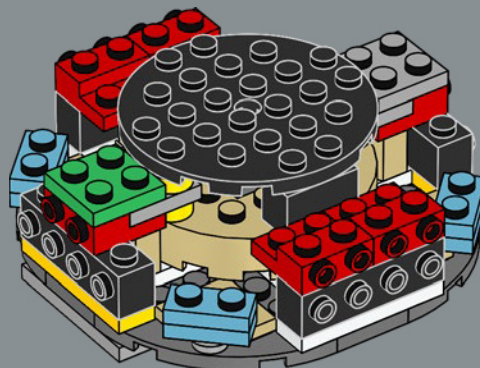
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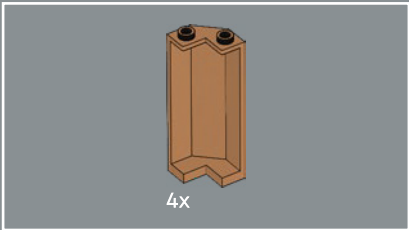
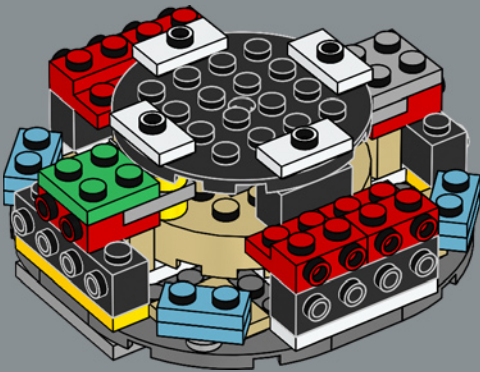


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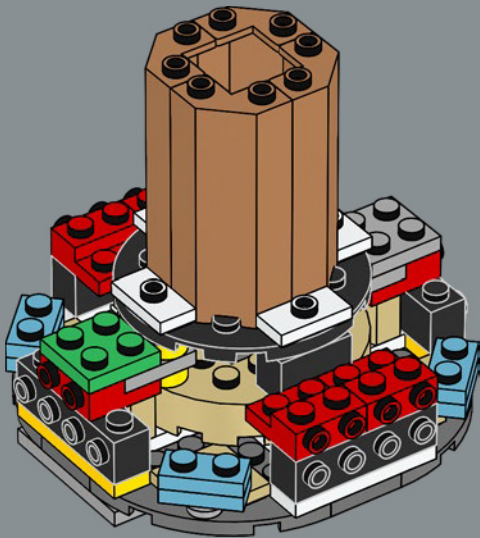


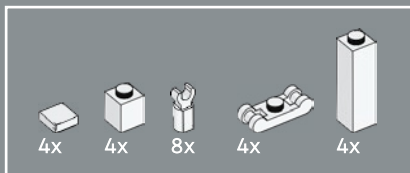


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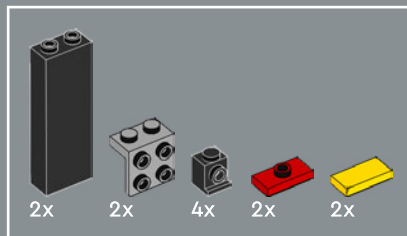
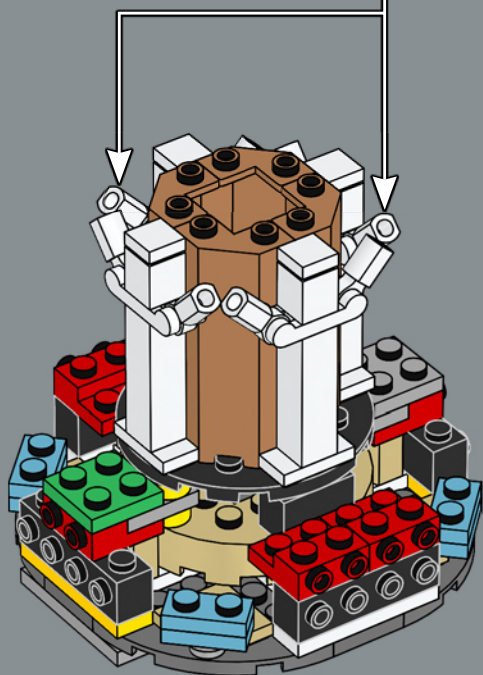
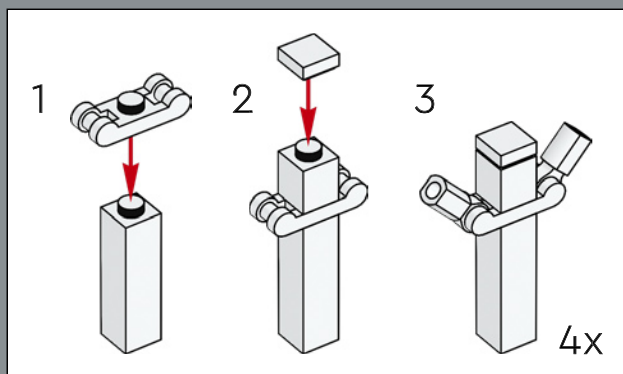


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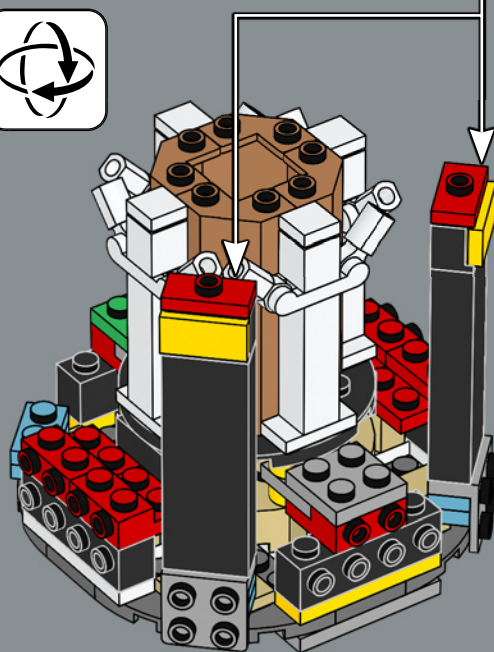
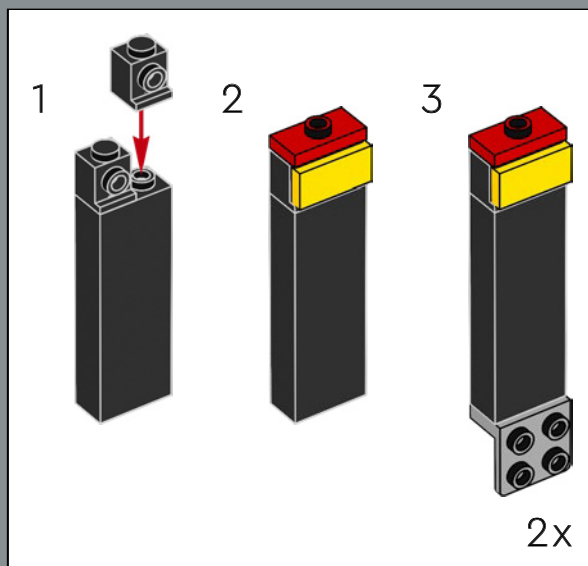


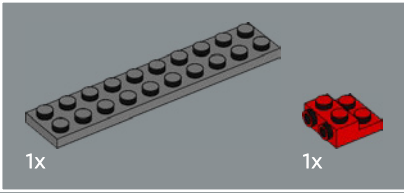
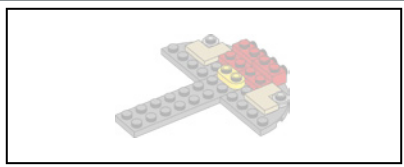


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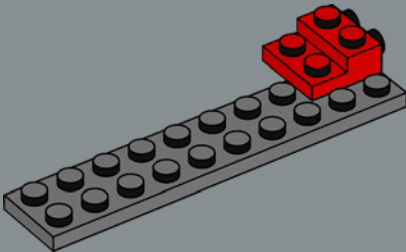


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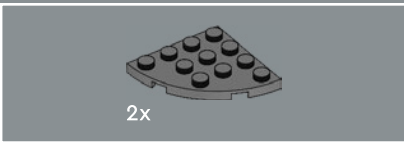
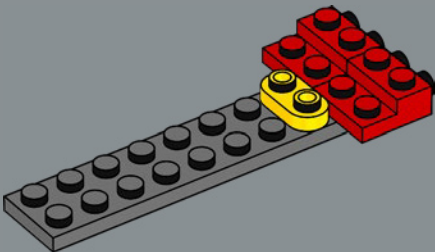




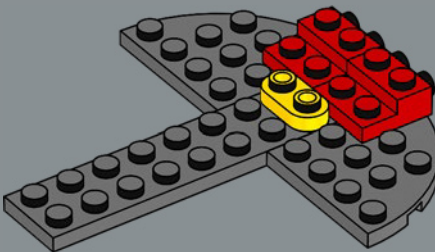
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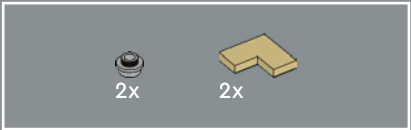


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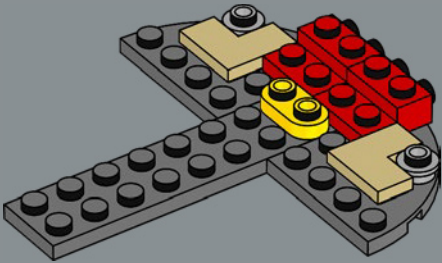


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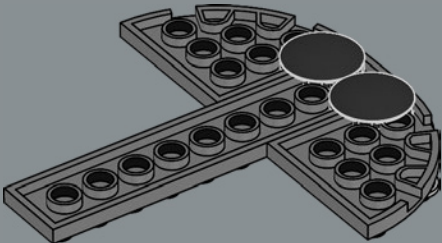




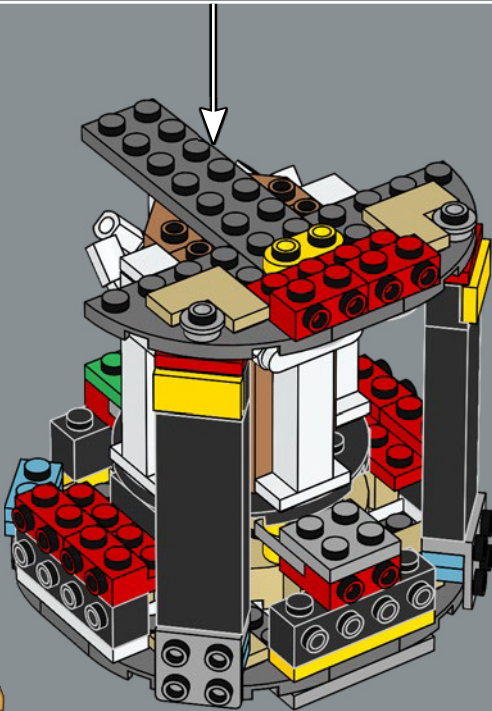
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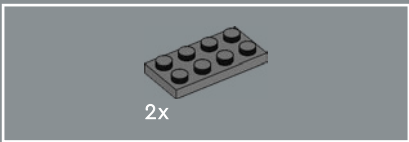


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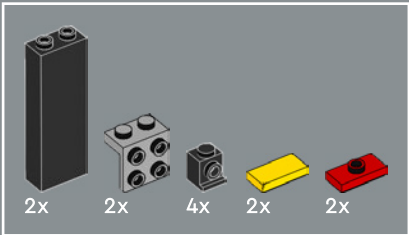
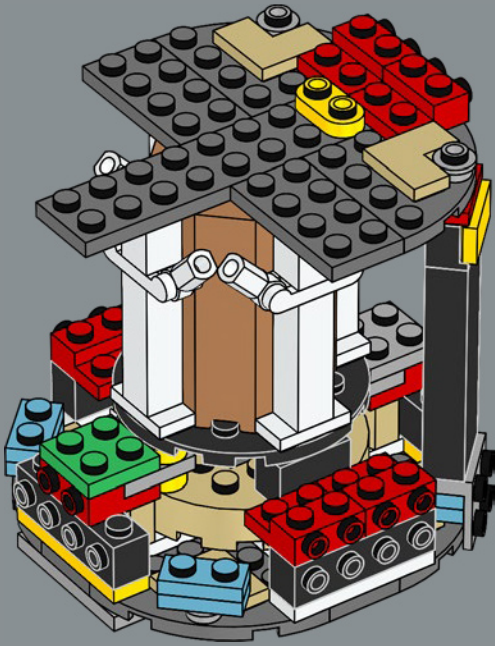


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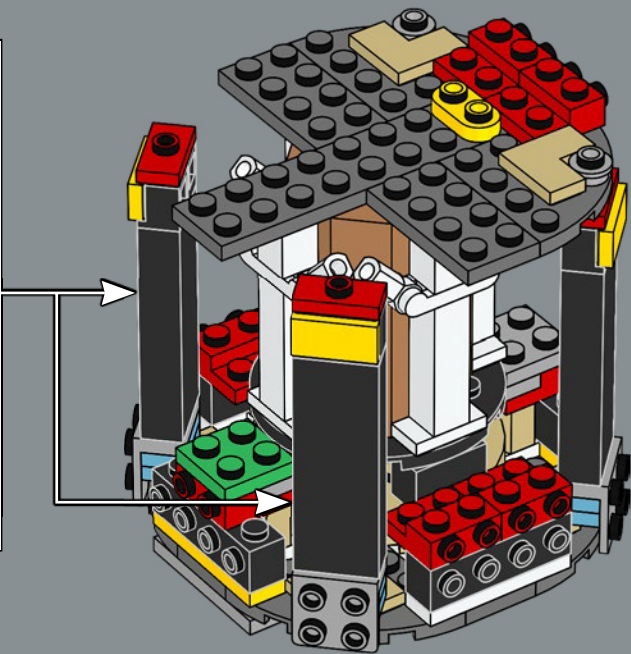
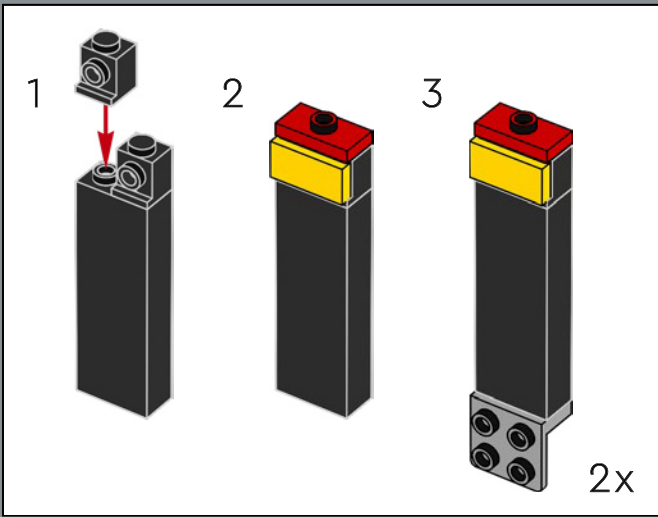


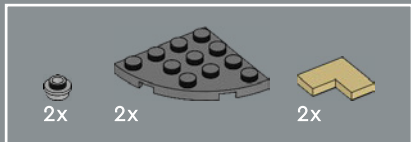


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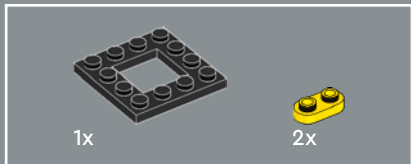
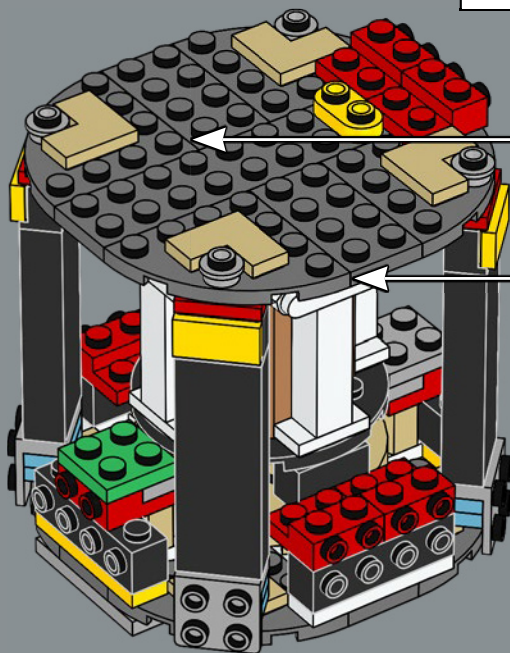
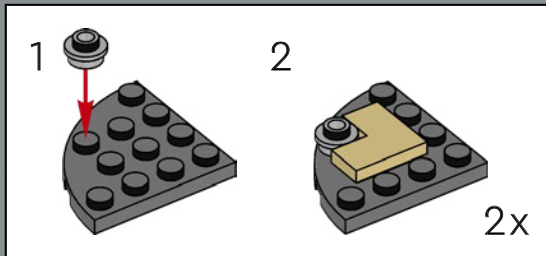


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65



66



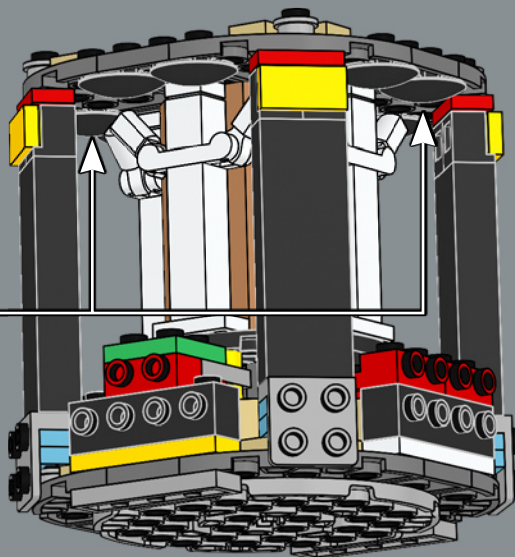


6x

67



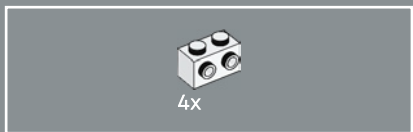
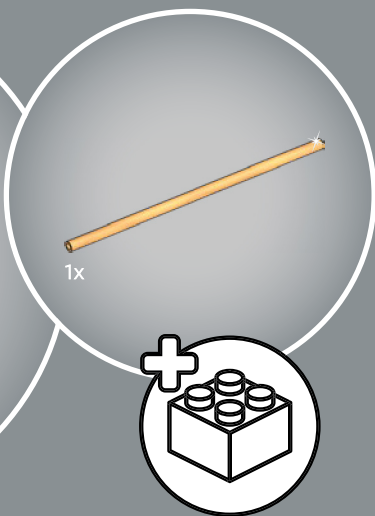
6x



4x

68

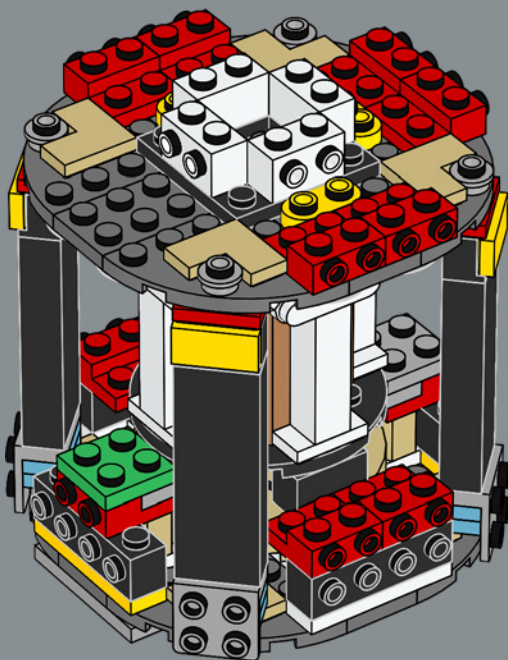




Sfruttando lenti gravitazionali, Hubble ha realizzato mappe della materia oscura invisibile nell'universo.



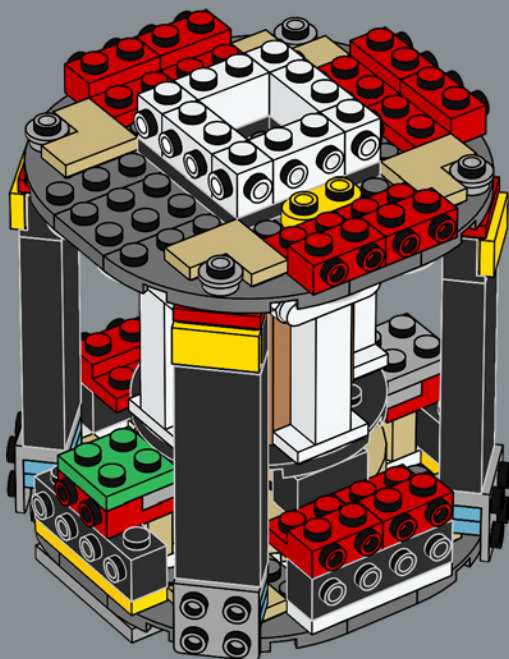
69





4x

70

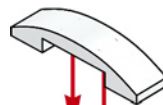
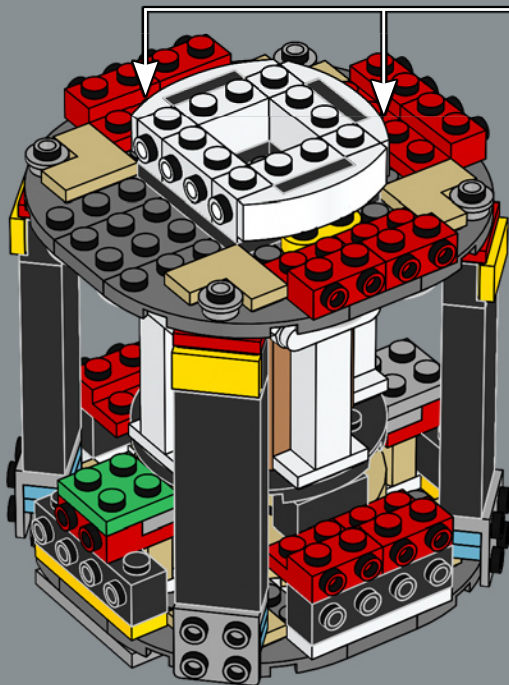


3x

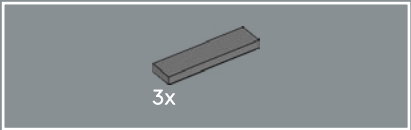


3x

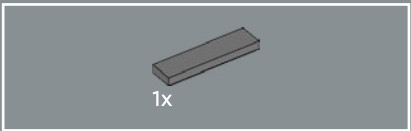
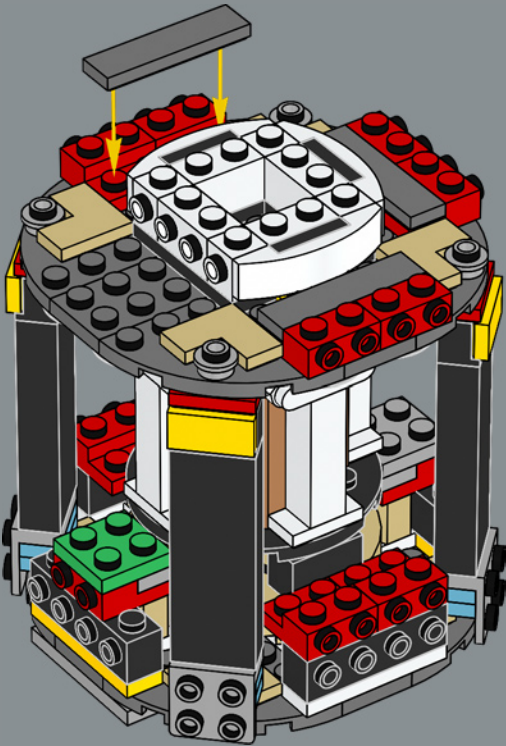
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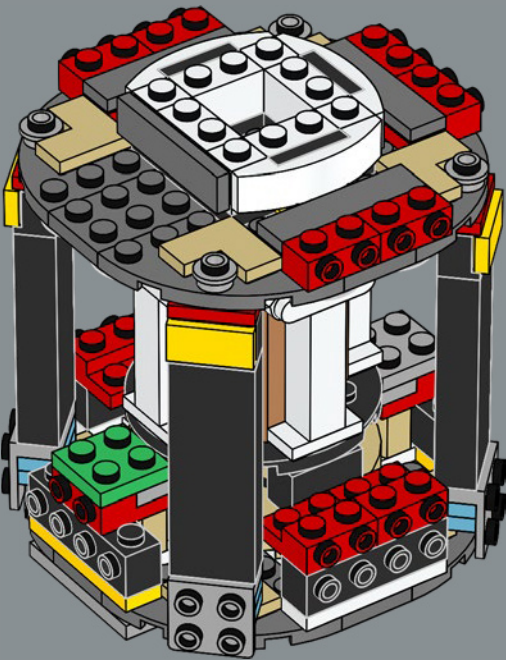
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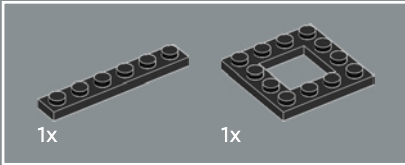
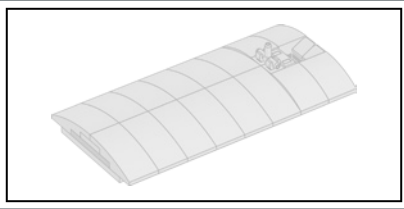


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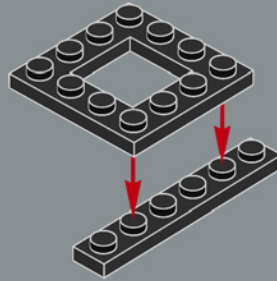


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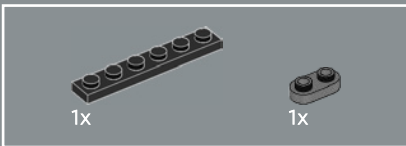
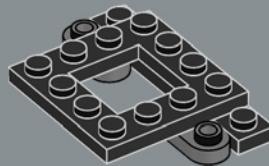




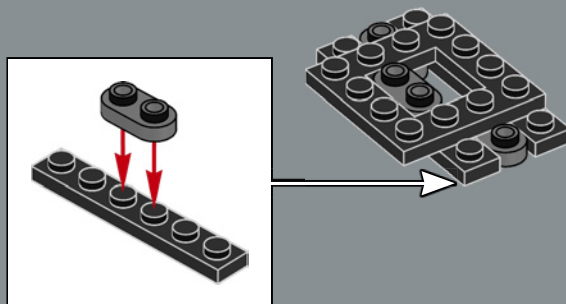
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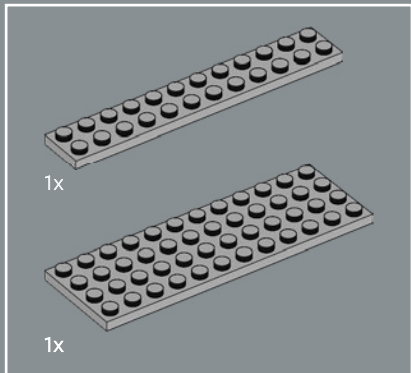


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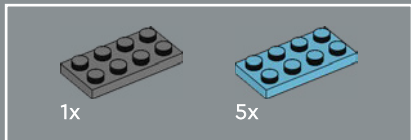
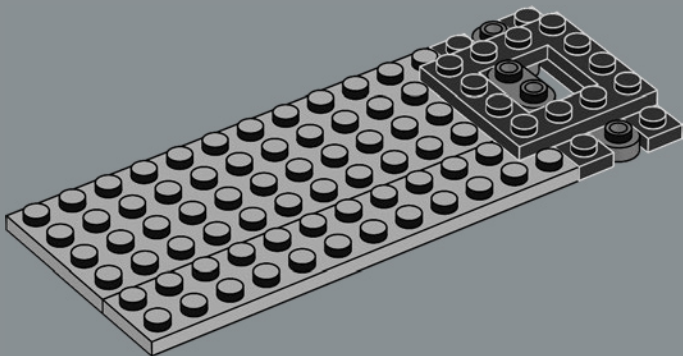


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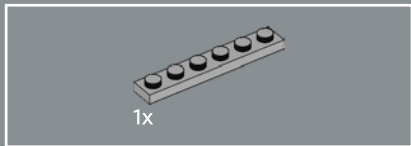
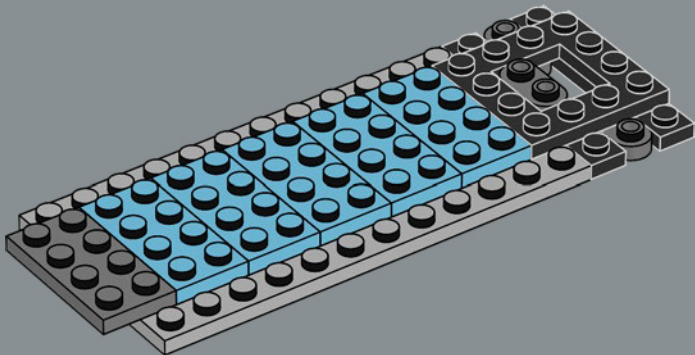




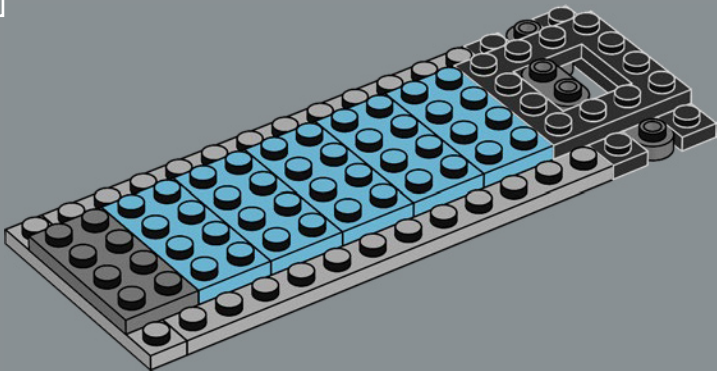
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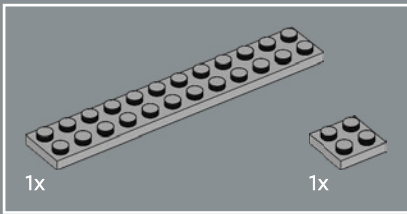


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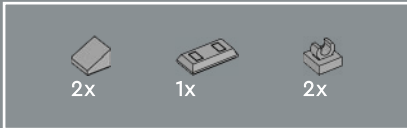
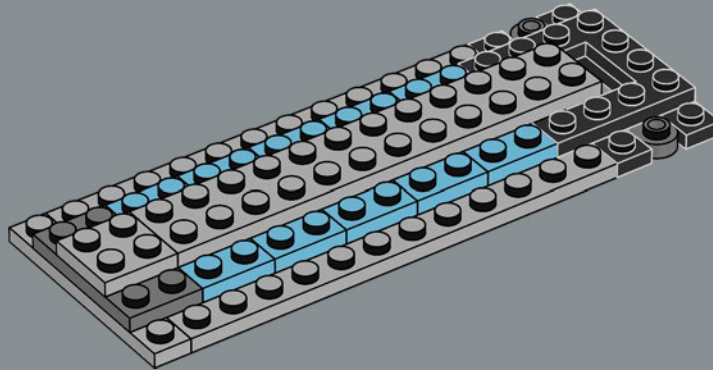


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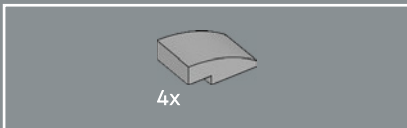
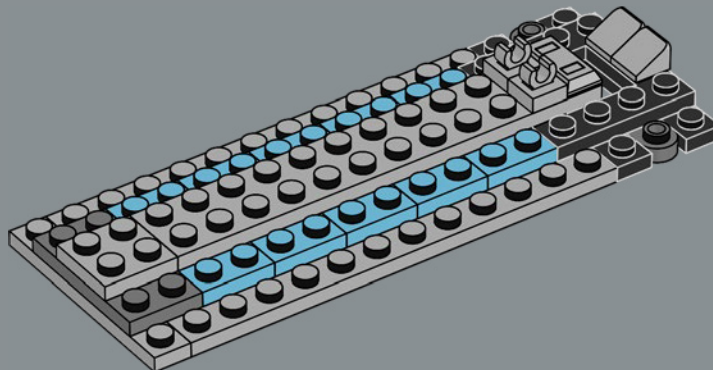




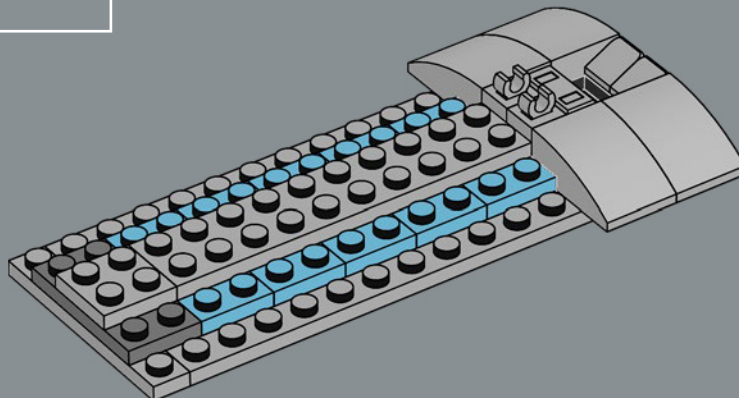
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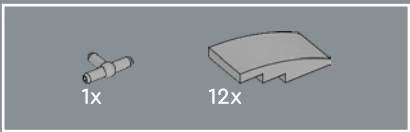


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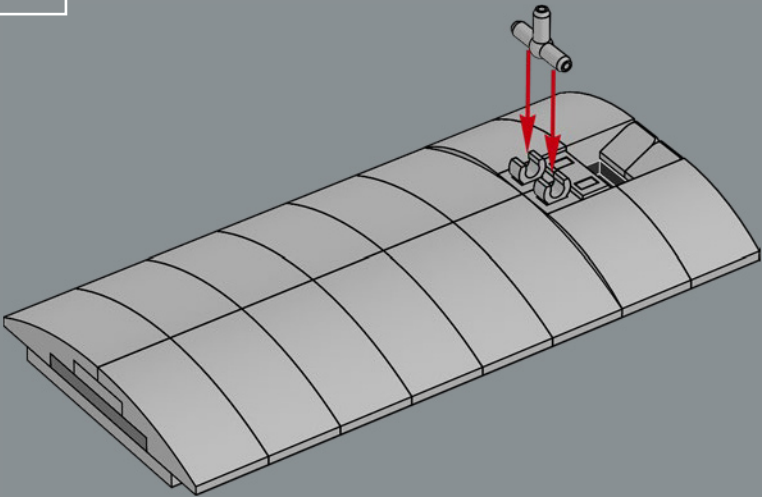


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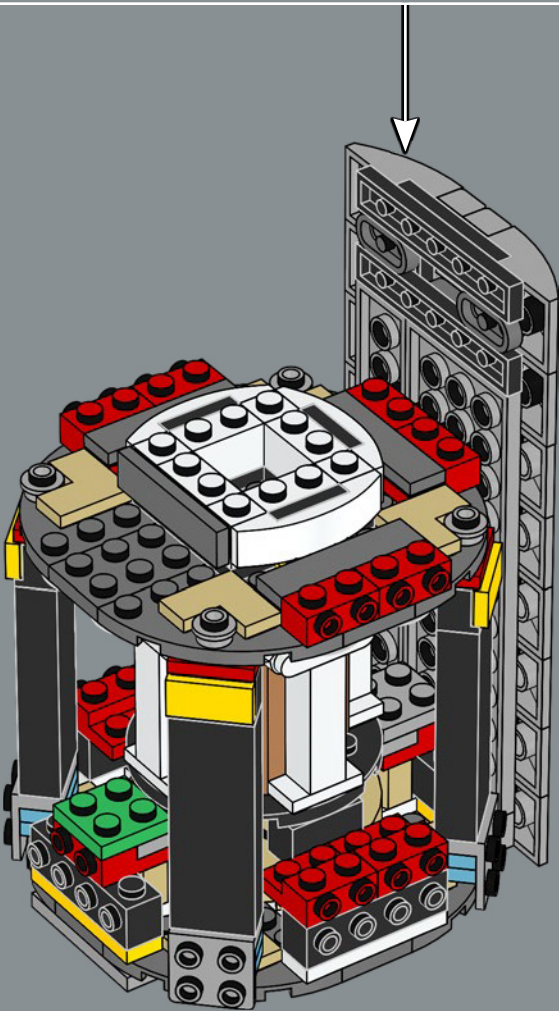


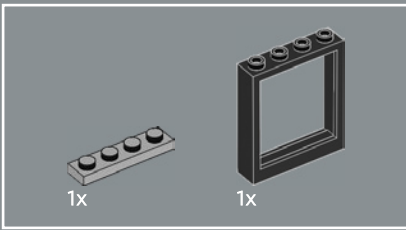


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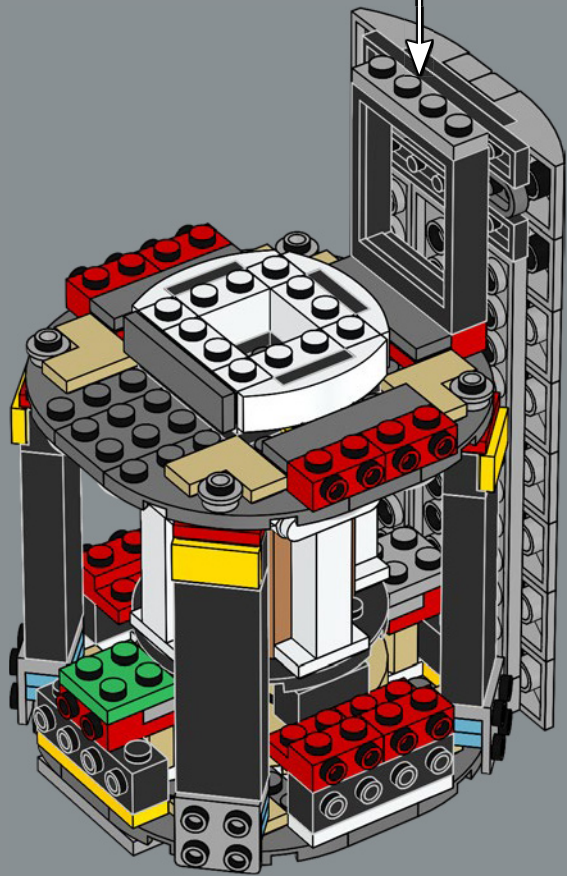
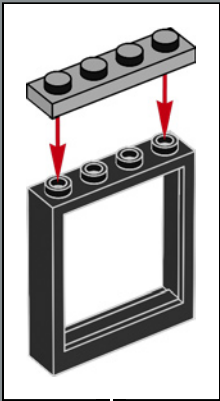


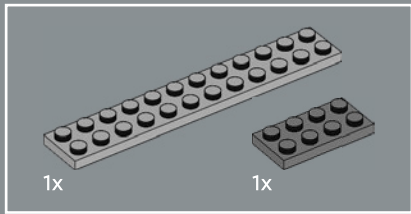
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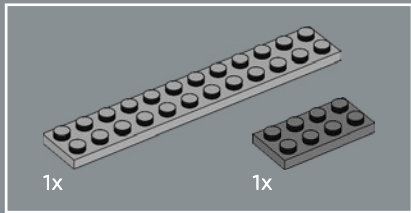
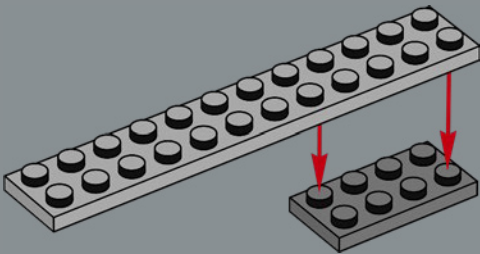


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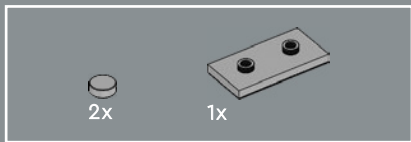
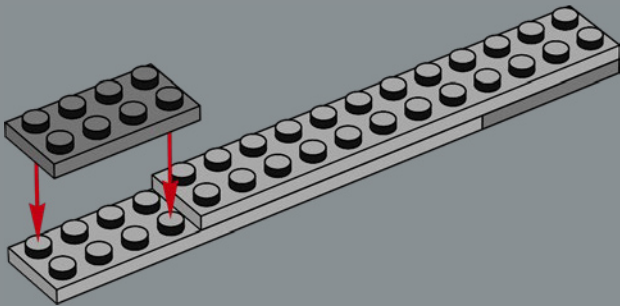




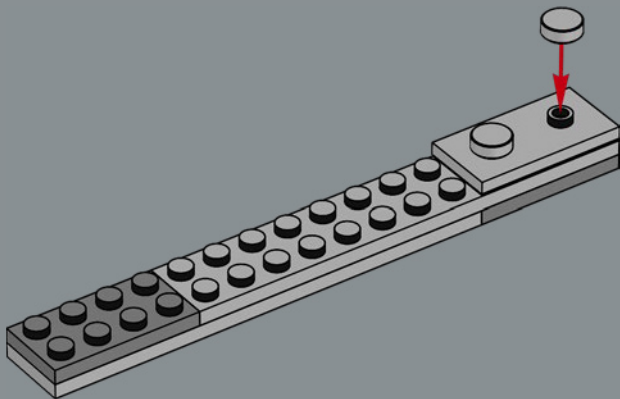
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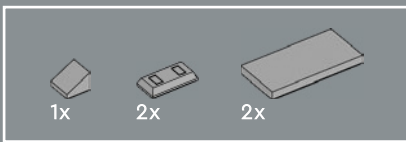


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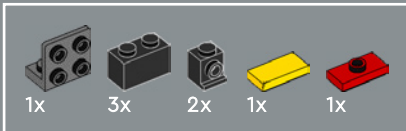
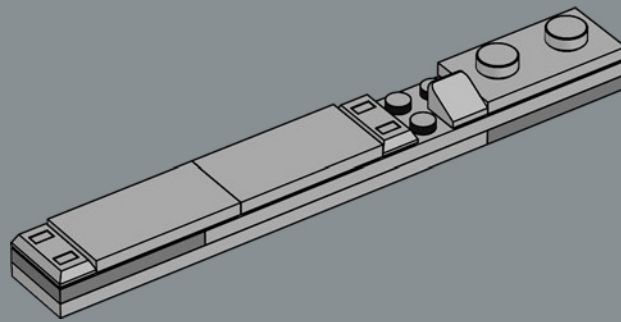


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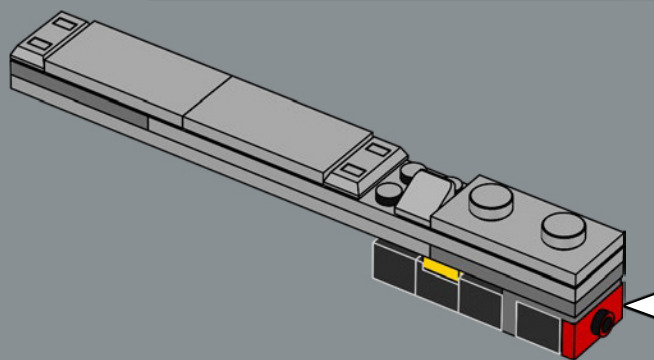
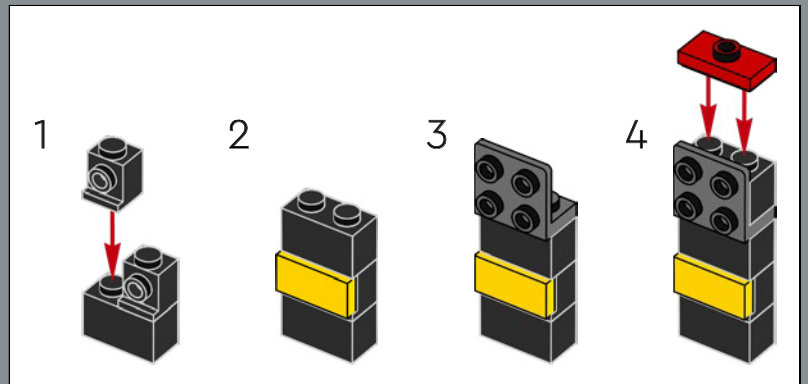


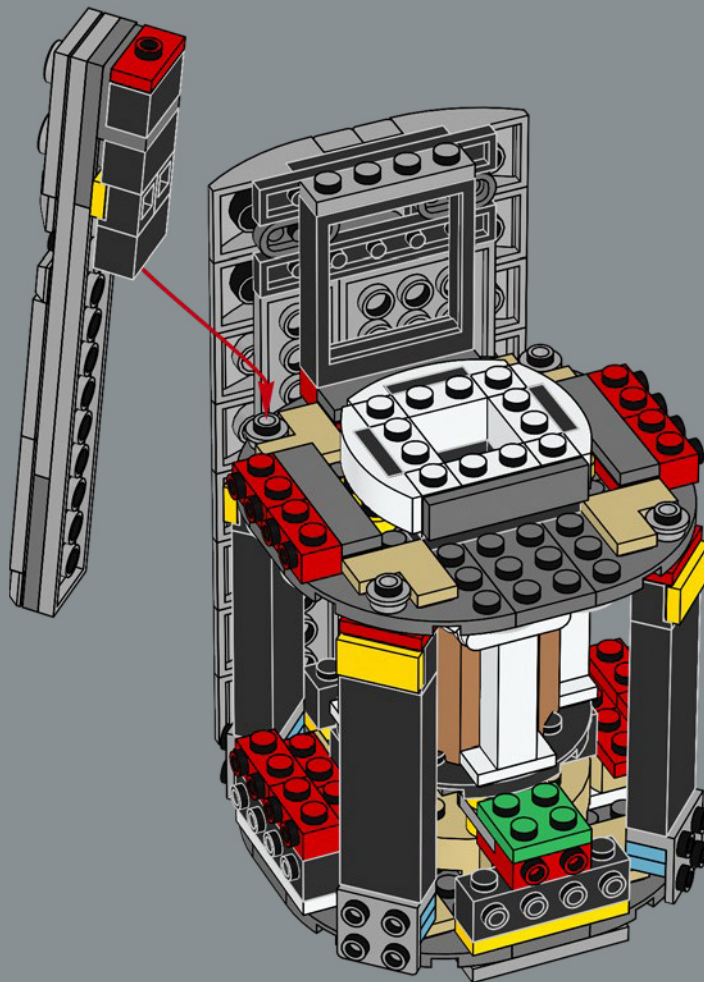


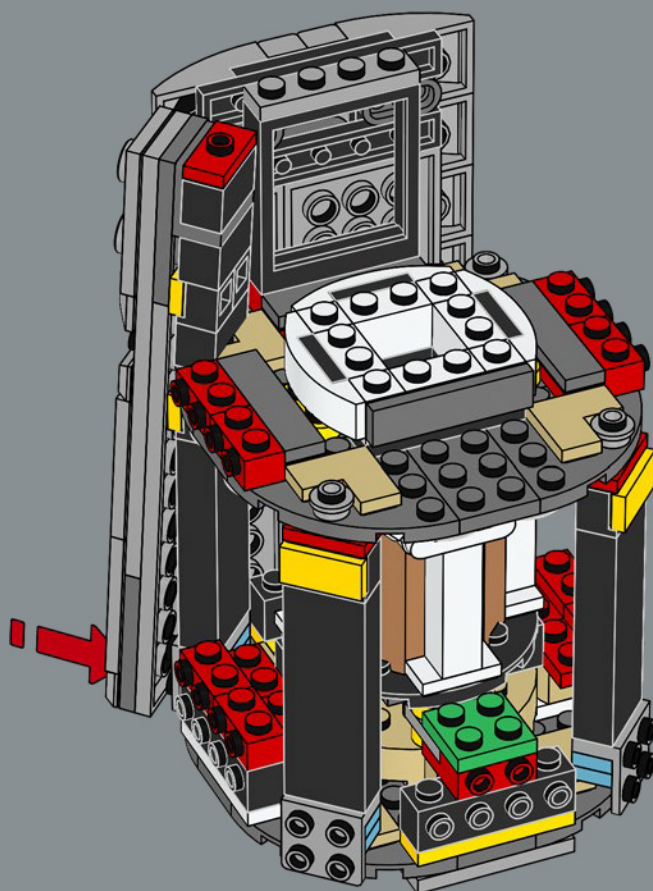
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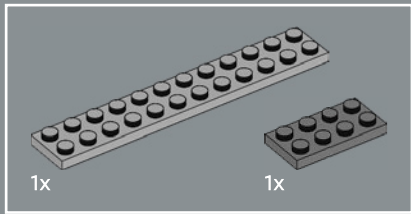


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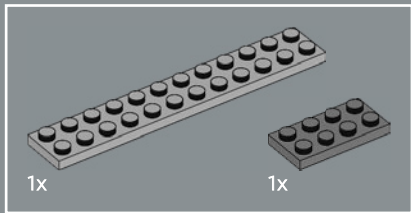
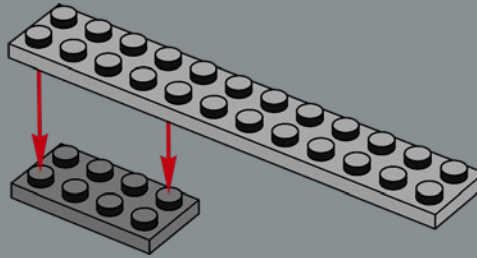




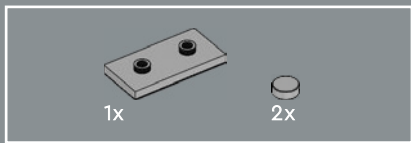
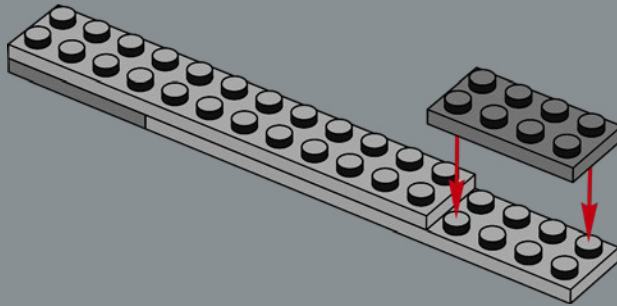




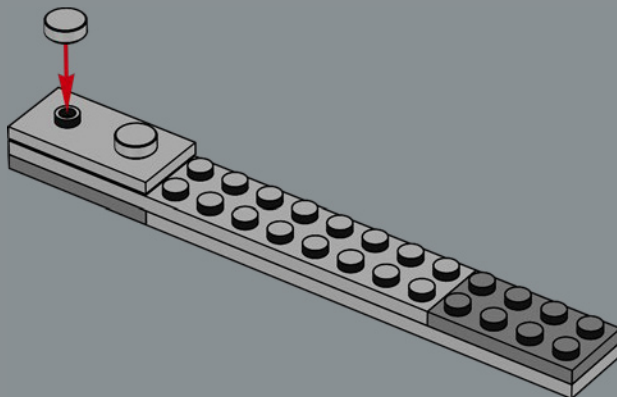
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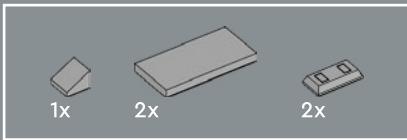


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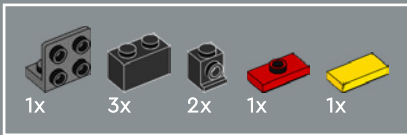
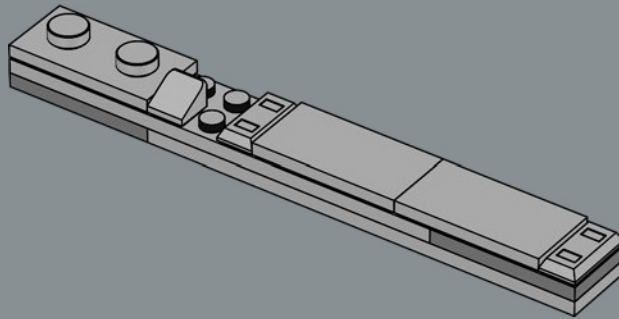


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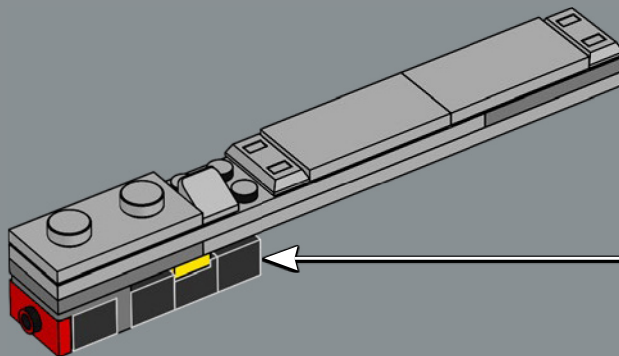
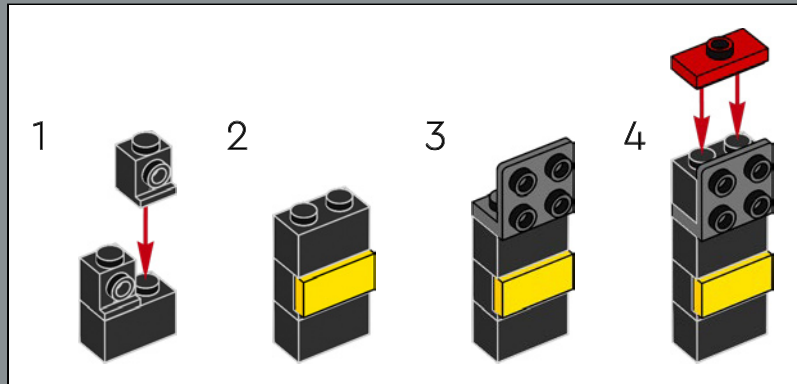


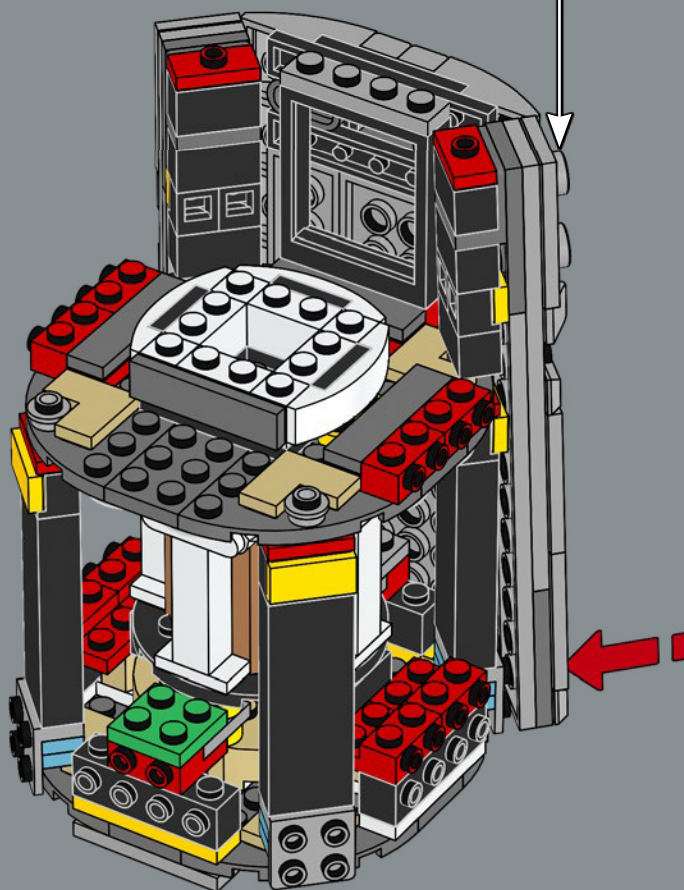


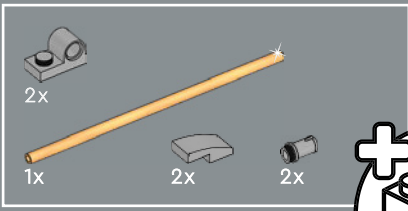
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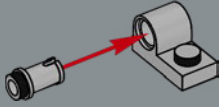




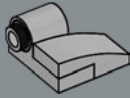


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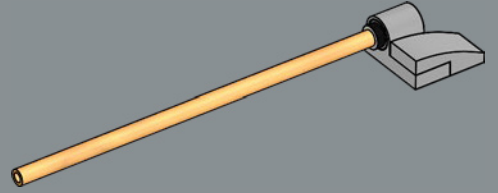
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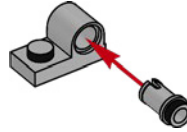
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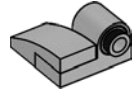
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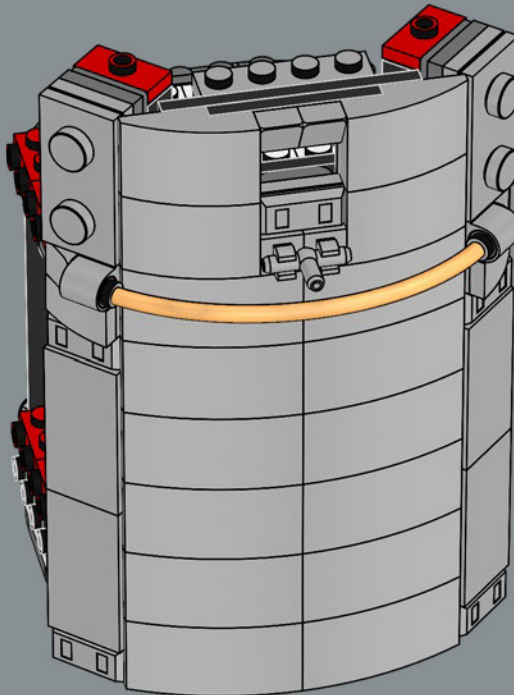
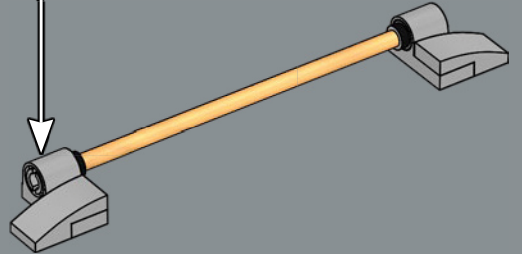
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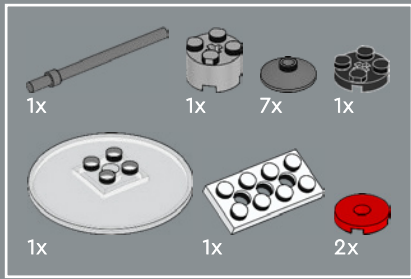


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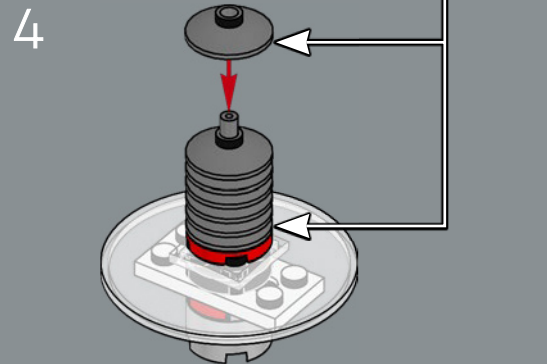
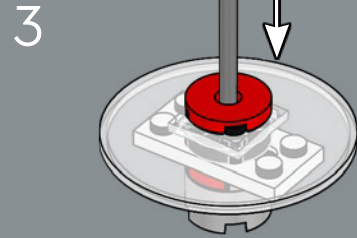
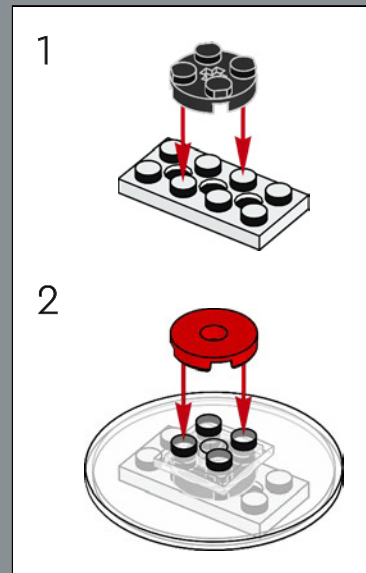
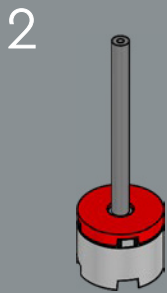
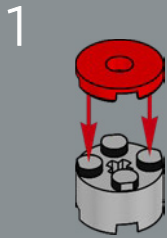


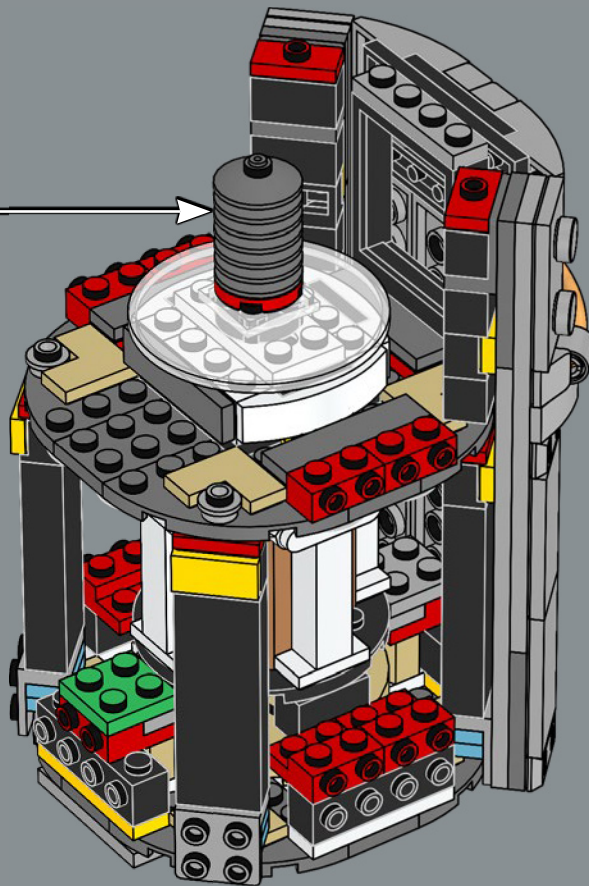
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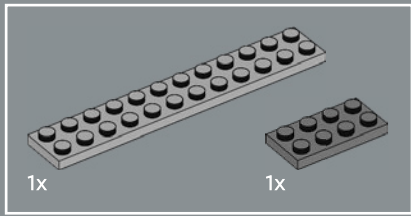




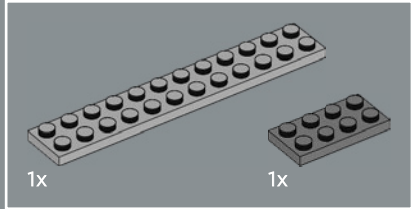
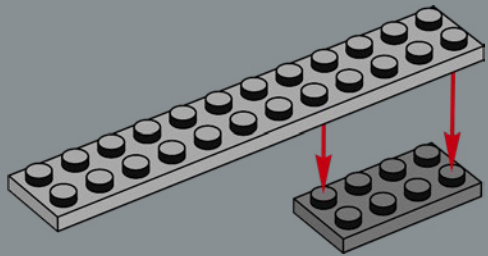
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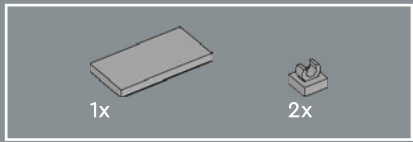
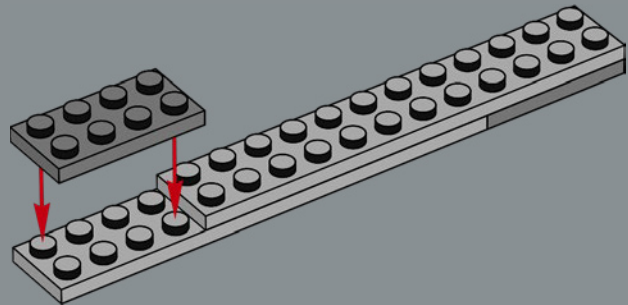




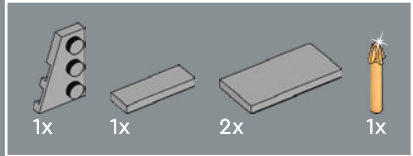
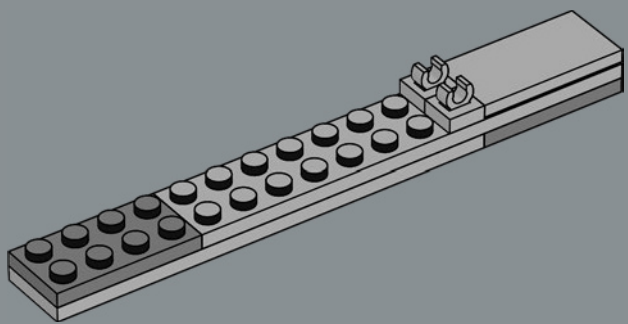
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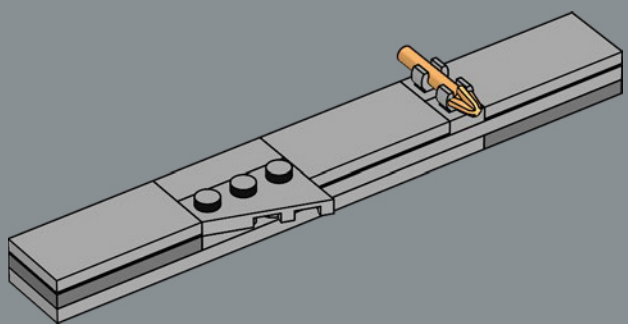
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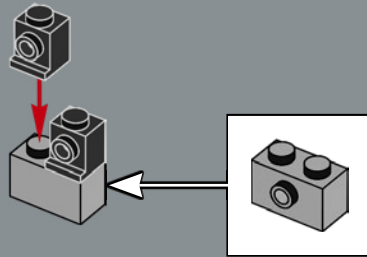
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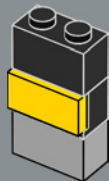
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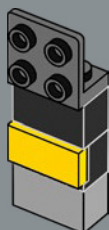
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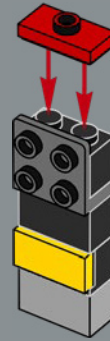
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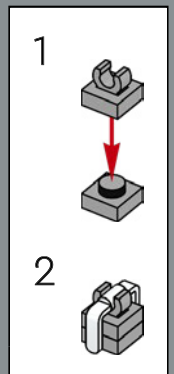
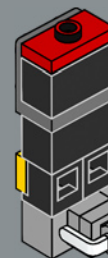
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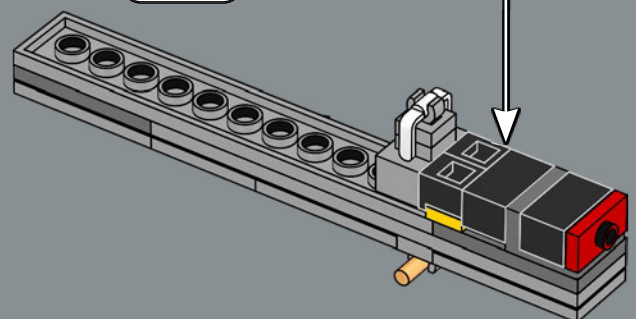
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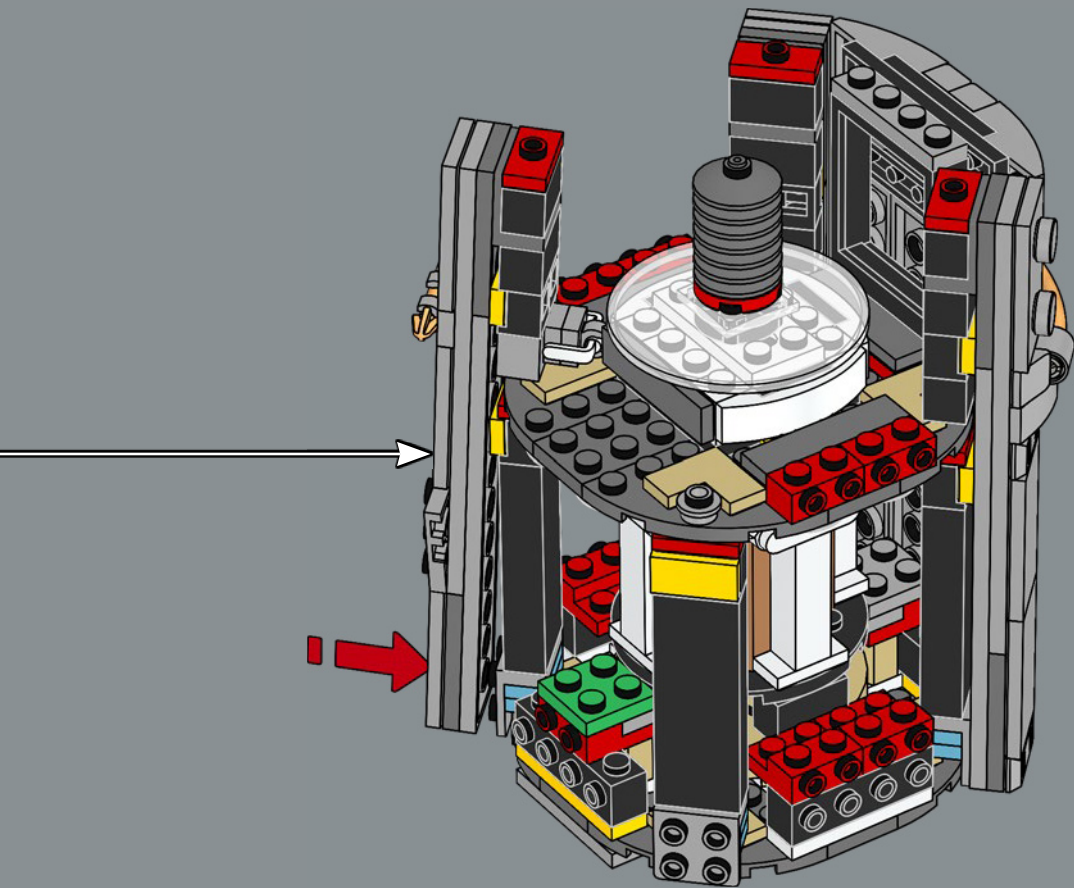


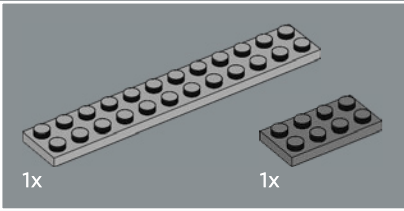
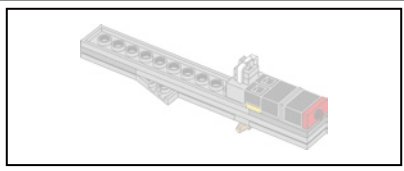
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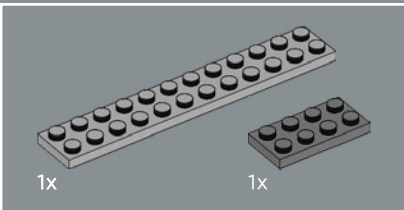
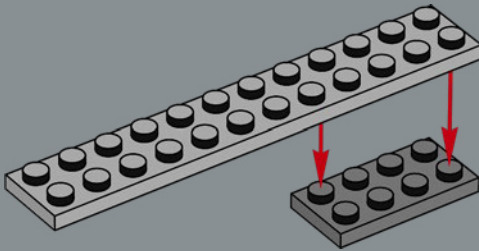
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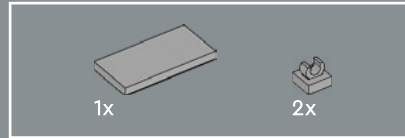
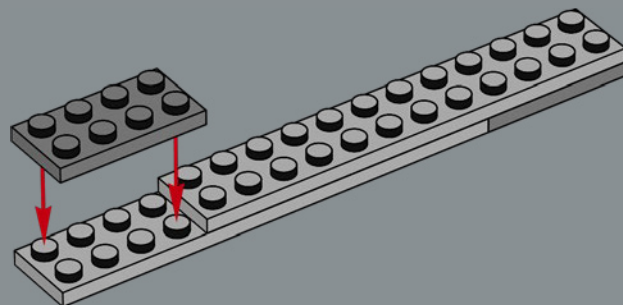




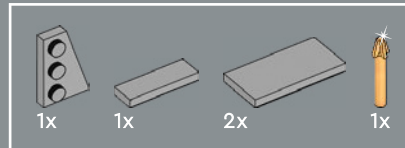
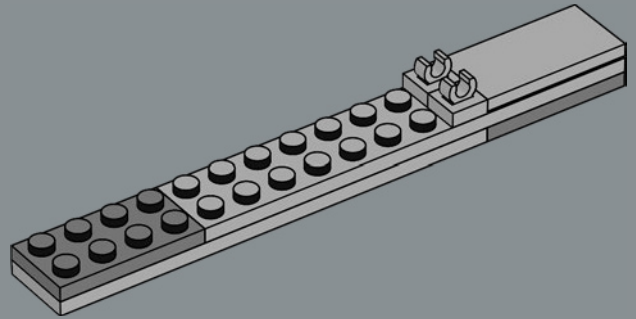
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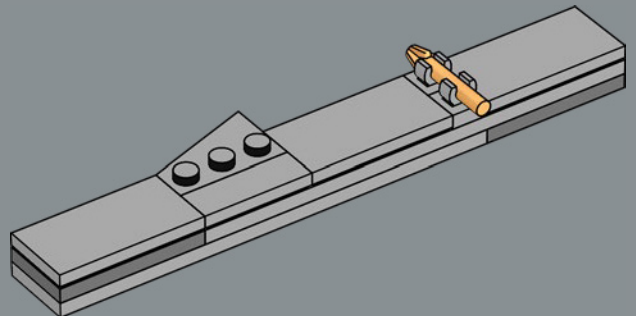
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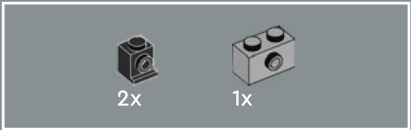


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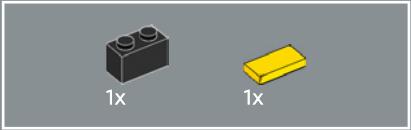
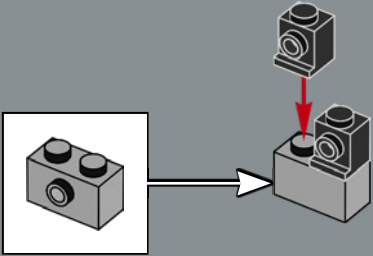


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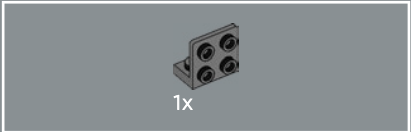
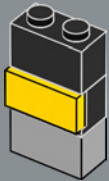




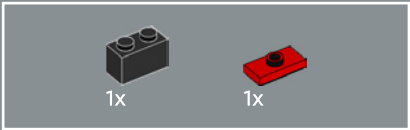
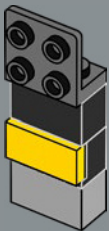
116



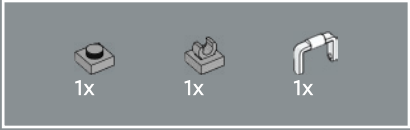
117



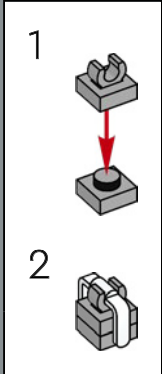
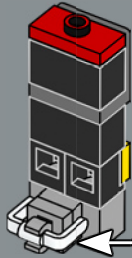
118



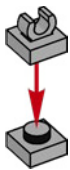
119



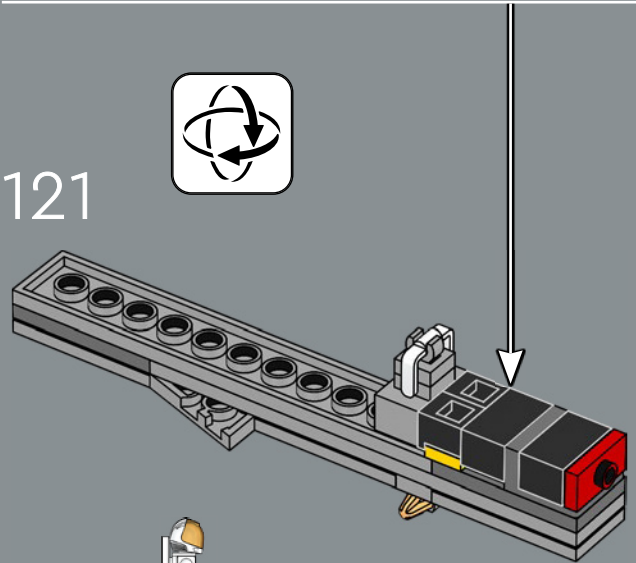
120



1



2



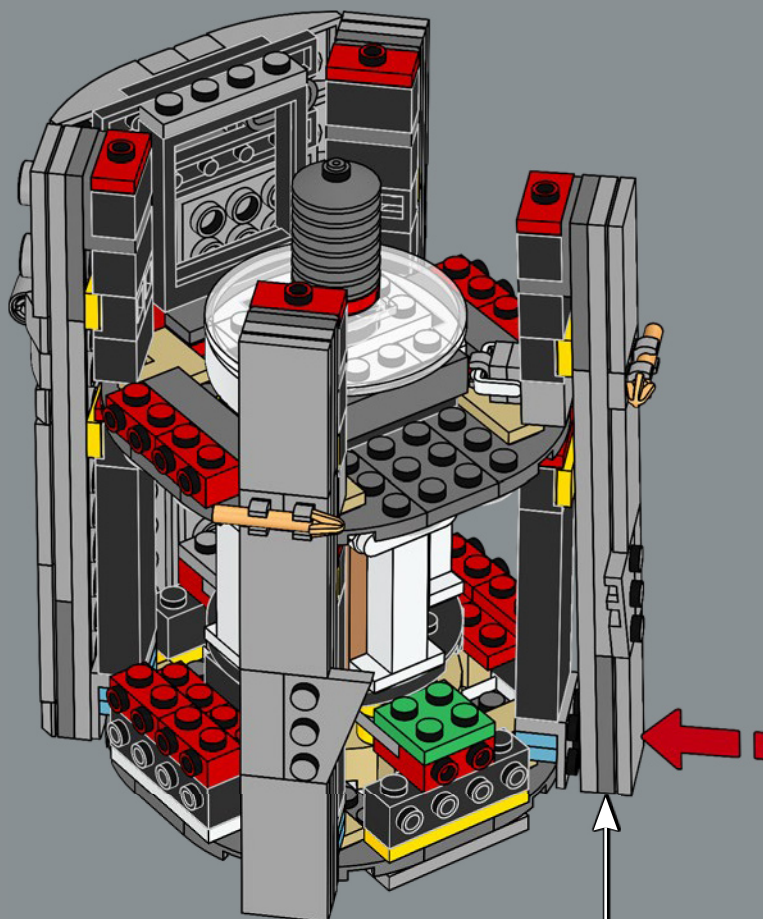
121

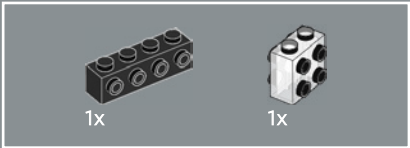
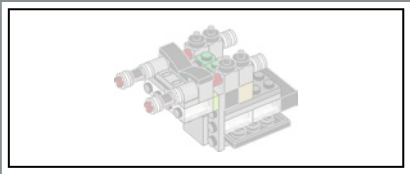


Smarrito nello spazio? Un GPS che copra l'intero universo probabilmente non sarà pronto ancora per un bel po'... Ad oggi, solo lo 0,1% del cielo è stato osservato.

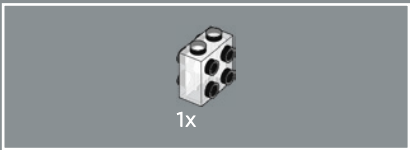
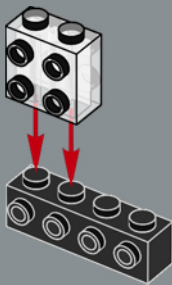


122

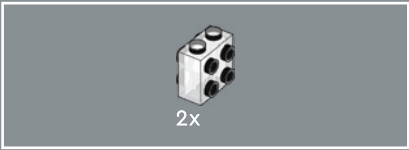
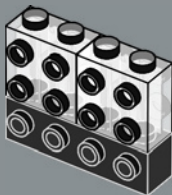




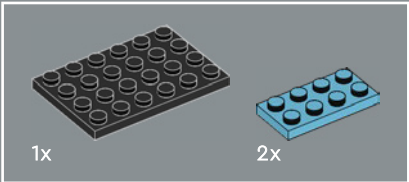
123



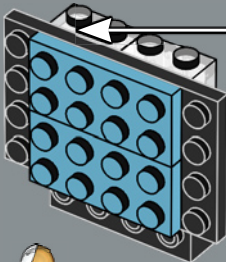
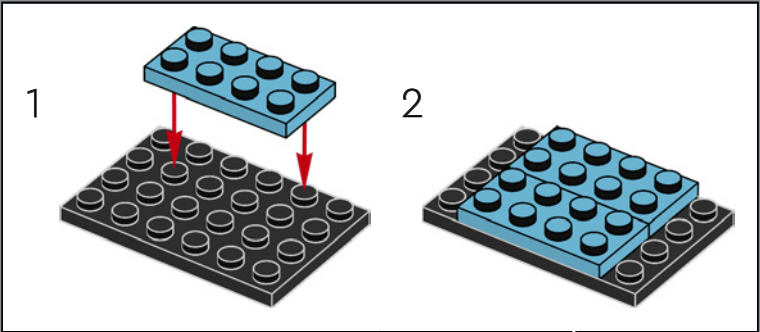
124

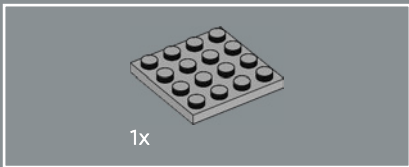


125

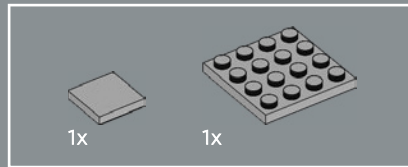
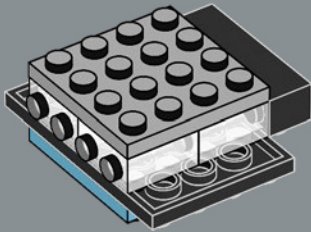


126

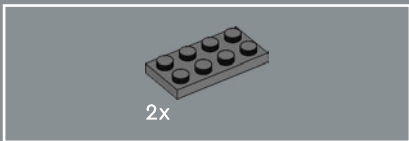
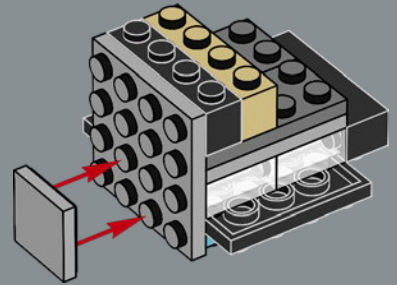




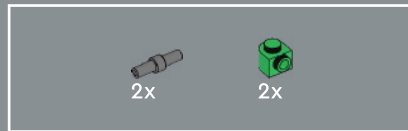
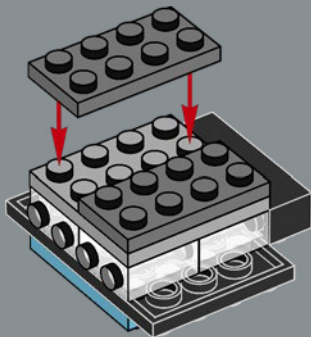
127



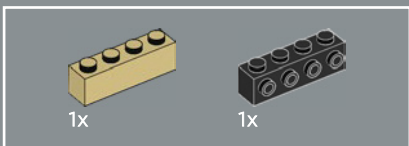
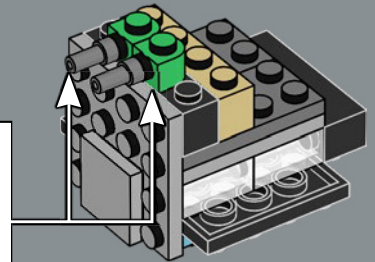
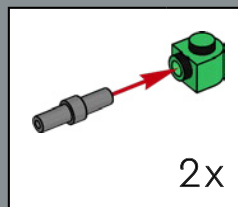
130



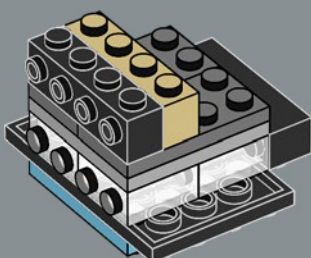
128



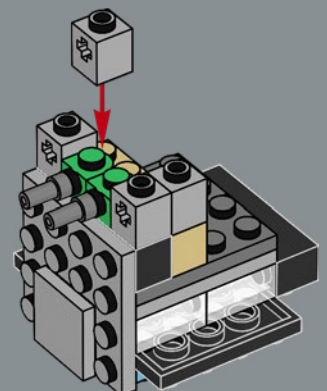
131



129

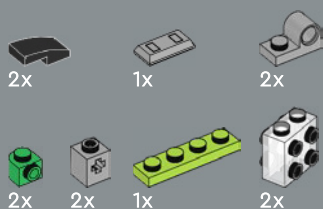
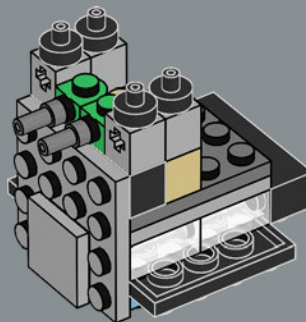


132

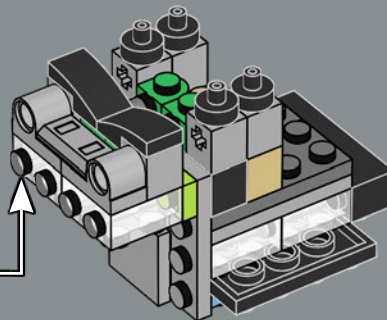
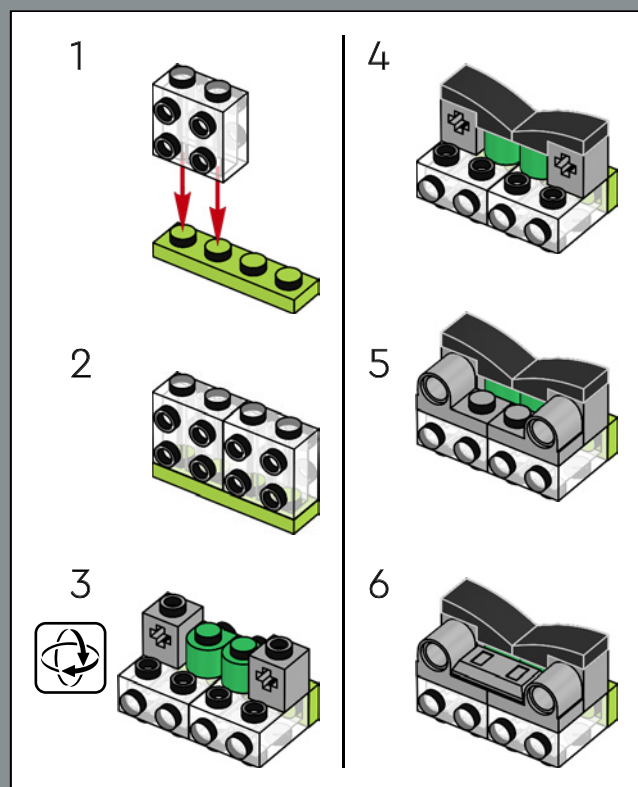


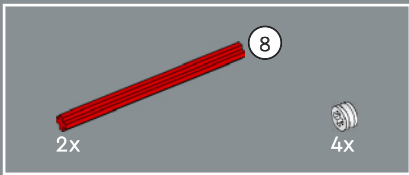
4x

133

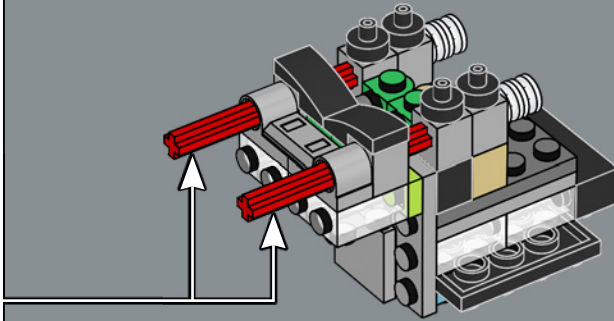
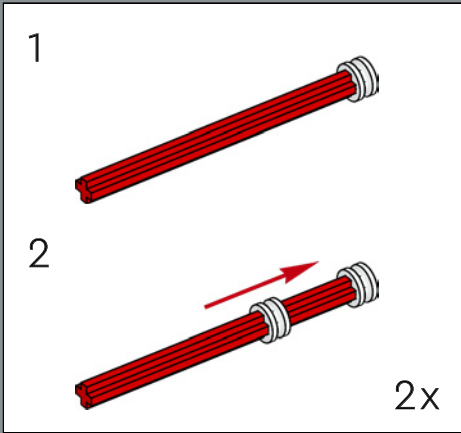


134

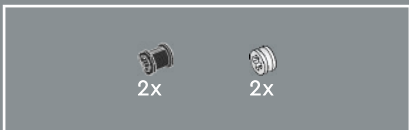
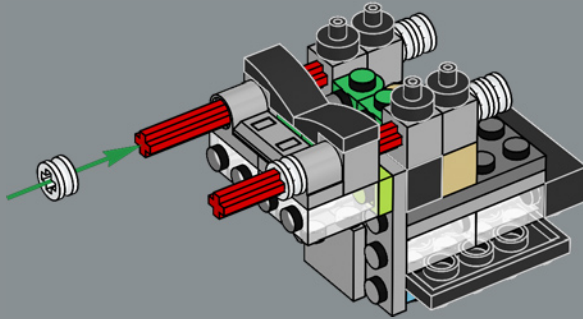




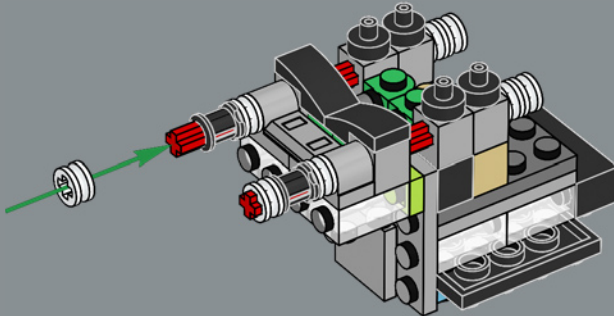
135



136



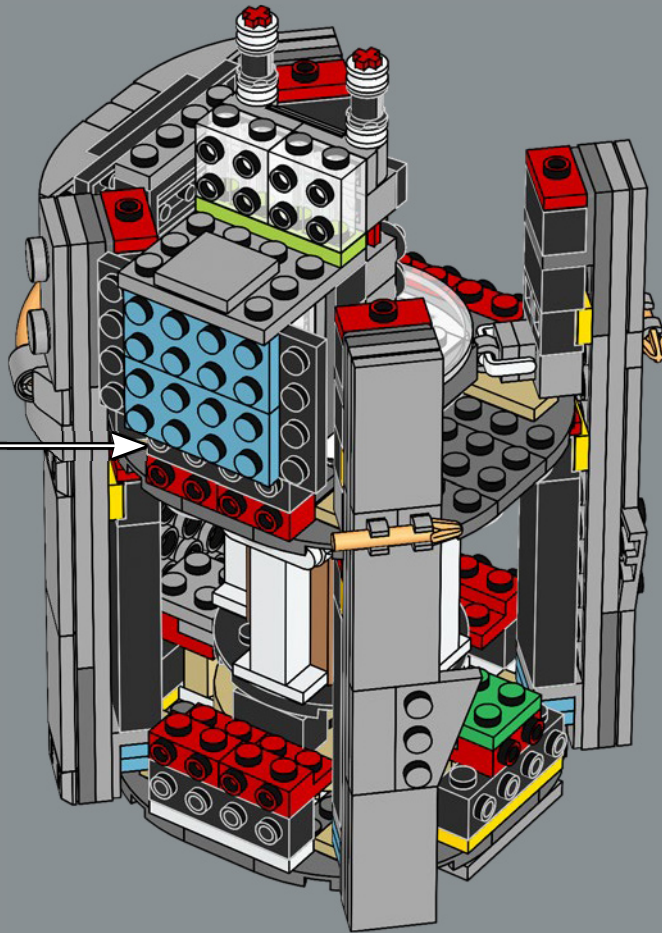
137

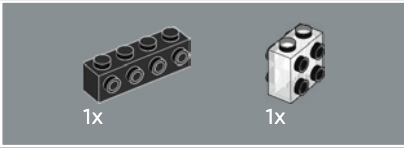
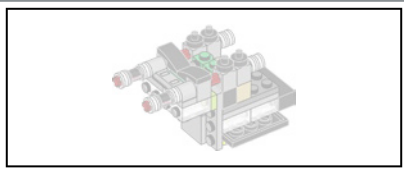


In orbita a circa 483 km sopra la Terra, la velocità orbitale media di Hubble è di 27.000 km/h.

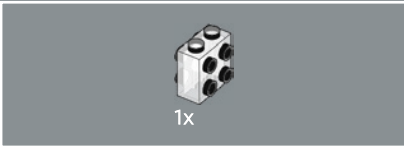
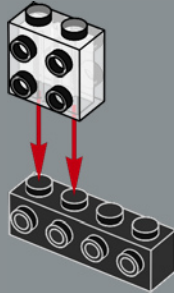


138

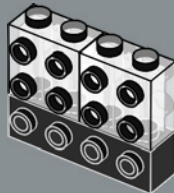




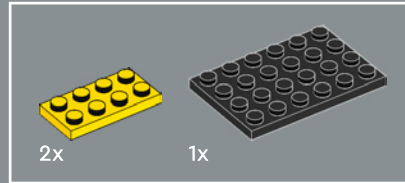
139



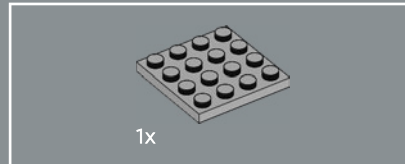
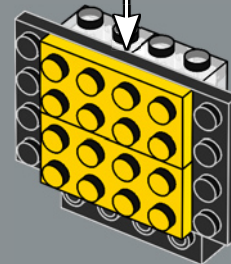
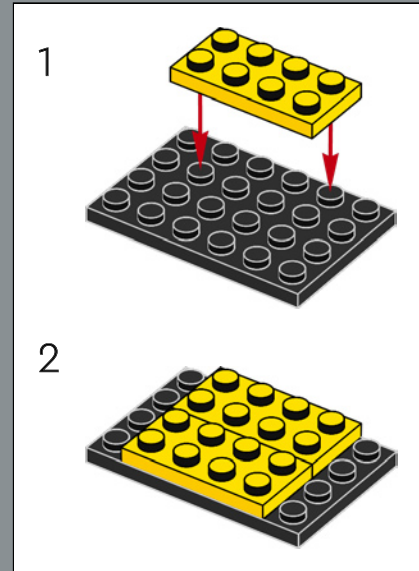
140



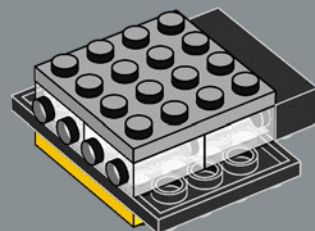
141

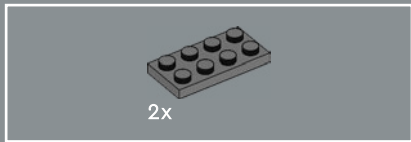


142

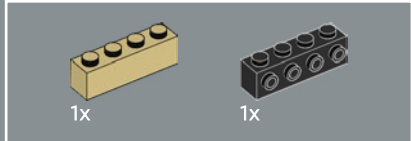
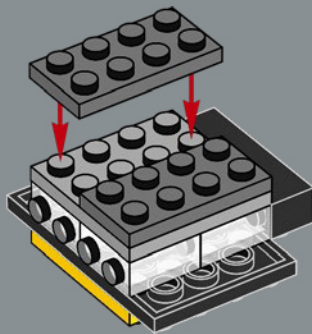


143

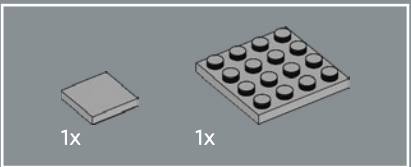
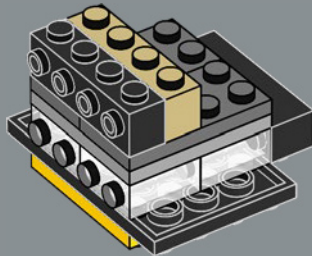




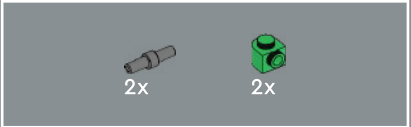
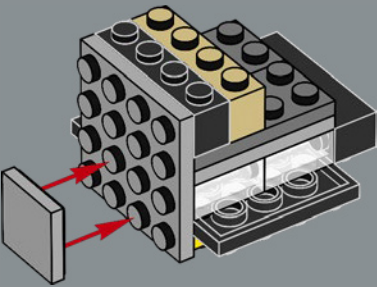
144



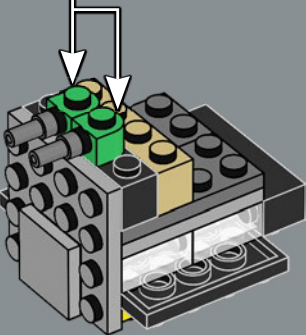
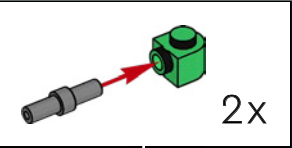
145



146



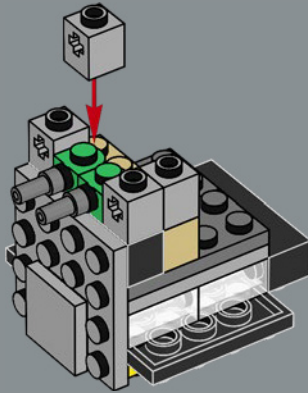
147





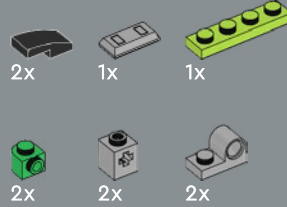
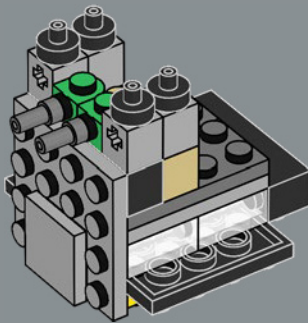
4x

148



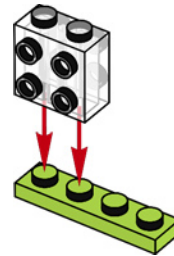
4x

149

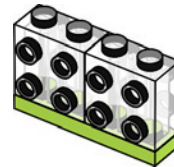


150

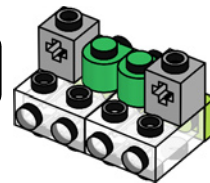
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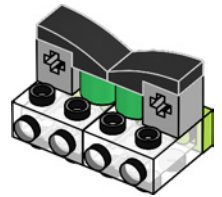
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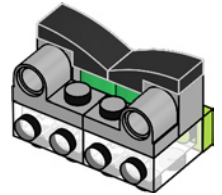
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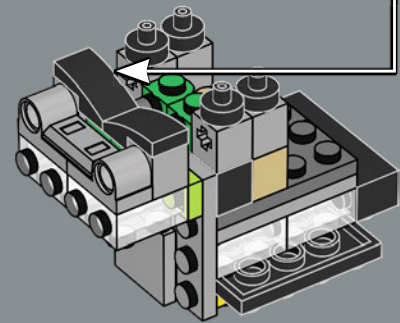
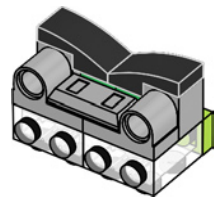
4

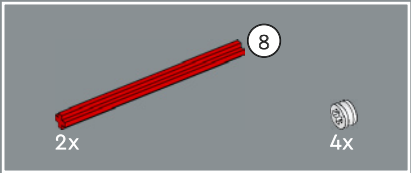


5

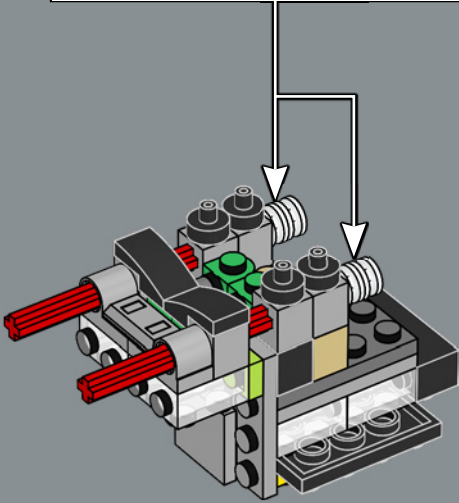
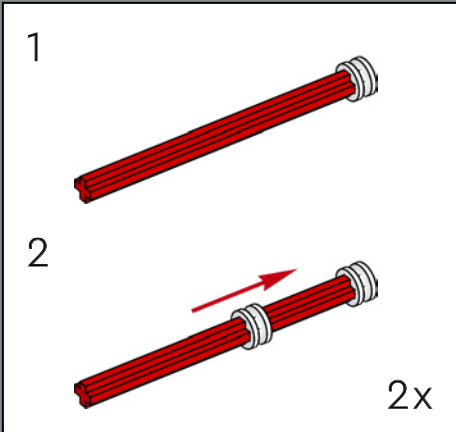


6

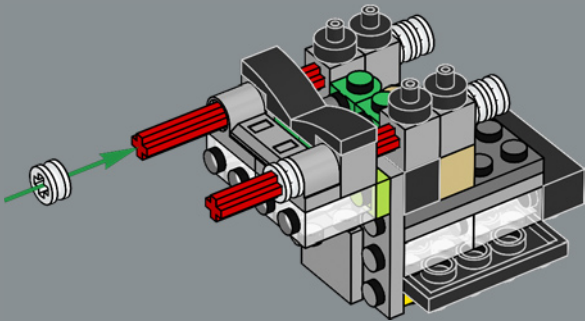




151



152



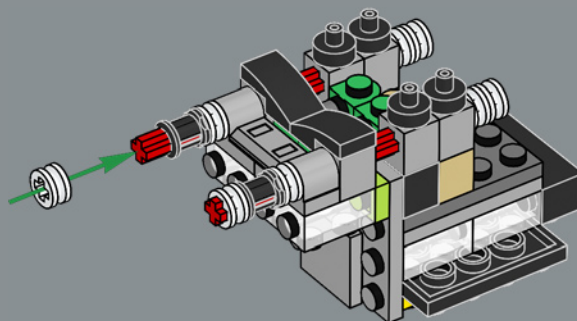


2x

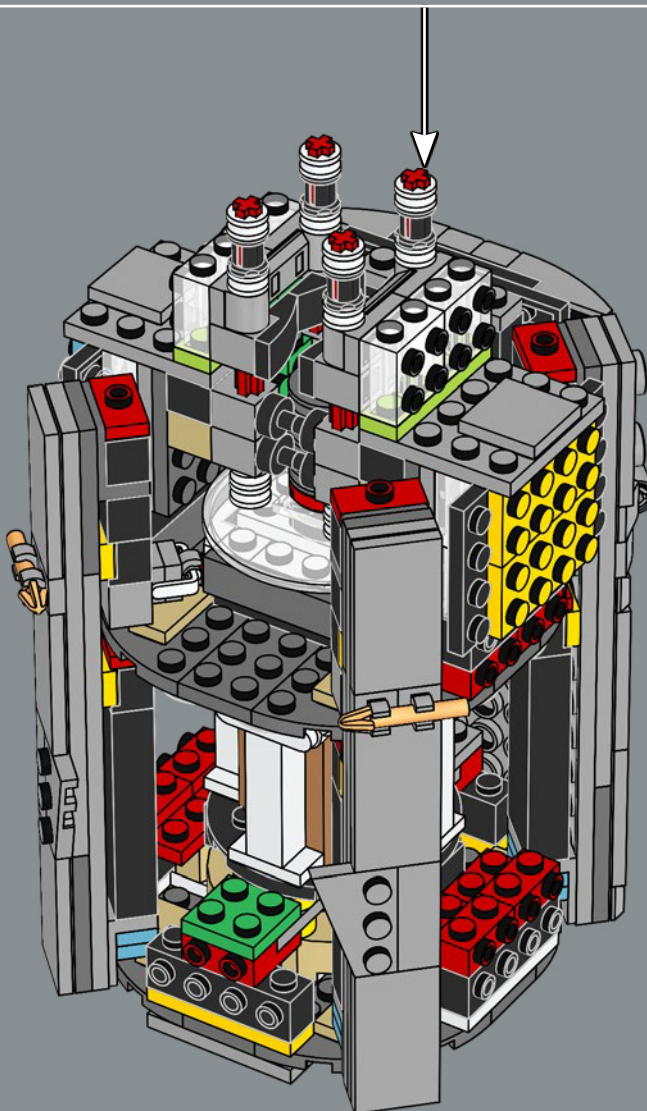


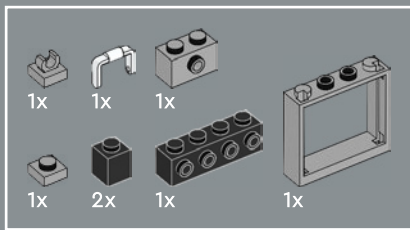
2x

153

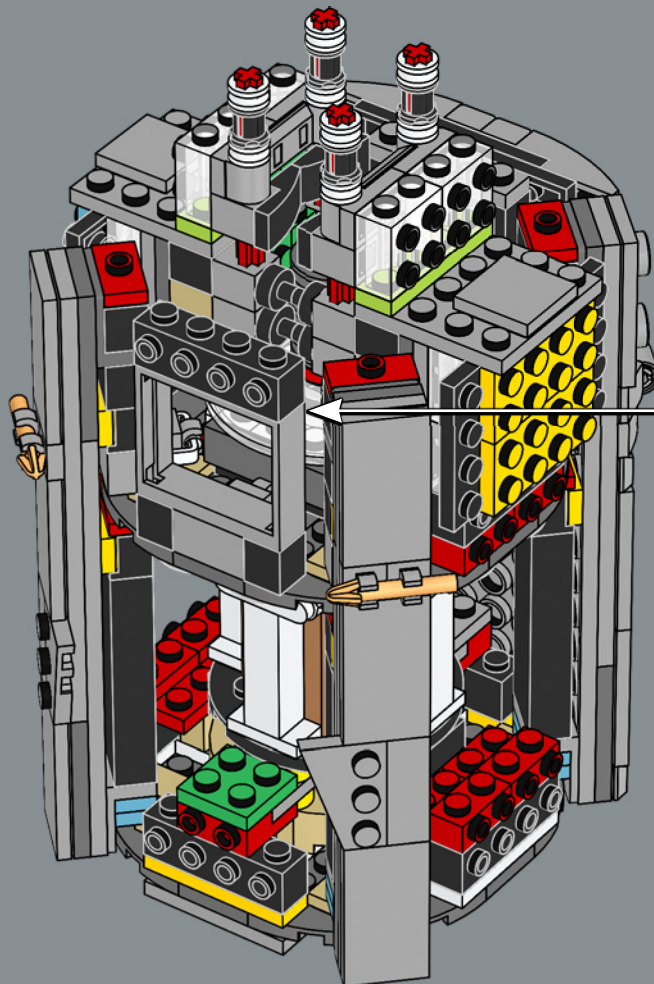
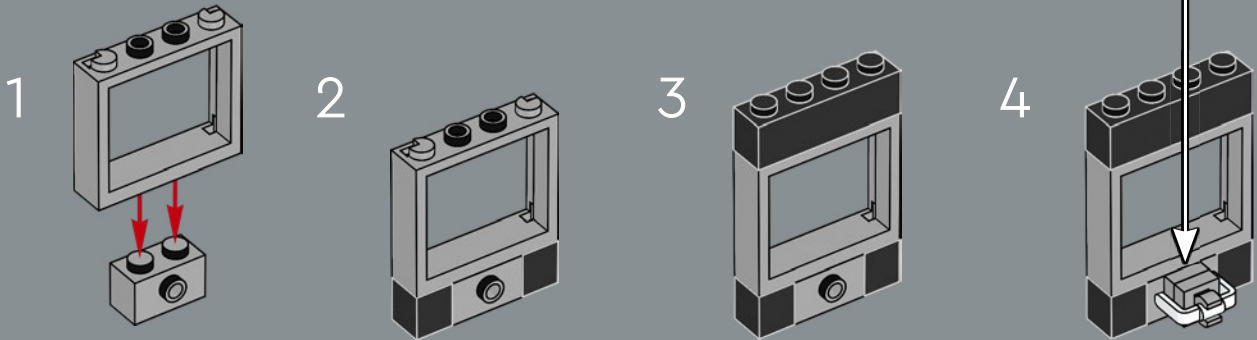
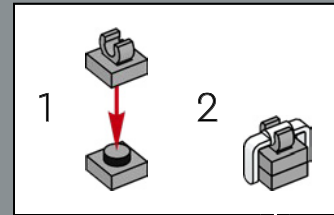


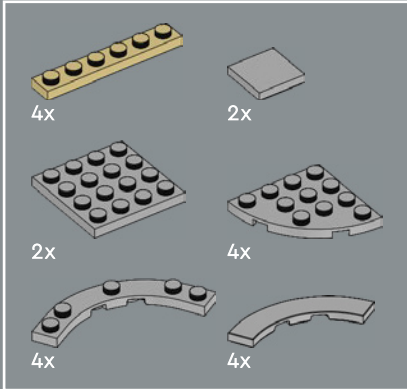
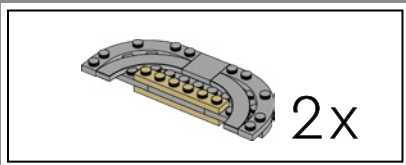
154





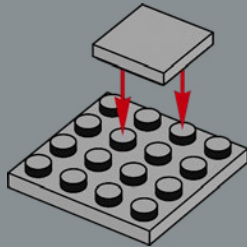
155



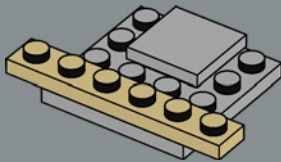


156

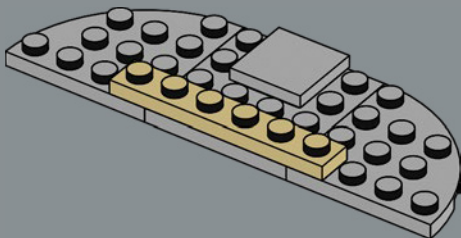
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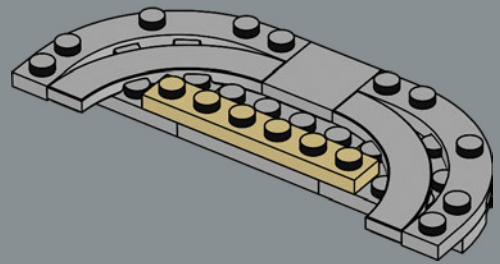
2



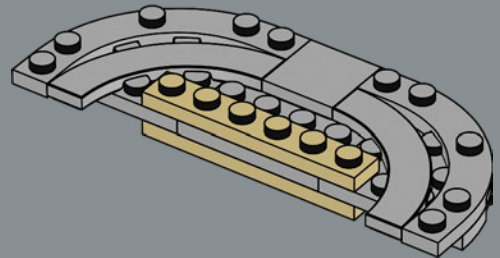
3



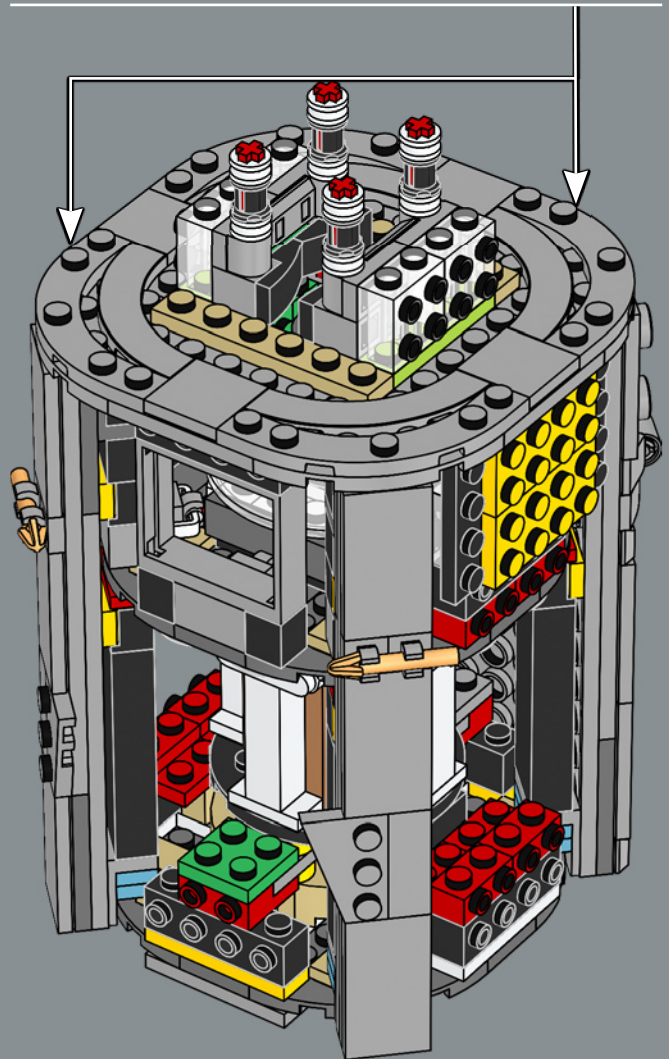
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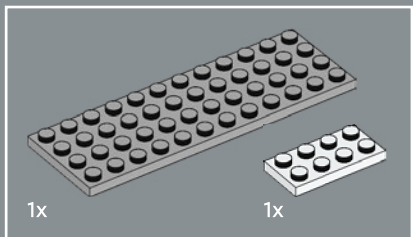
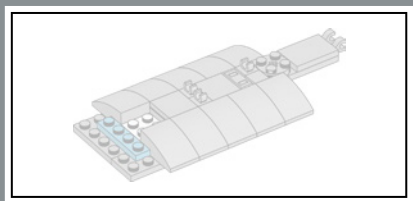


5

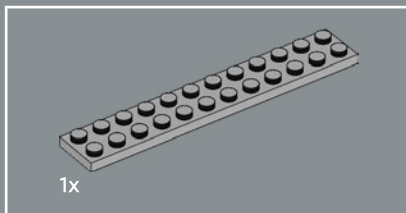
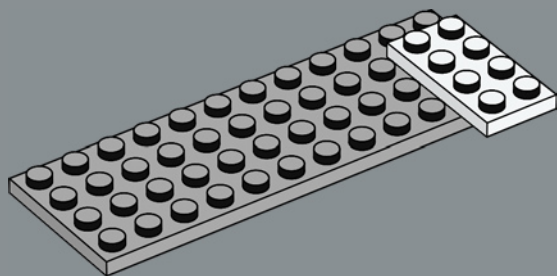


2x

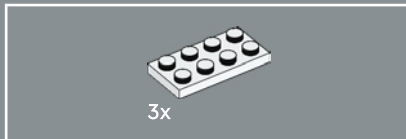
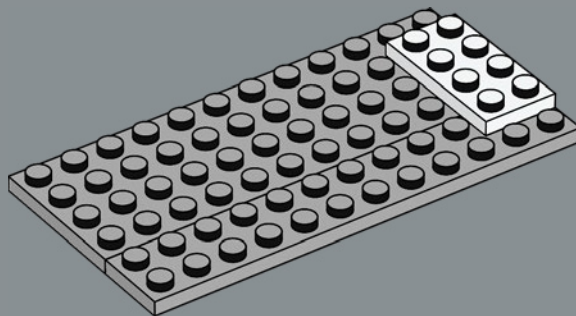




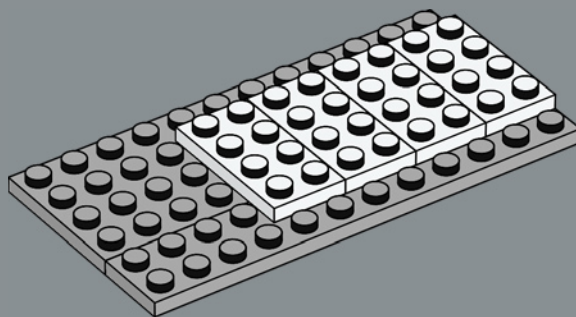
157

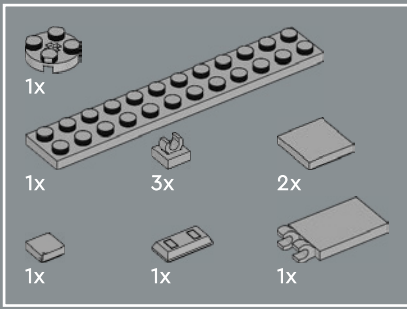


158

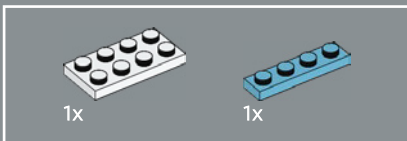
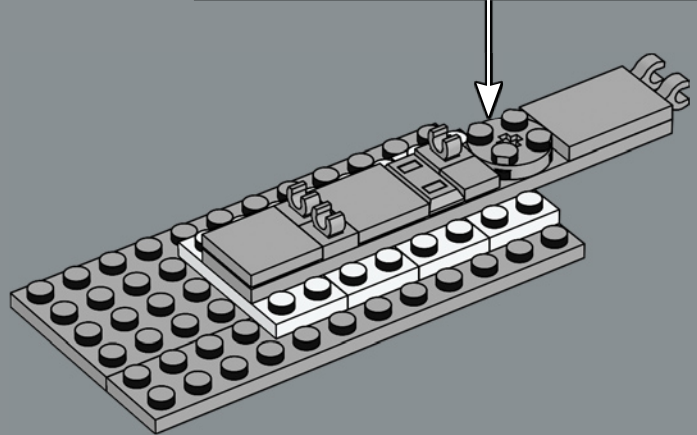
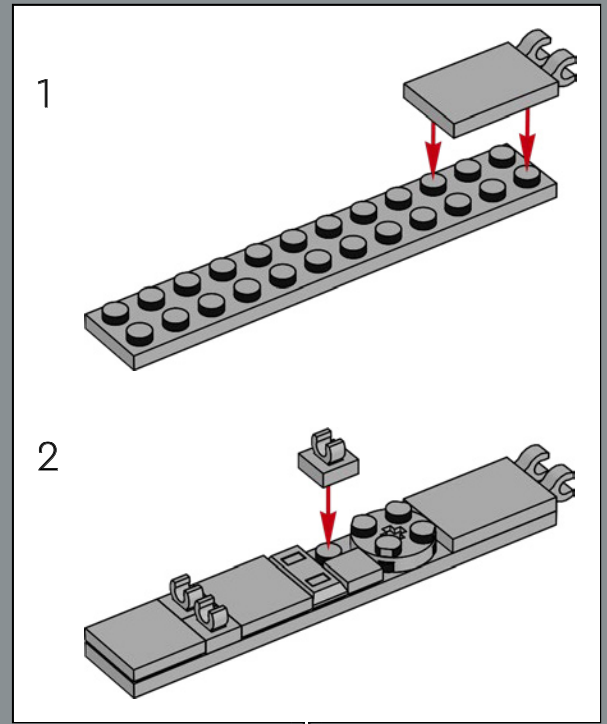


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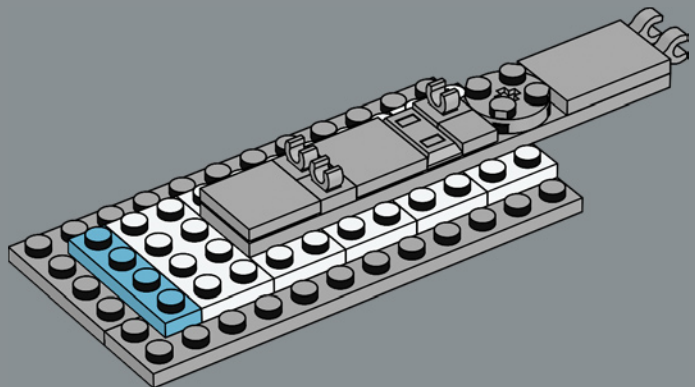


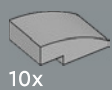


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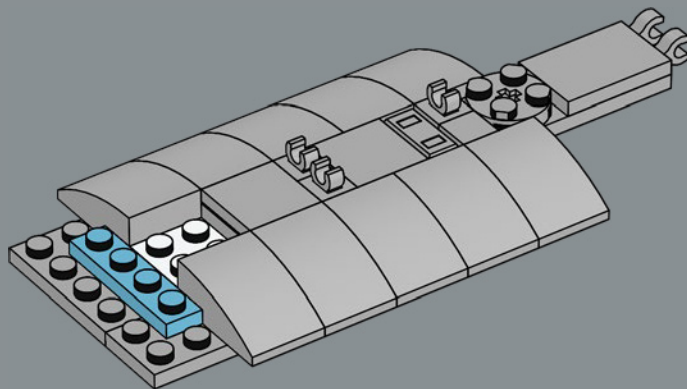
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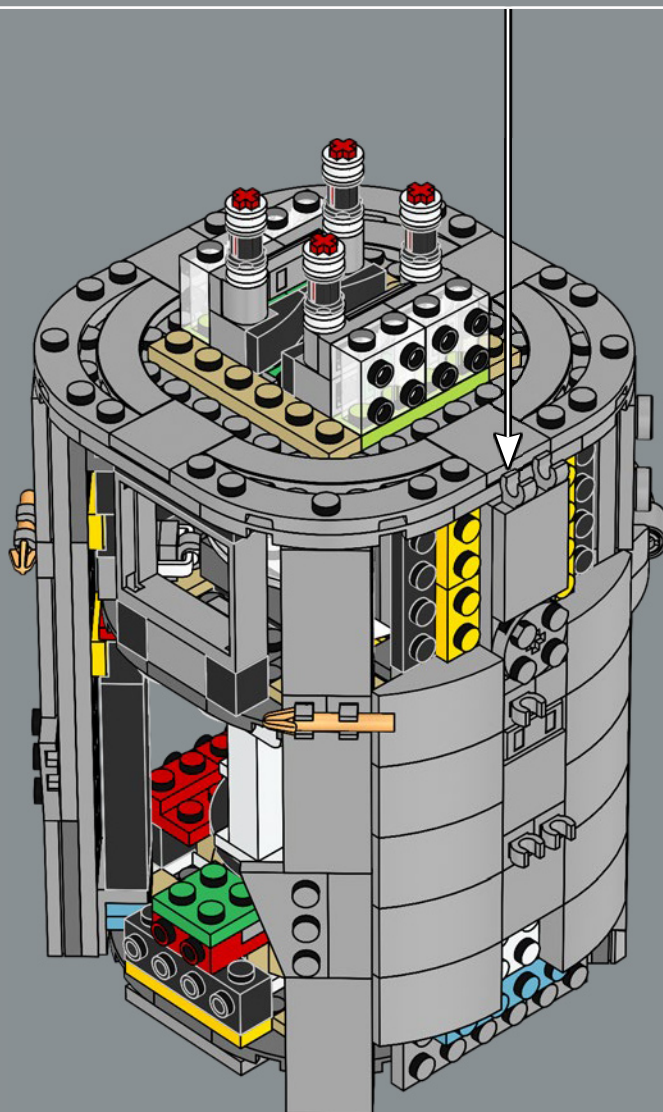


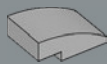
10x

162



163



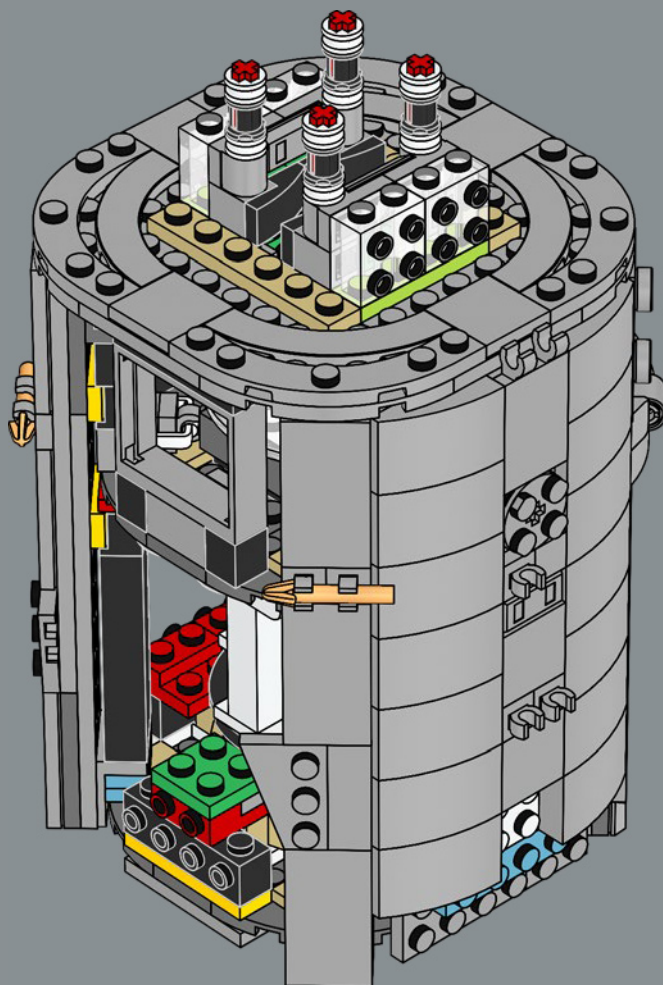


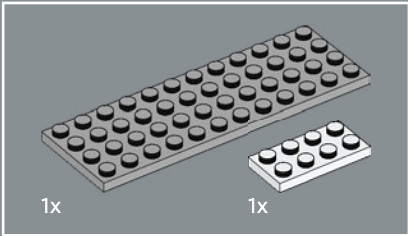
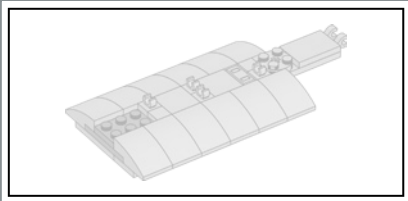
4x

Con oltre 184.000 orbite terrestri al suo attivo,
Hubble ha percorso finora più di 8 miliardi di km.

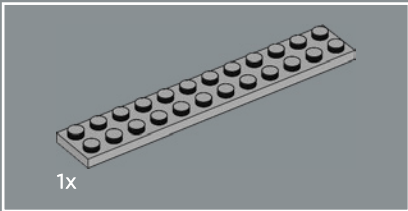
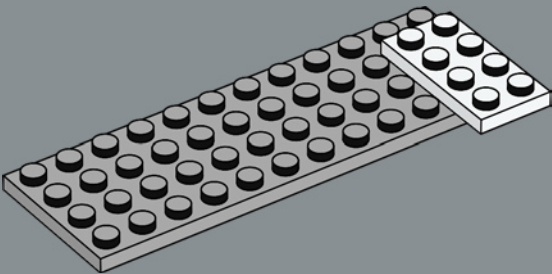


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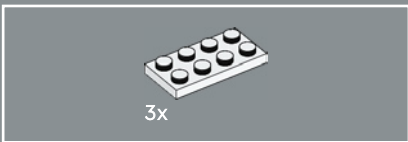
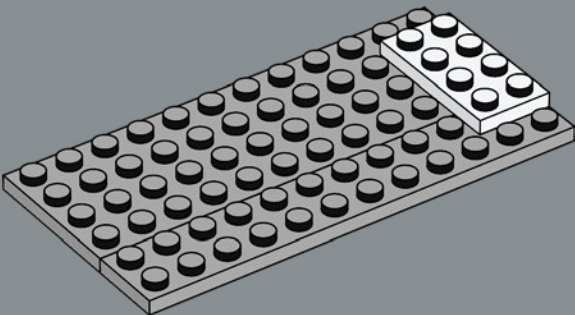




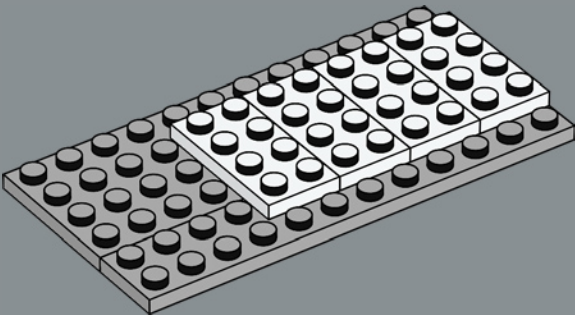
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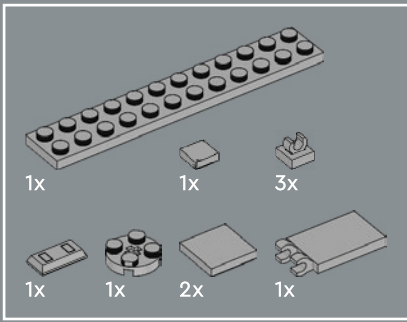


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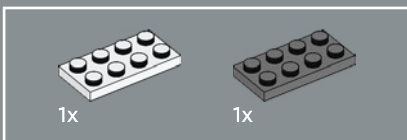
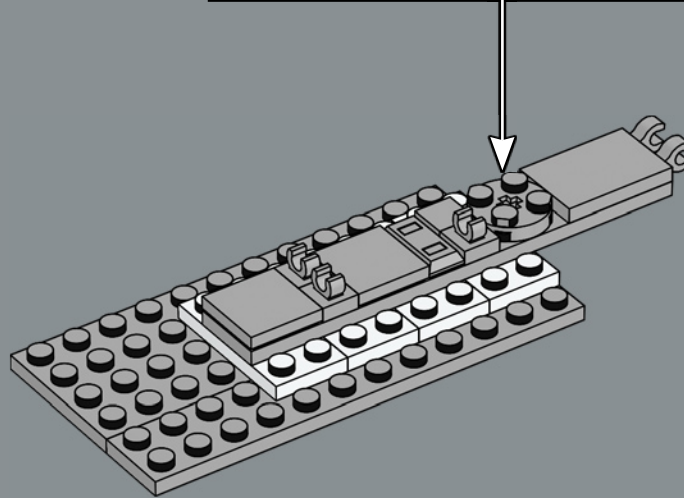
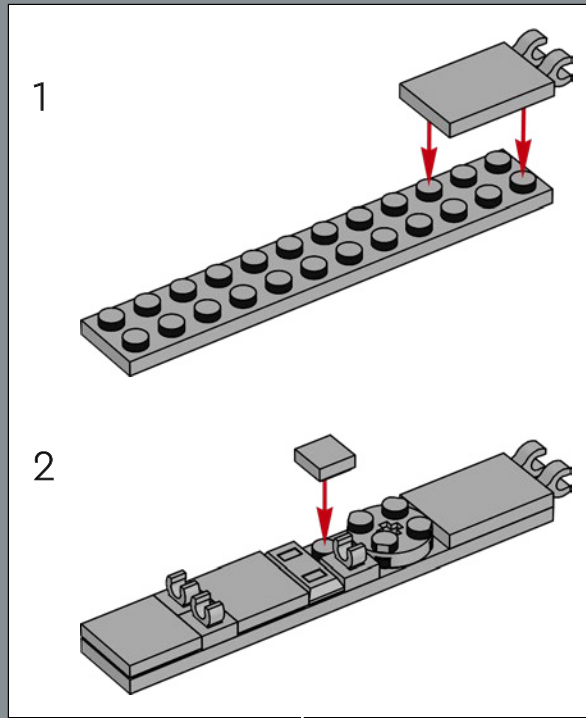


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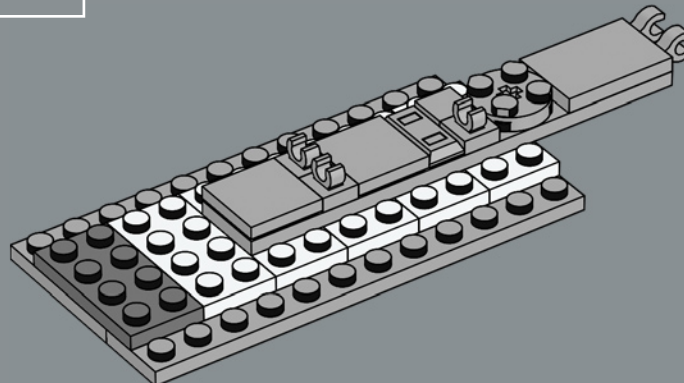




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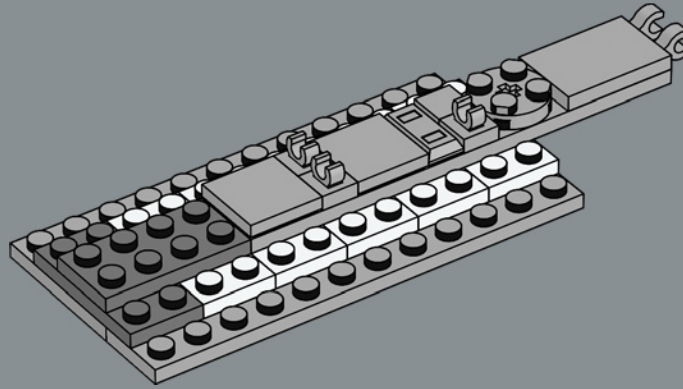
169





1x

170

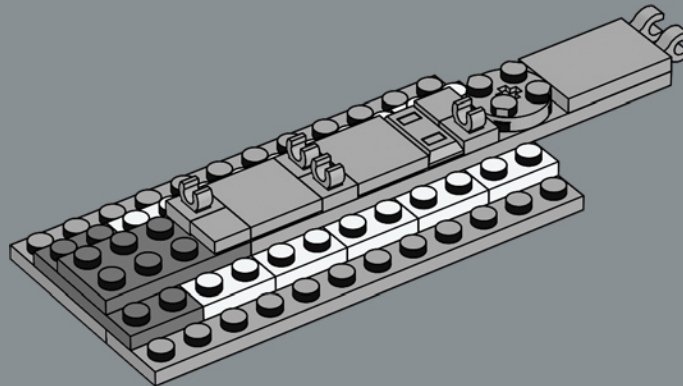


1x



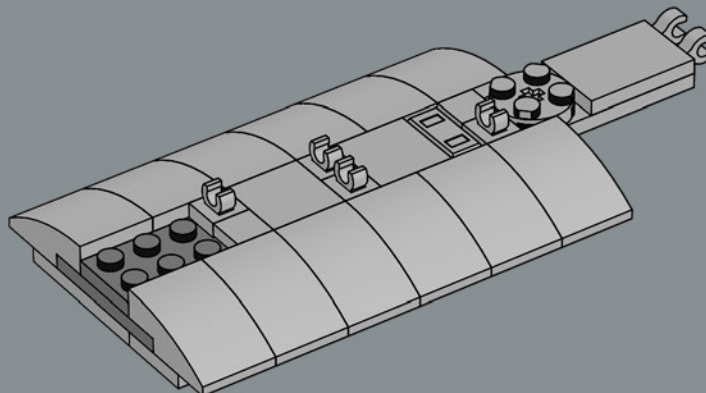
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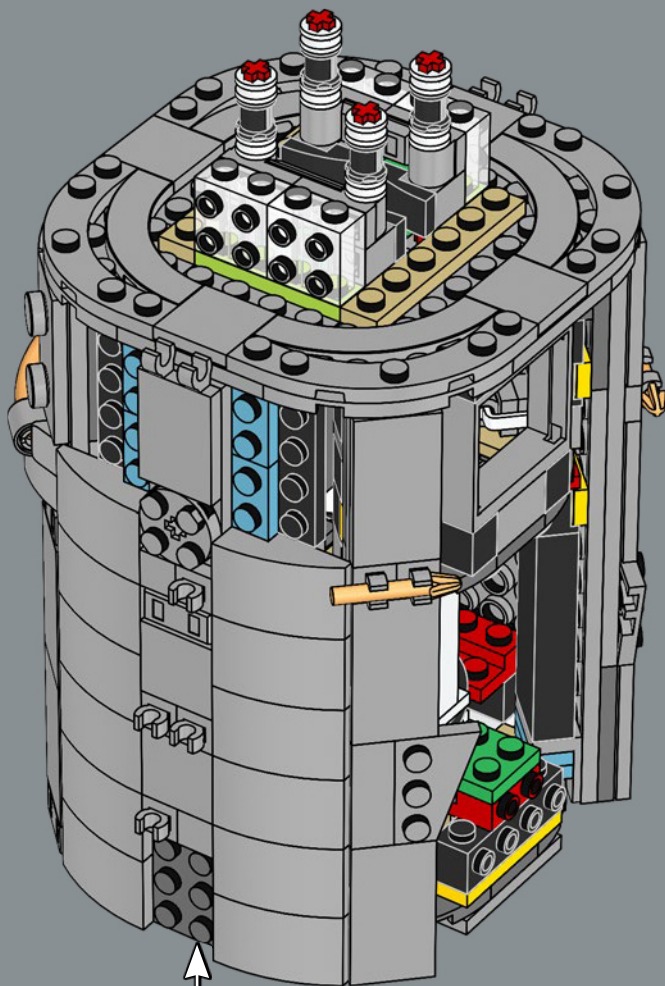


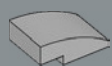
12x

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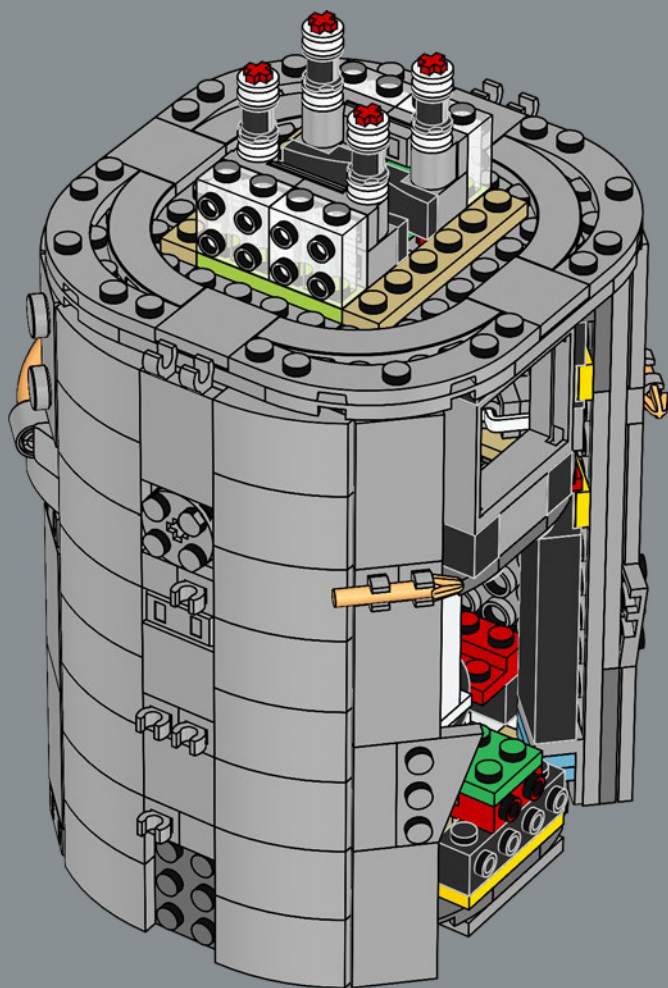
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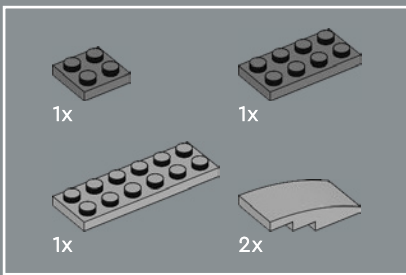




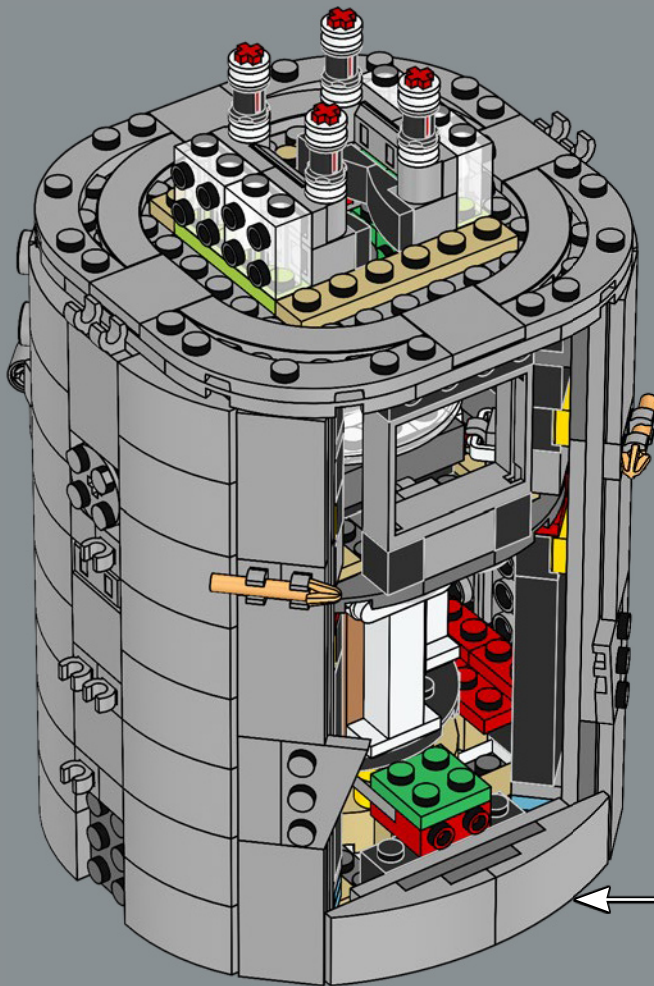
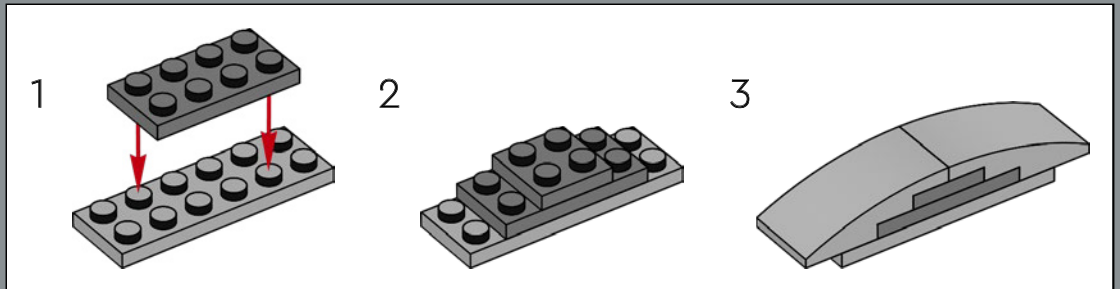
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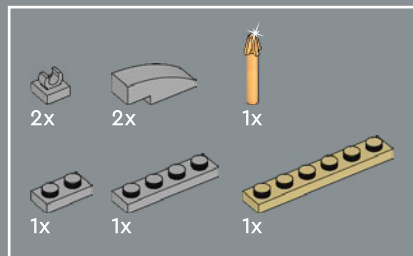
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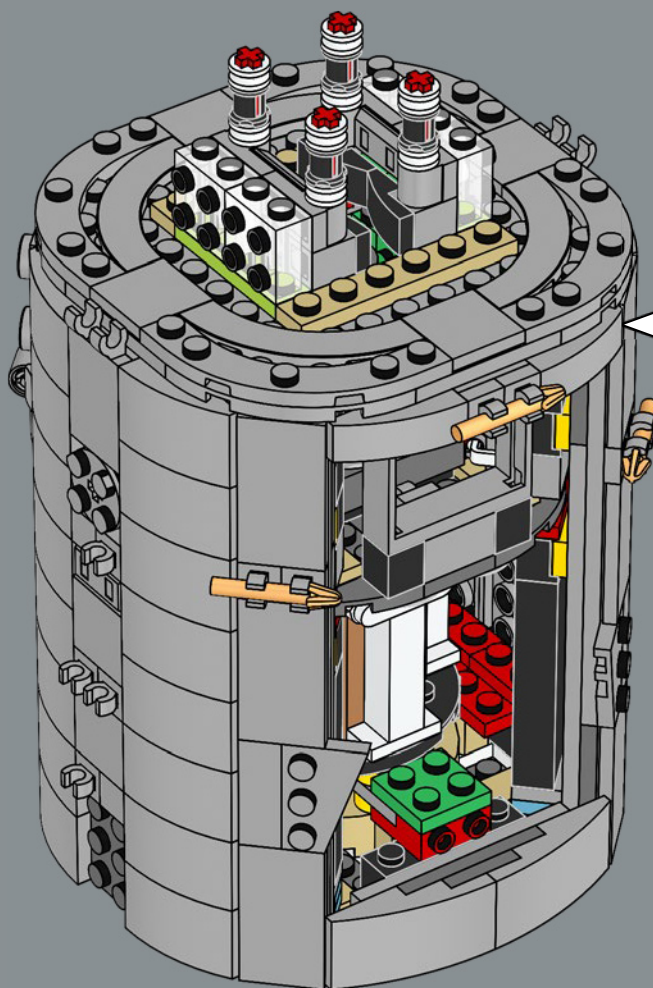
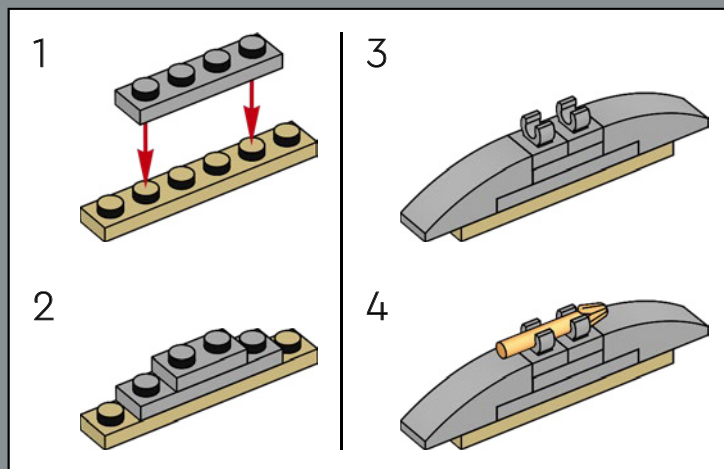


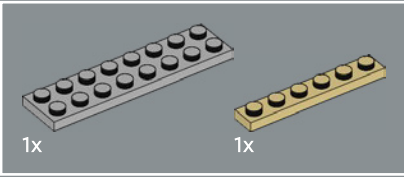
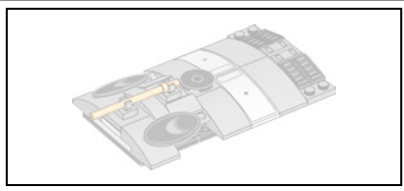
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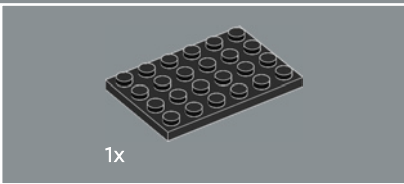
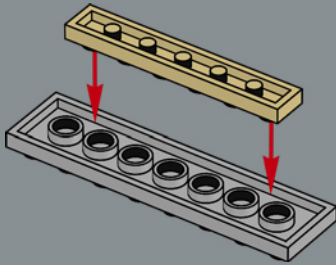


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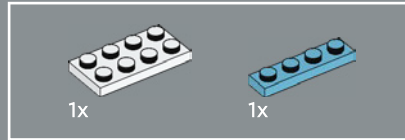
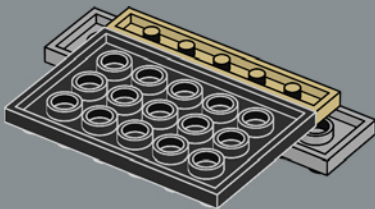




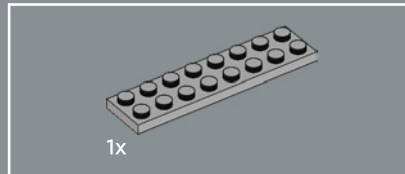
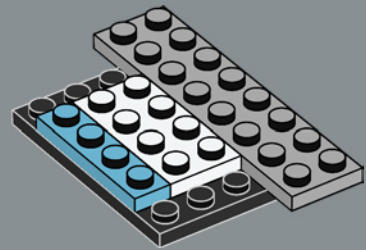
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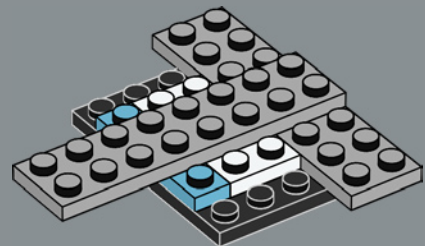
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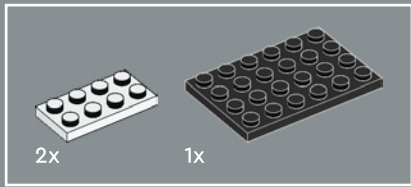


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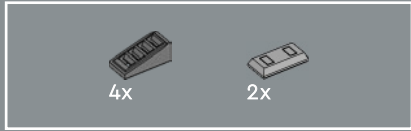
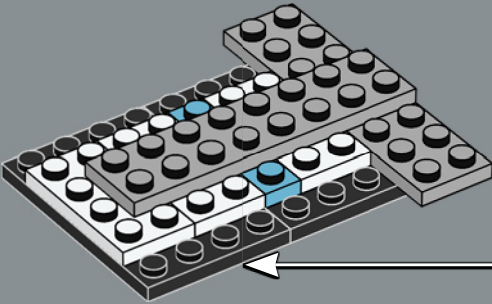
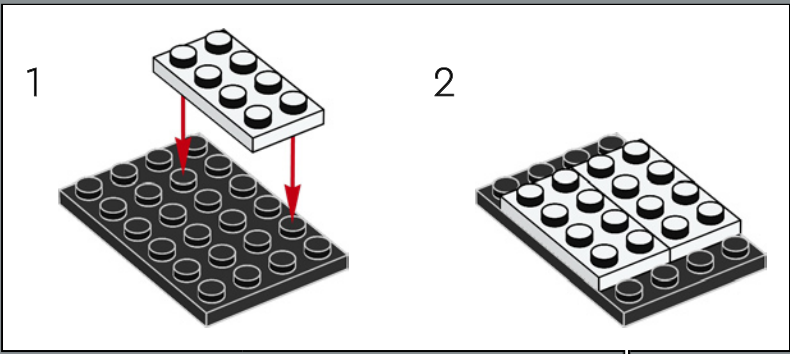


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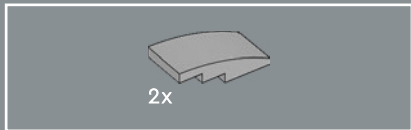
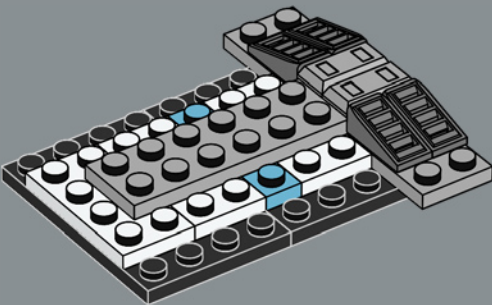




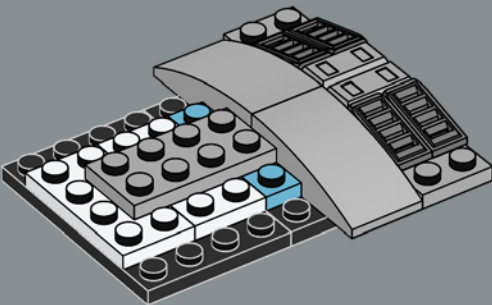
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182

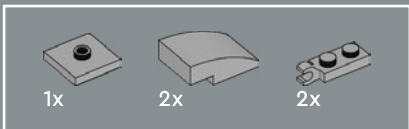
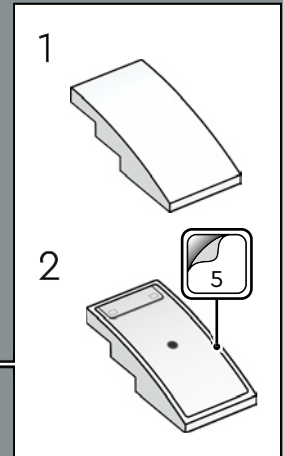
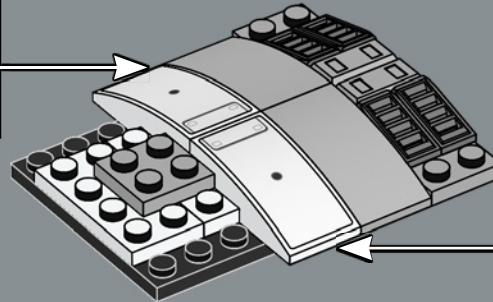
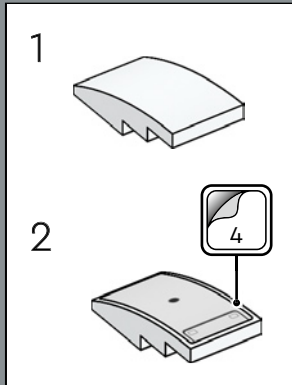


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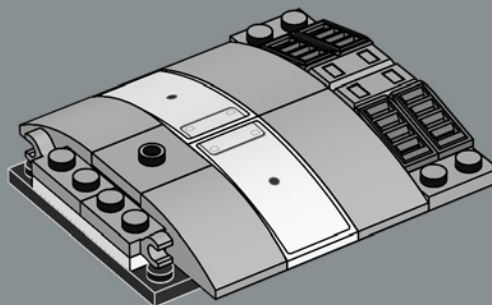


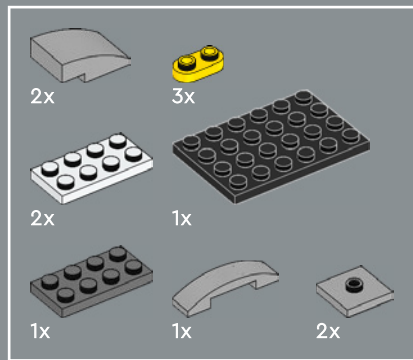


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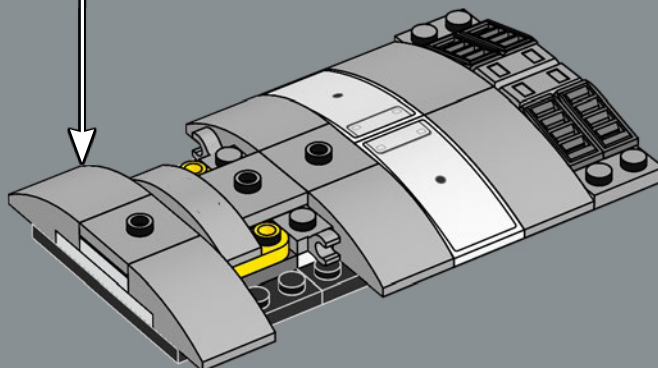
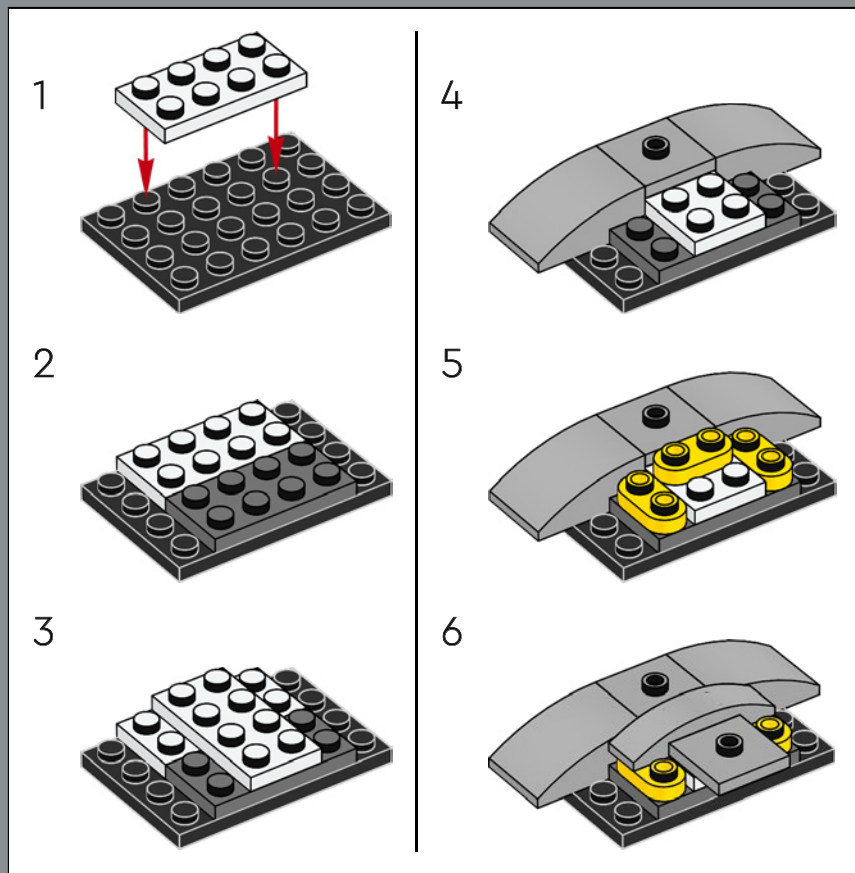


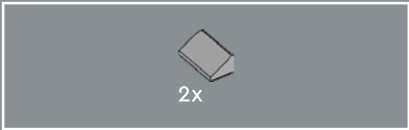
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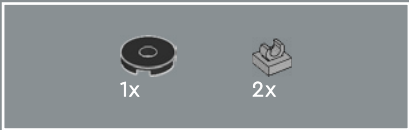
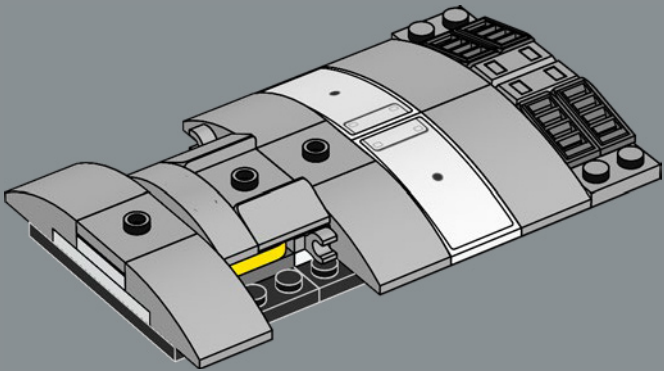


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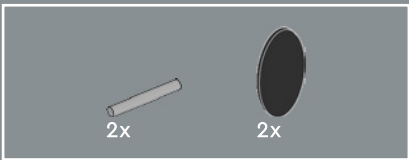
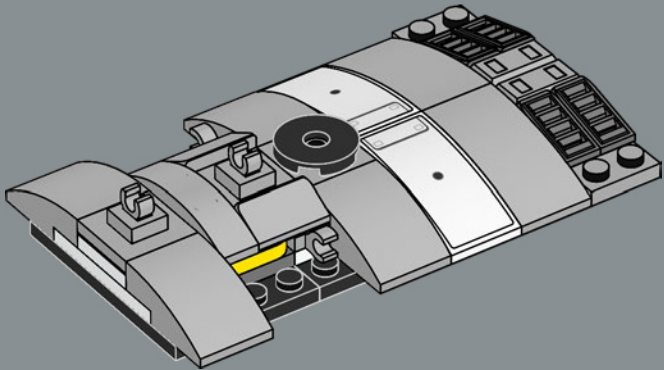




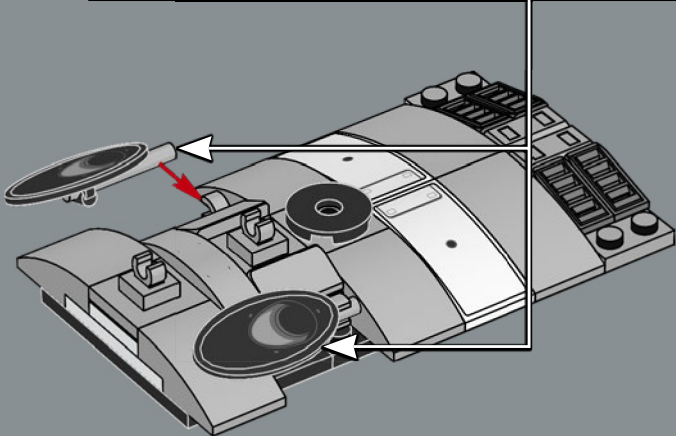
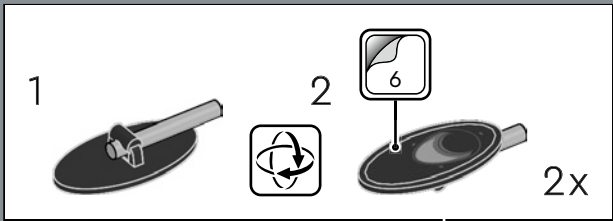
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188

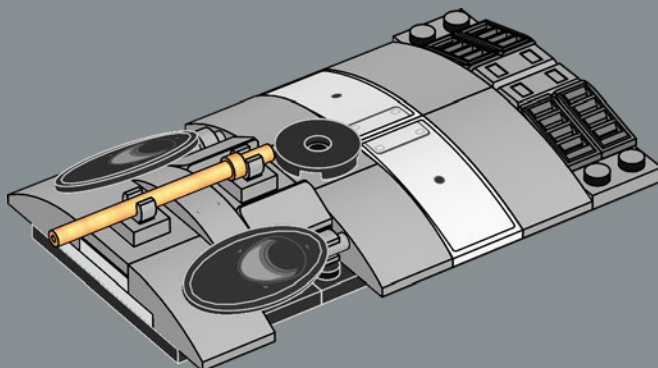


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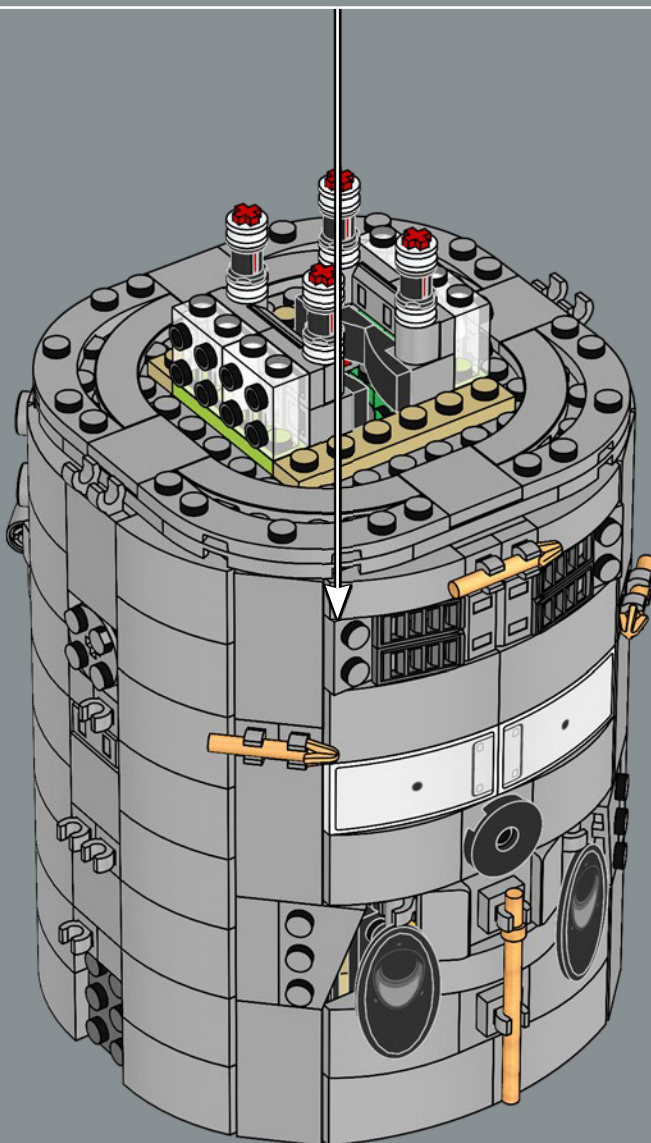


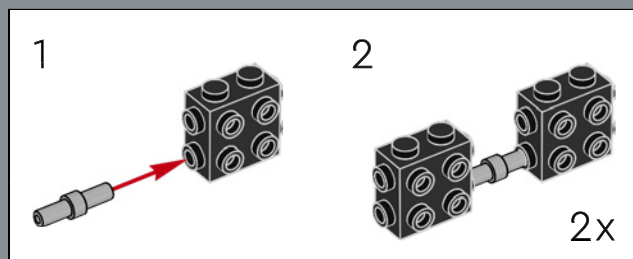
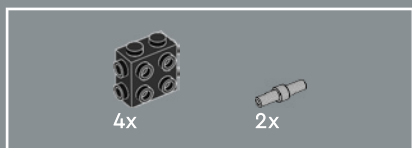


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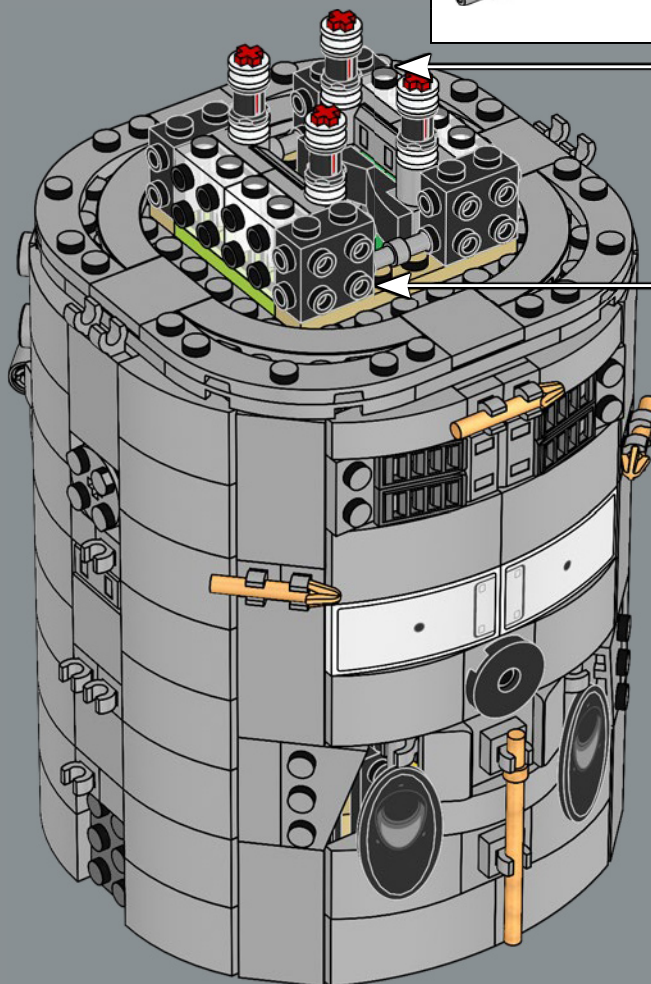


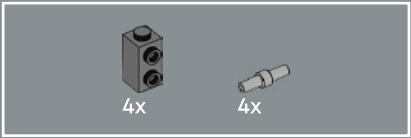
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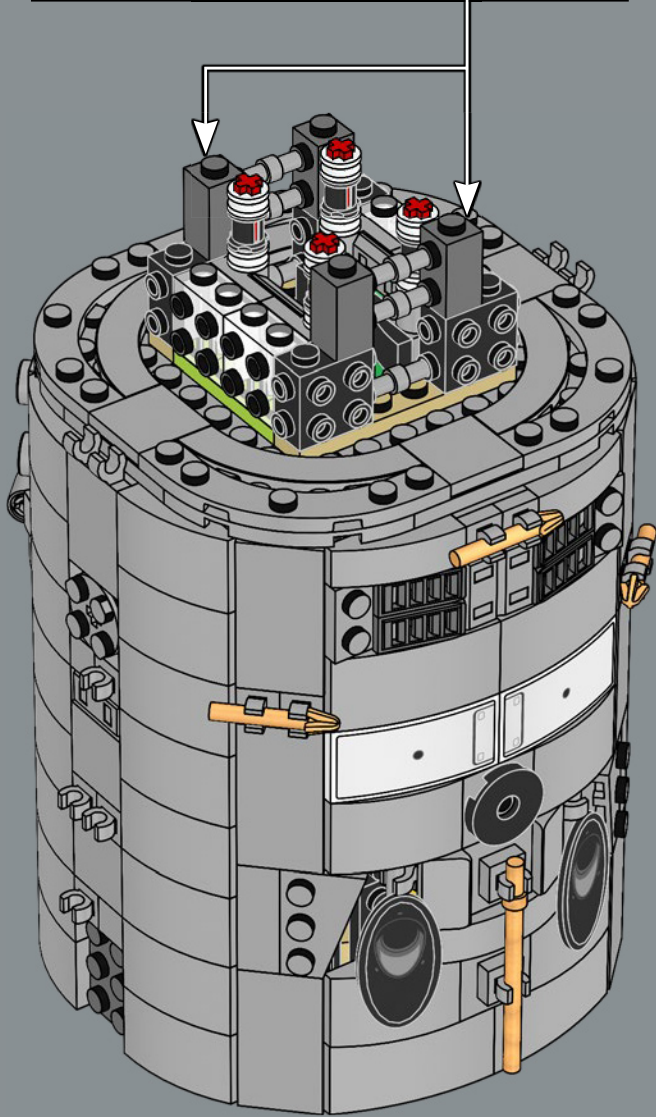
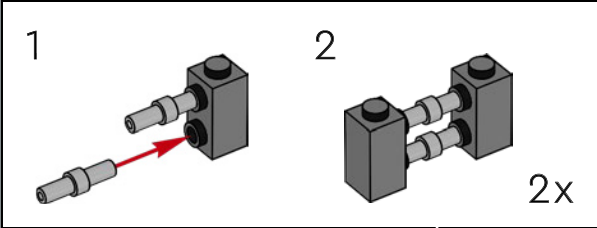


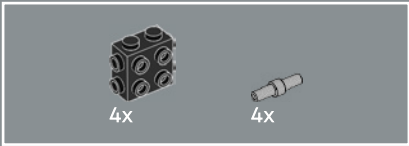
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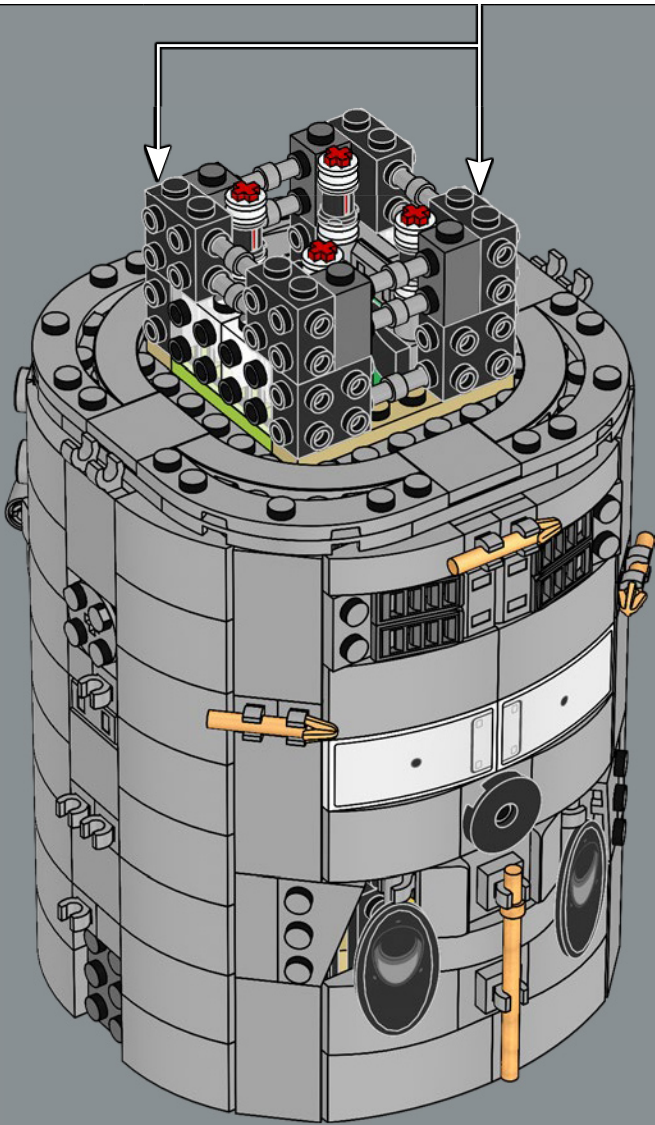
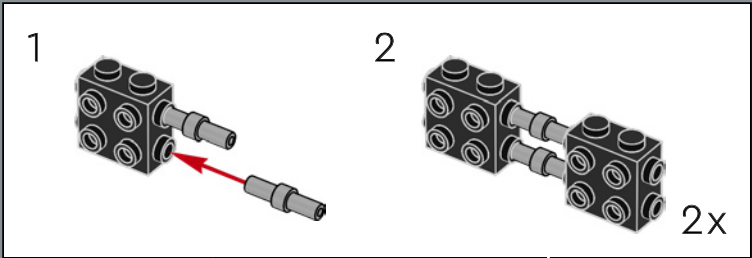


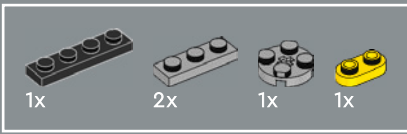
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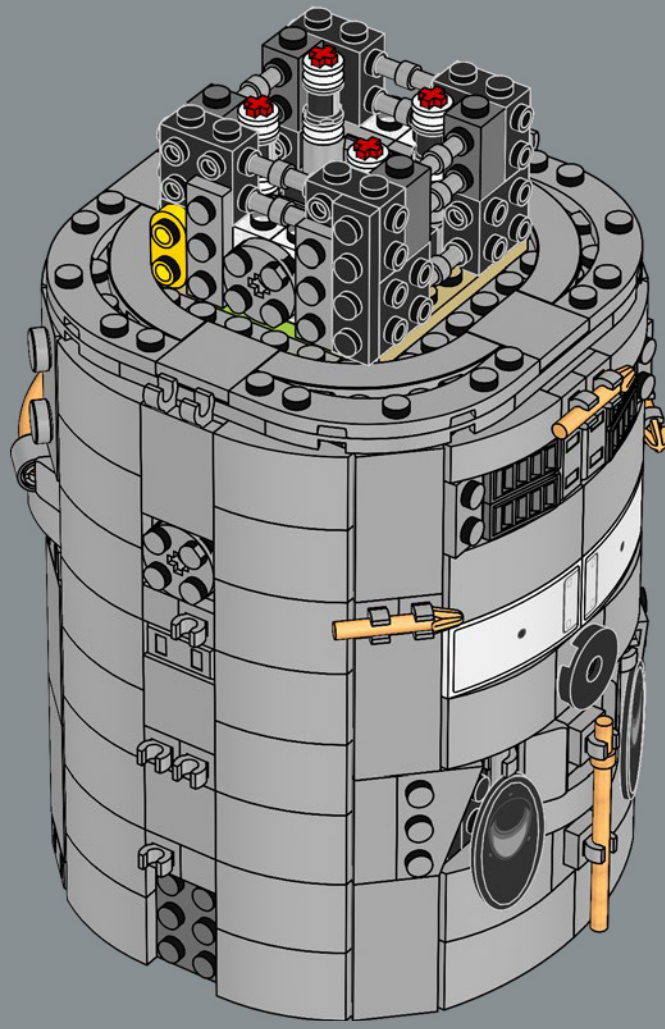


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195



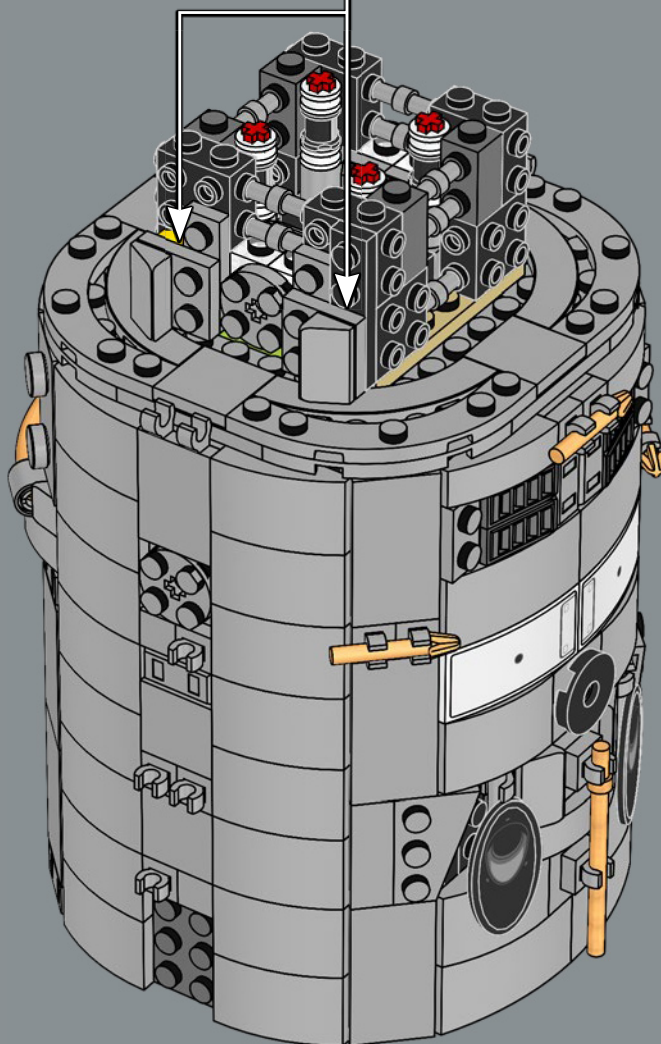
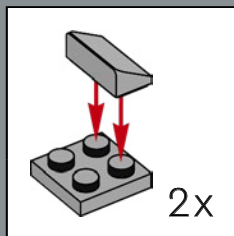


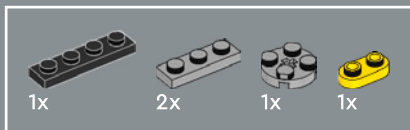
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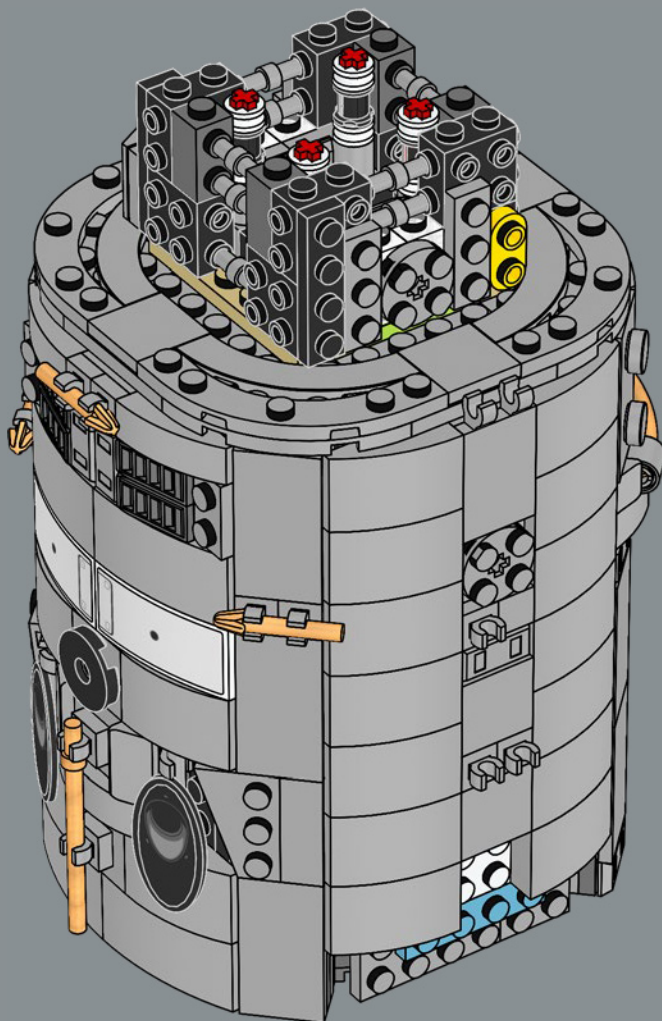
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196





197



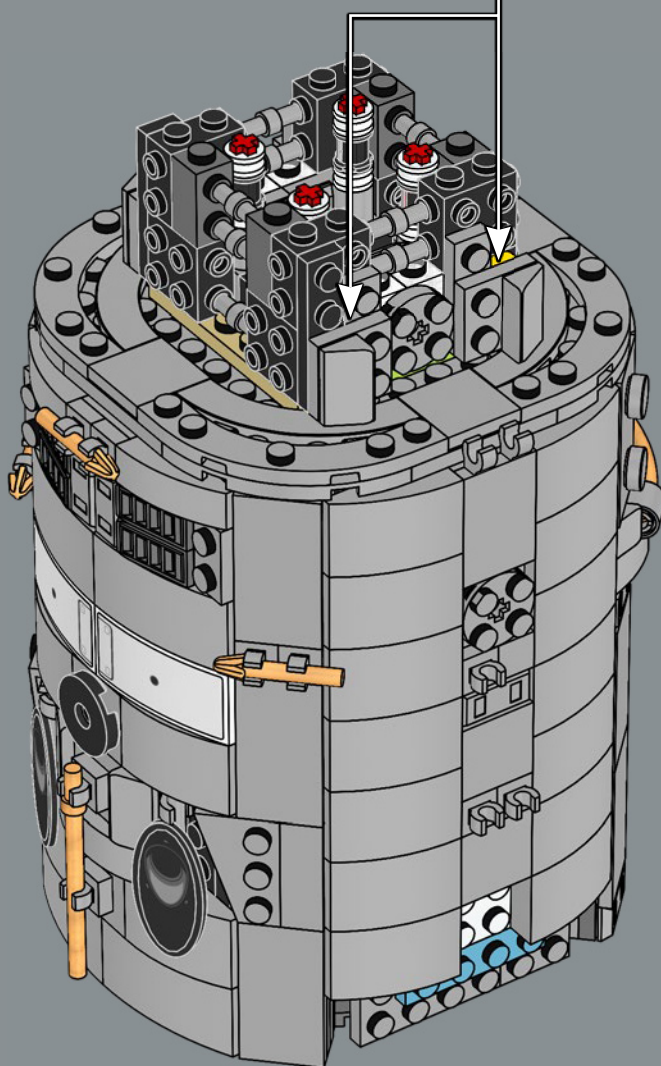
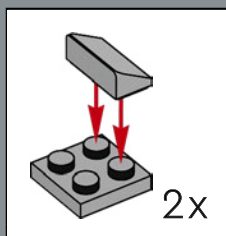


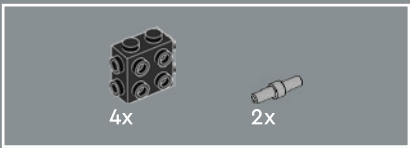
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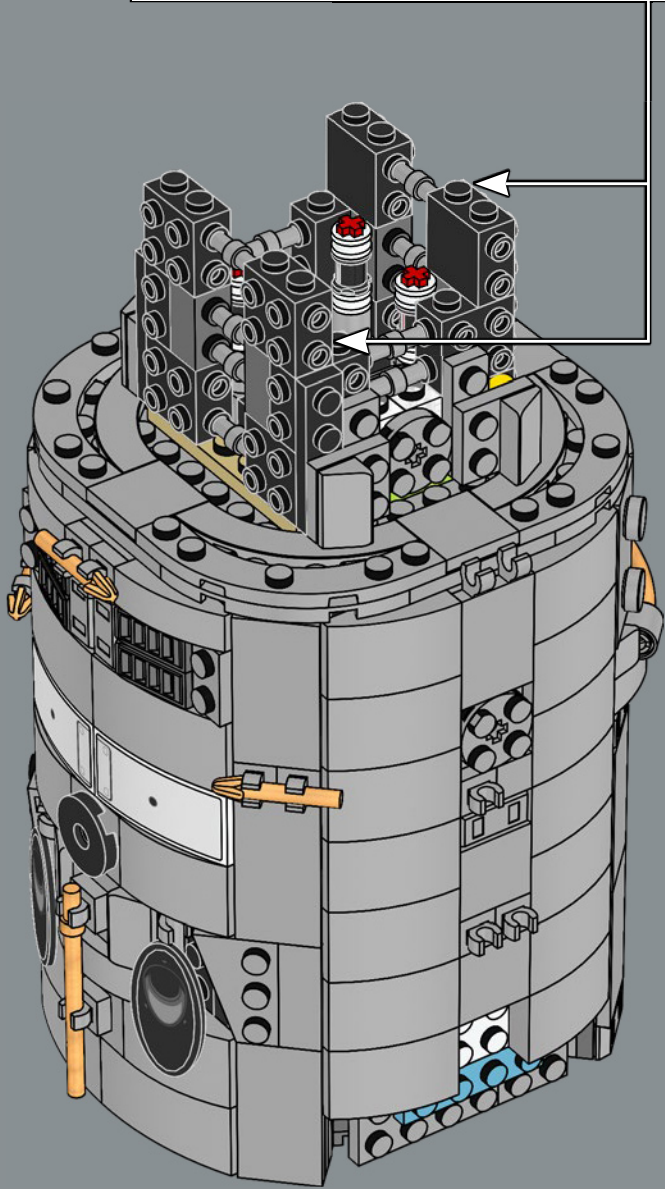
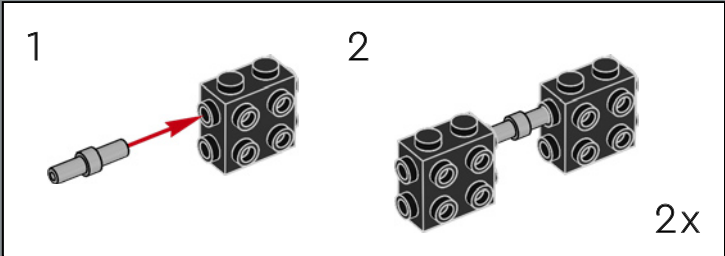
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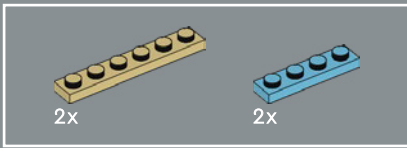
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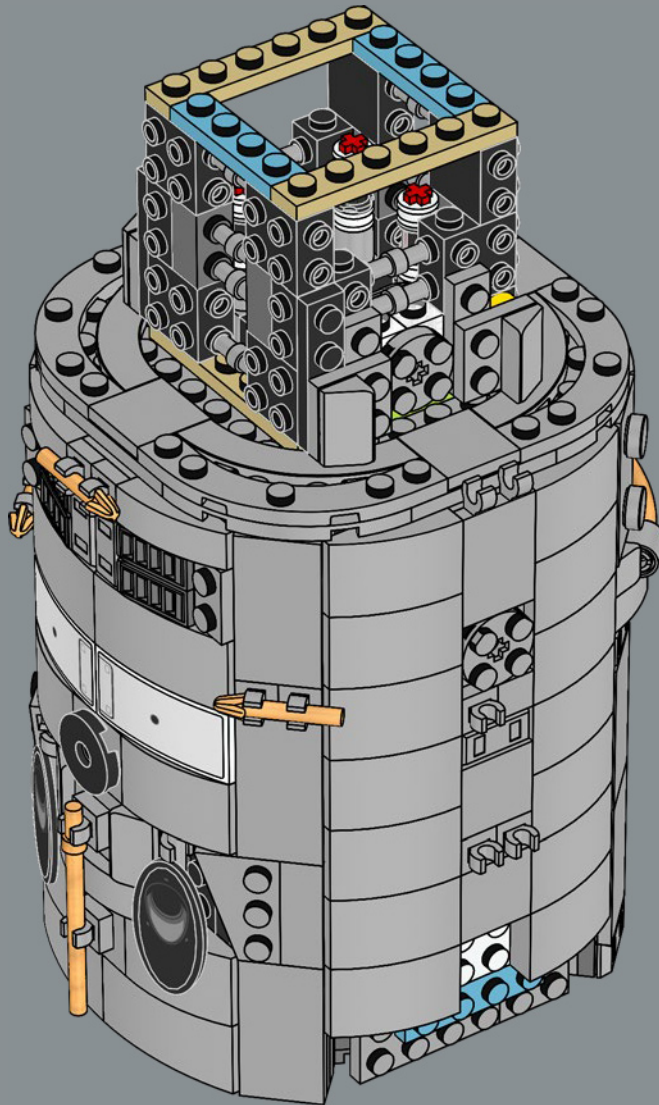


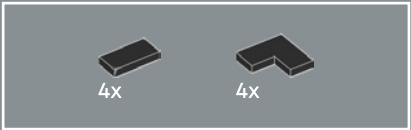
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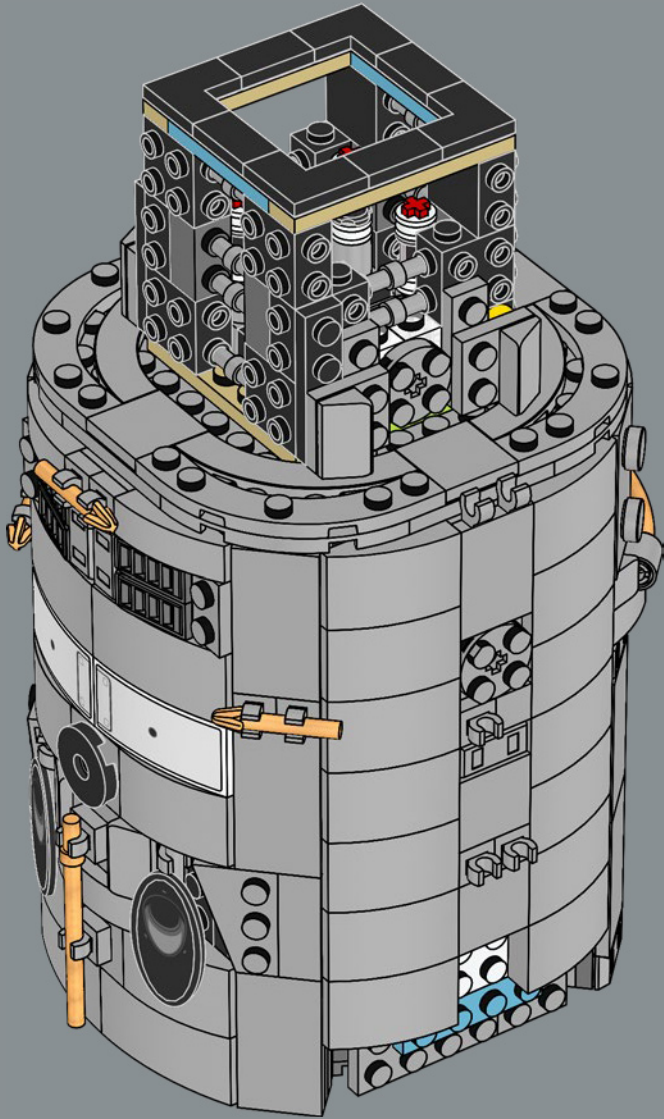


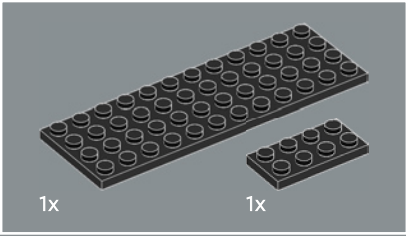
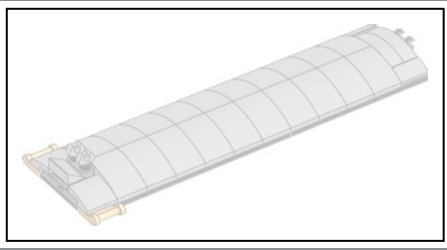
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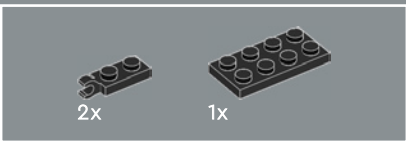
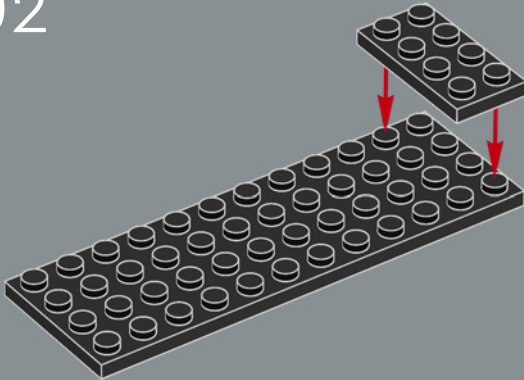


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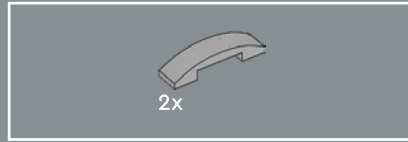
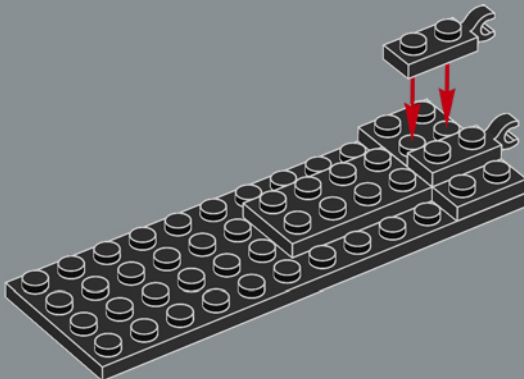




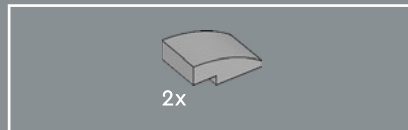
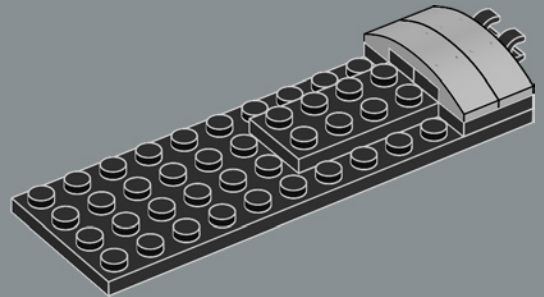
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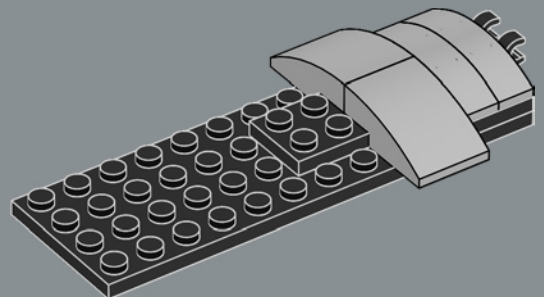
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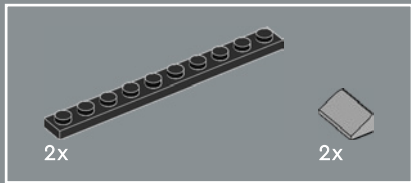


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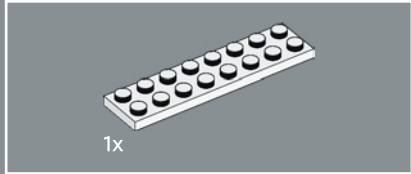
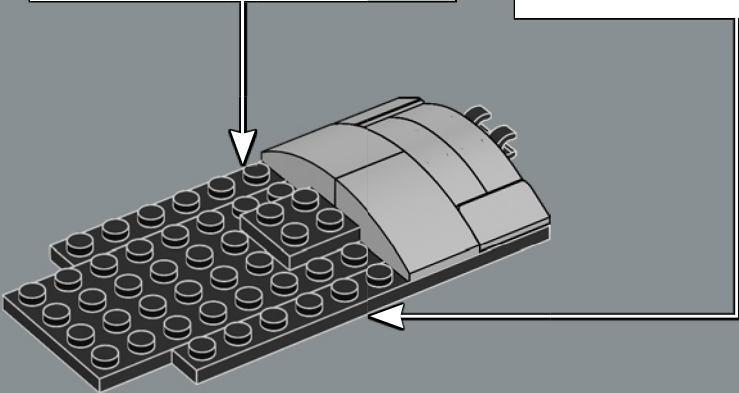
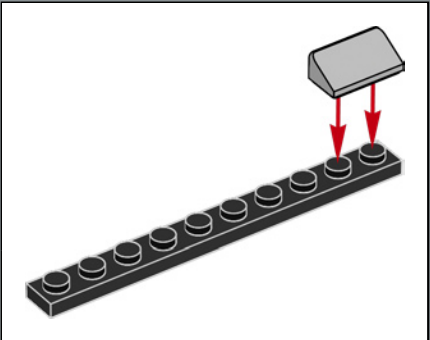
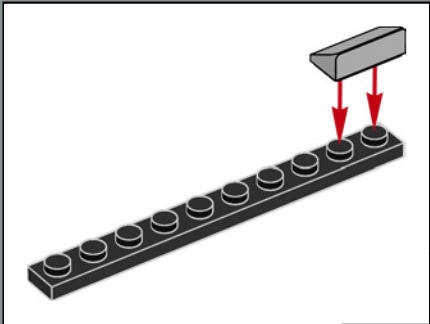


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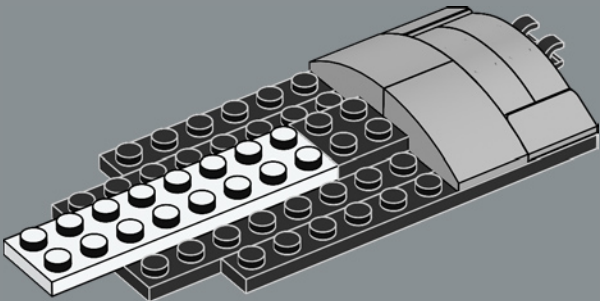


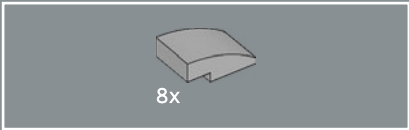


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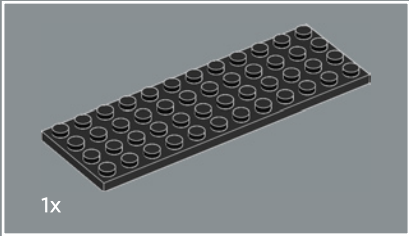
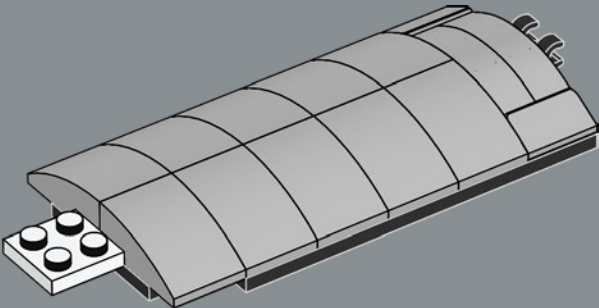


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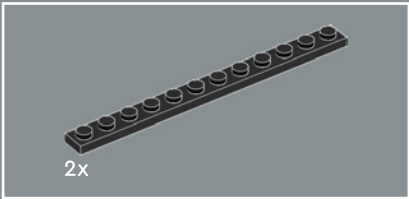
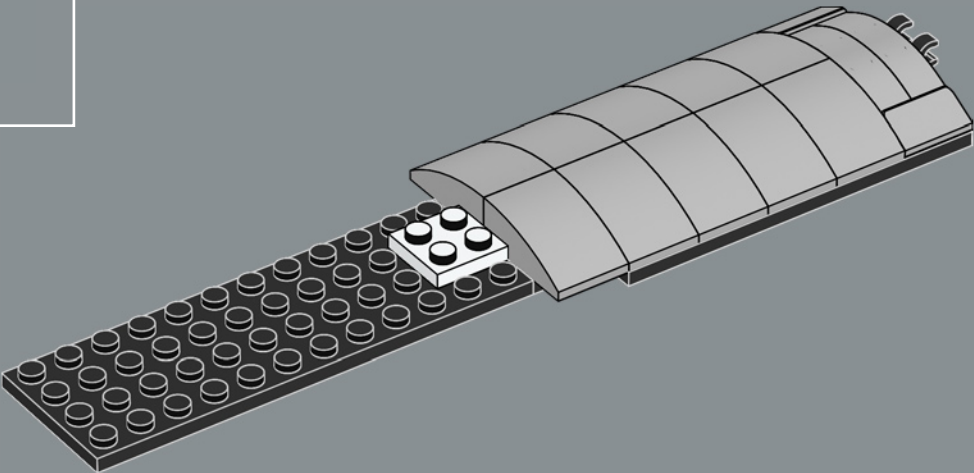




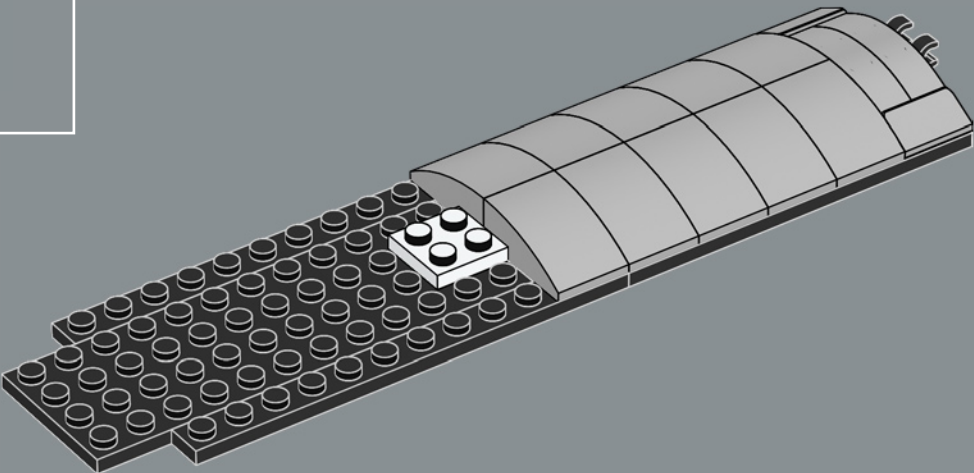
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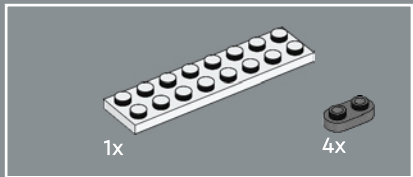


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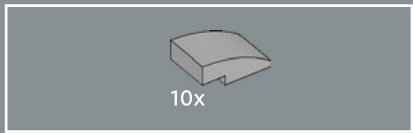
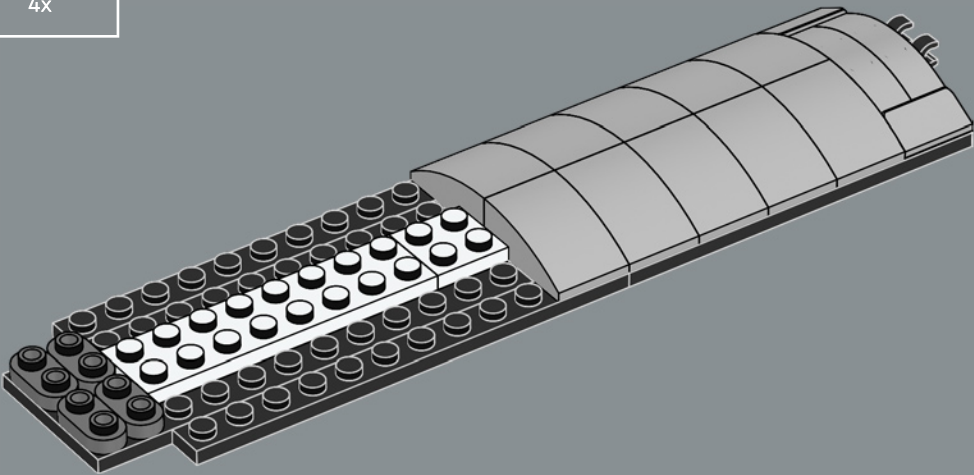


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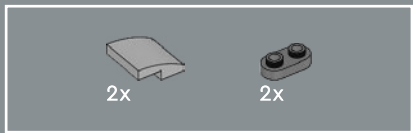
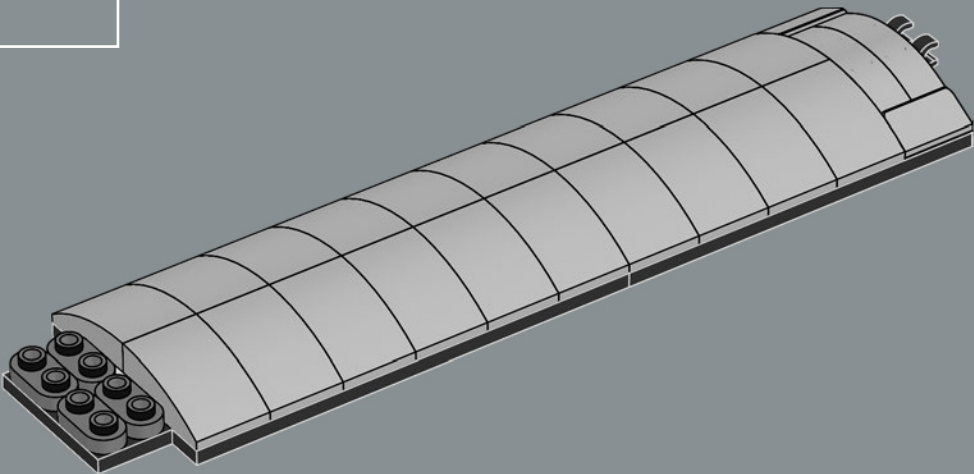




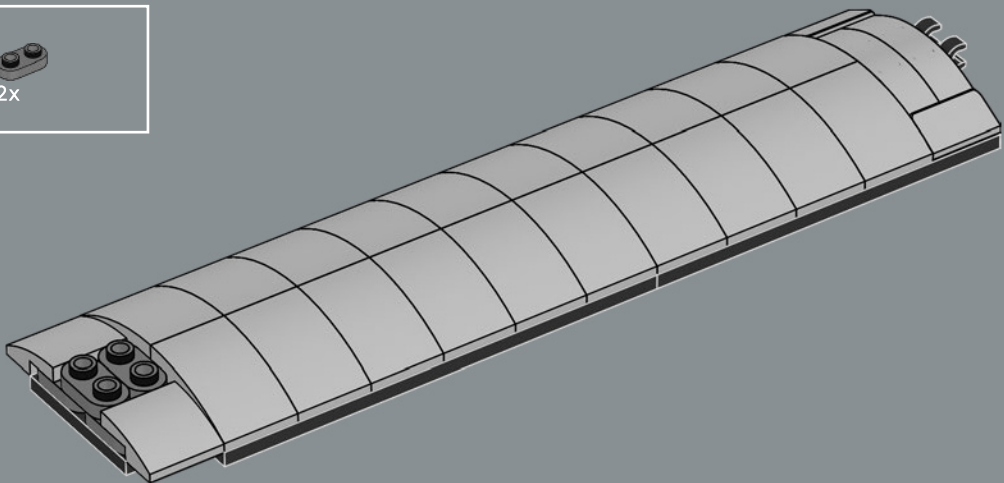
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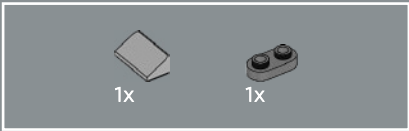
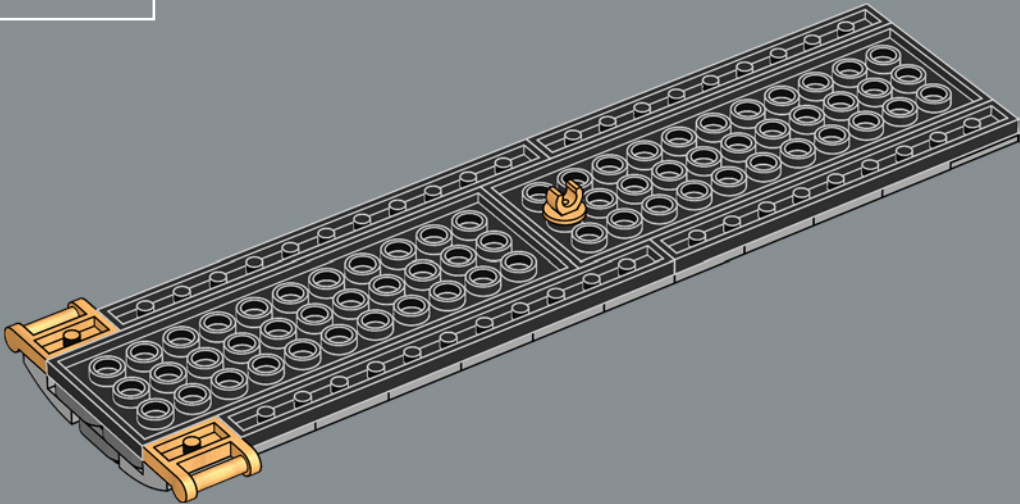


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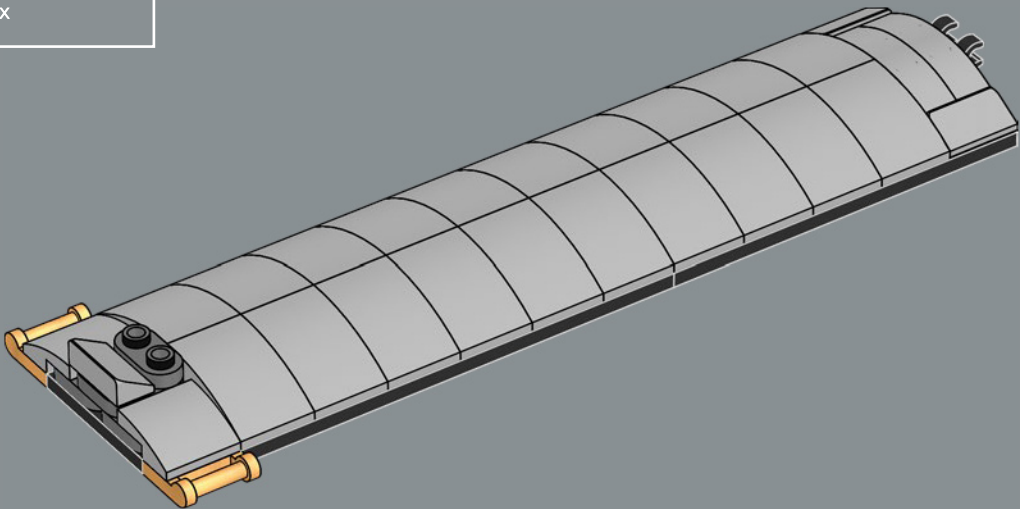




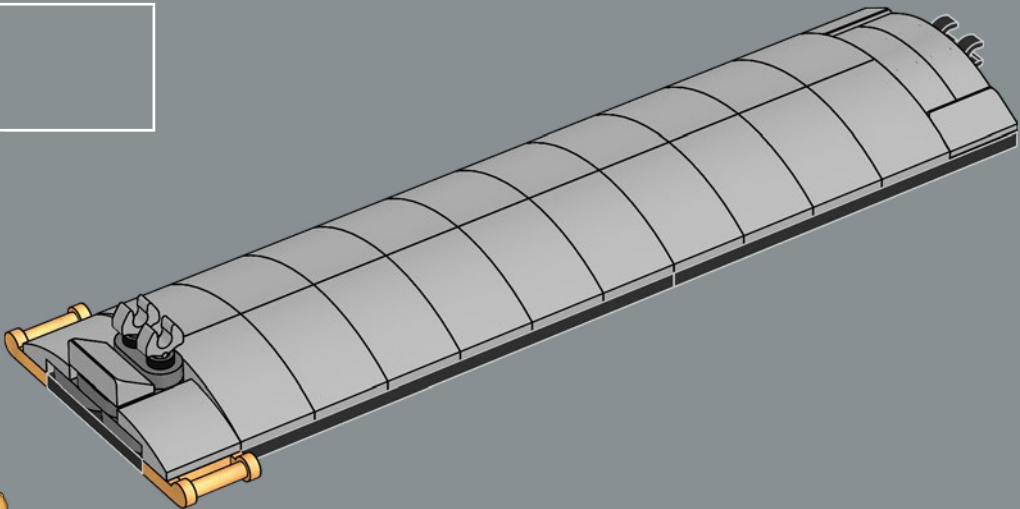
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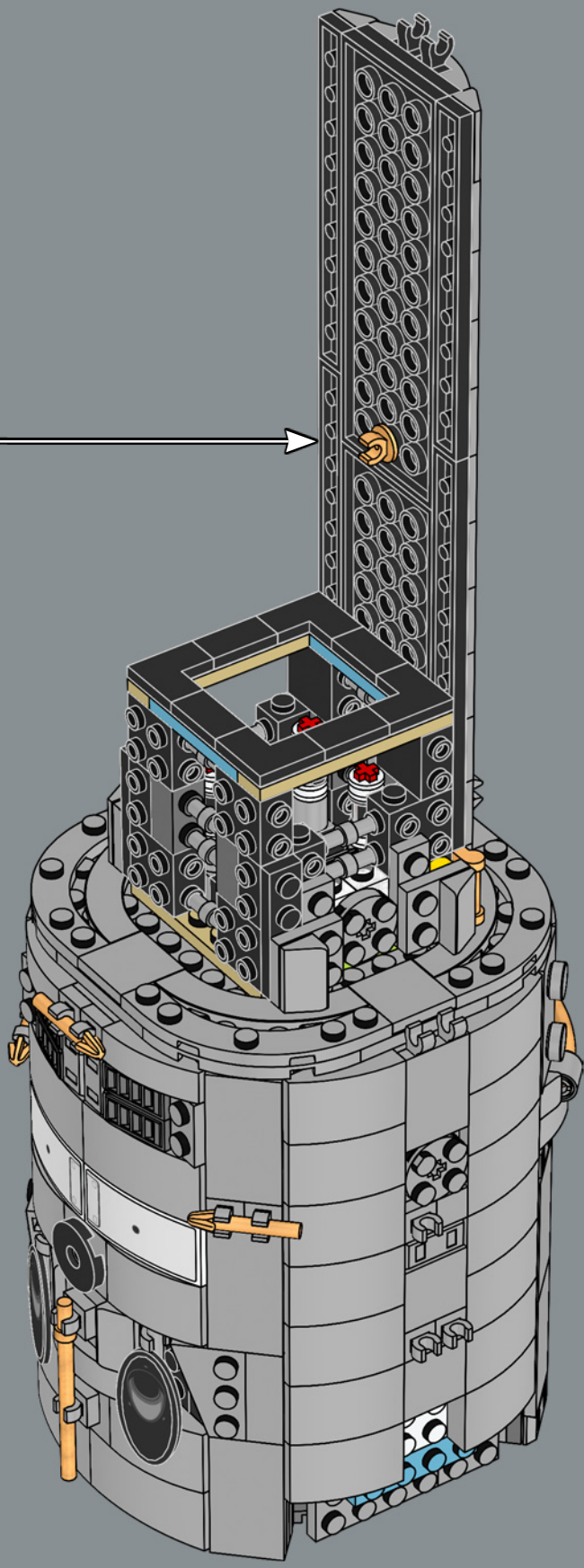


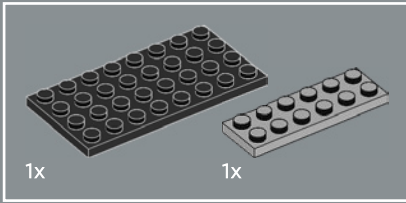
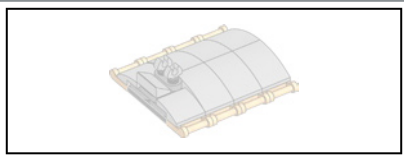
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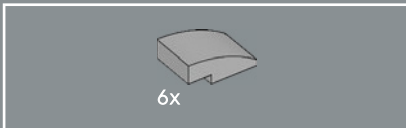
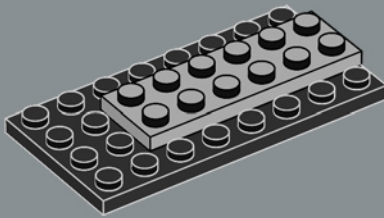
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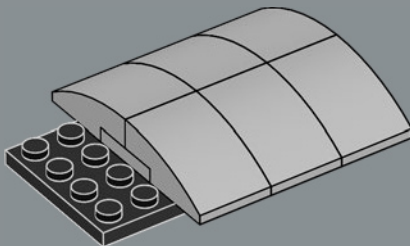




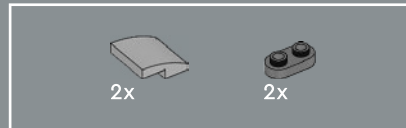
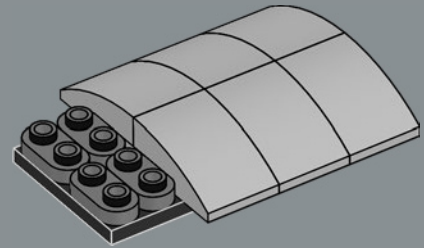
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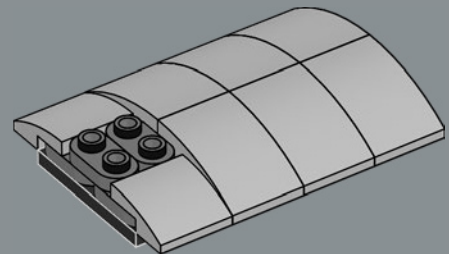
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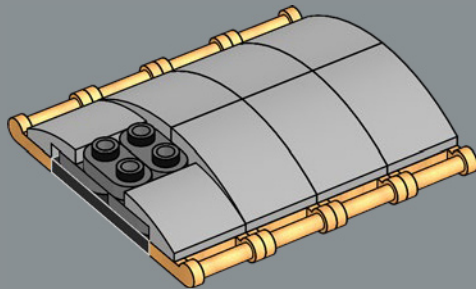
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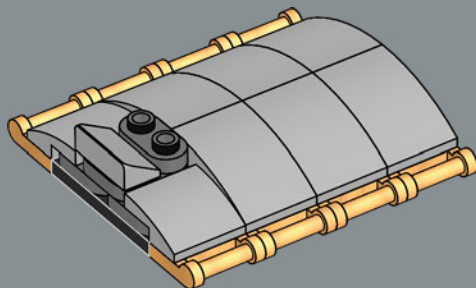


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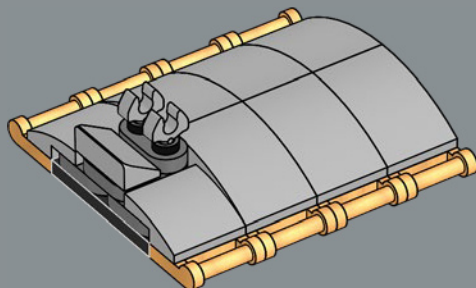
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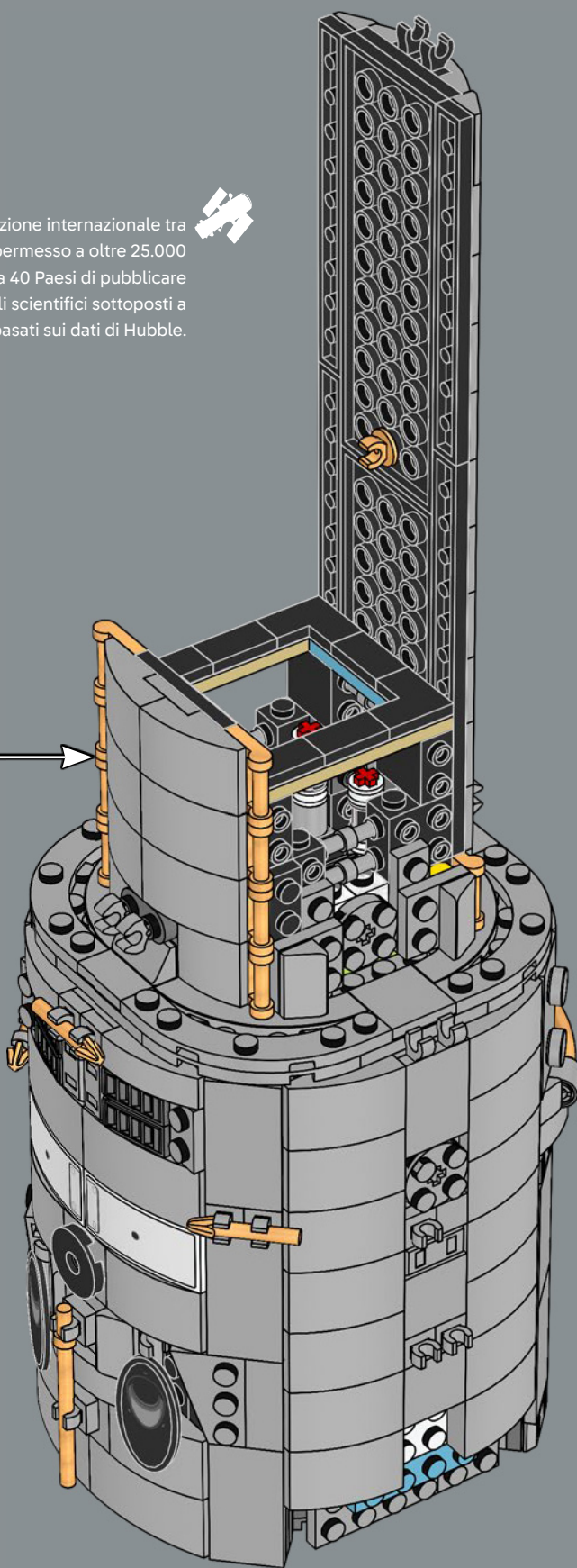


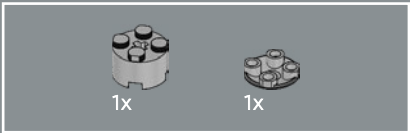
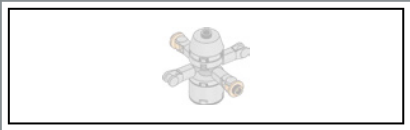
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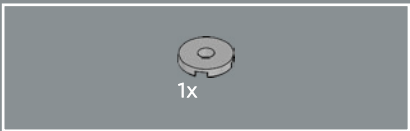
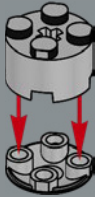


La stretta collaborazione internazionale tra NASA ed ESA ha permesso a oltre 25.000 astronomi di circa 40 Paesi di pubblicare 22.000 articoli scientifici sottoposti a revisione paritaria basati sui dati di Hubble.

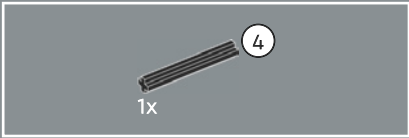




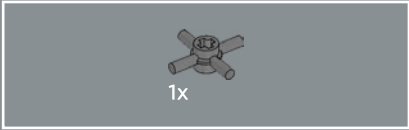
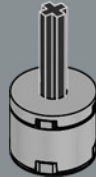
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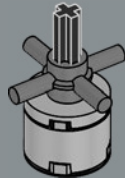
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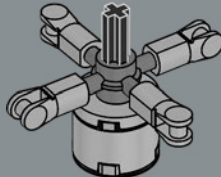
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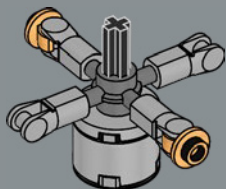
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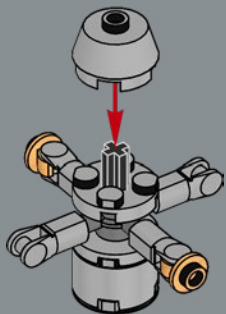


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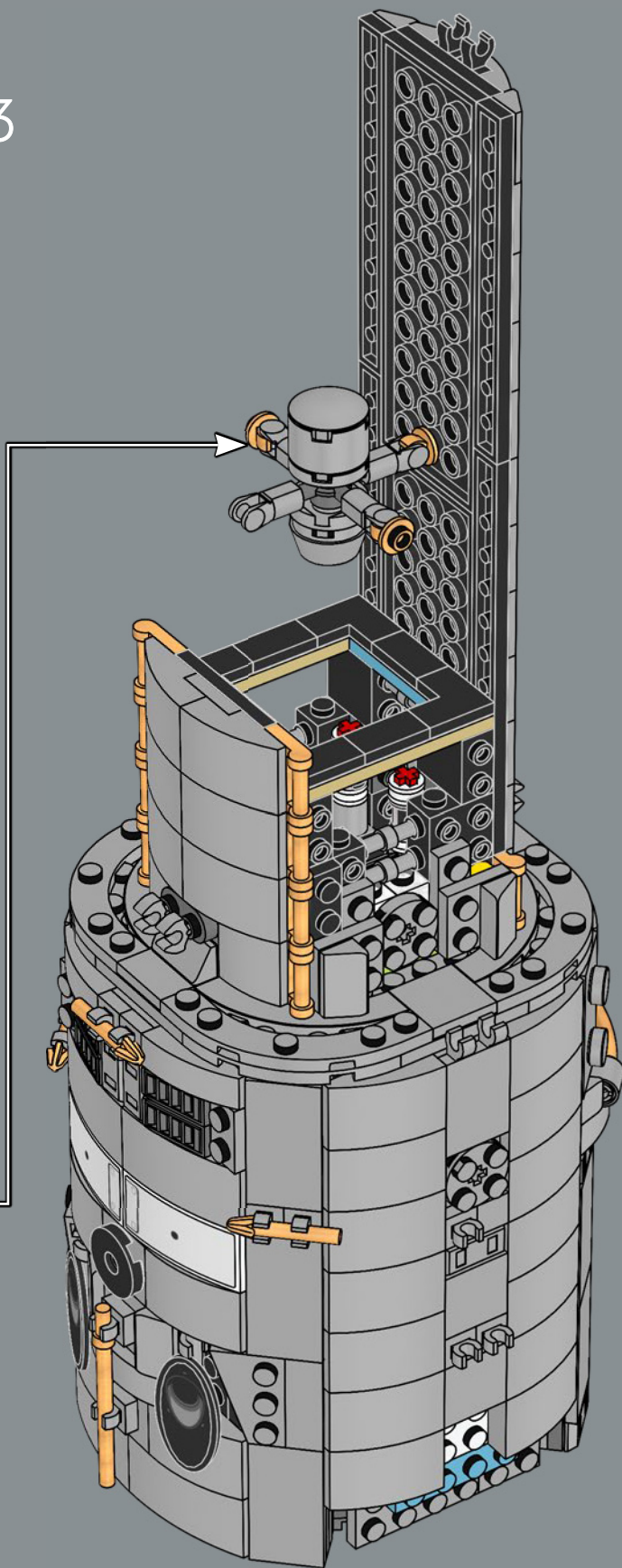


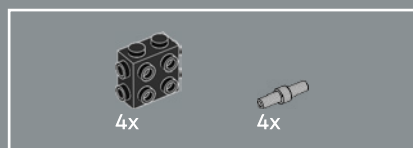
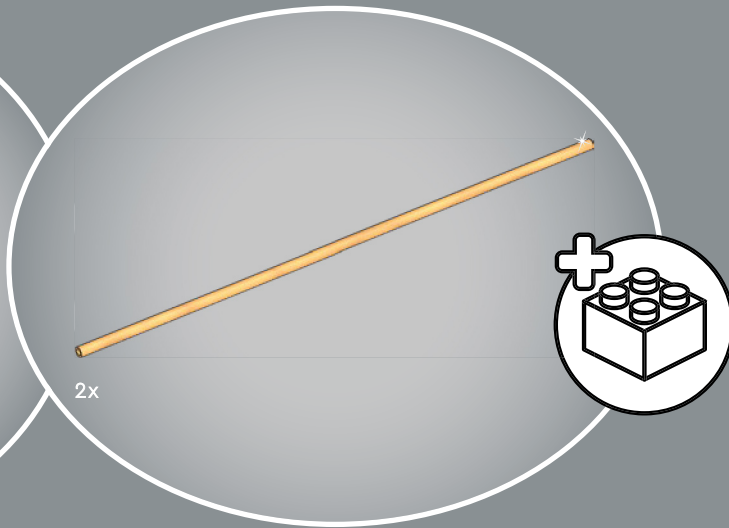
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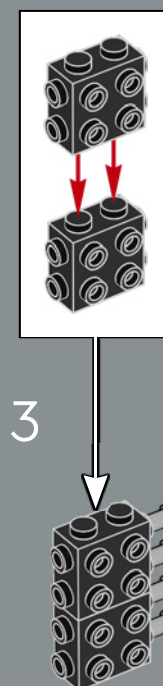
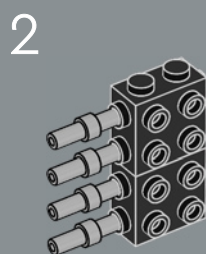
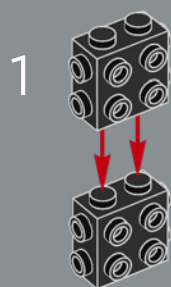


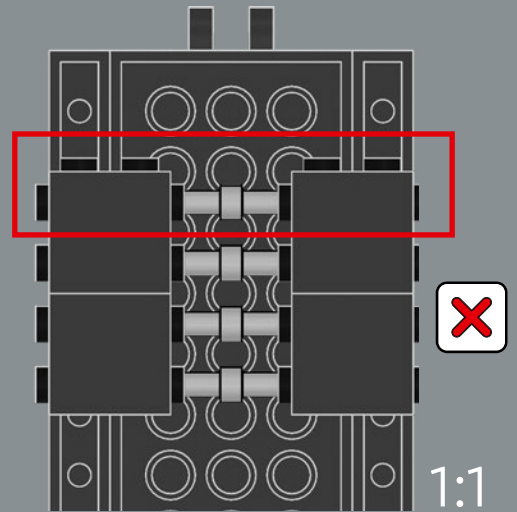
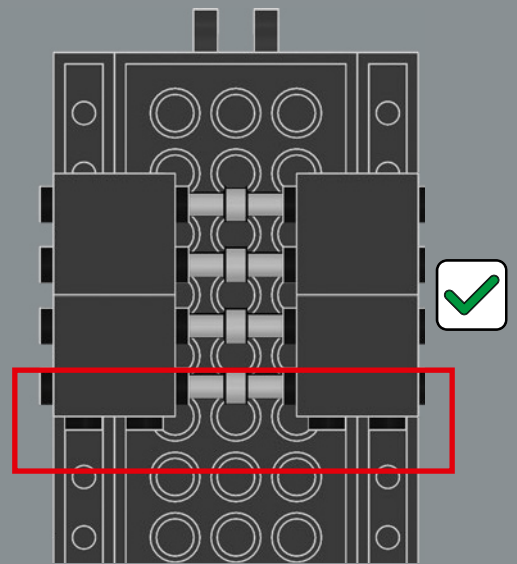
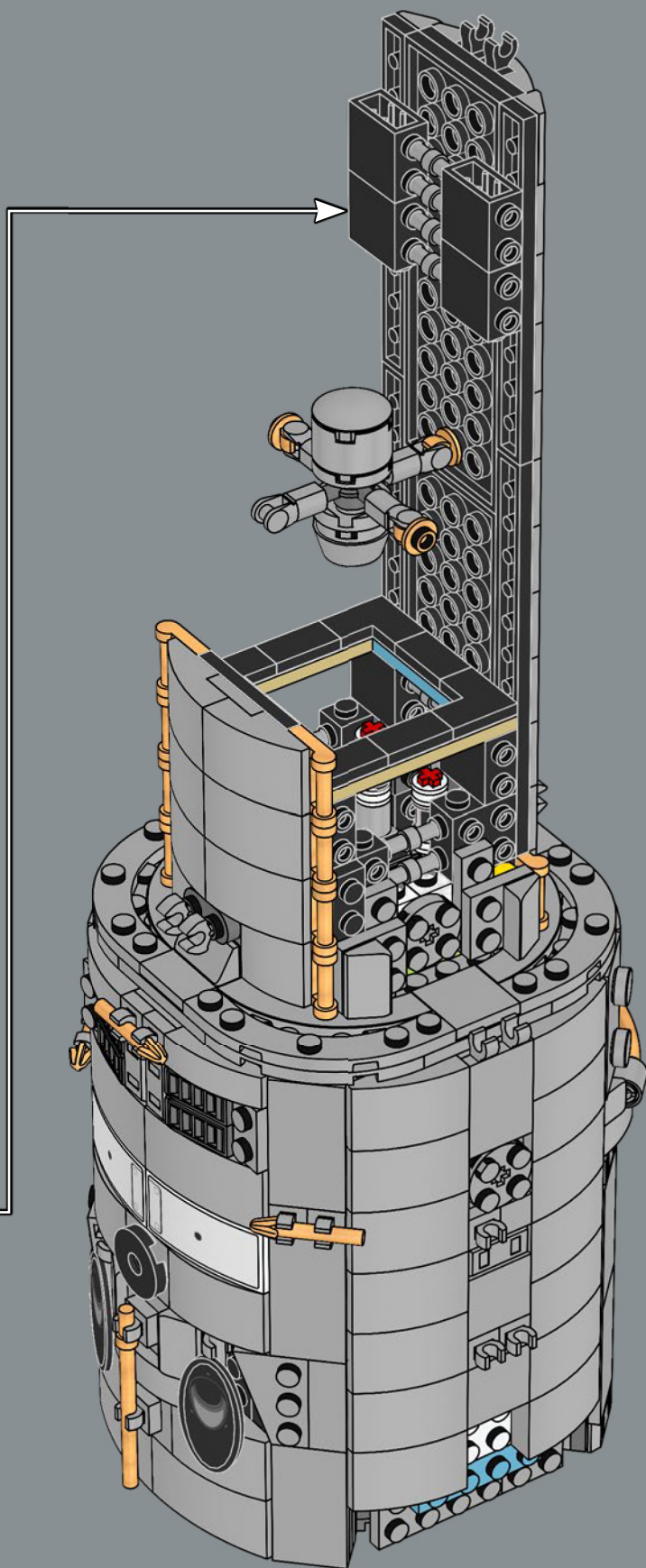
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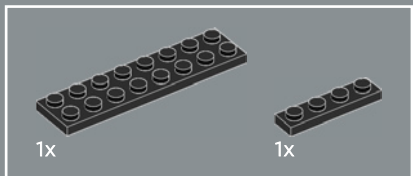
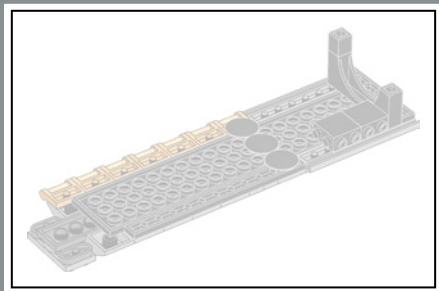




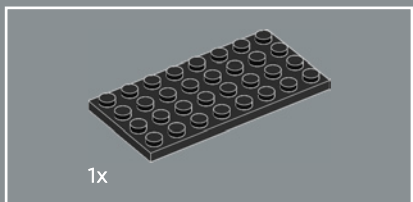
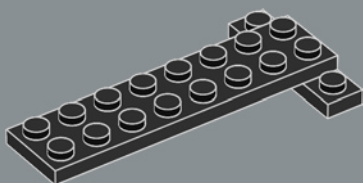
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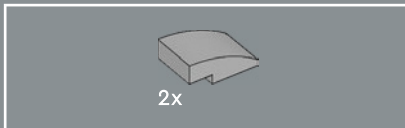
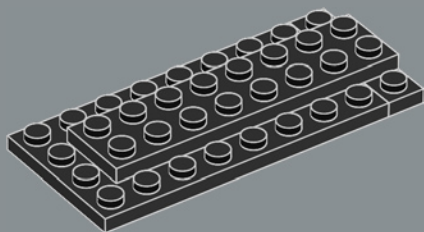




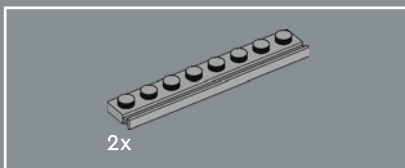
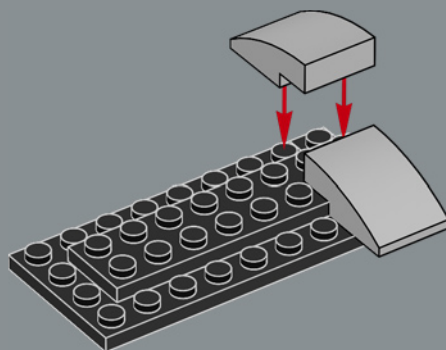
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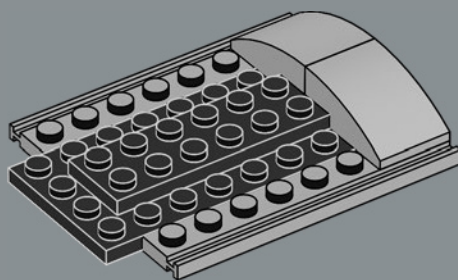
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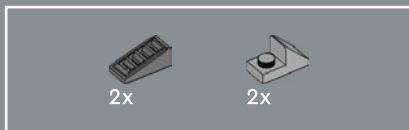


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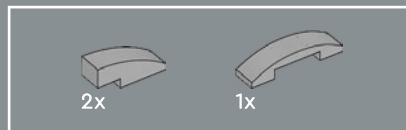
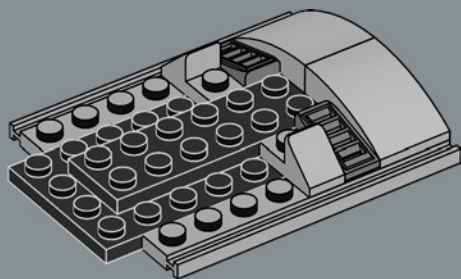


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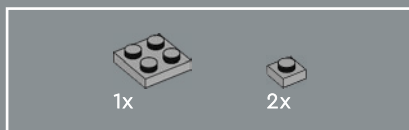
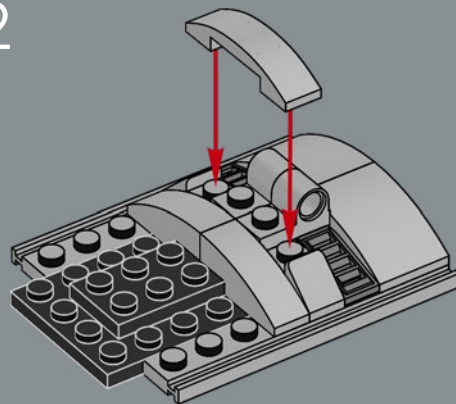




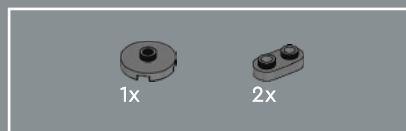
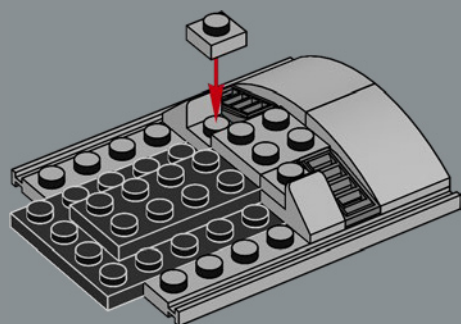
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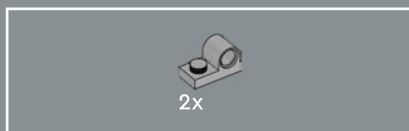
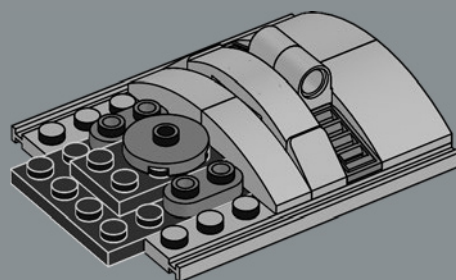
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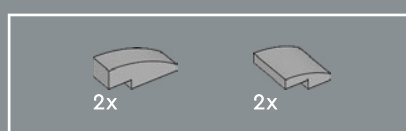
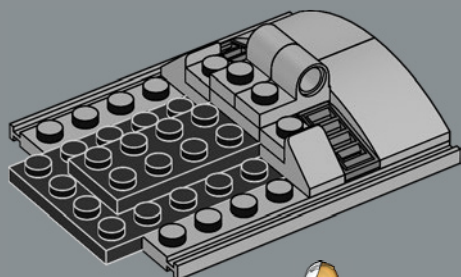
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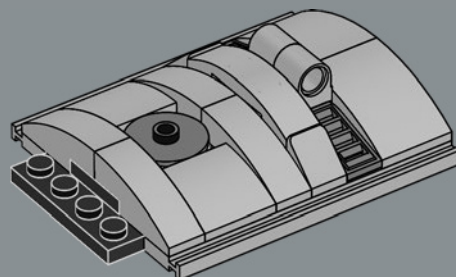
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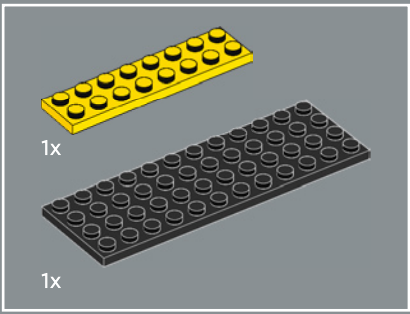


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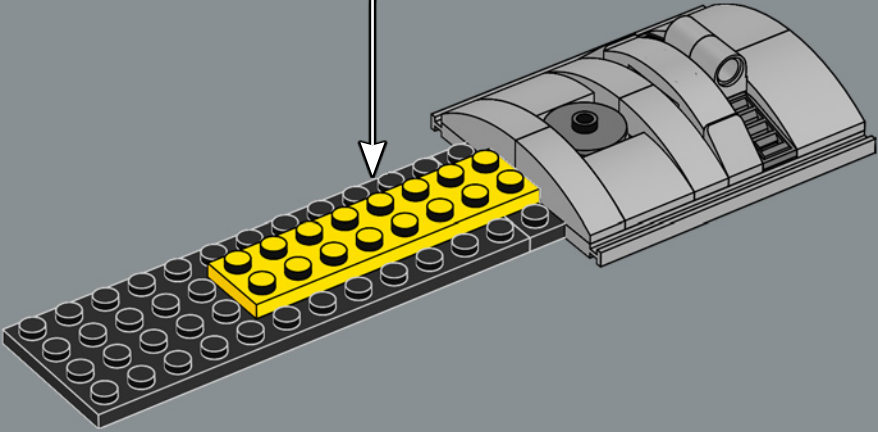
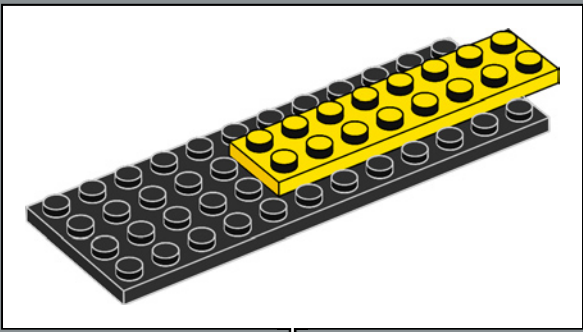


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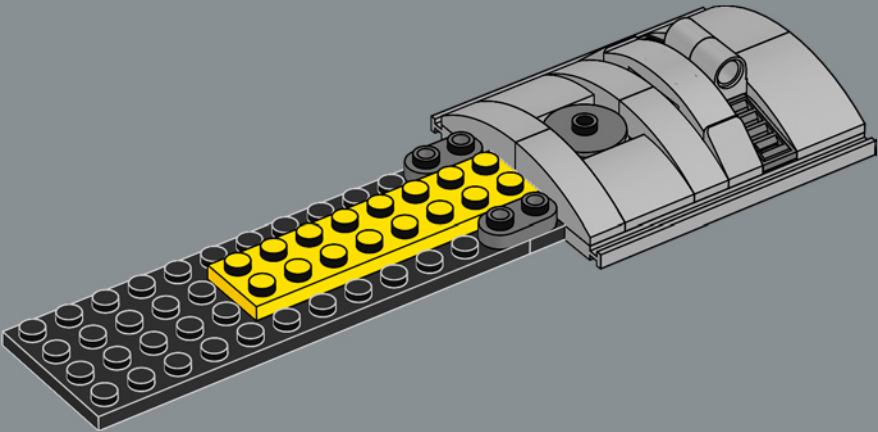


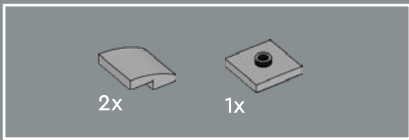


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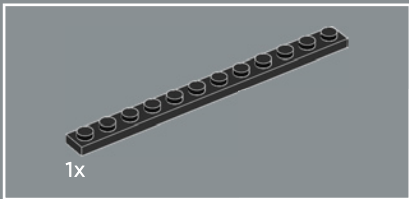
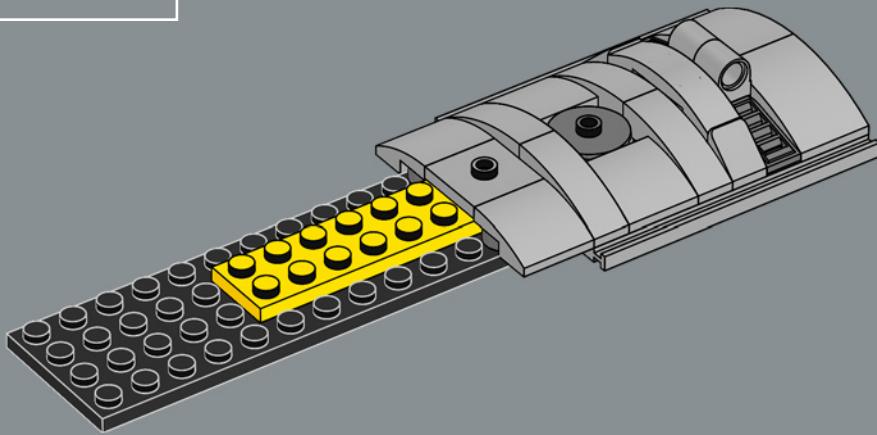


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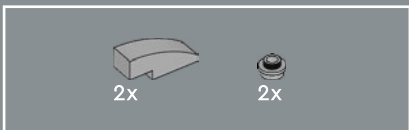
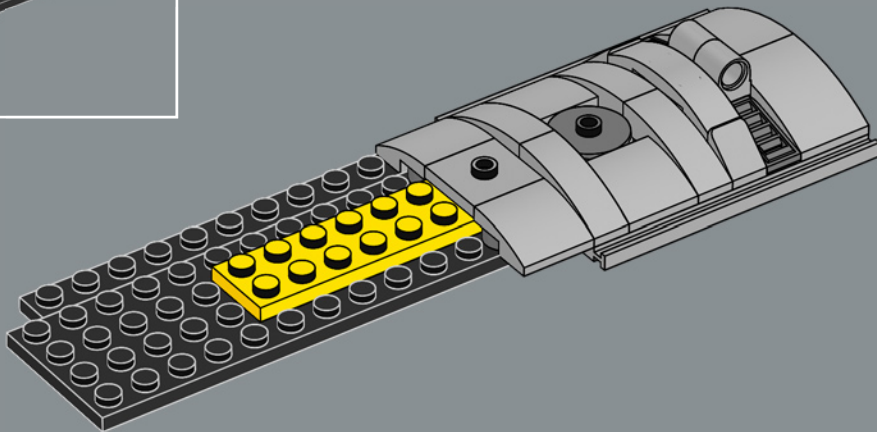




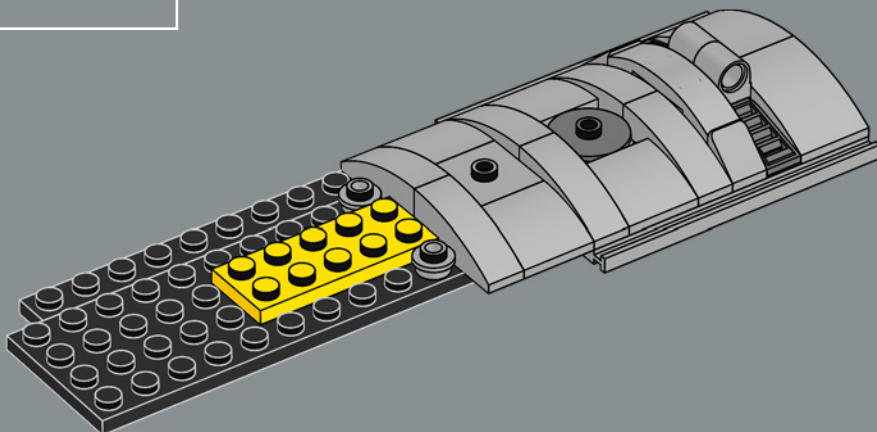
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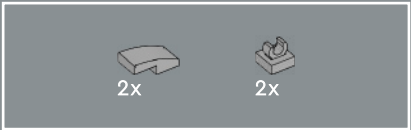


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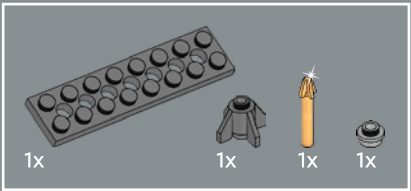
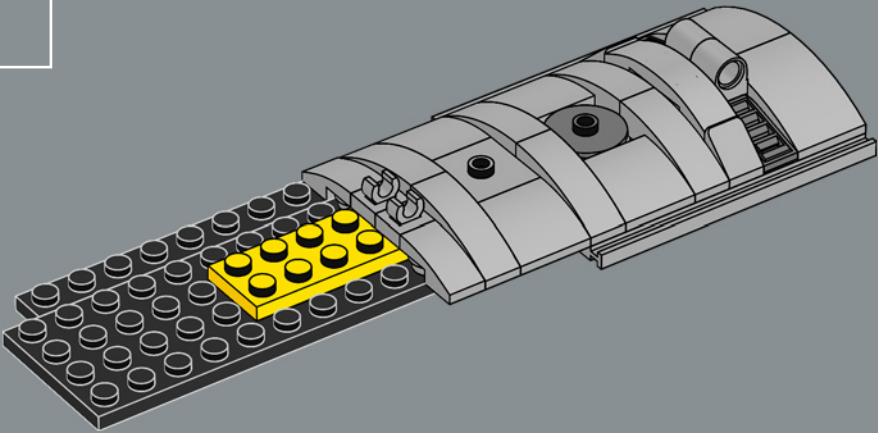


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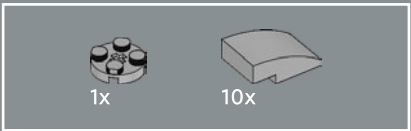
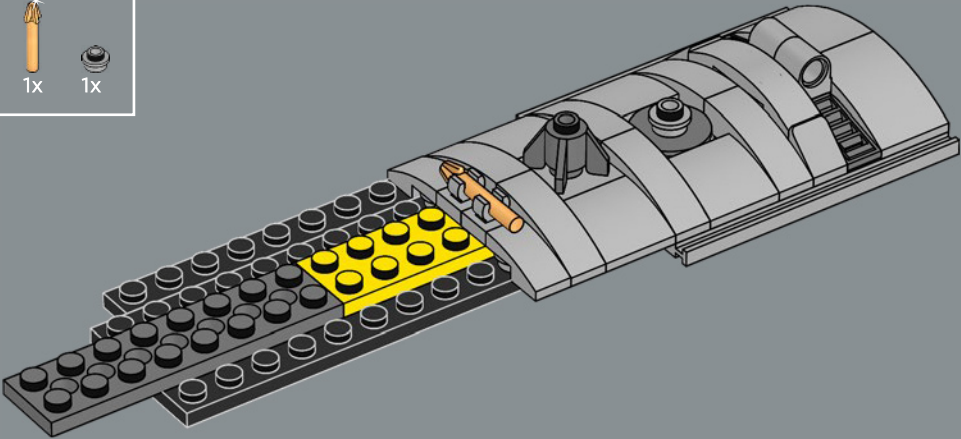




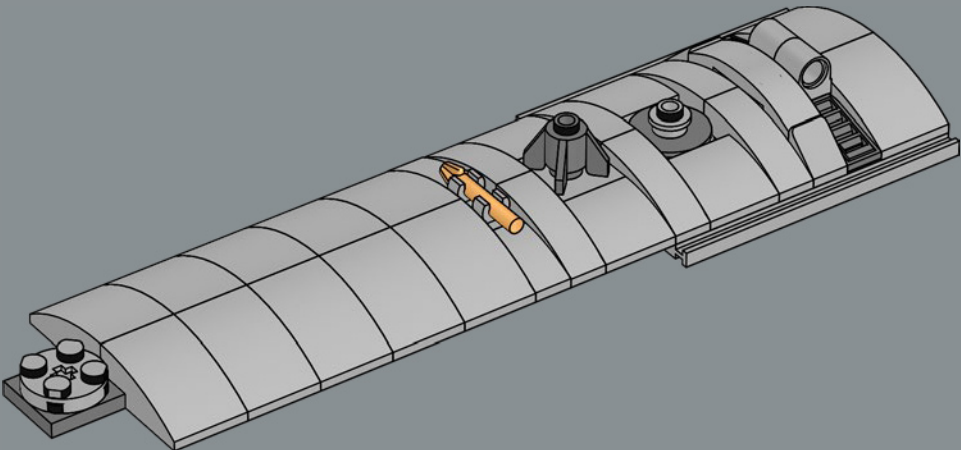
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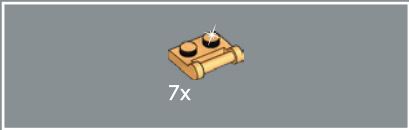


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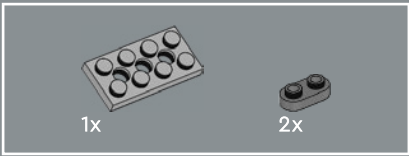
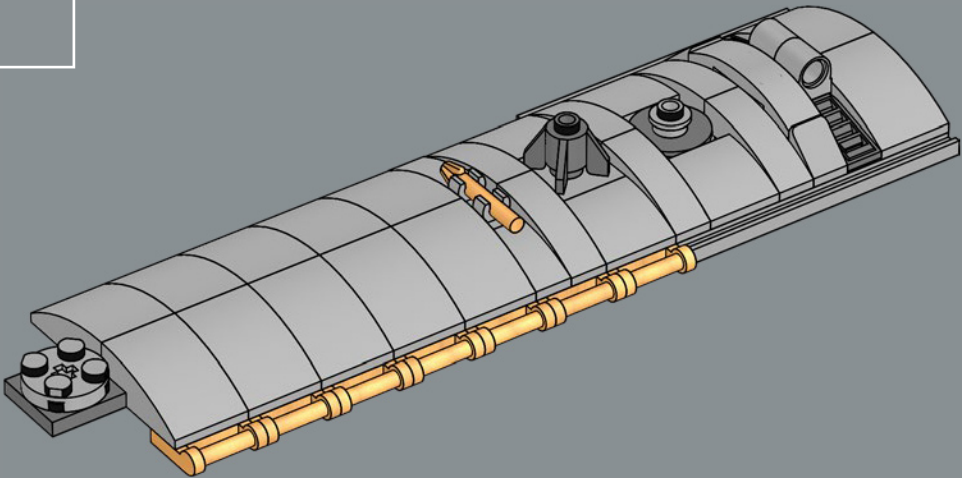


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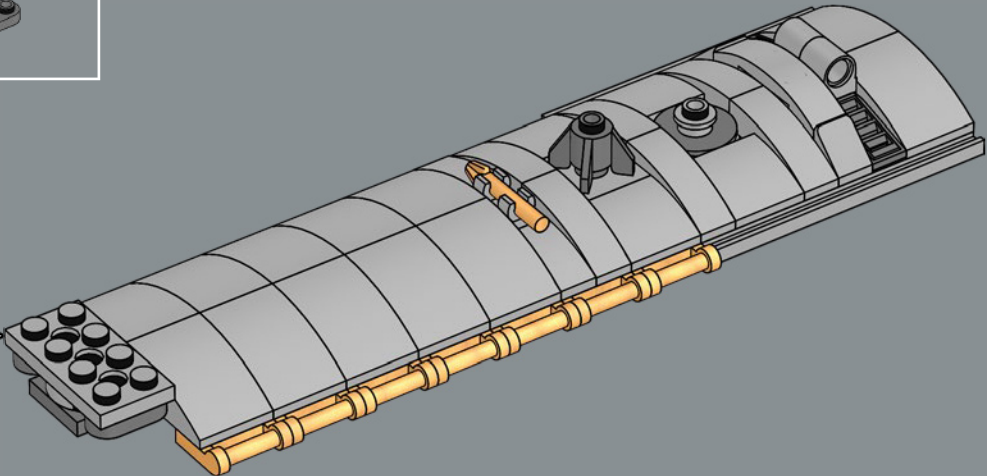
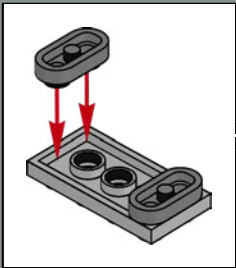




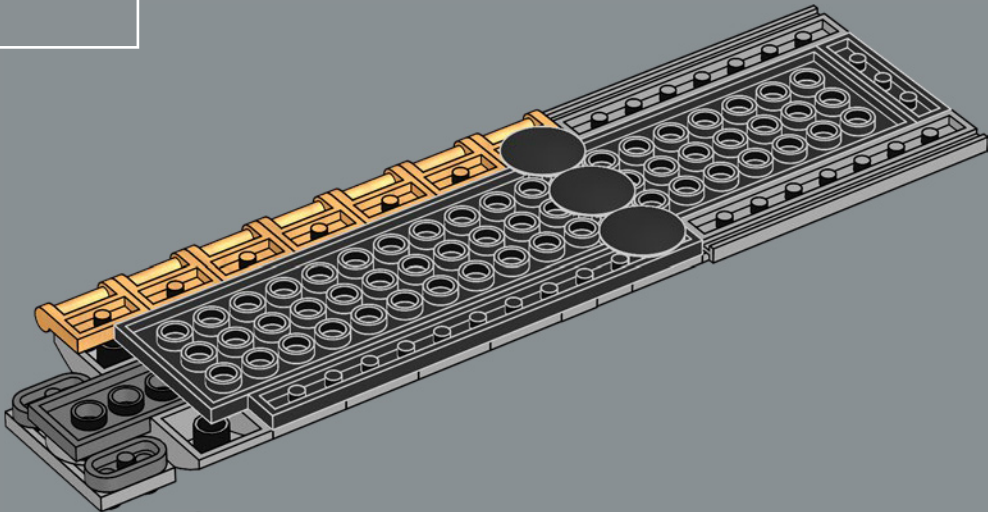
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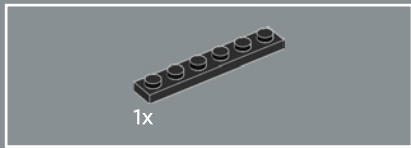


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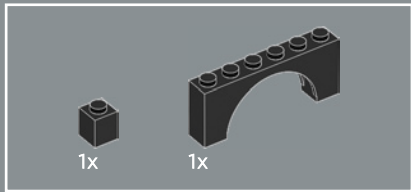
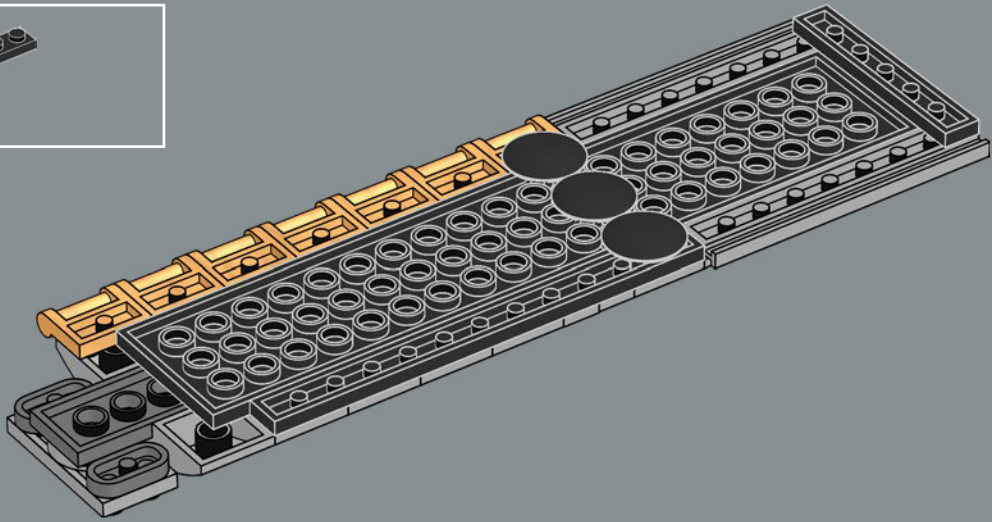


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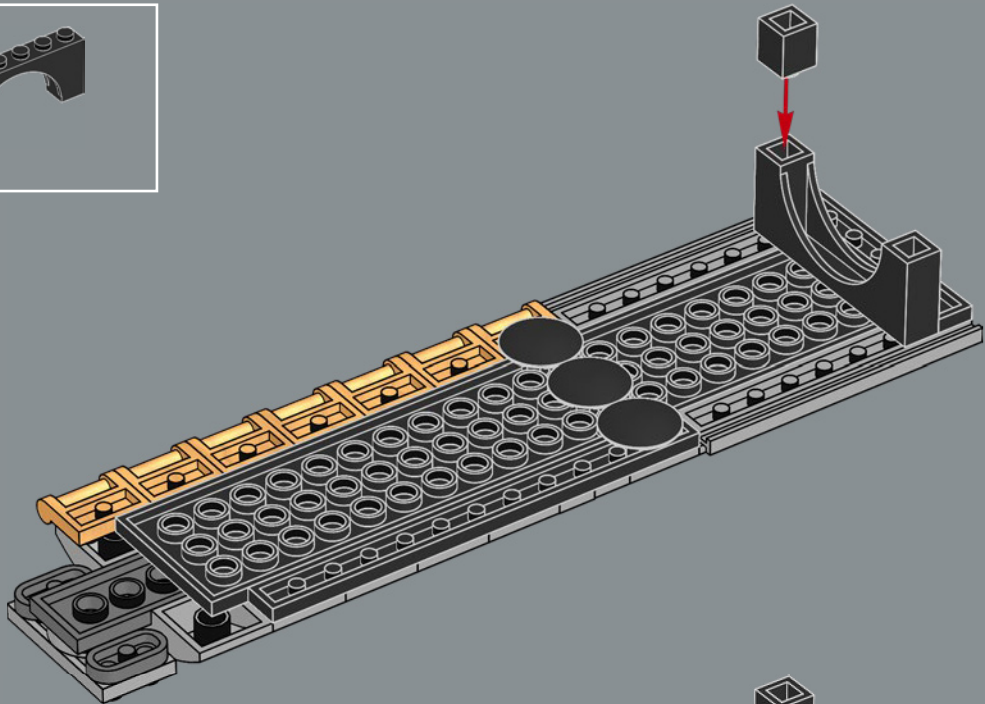




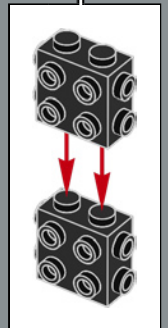
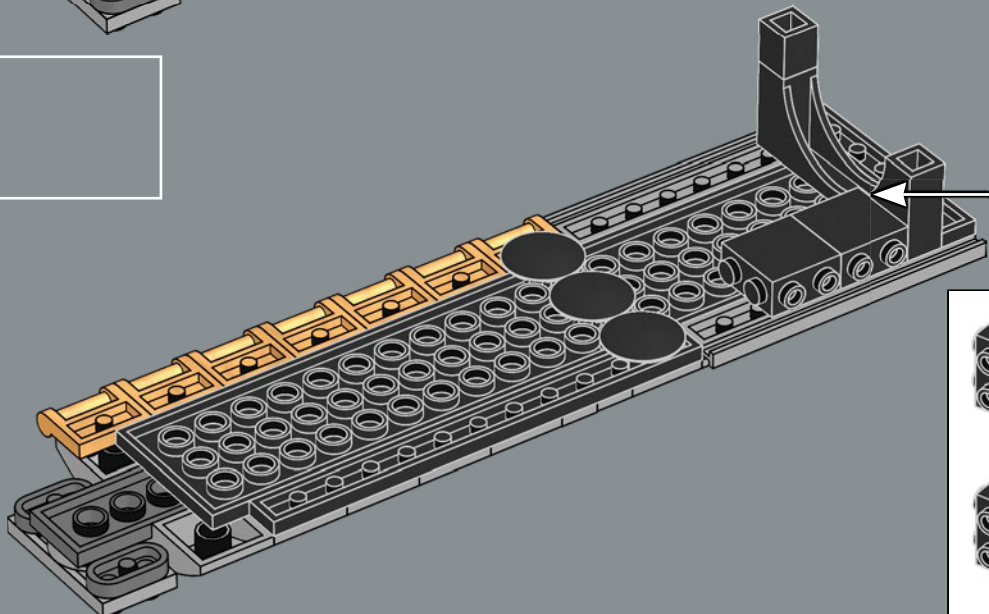
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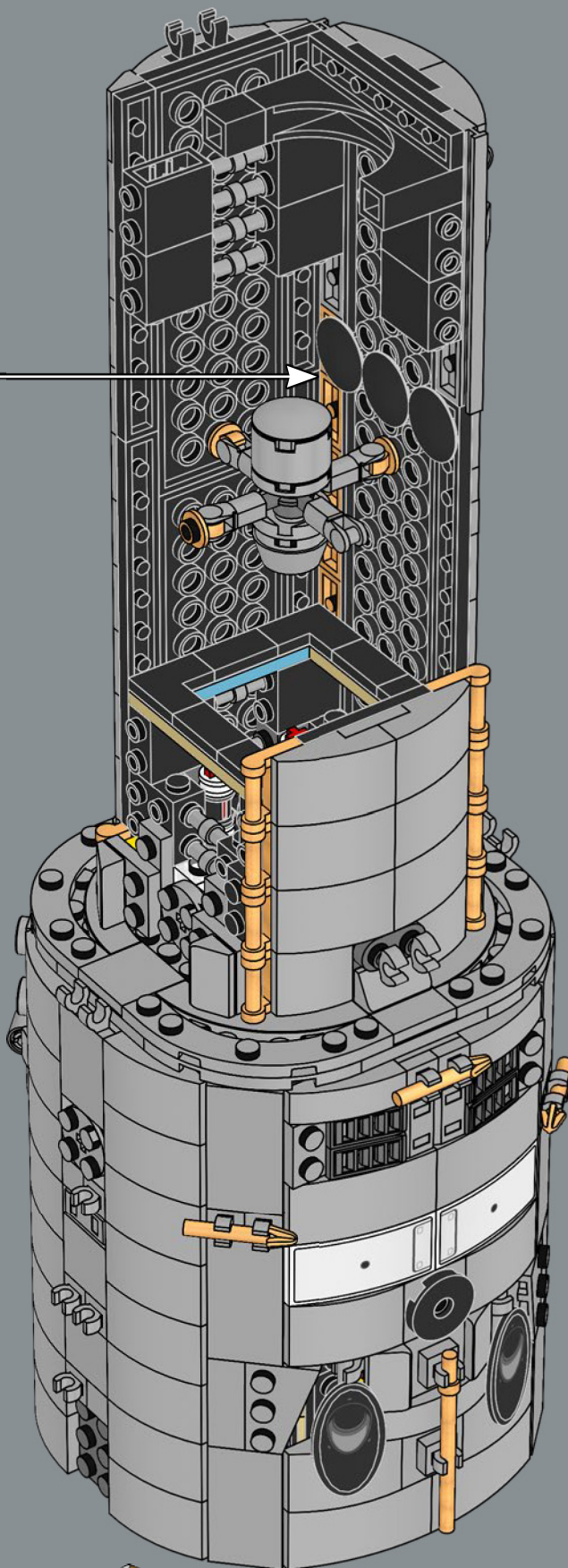
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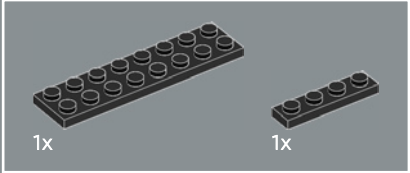
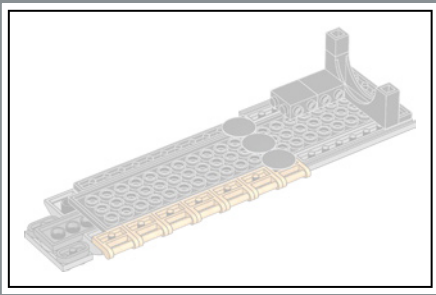


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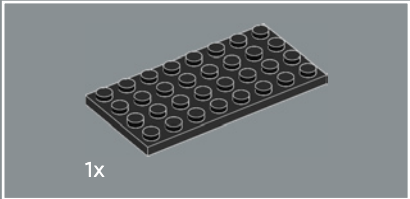
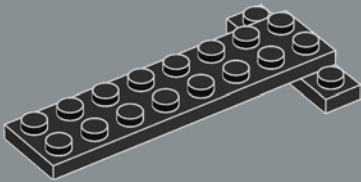


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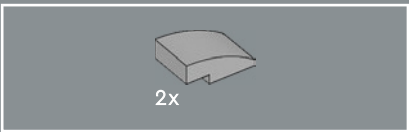
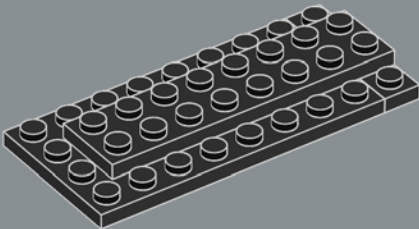




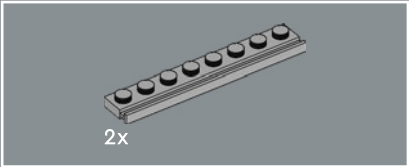
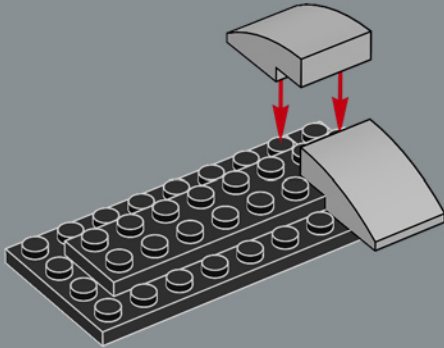
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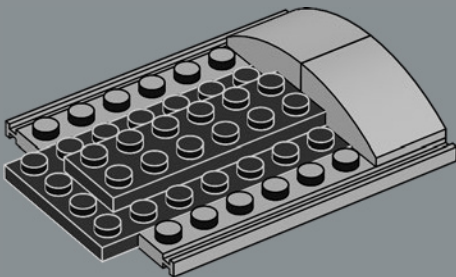
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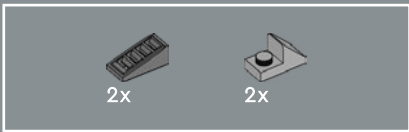


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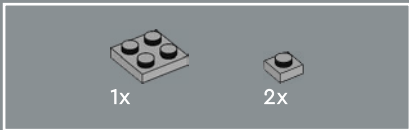
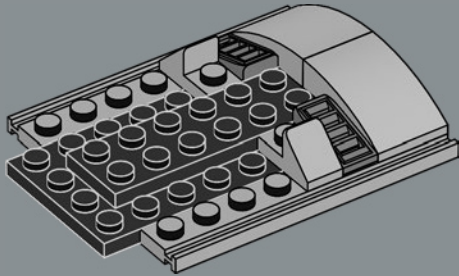


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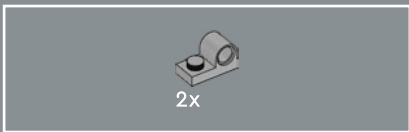
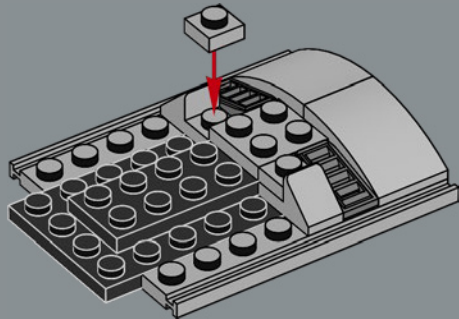




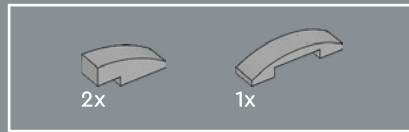
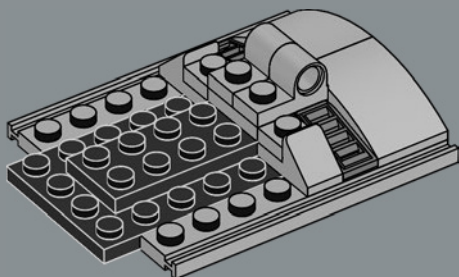
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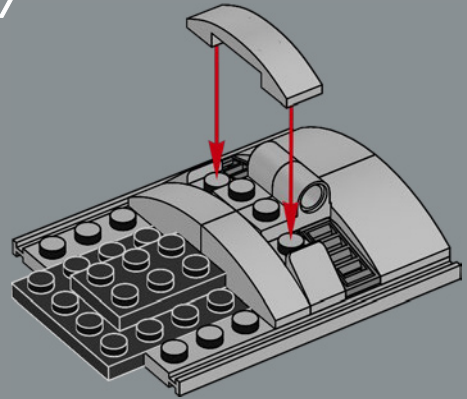
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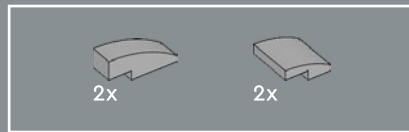
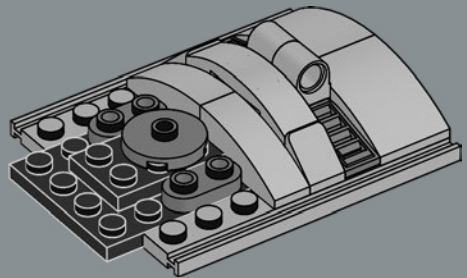
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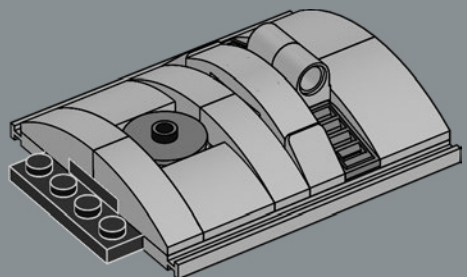
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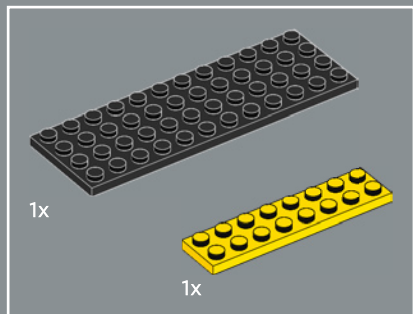


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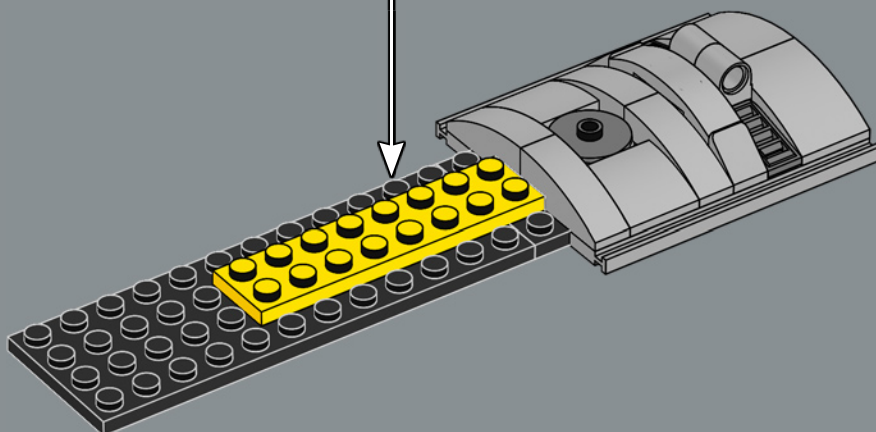
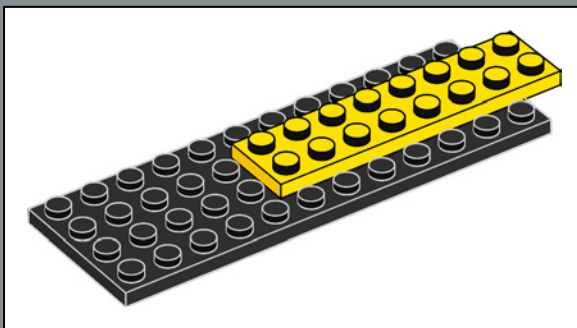


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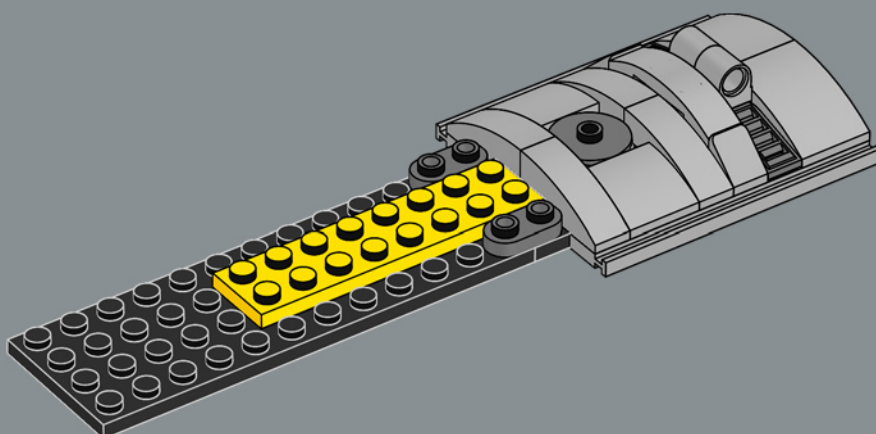


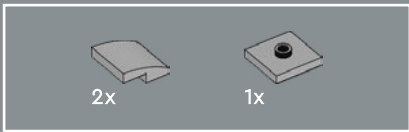


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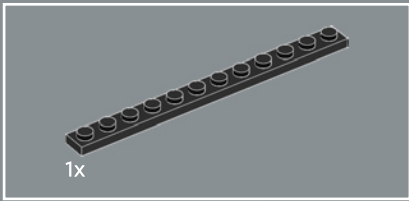
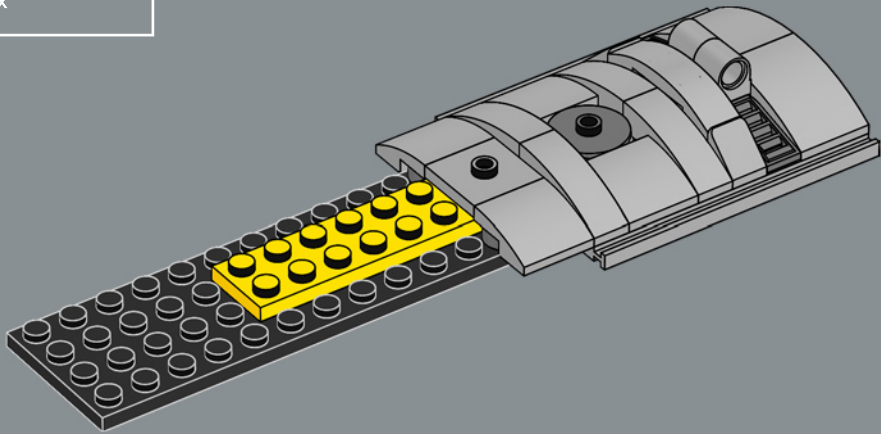


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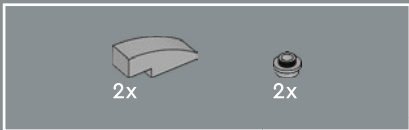
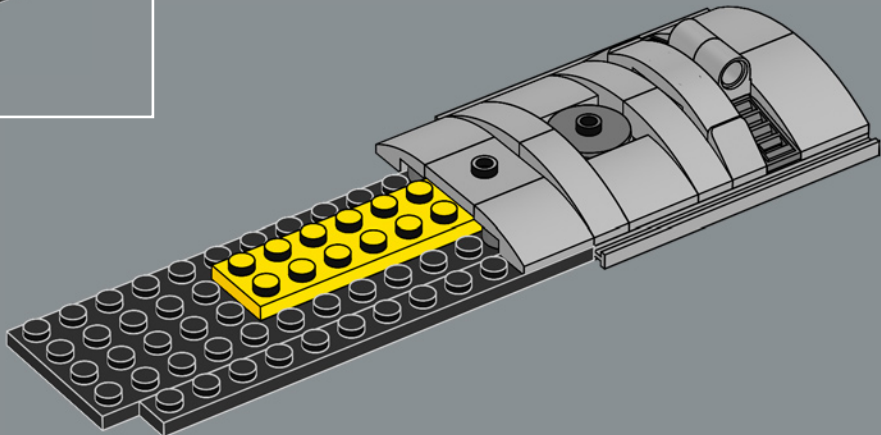




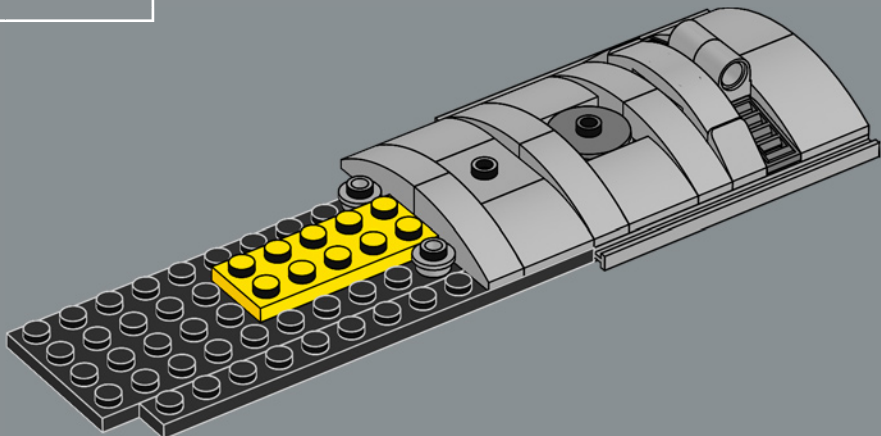
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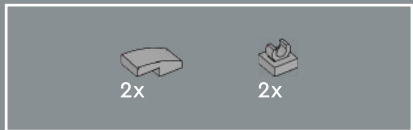


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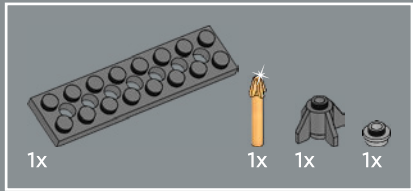
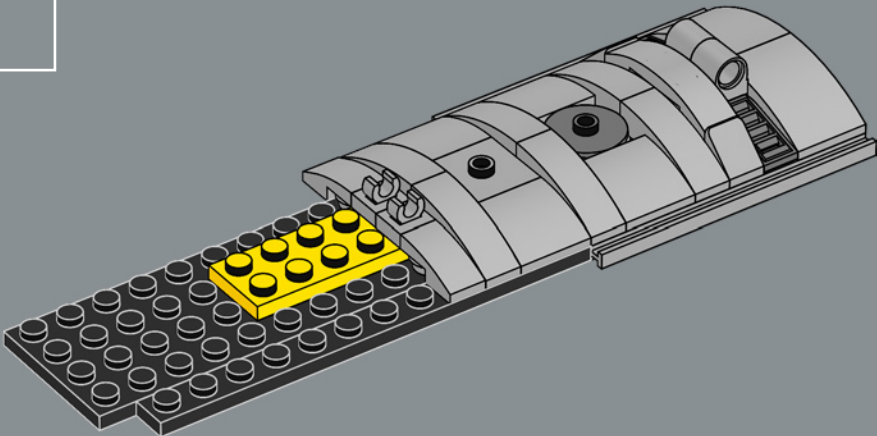


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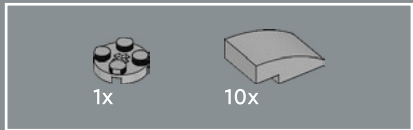
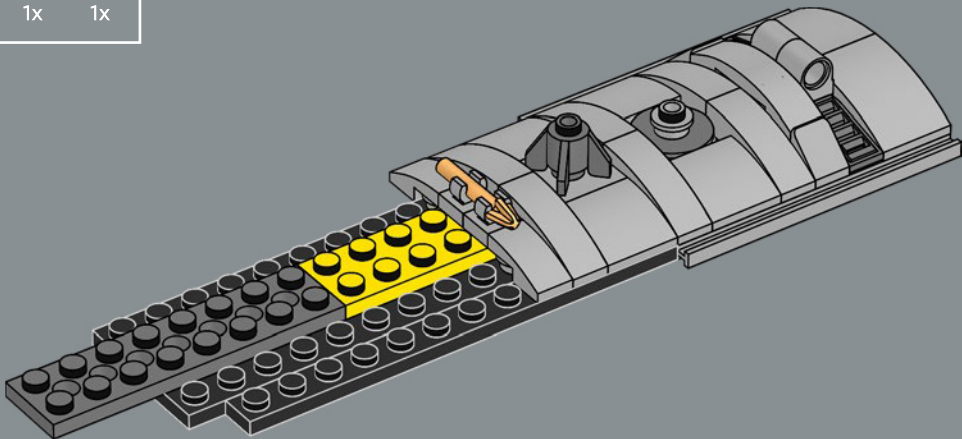




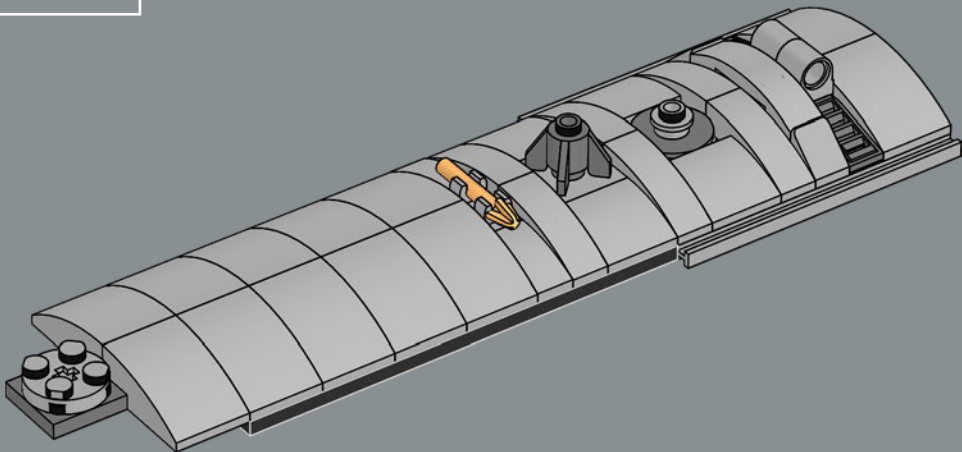
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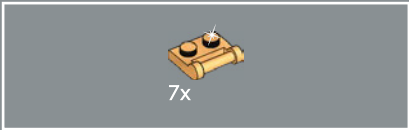


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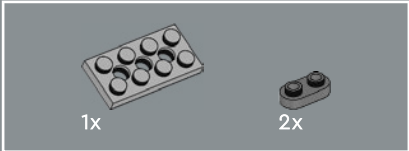
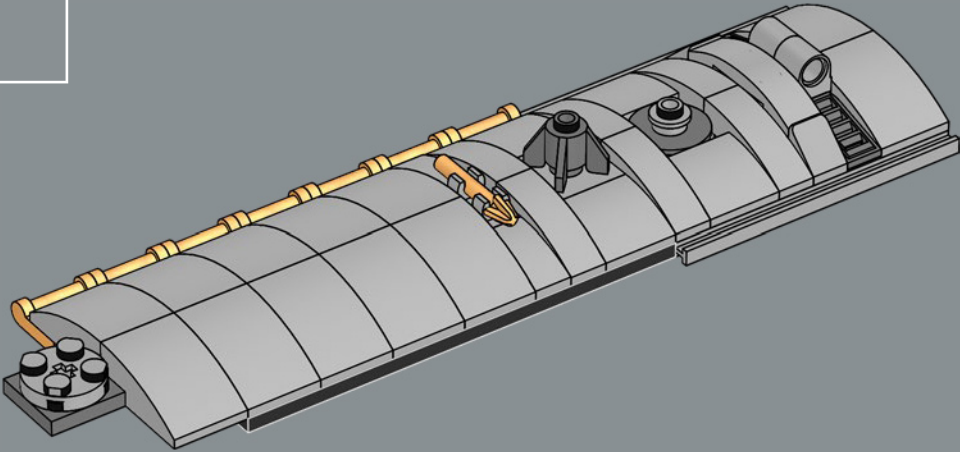


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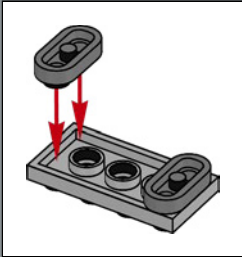
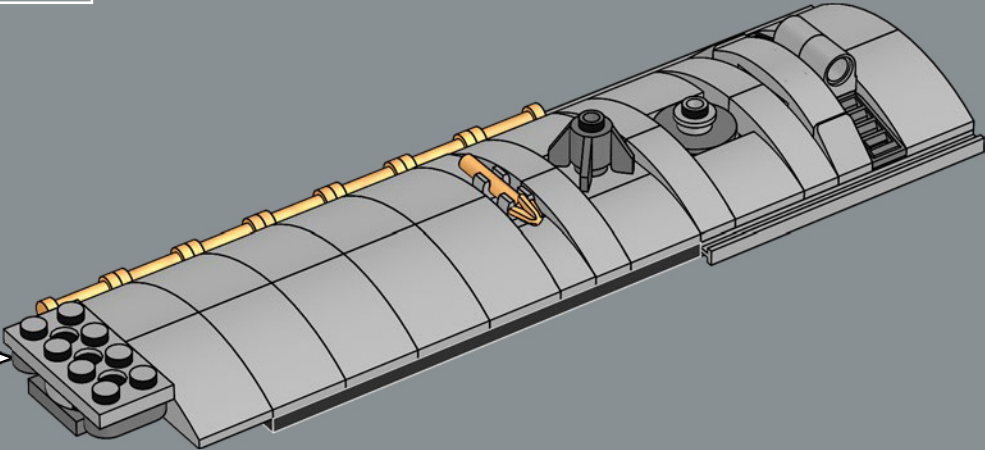




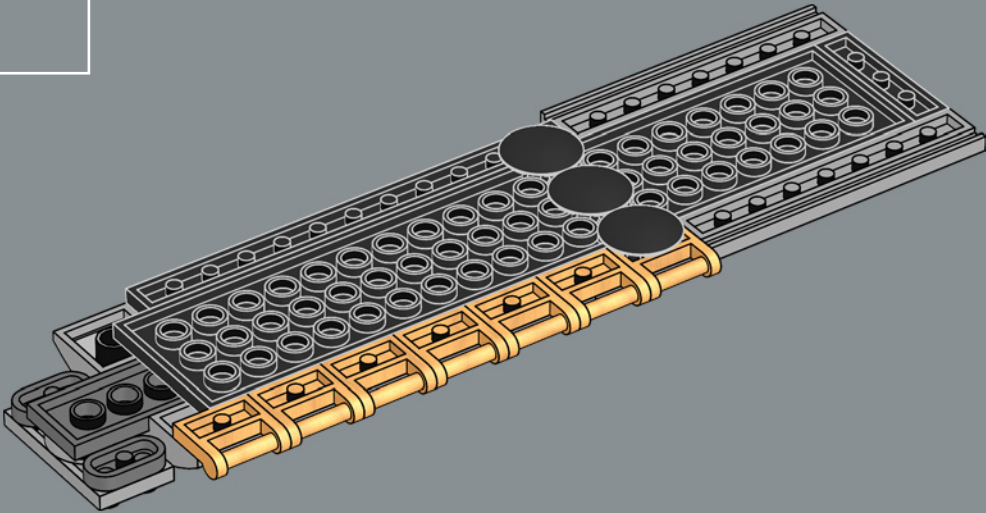
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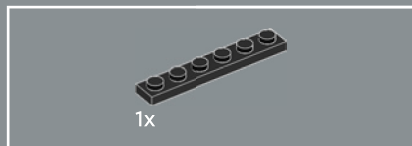


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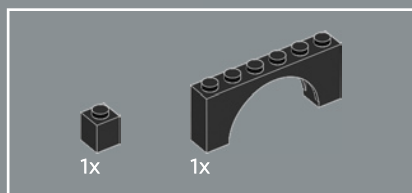
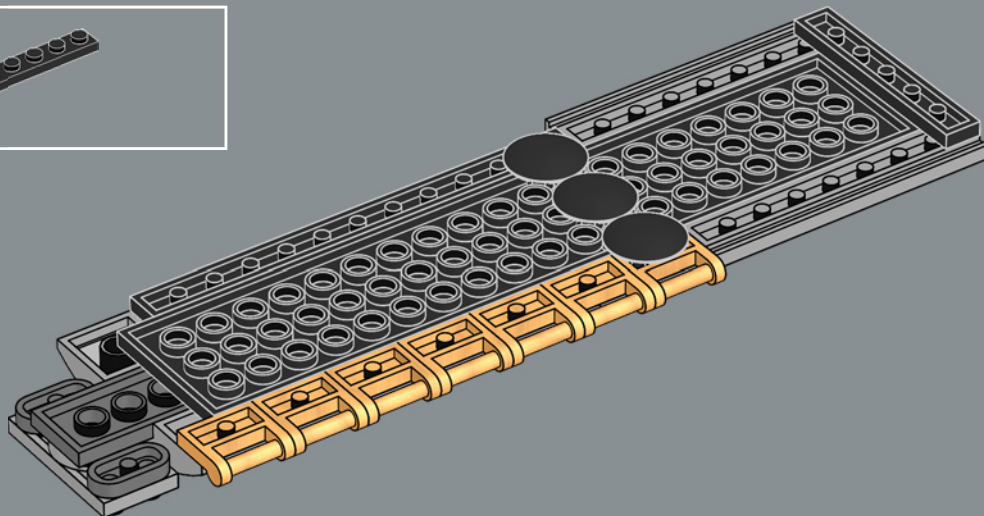


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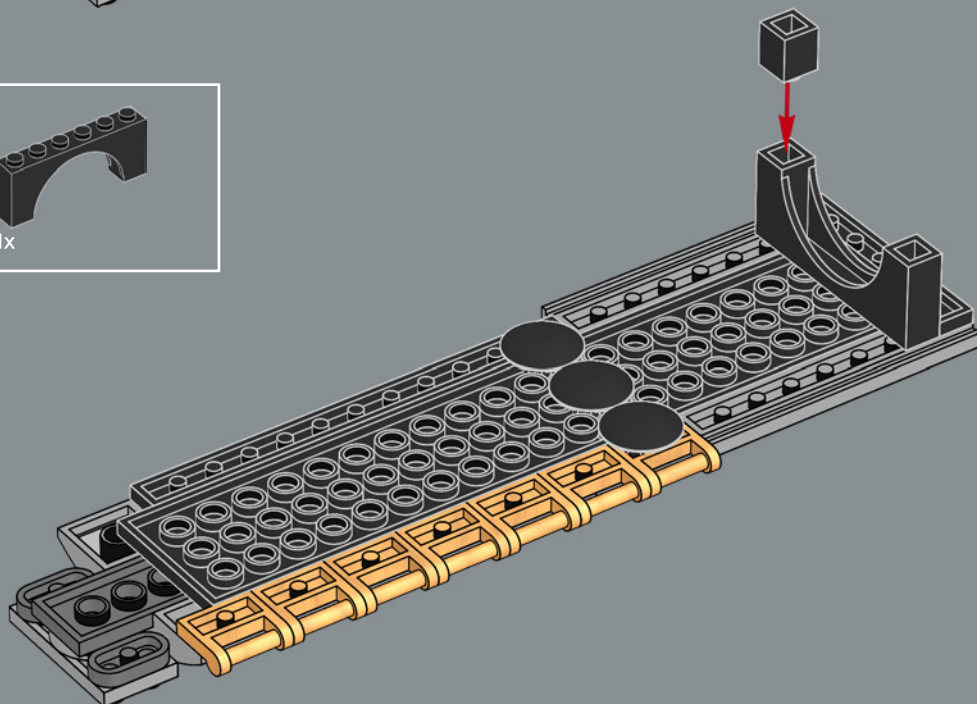




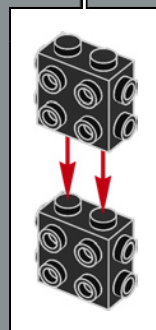
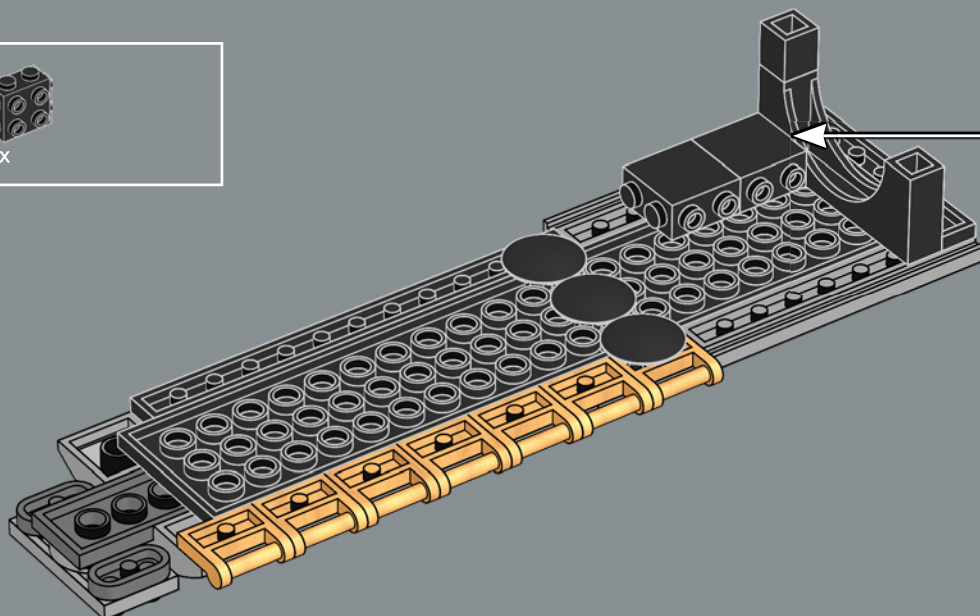
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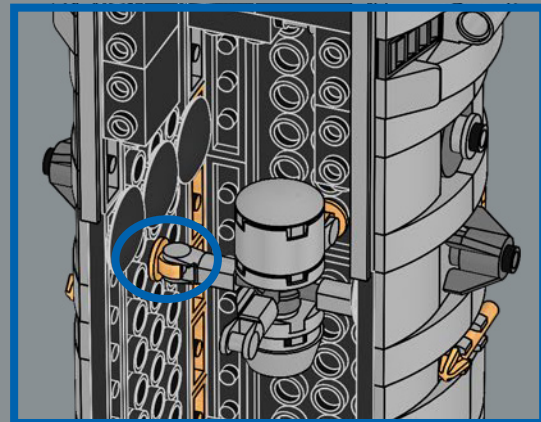
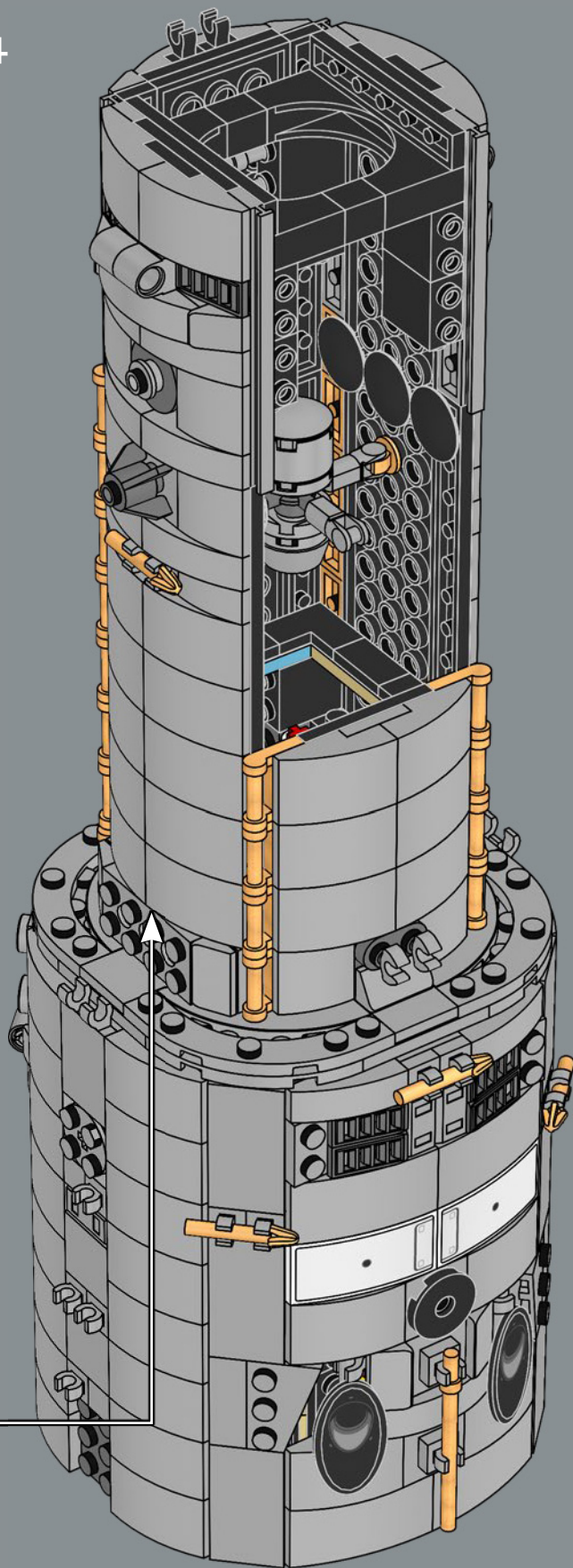


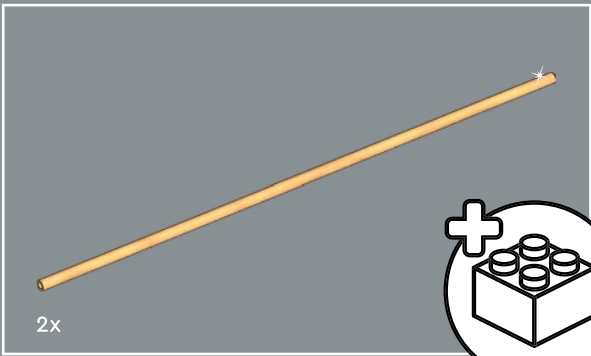
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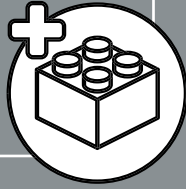
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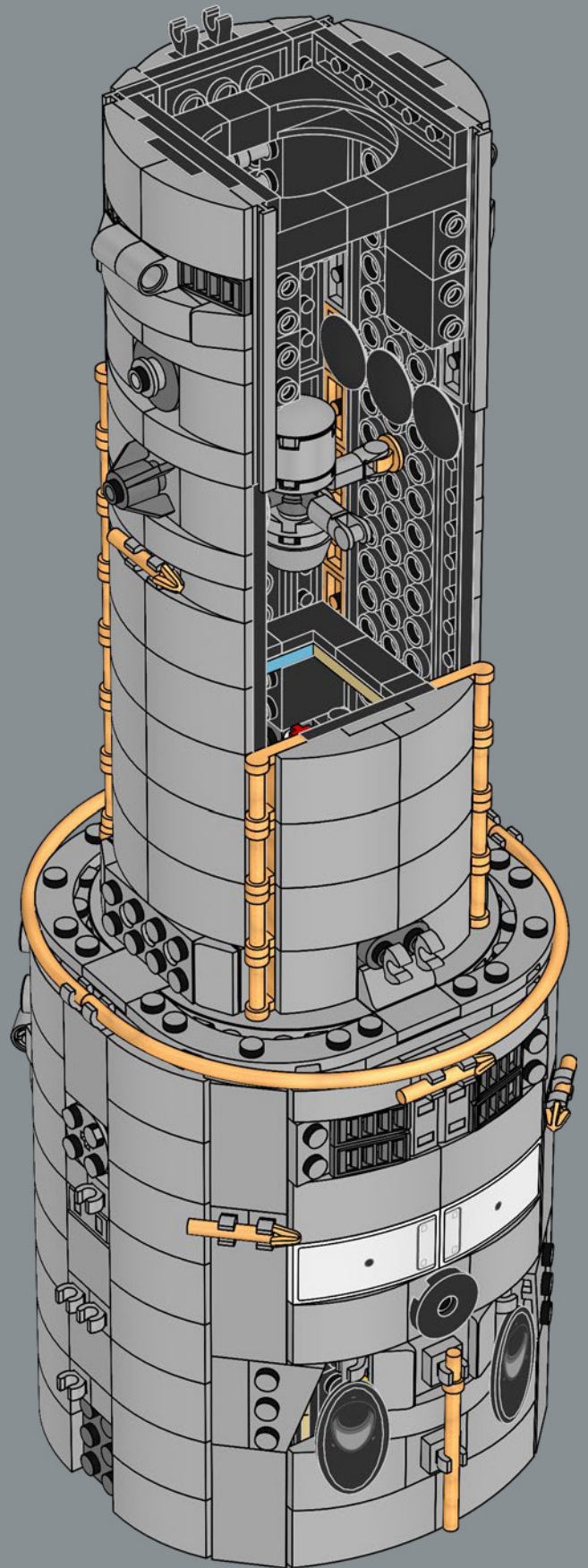


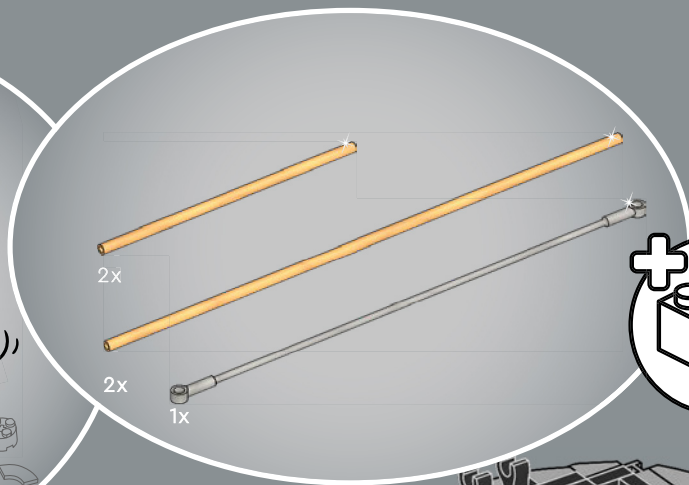


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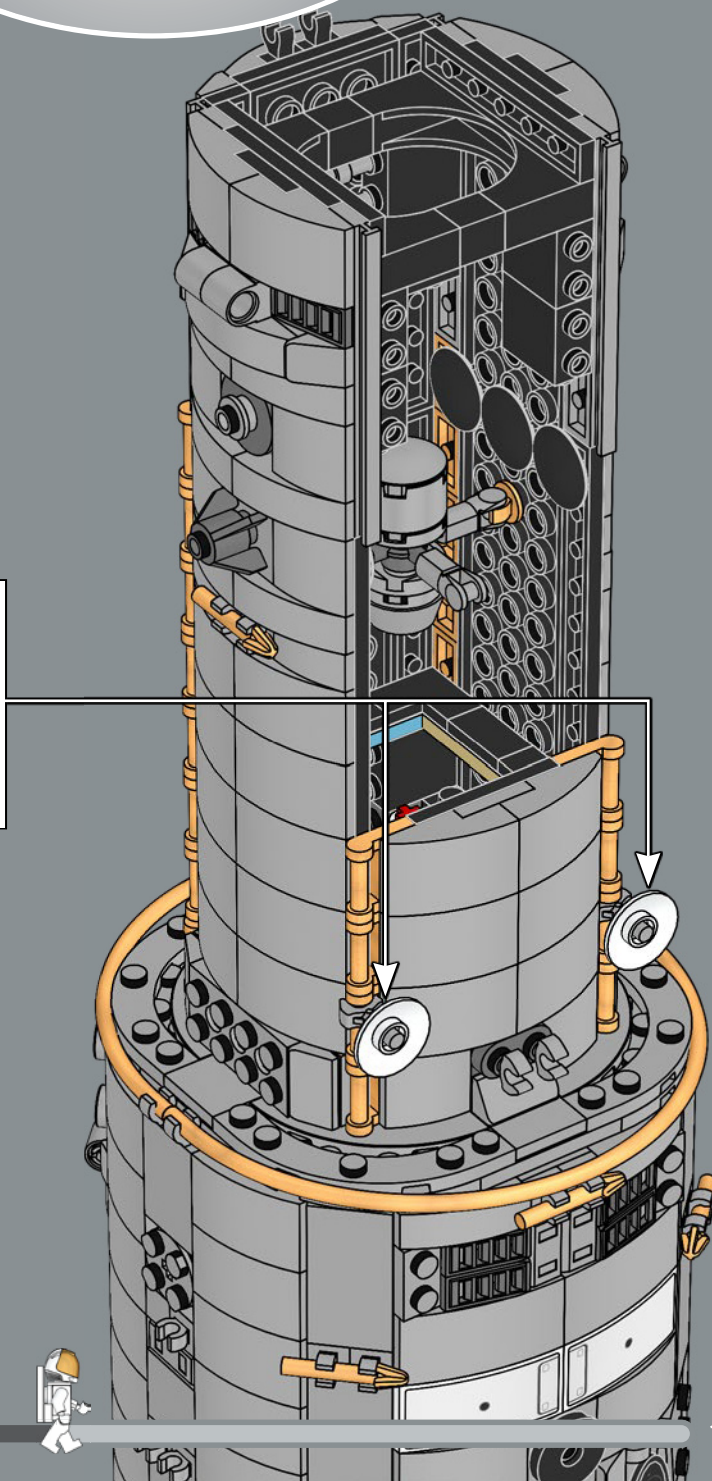
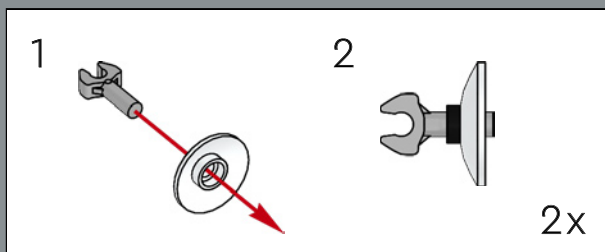


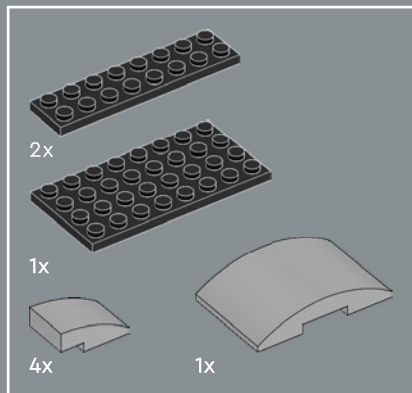
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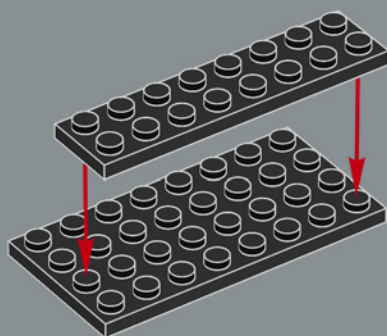
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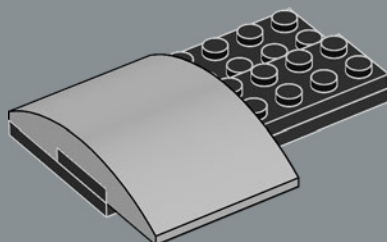


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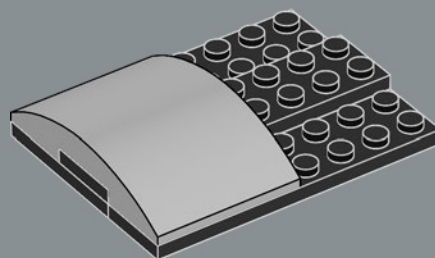
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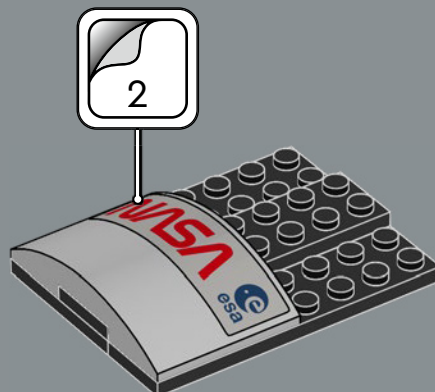
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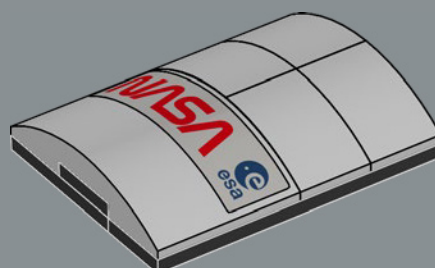
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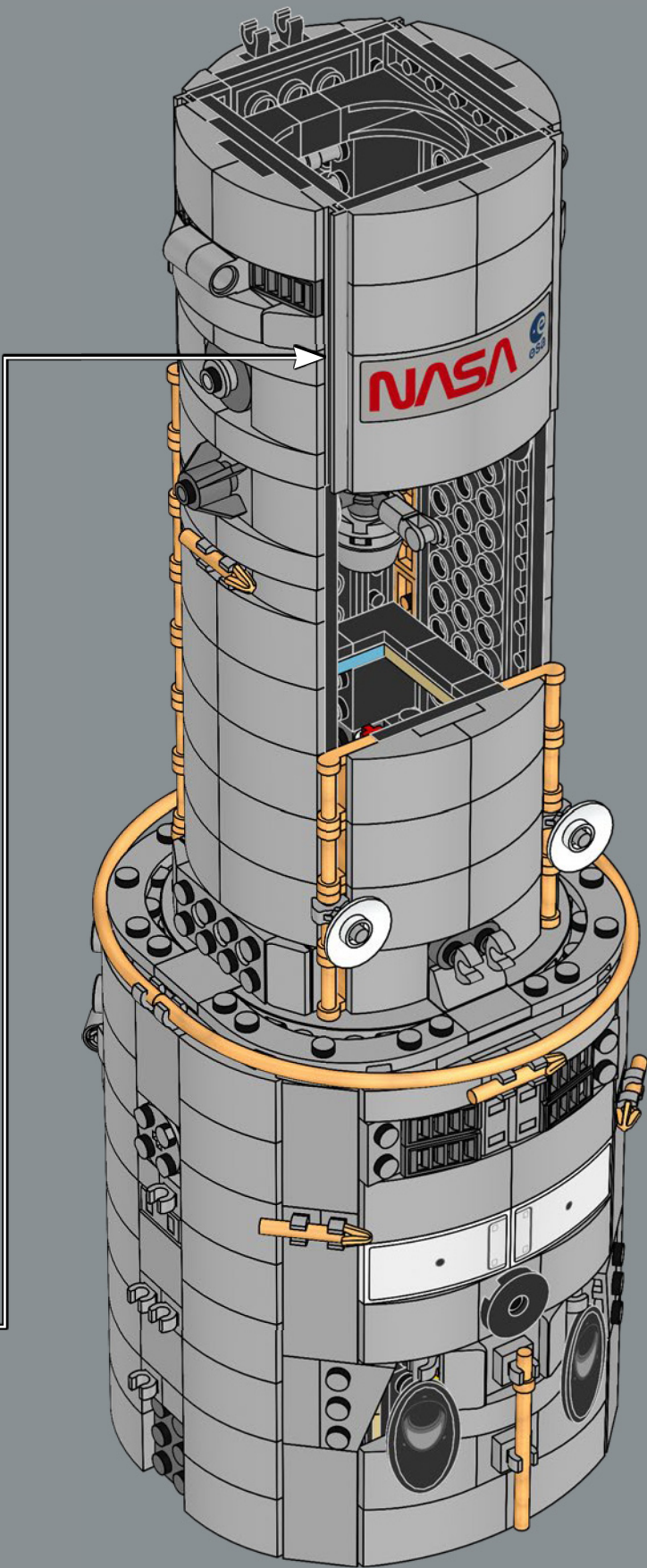
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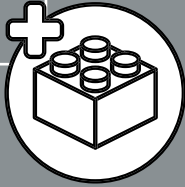
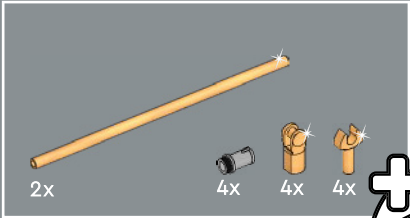
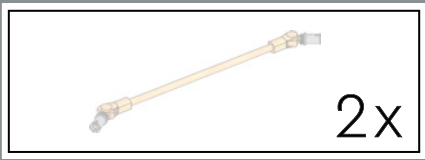


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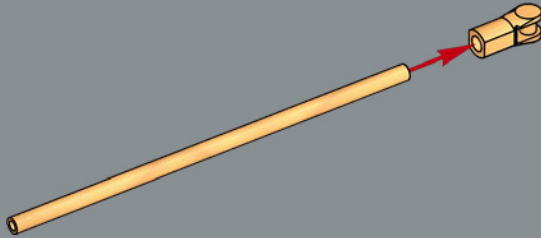
Il telescopio ha perfezionato le stime della costante di Hubble, determinando che l'universo ha circa 13,8 miliardi di anni.



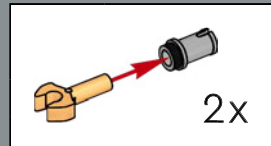
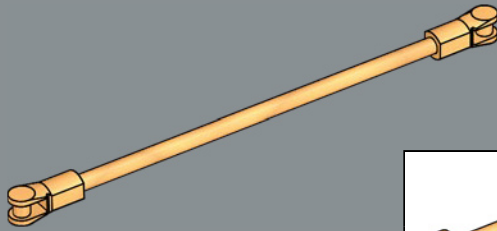


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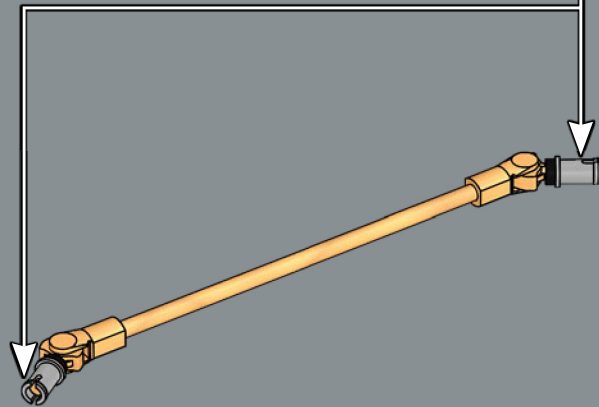
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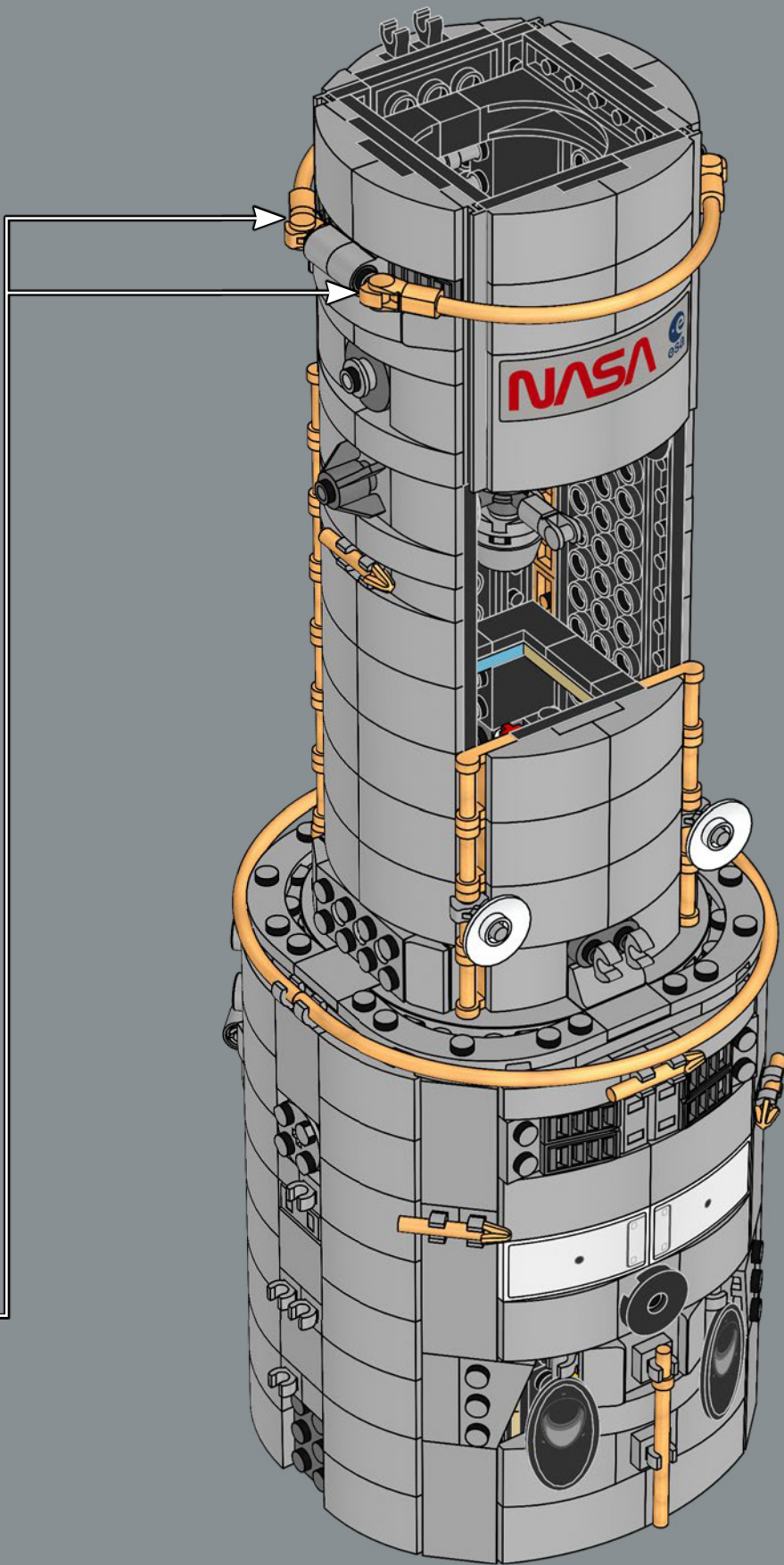
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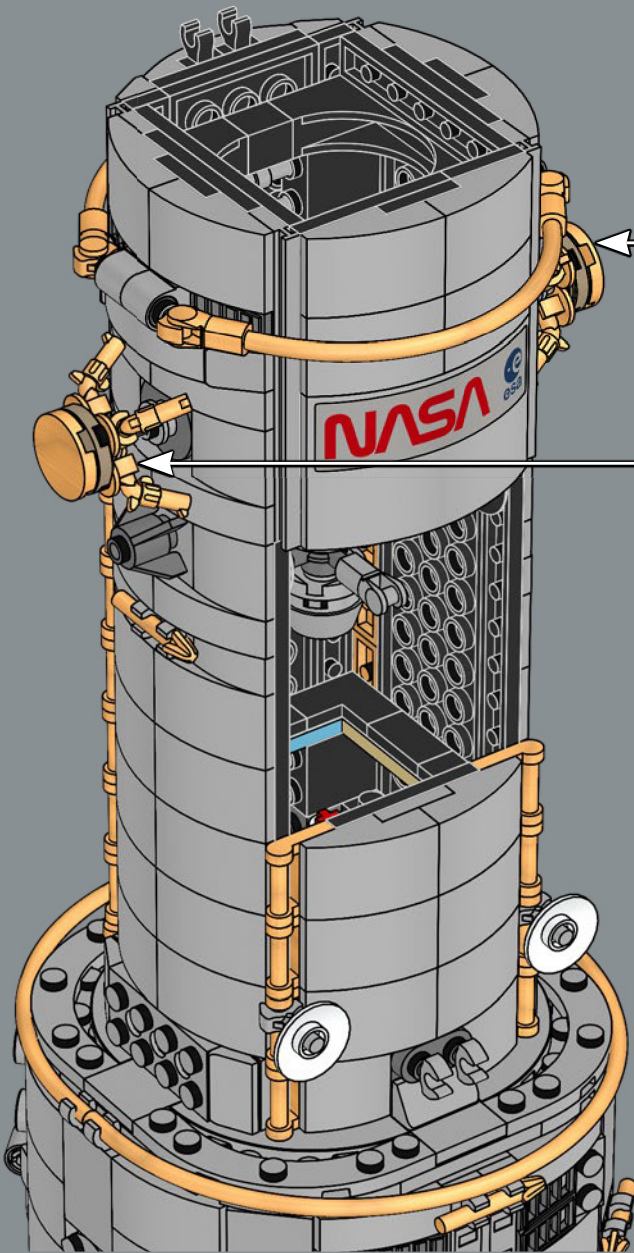
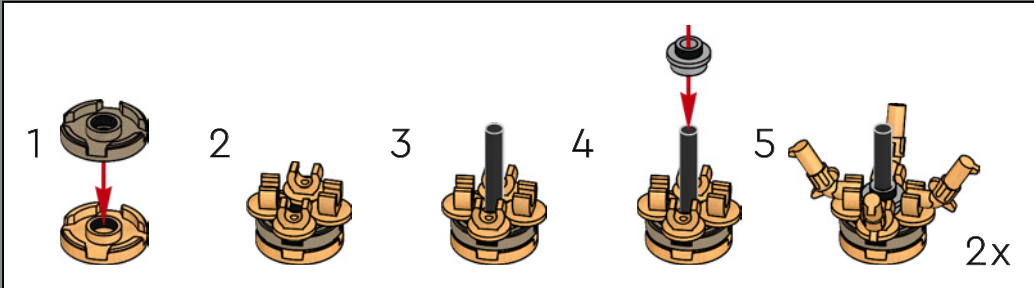


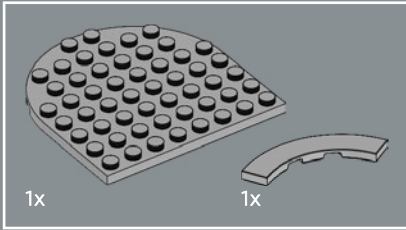
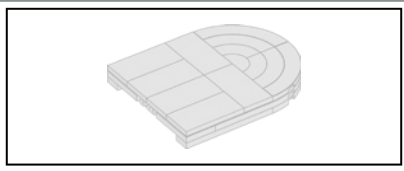
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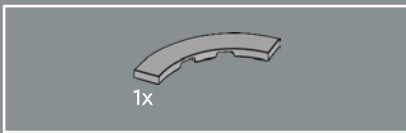
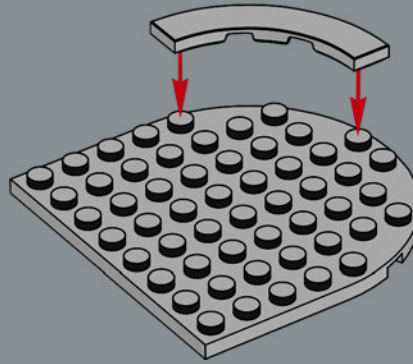


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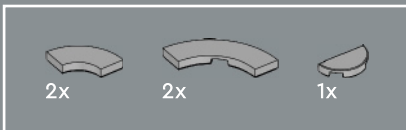
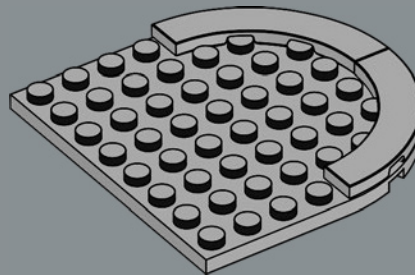




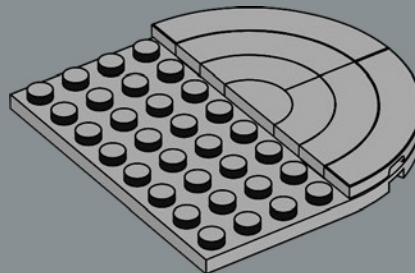
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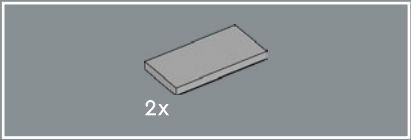


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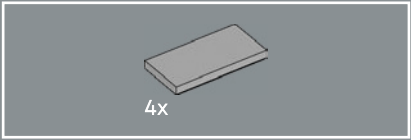
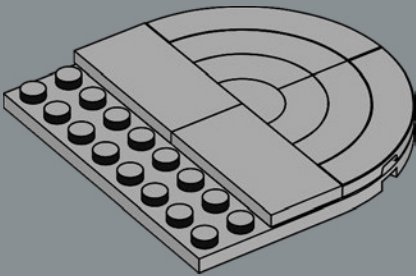


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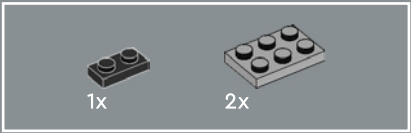
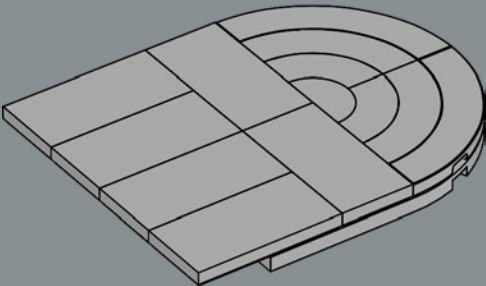




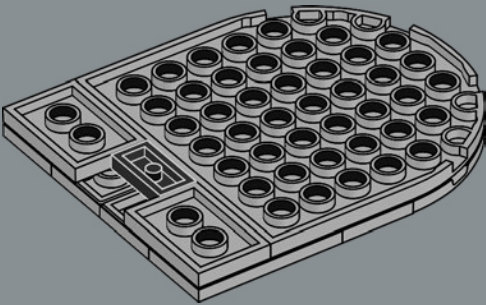
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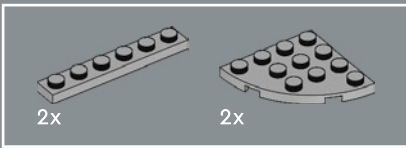


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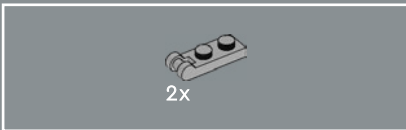
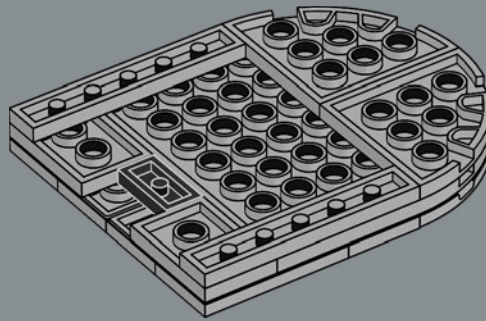


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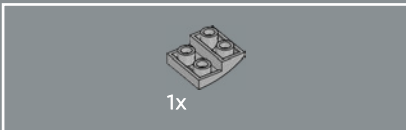
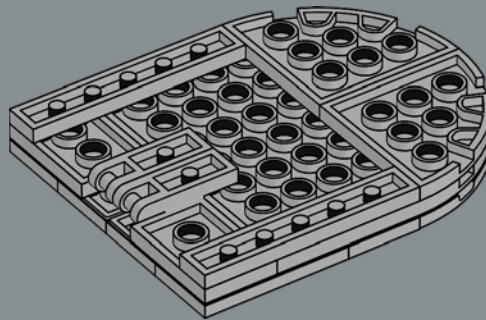




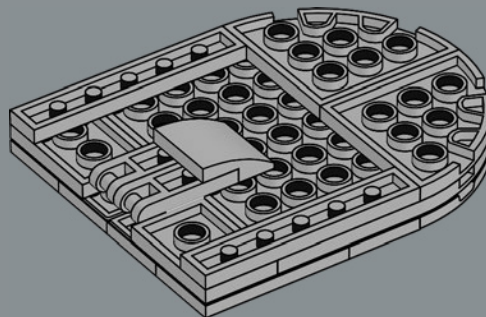
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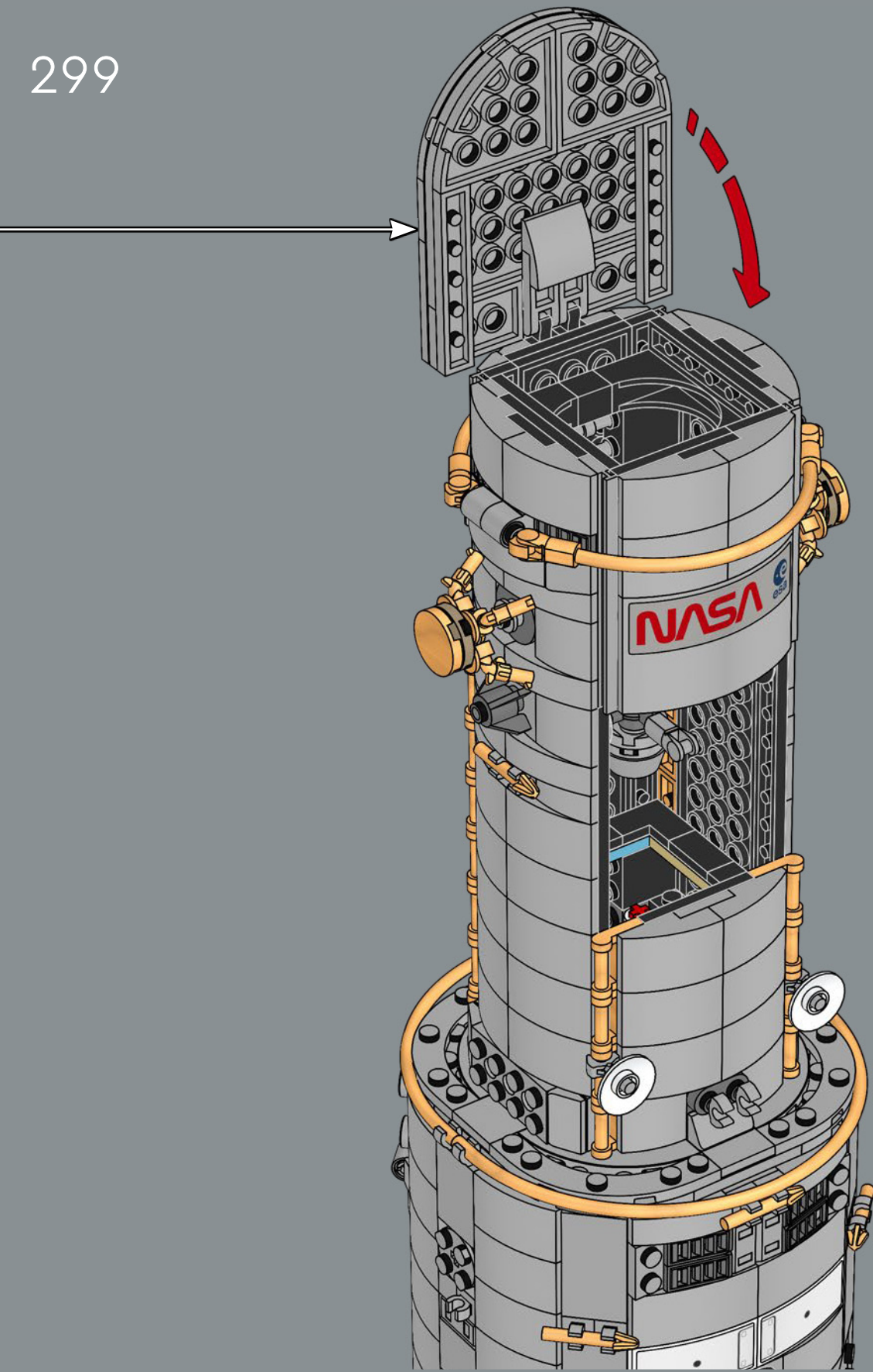


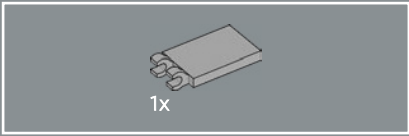
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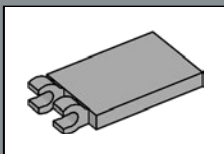
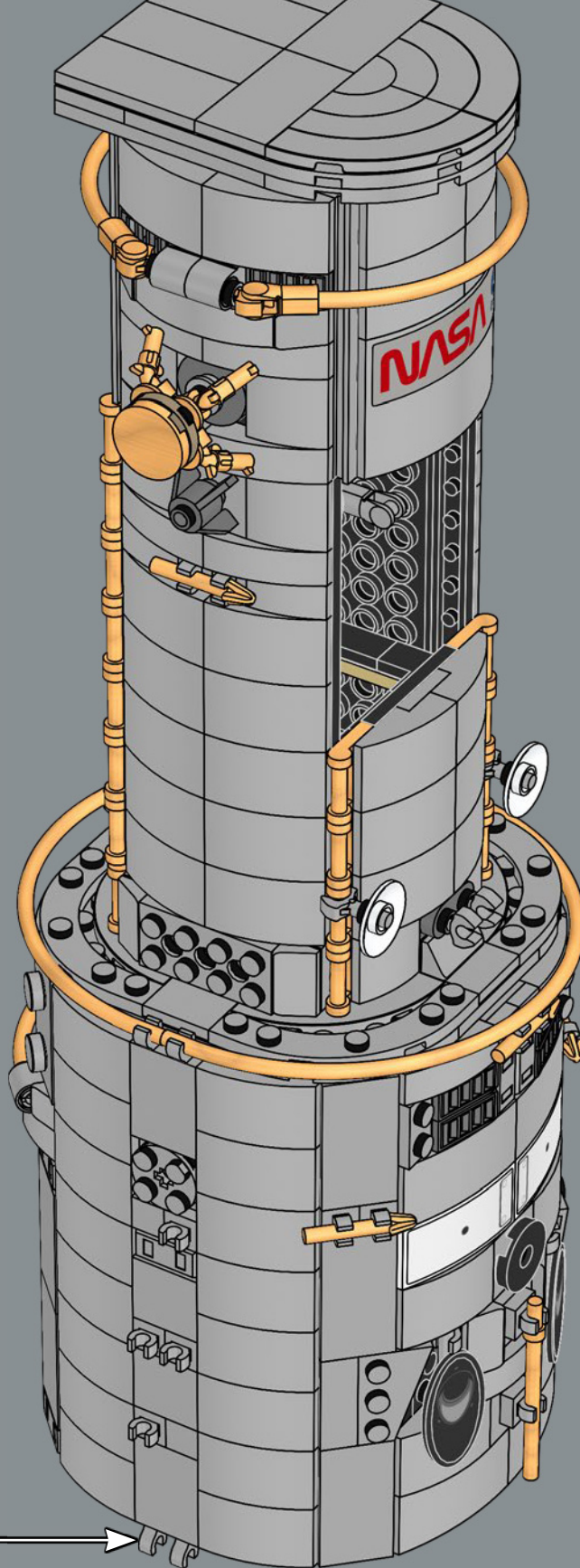
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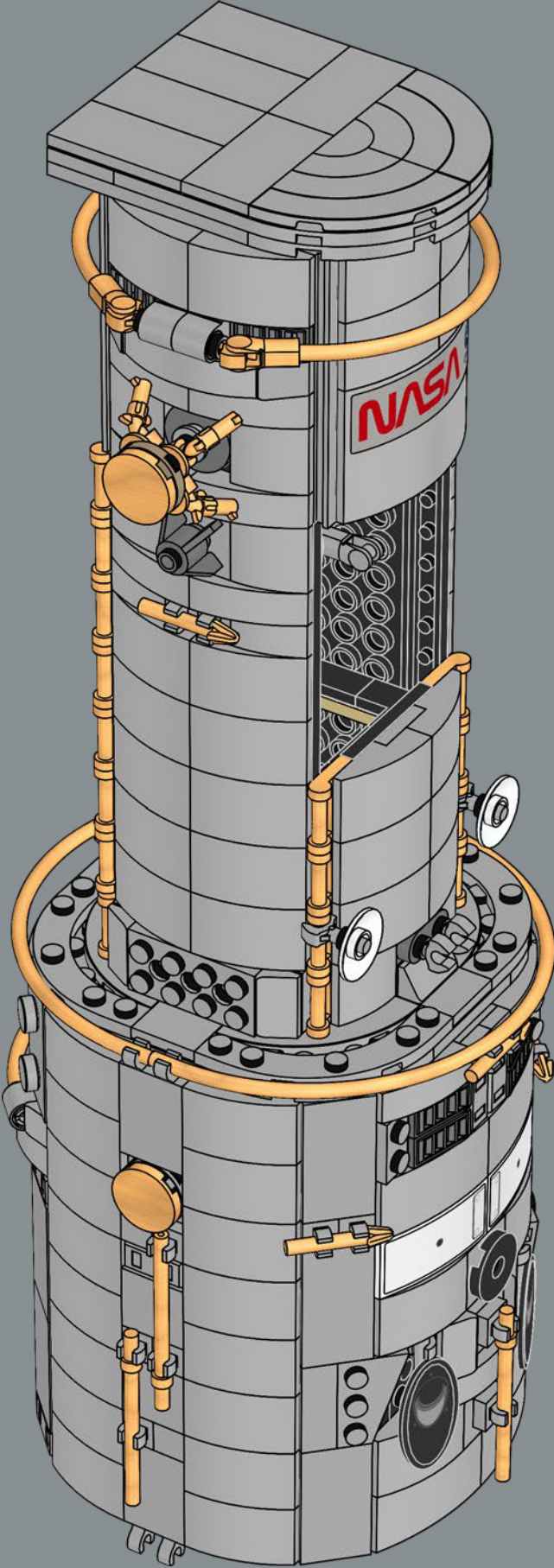


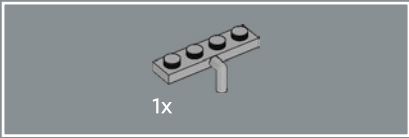
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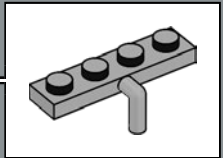
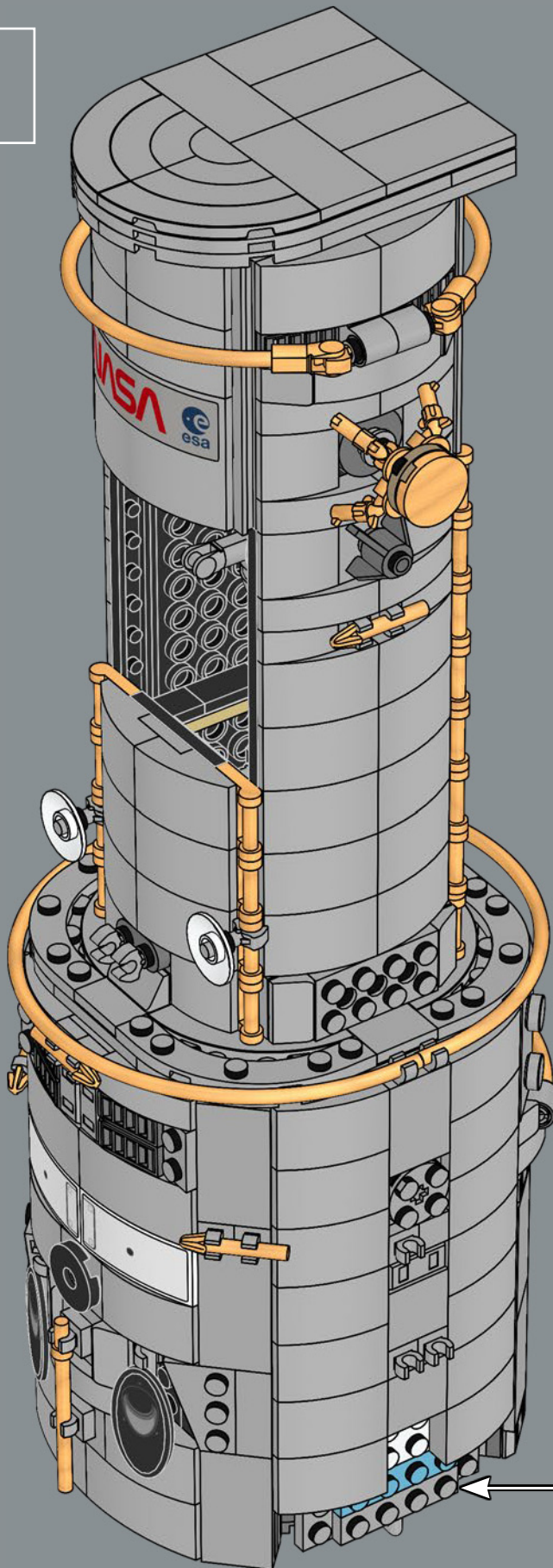


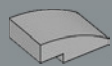
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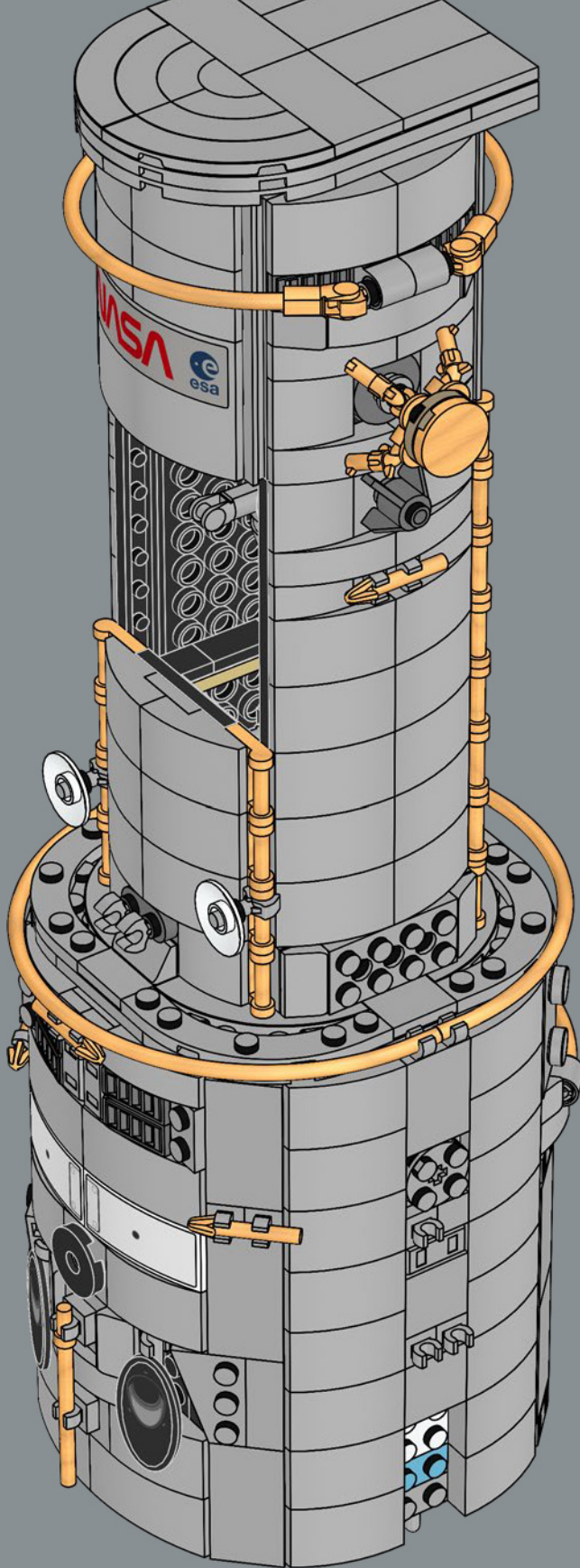
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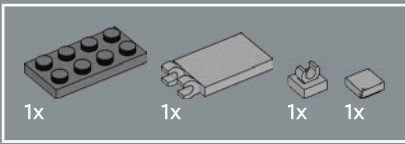




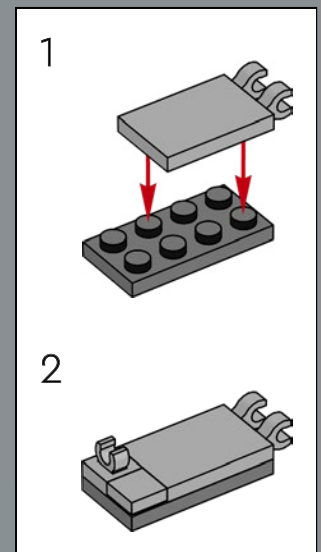
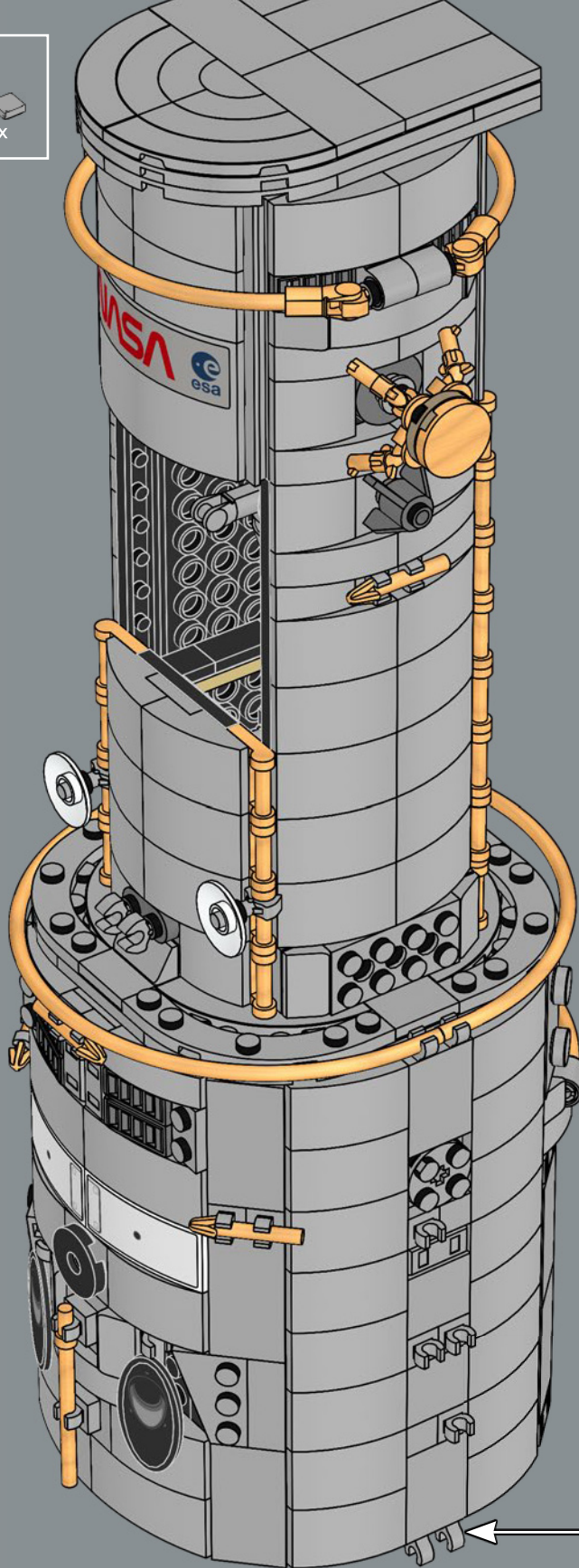
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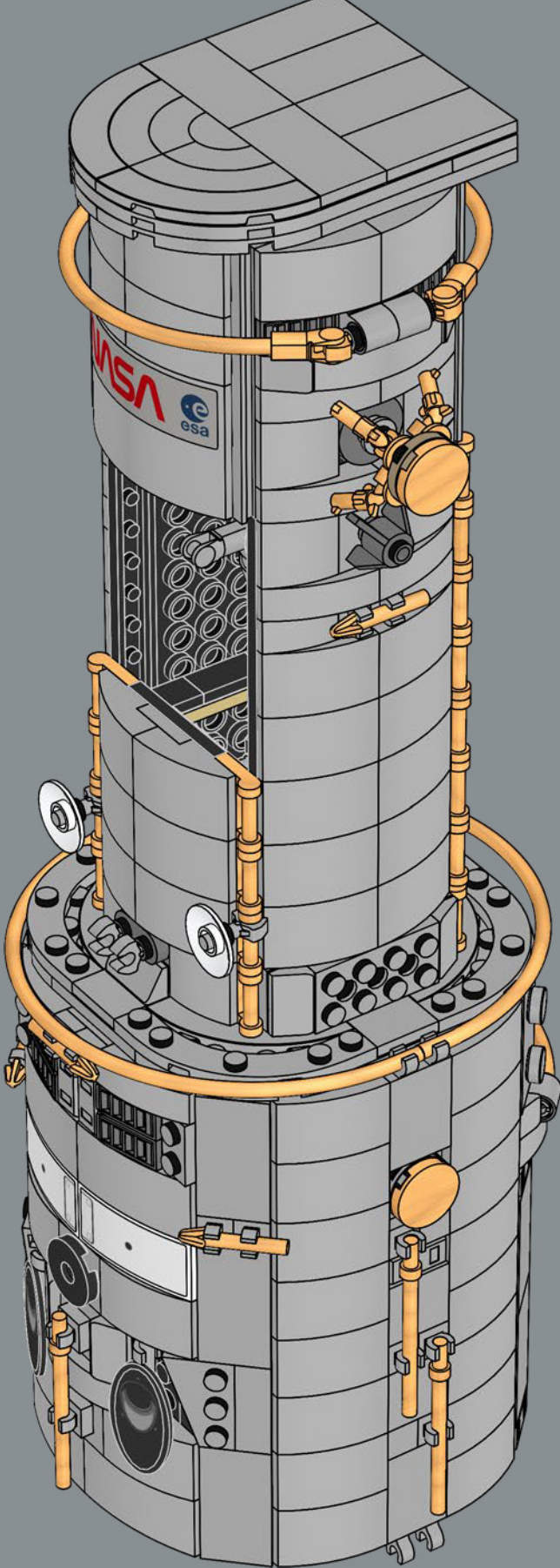


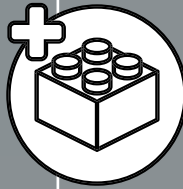
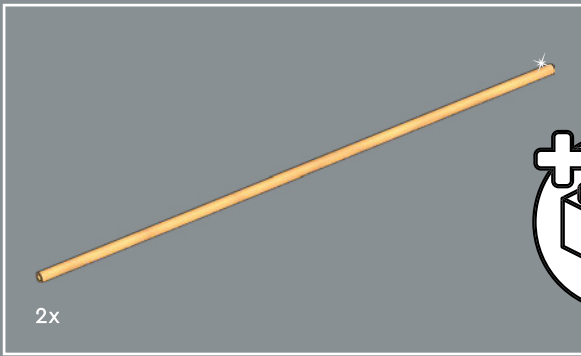
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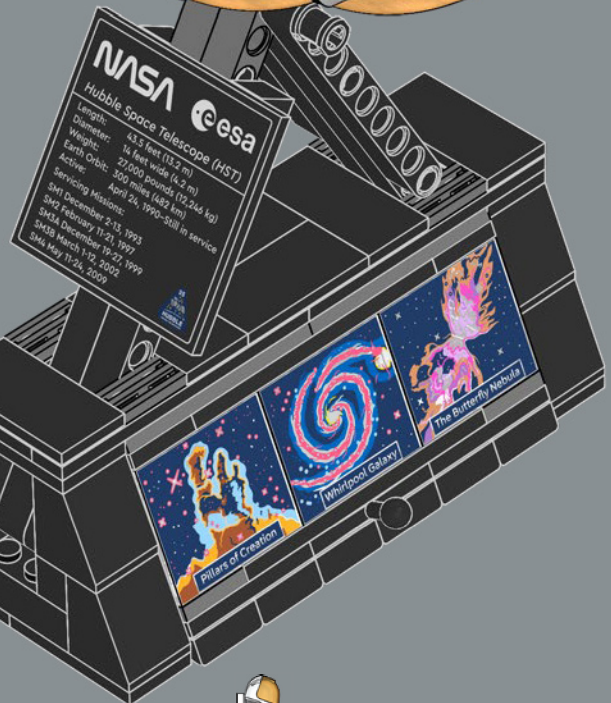
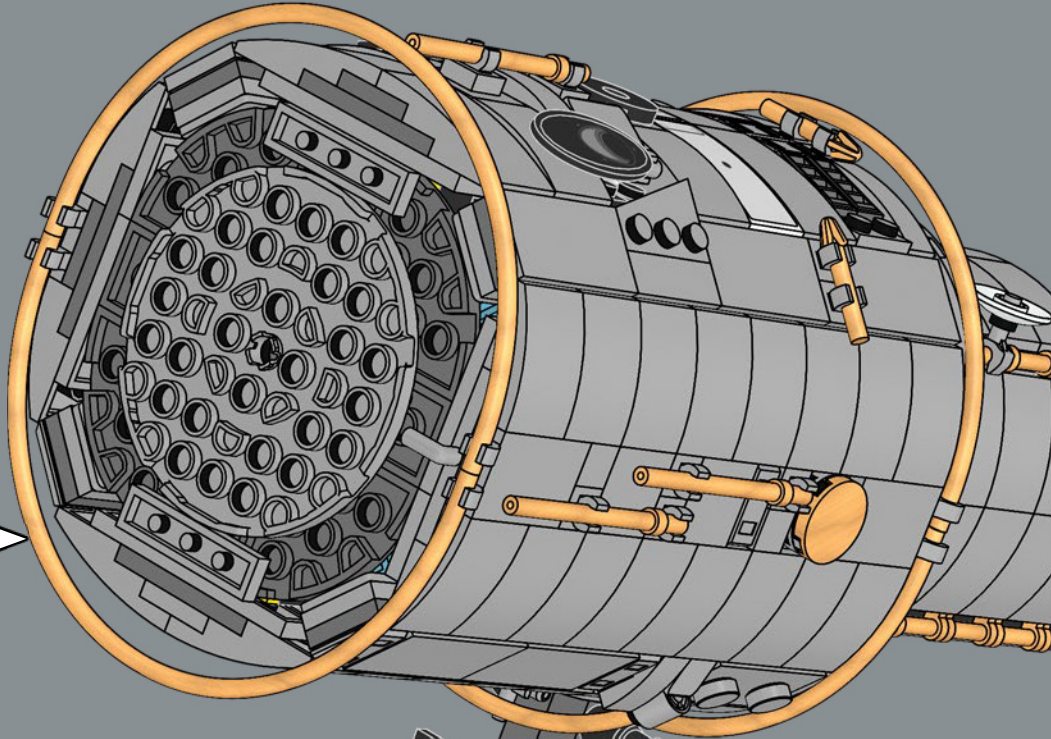


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306

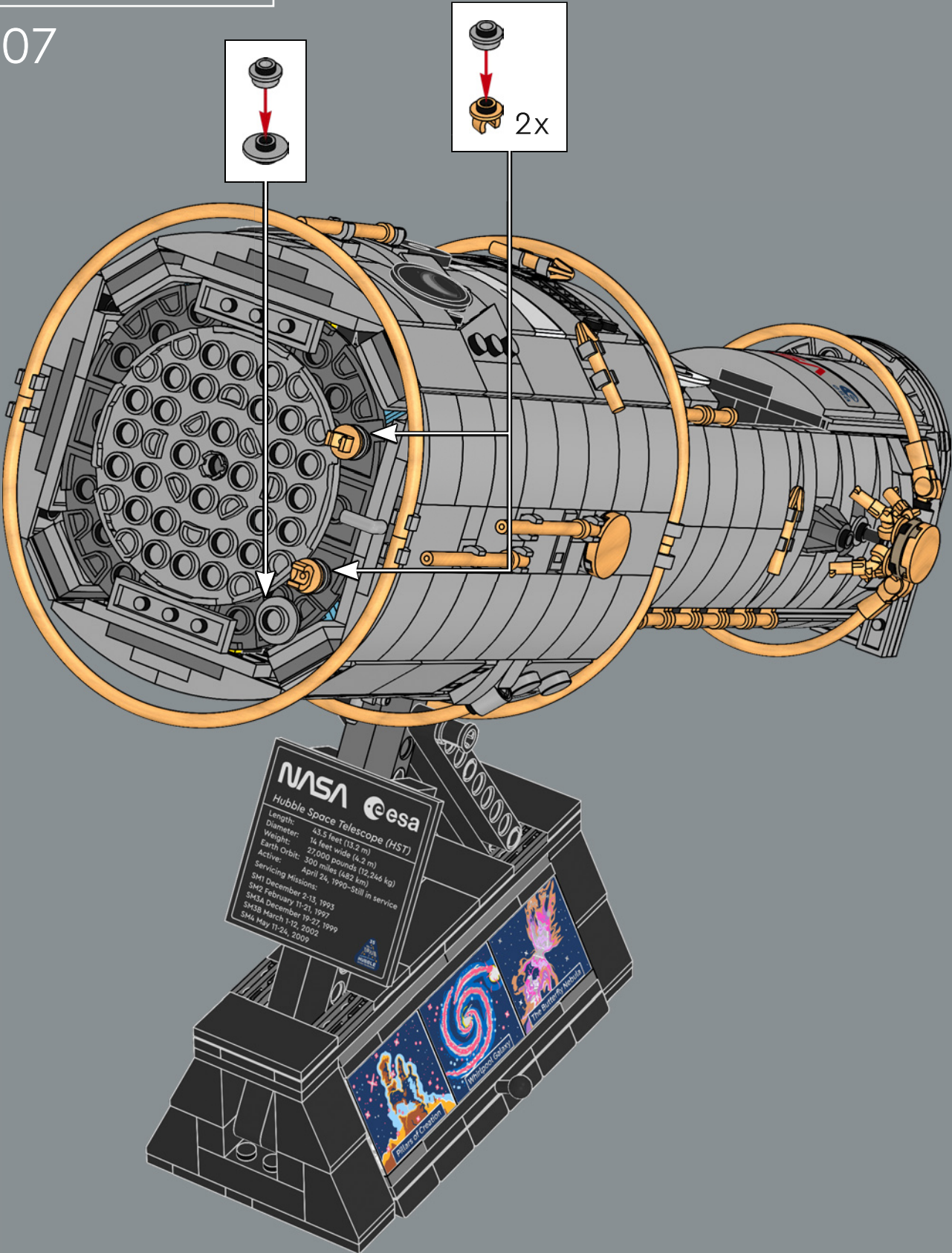


3x

2x

1x

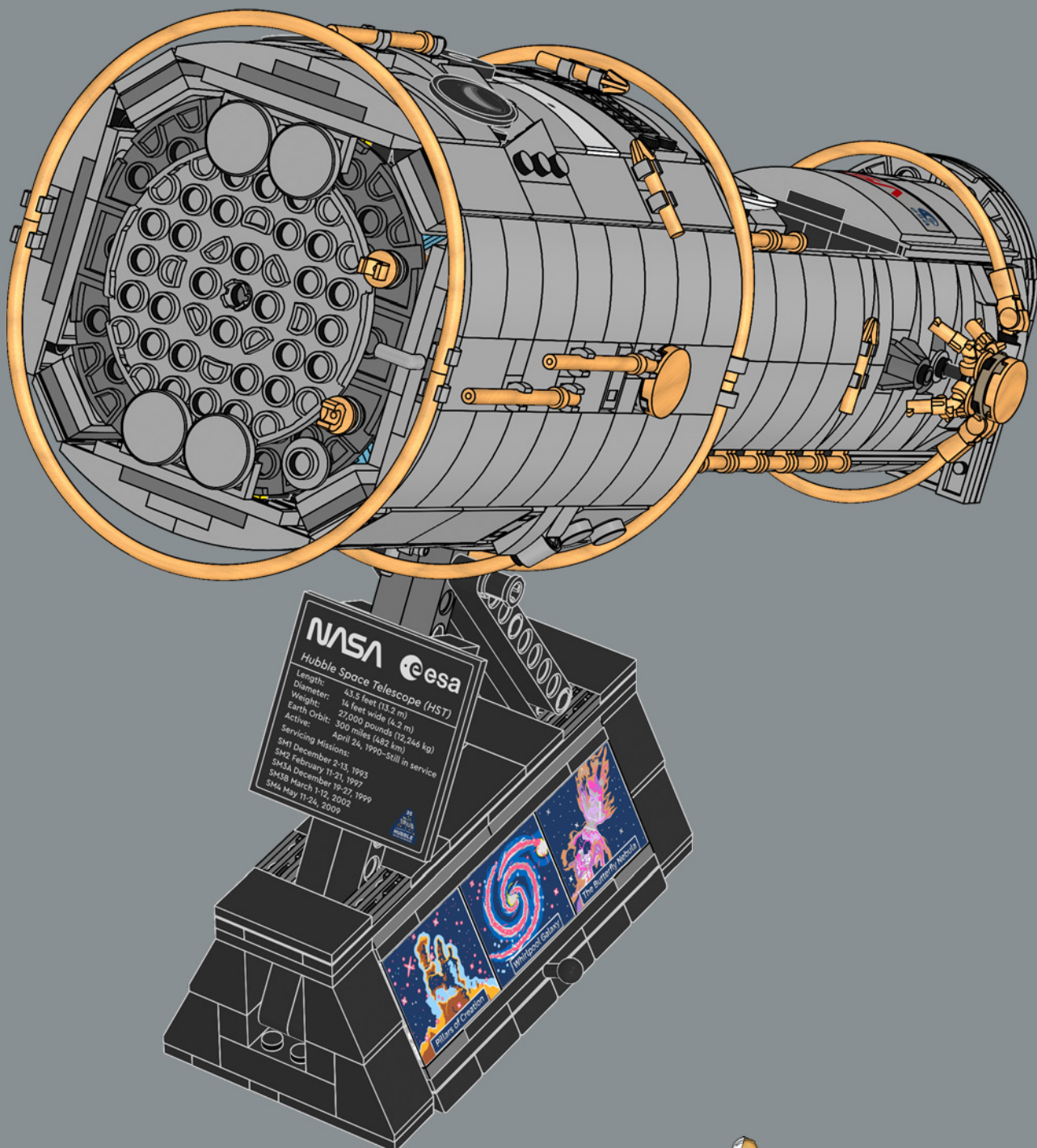
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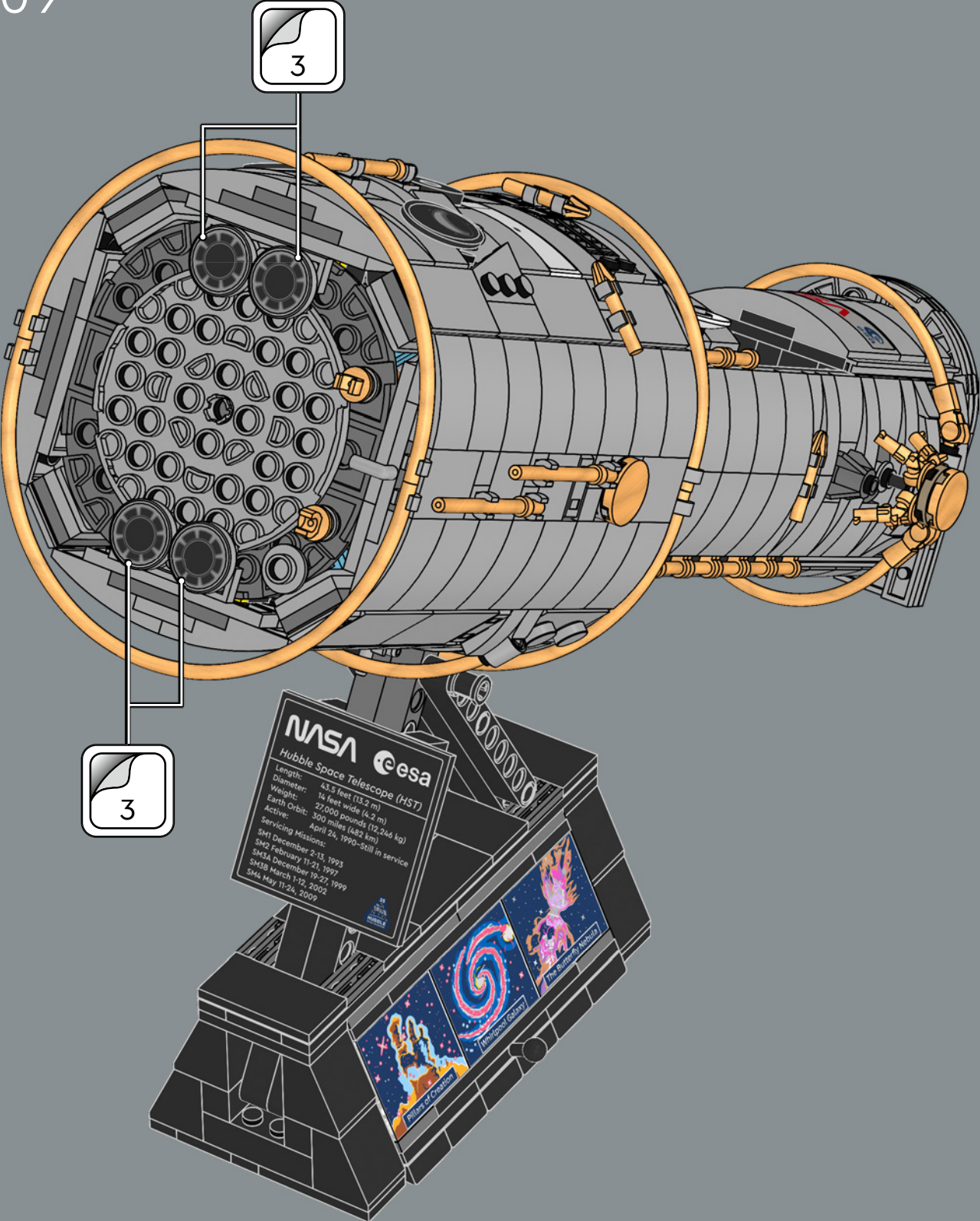


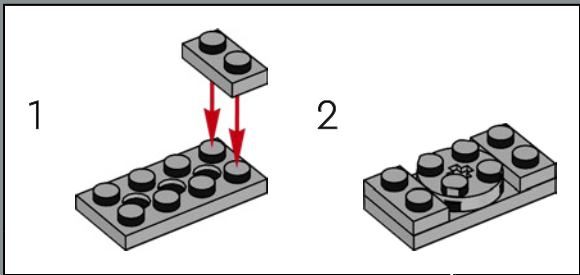
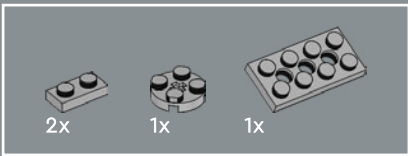


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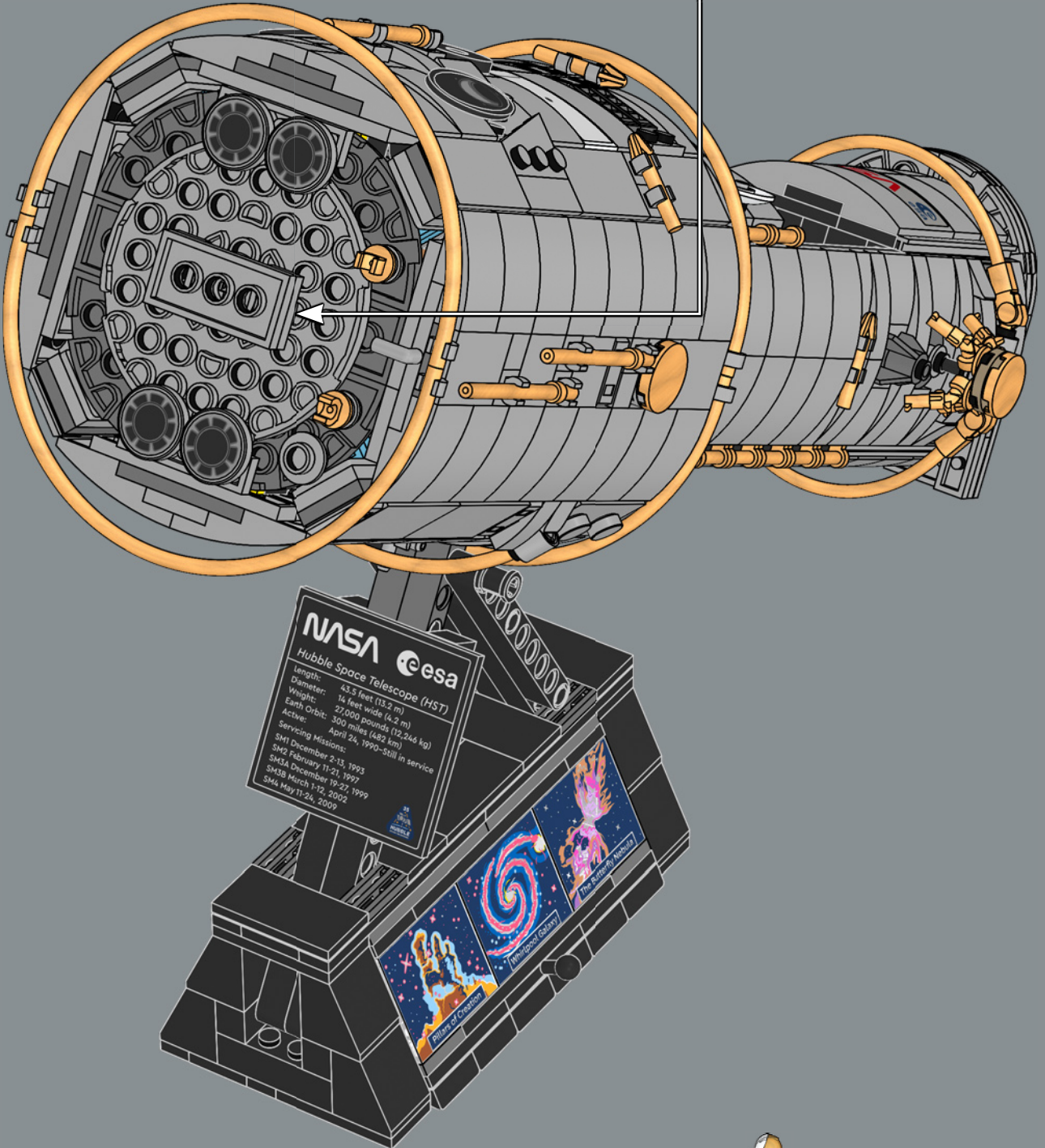
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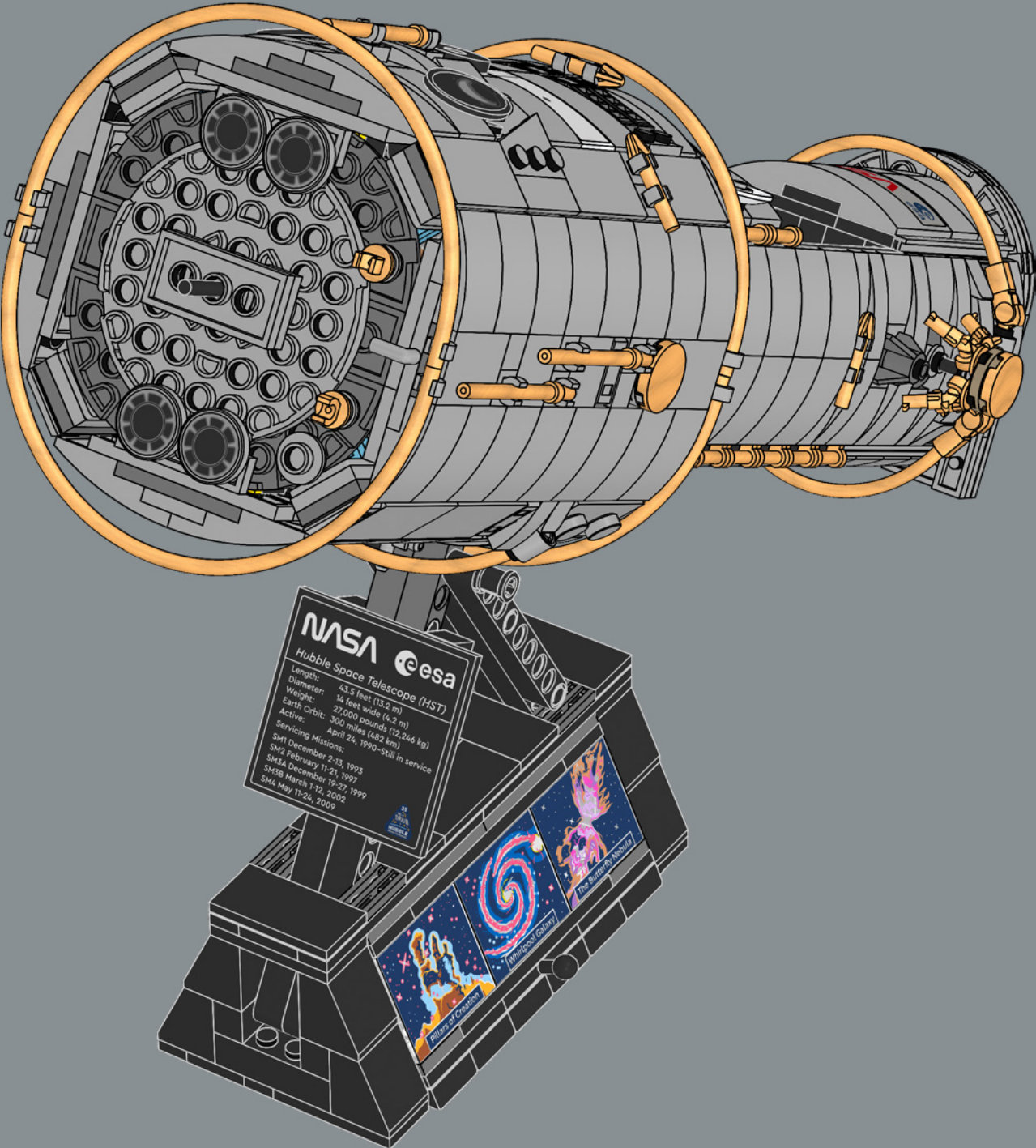


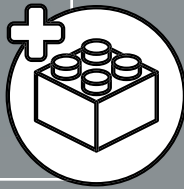
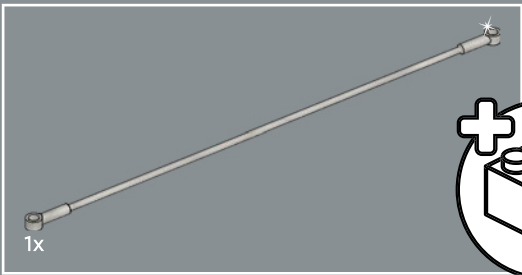
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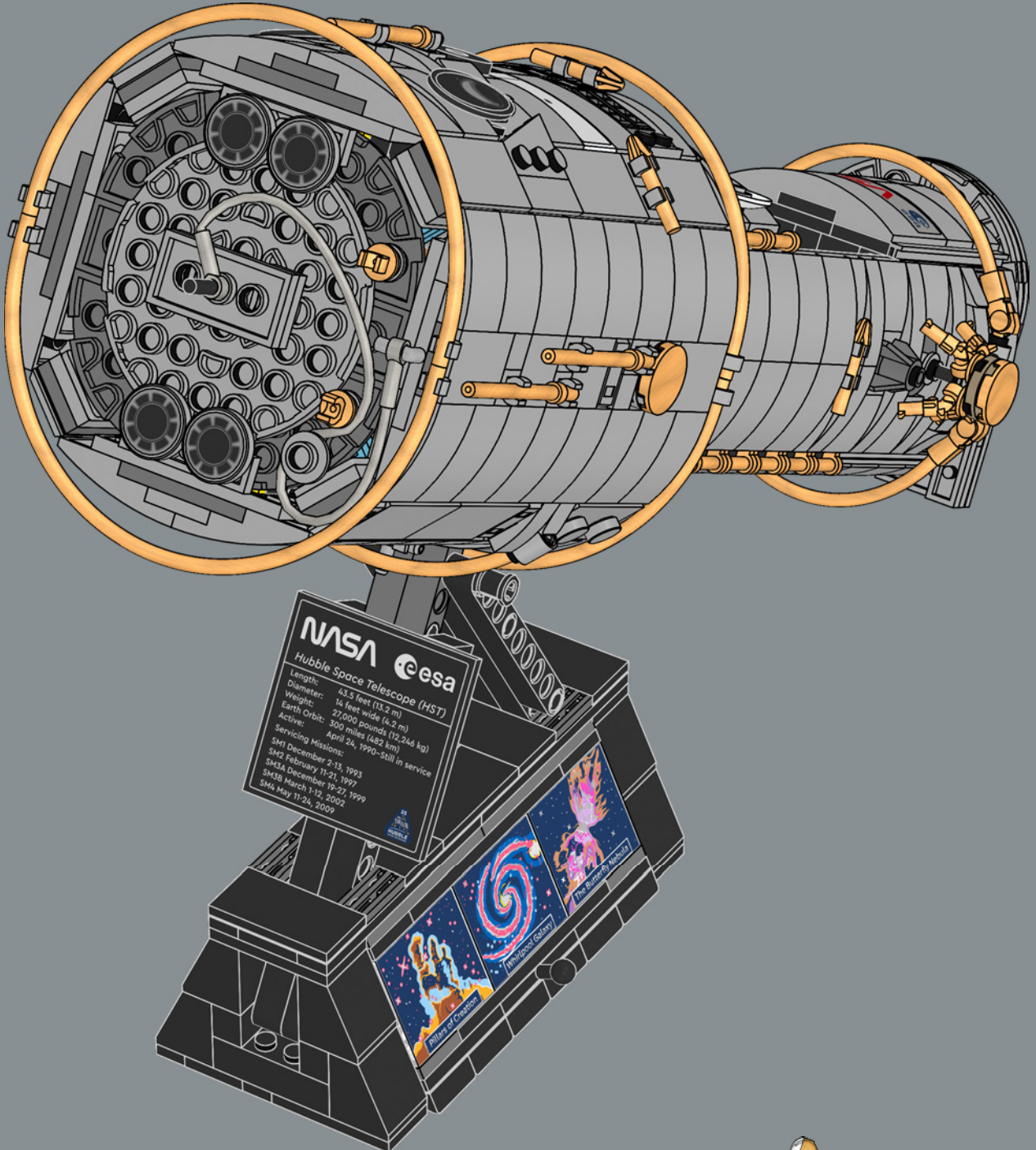


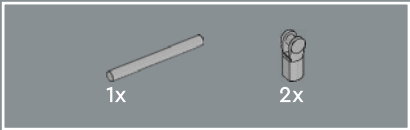
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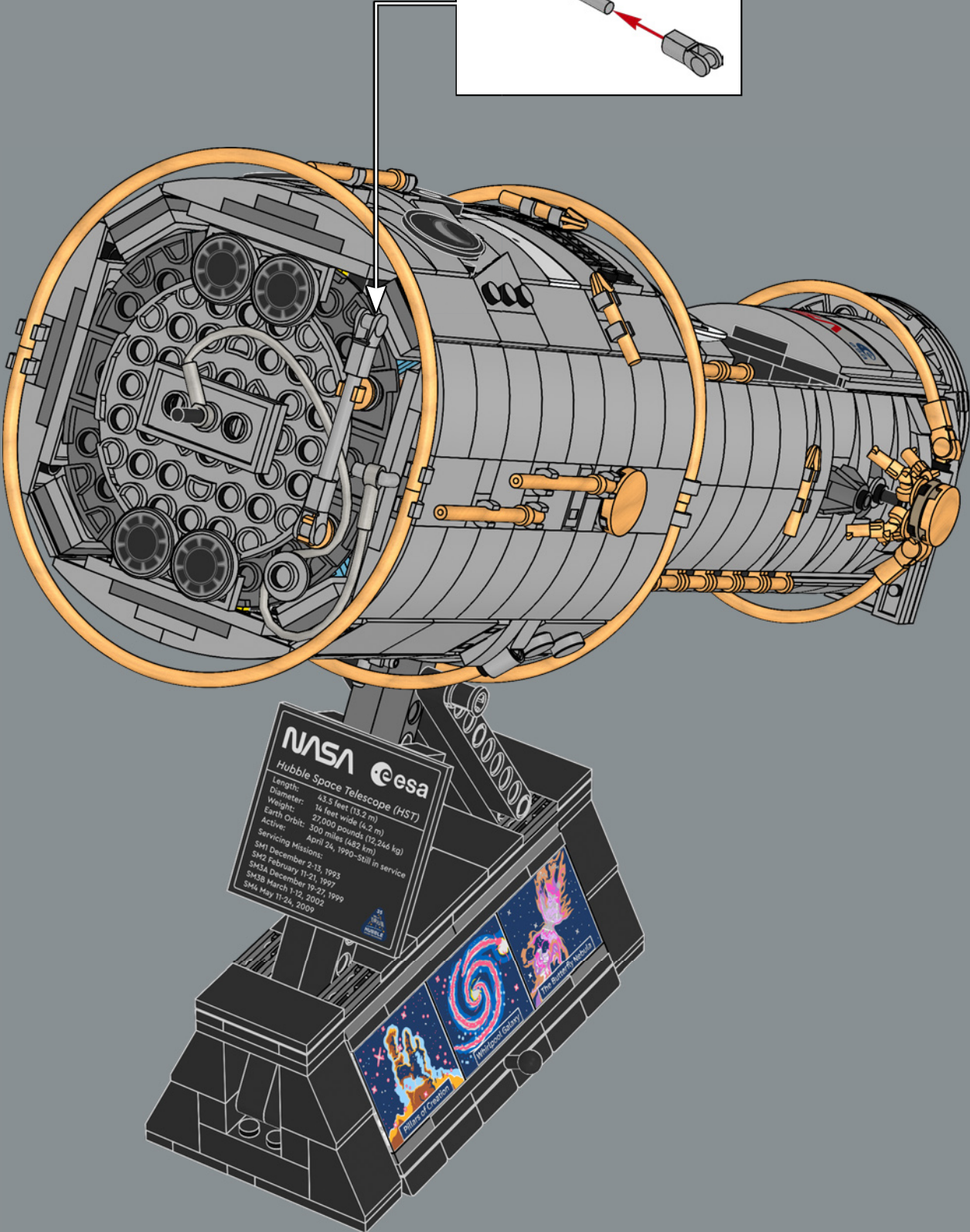
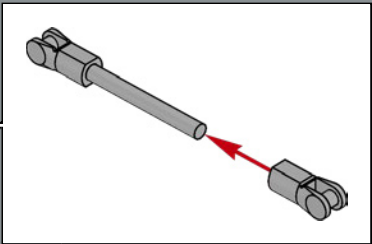


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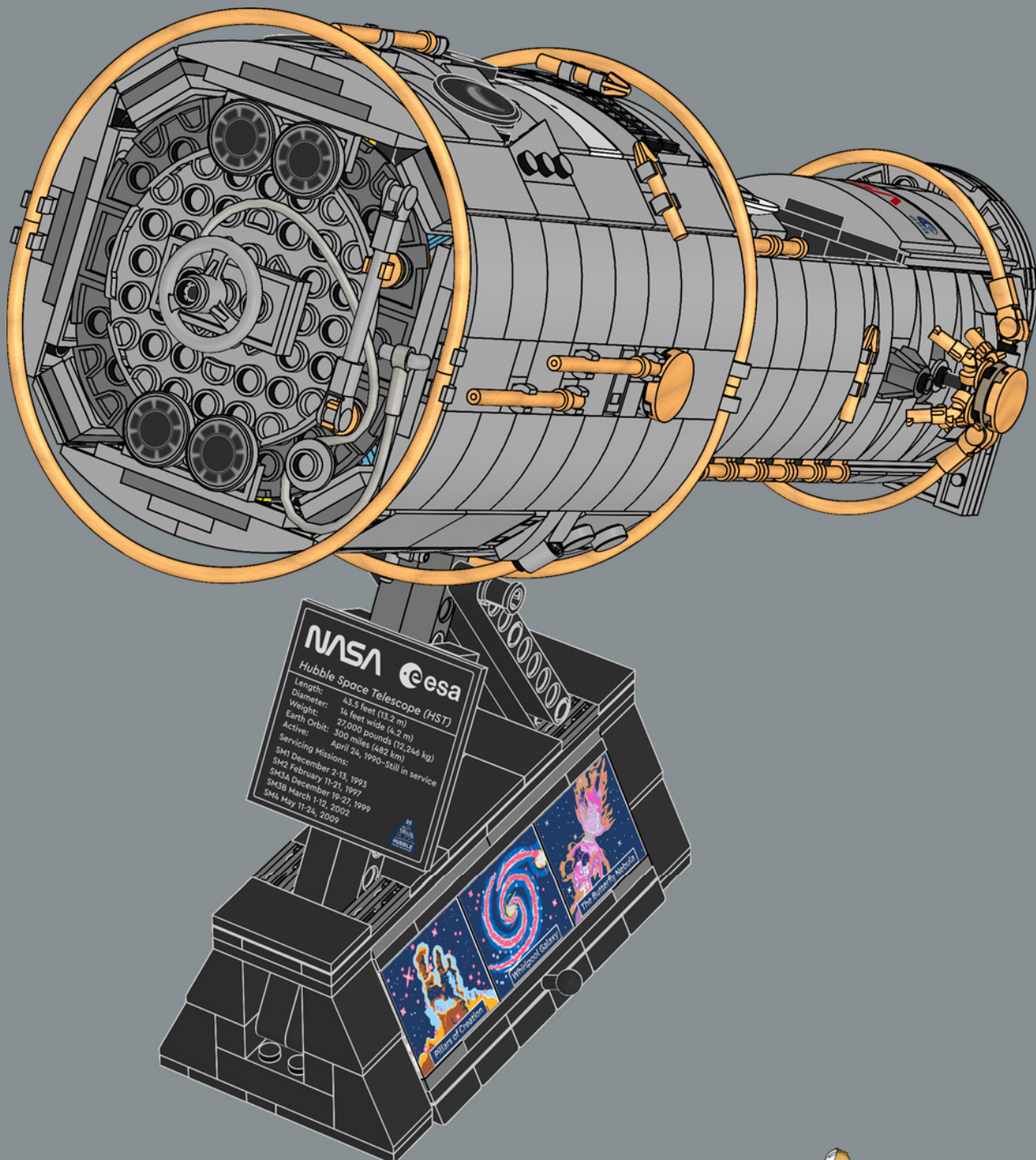
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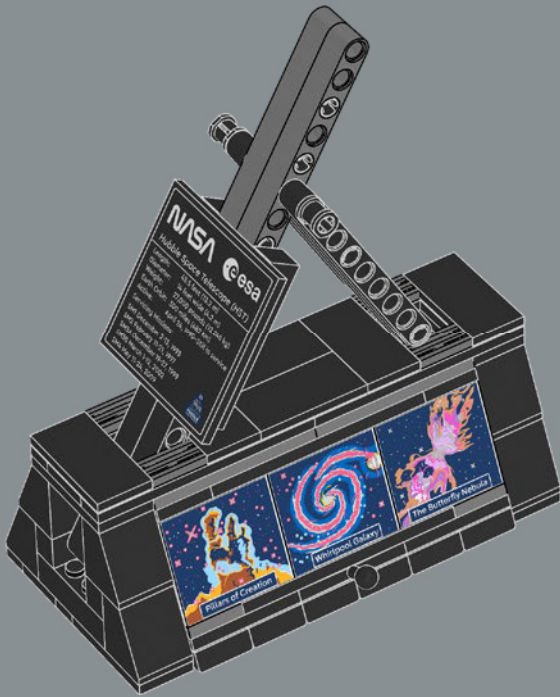
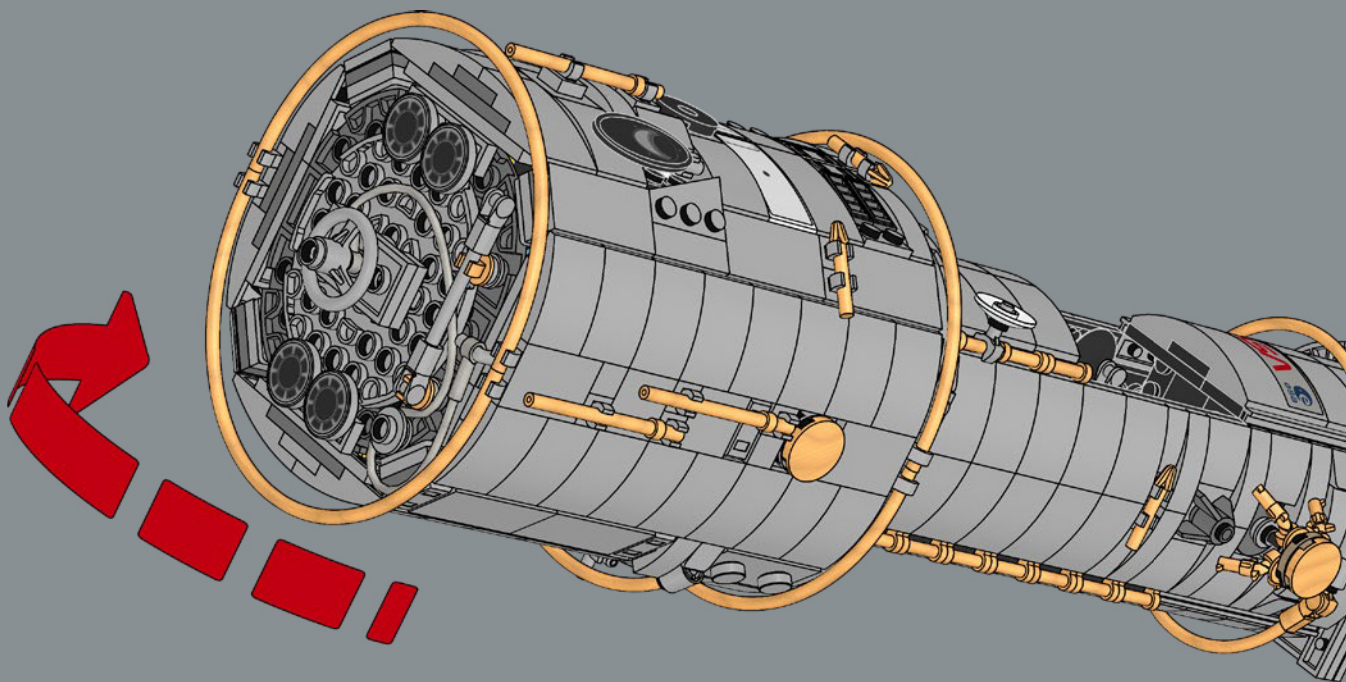


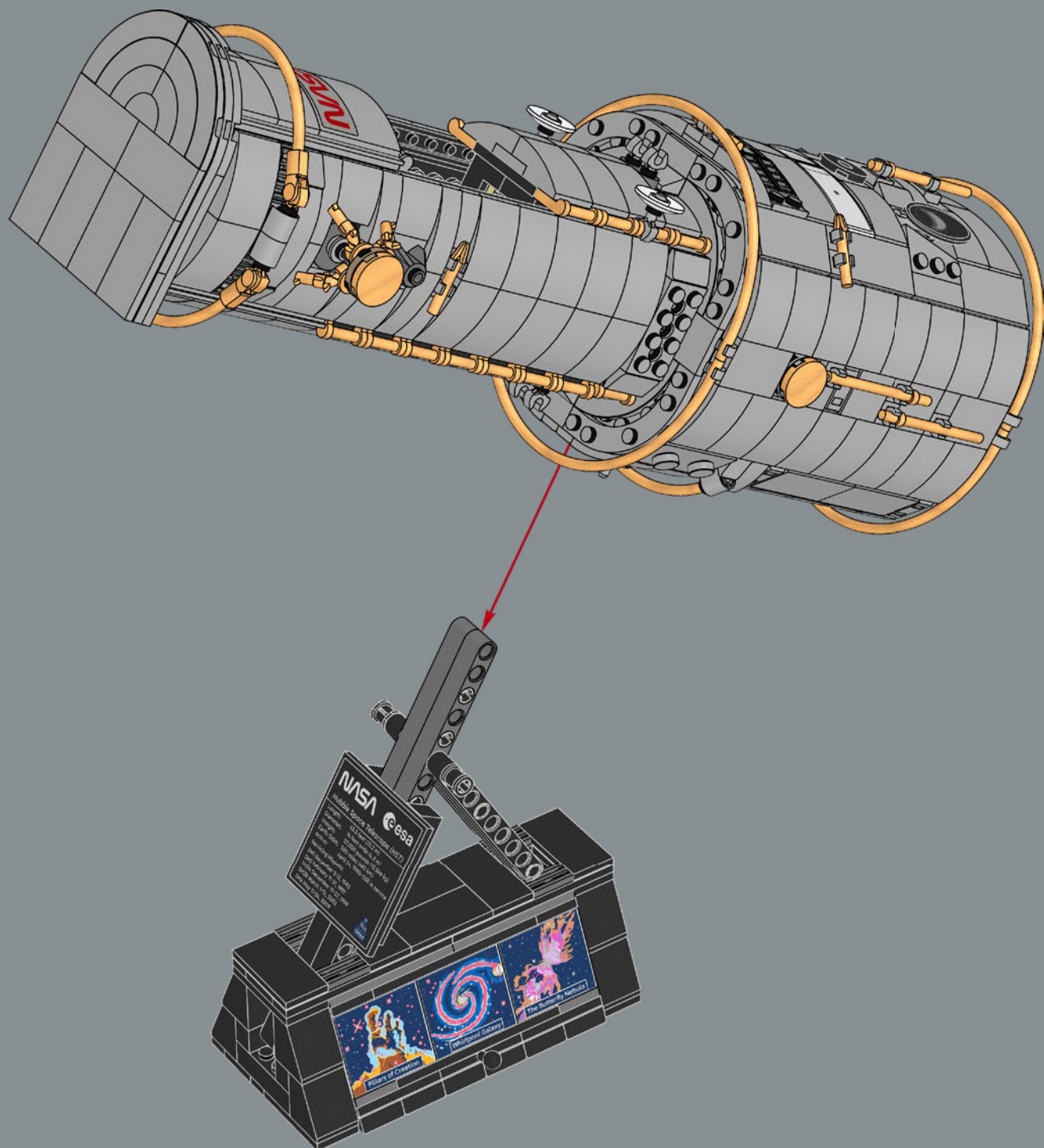


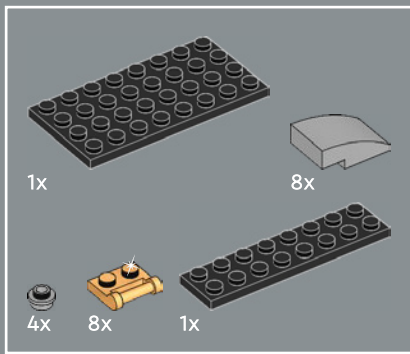
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314



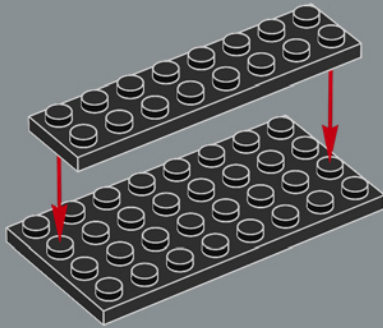




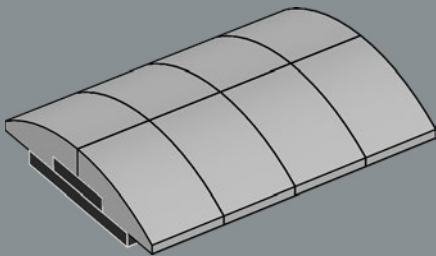


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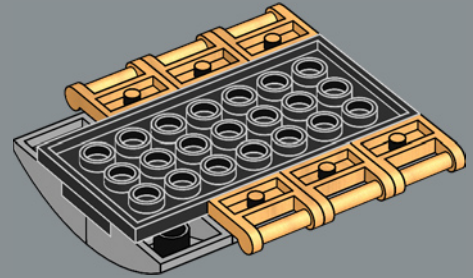
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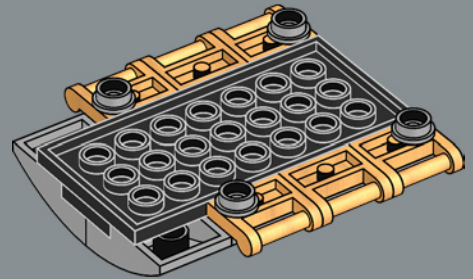
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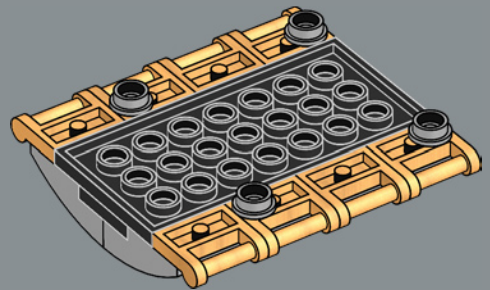
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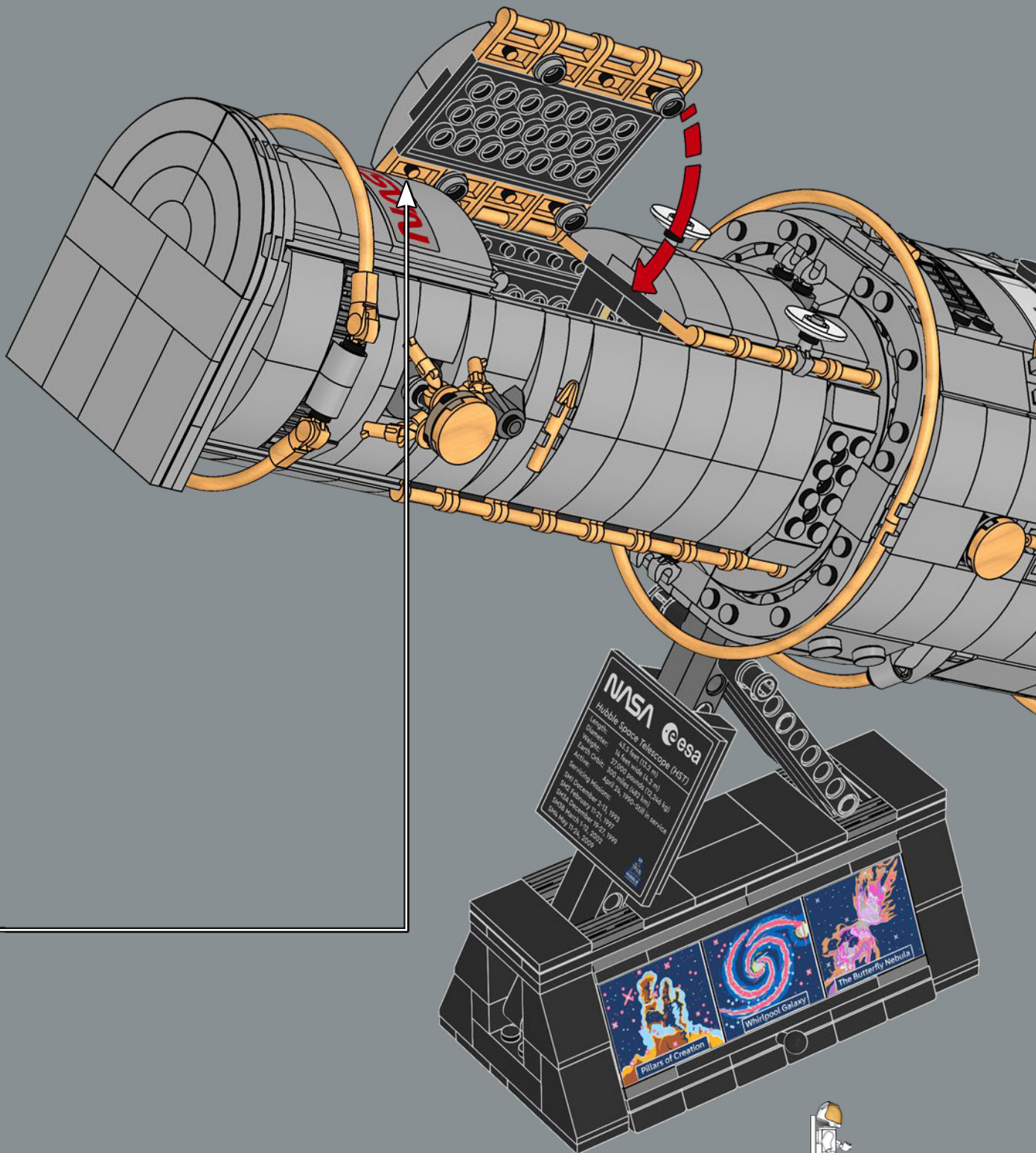


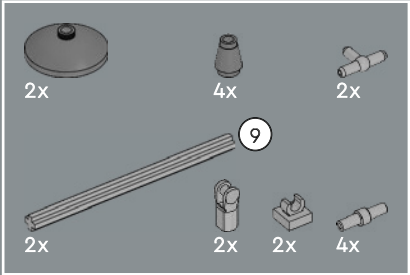
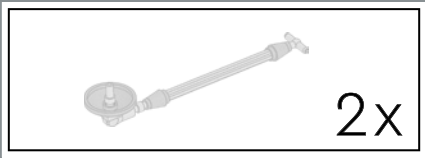
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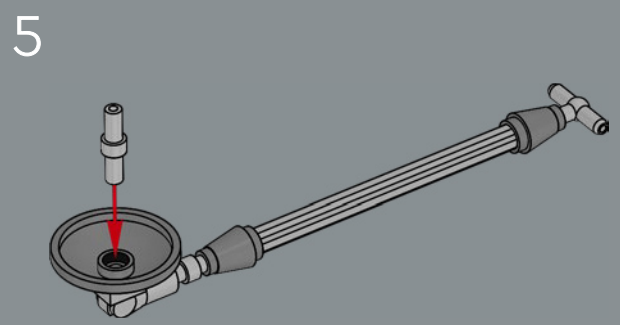
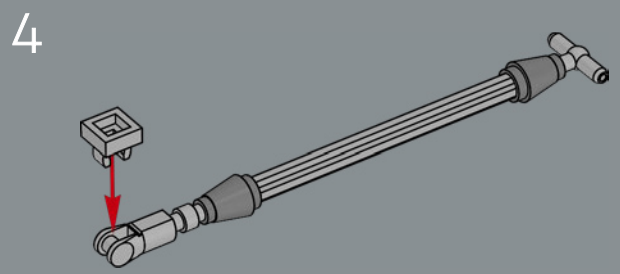
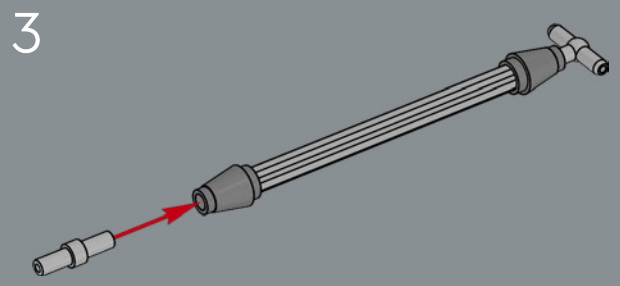
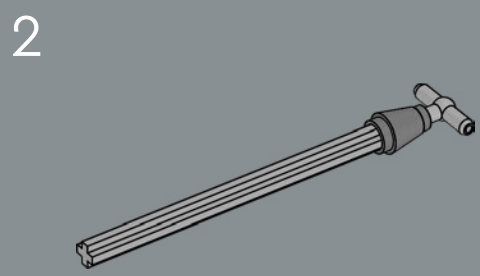
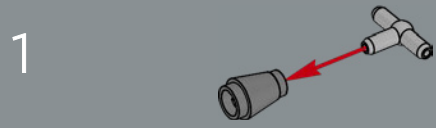
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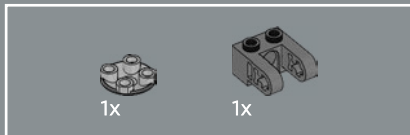
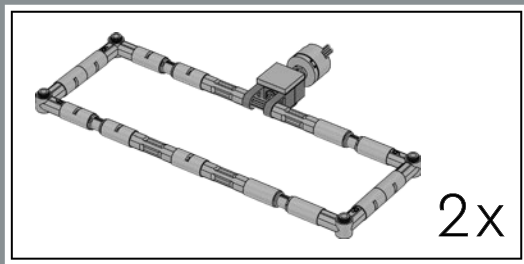
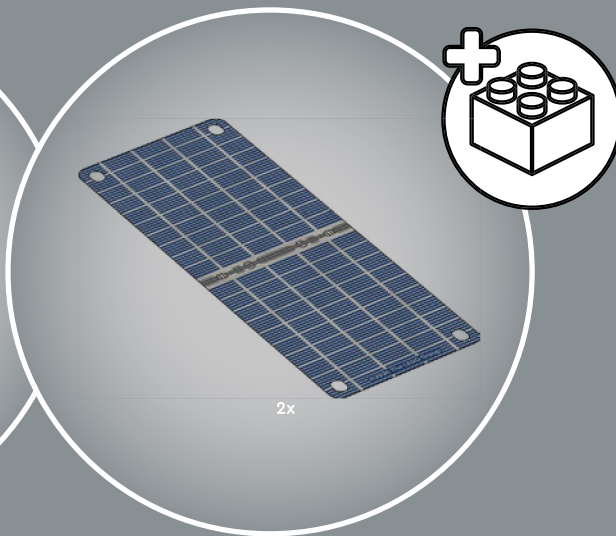


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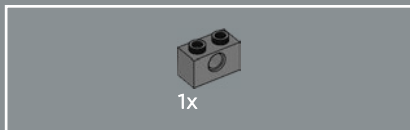
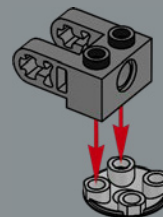


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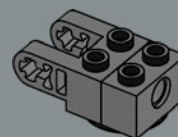


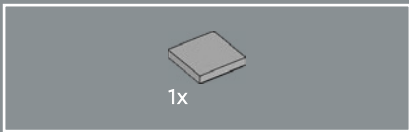


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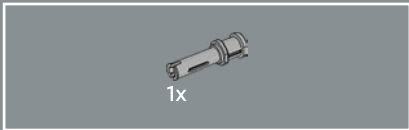
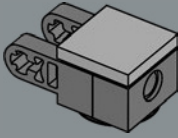


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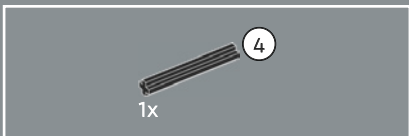
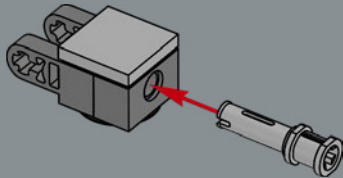




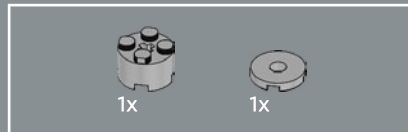
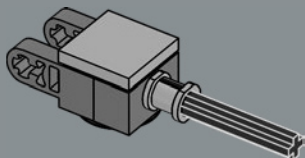
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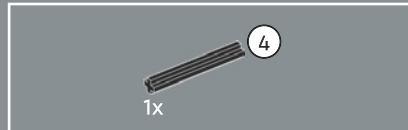
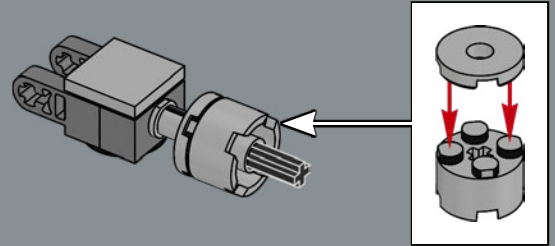
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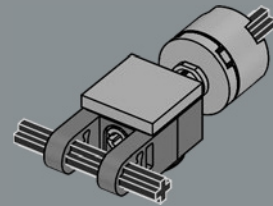
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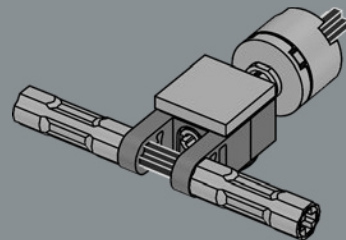
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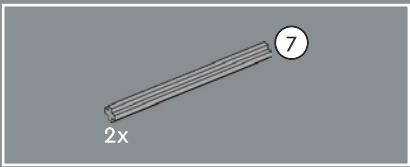


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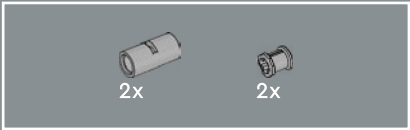
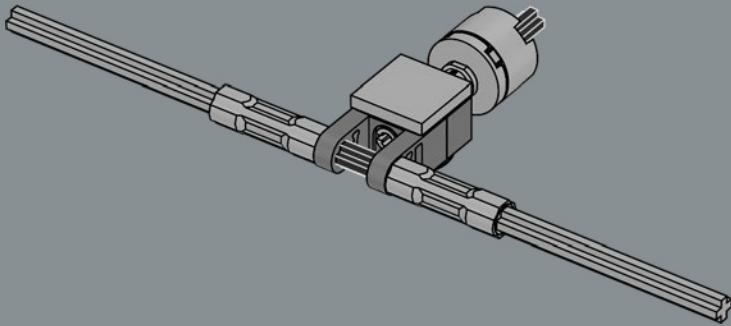


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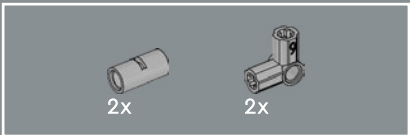
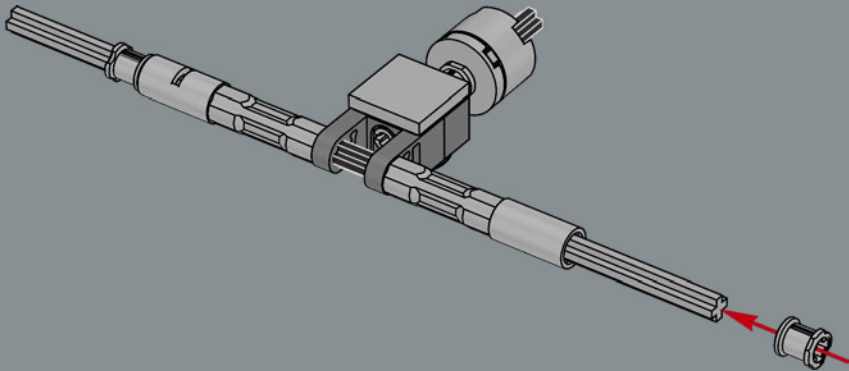




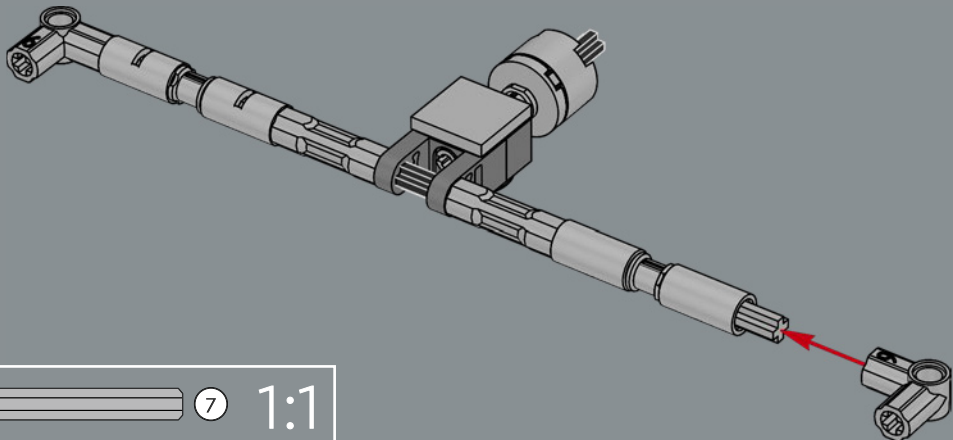
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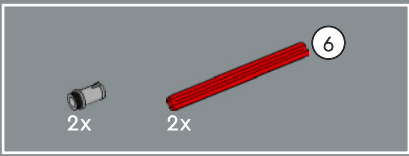


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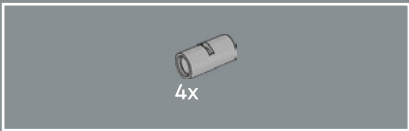
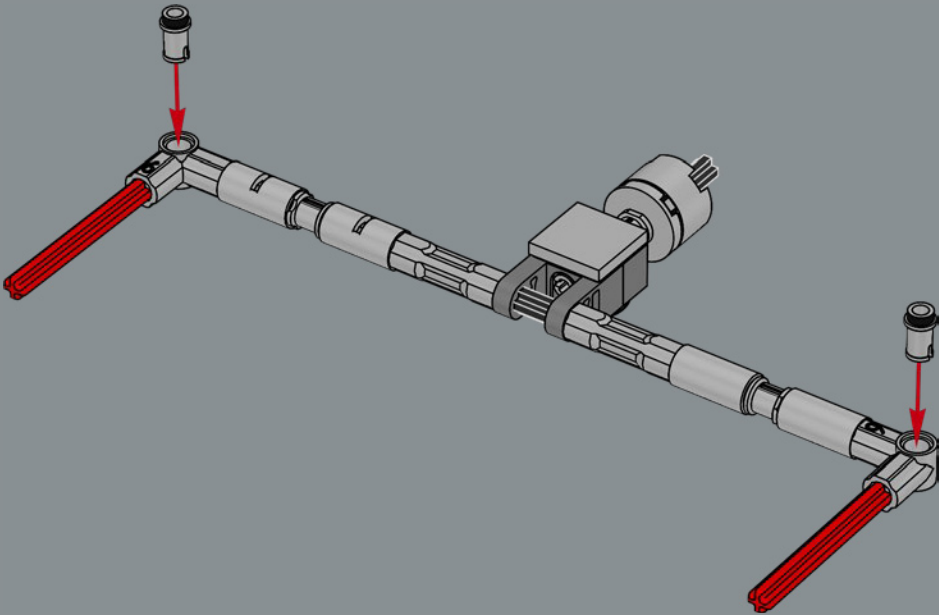


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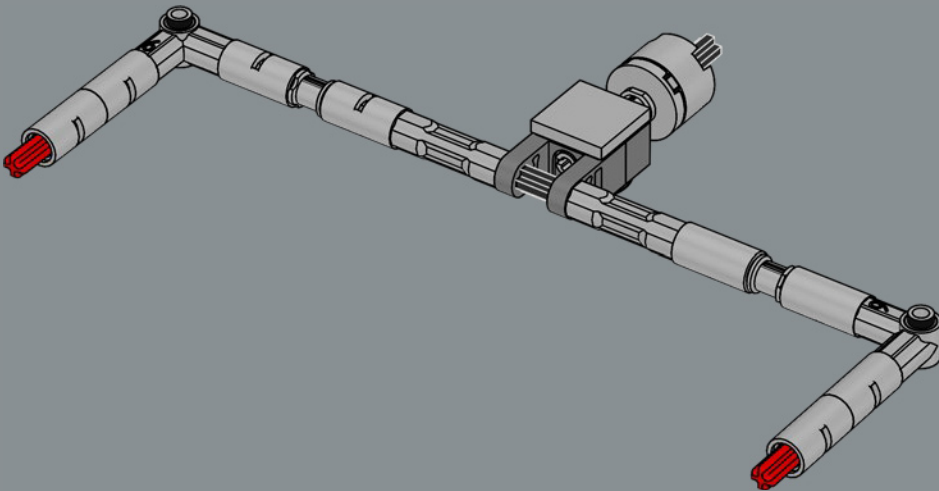


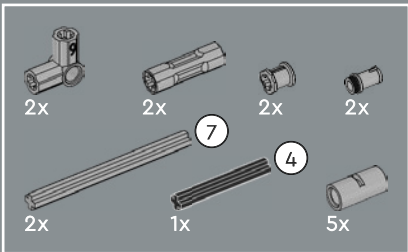
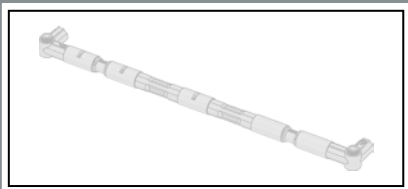


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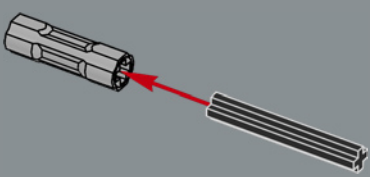
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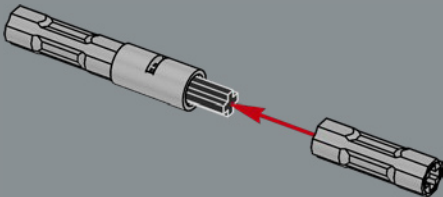


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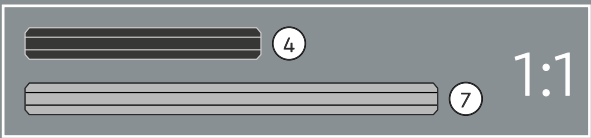
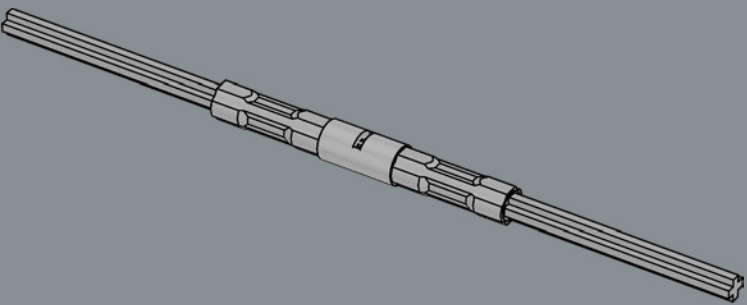
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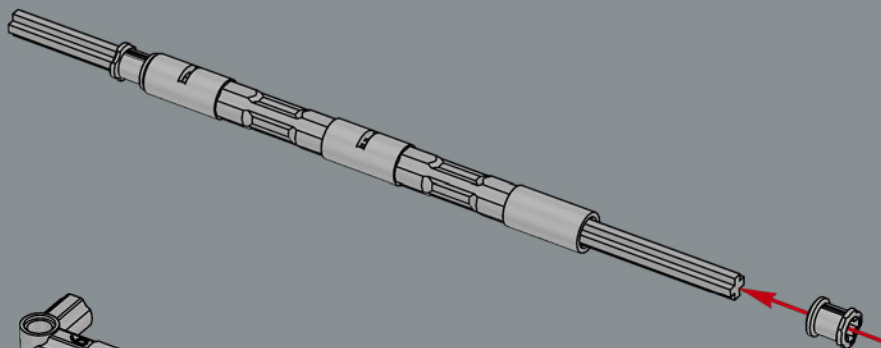
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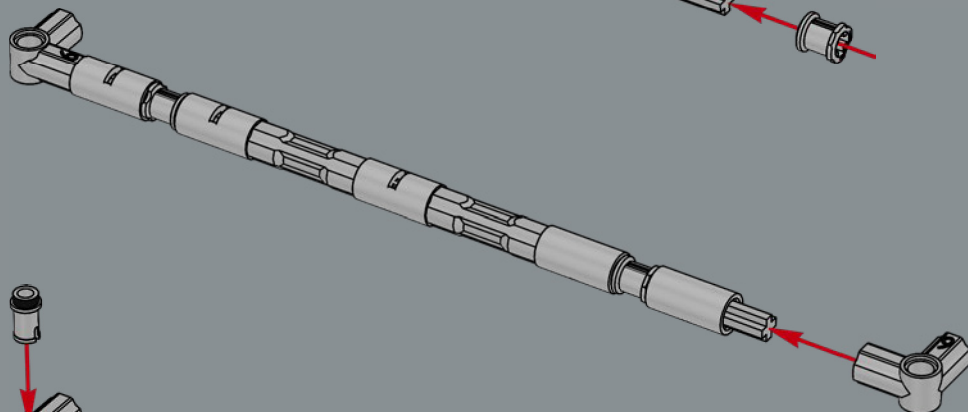
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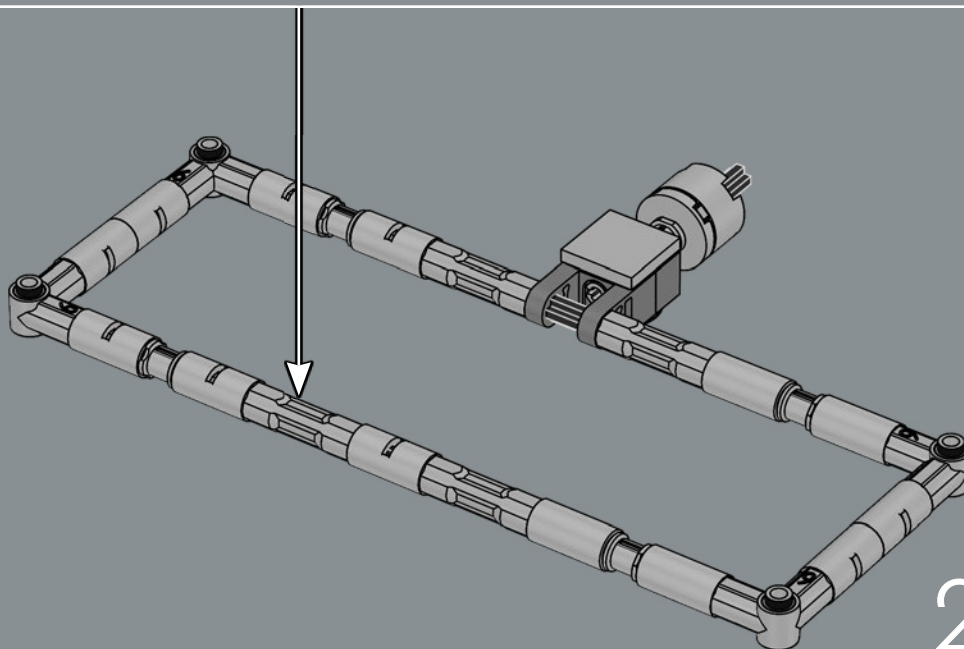
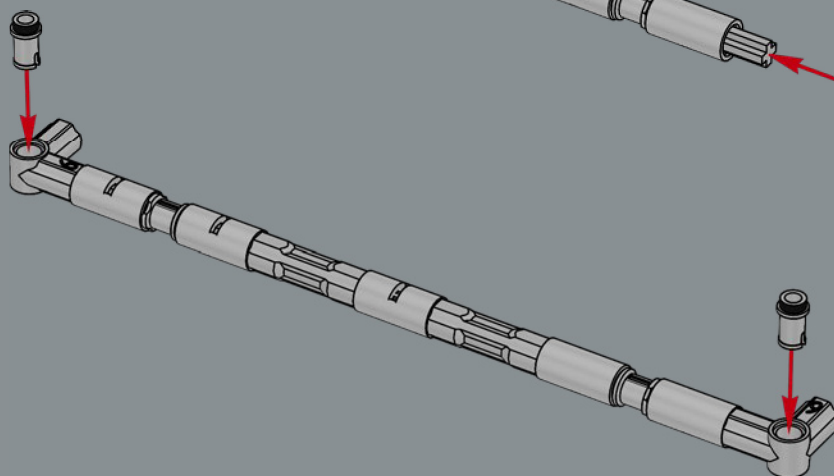
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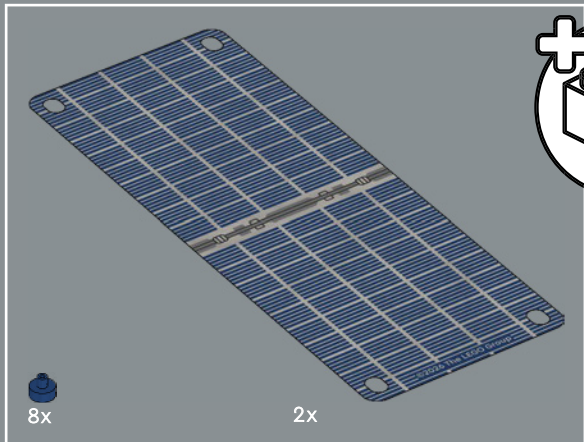


6



2x

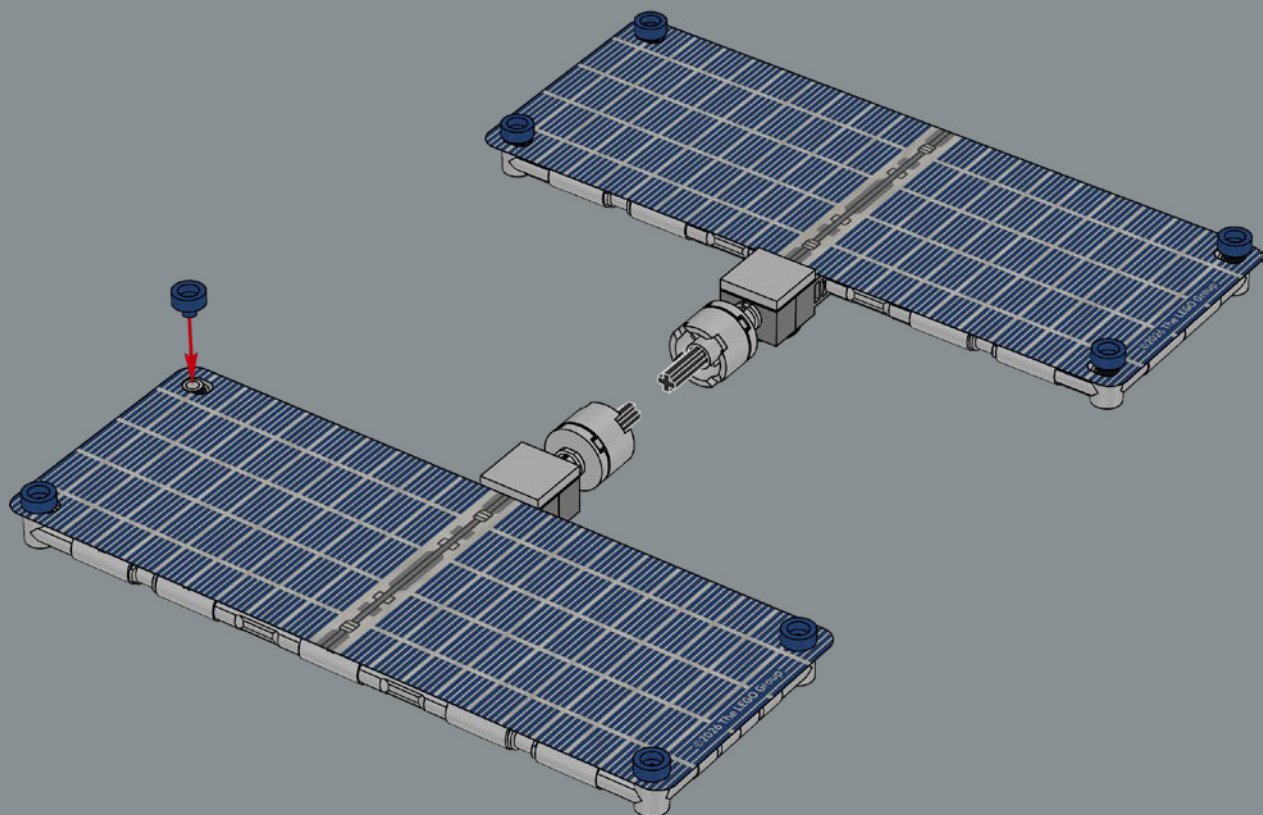


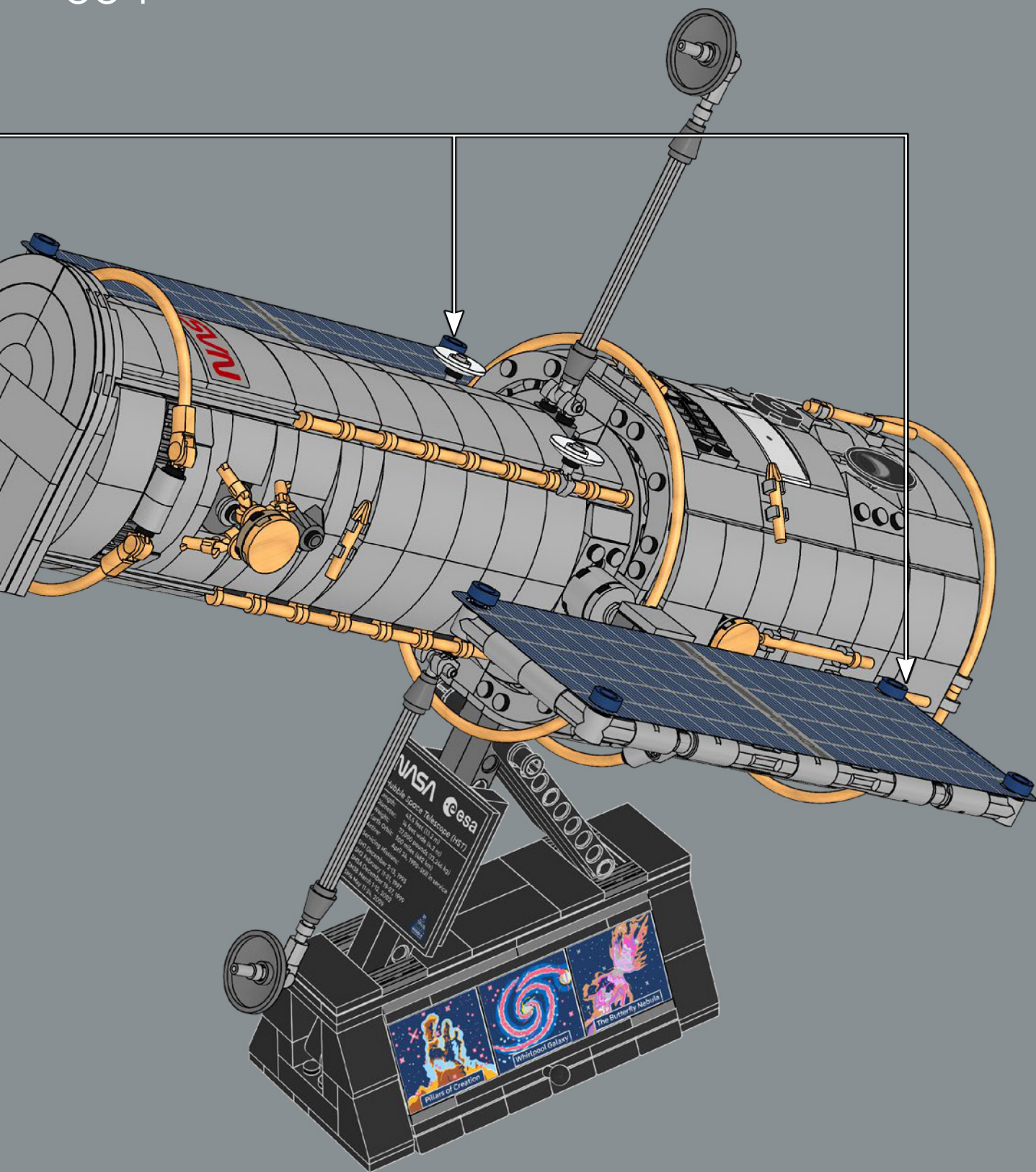


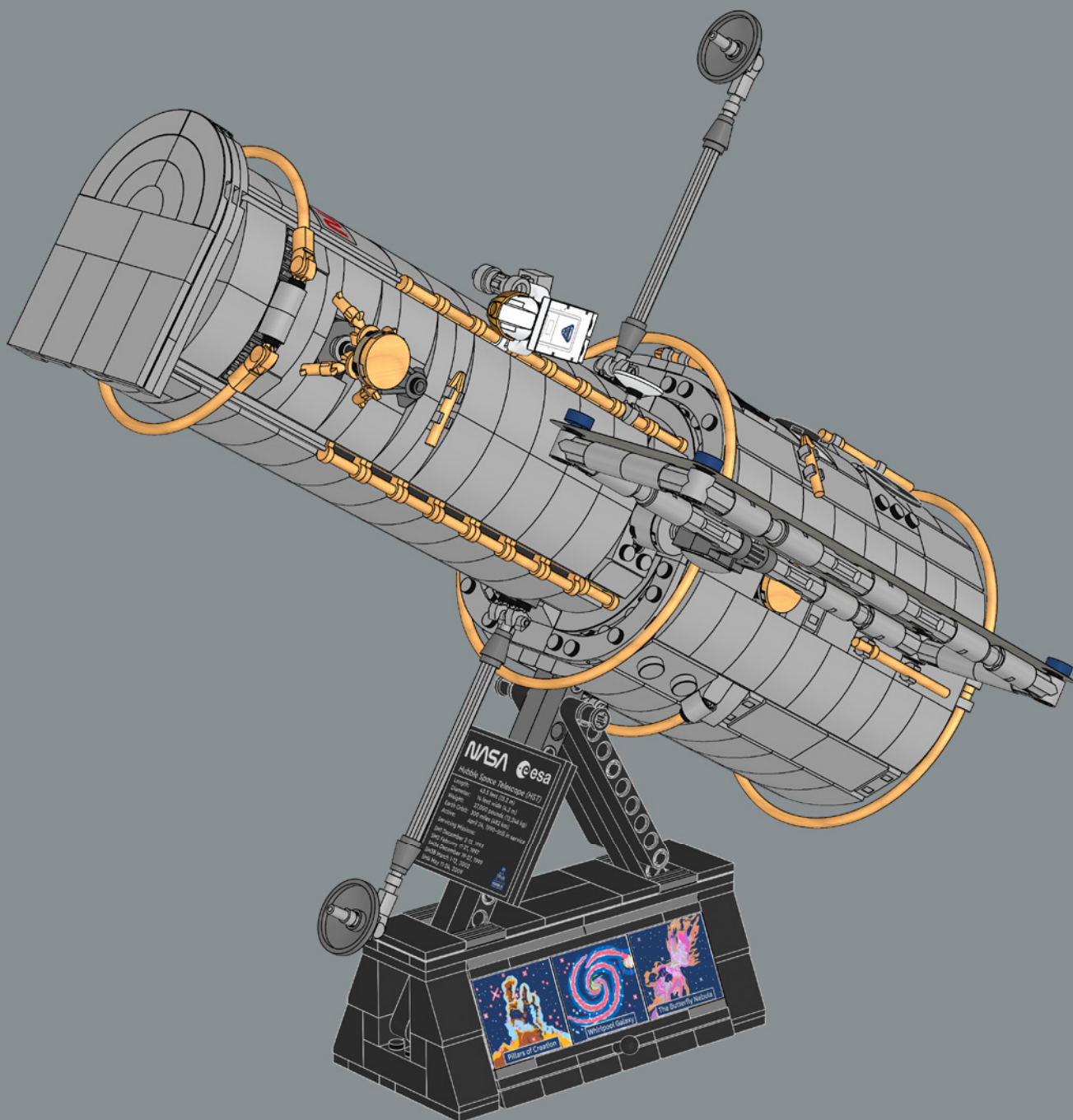
I pannelli solari di Hubble sono stati sostituiti due volte.
Per questo modello, abbiamo scelto l'ultima versione
installata durante la SM3B nel 2002.



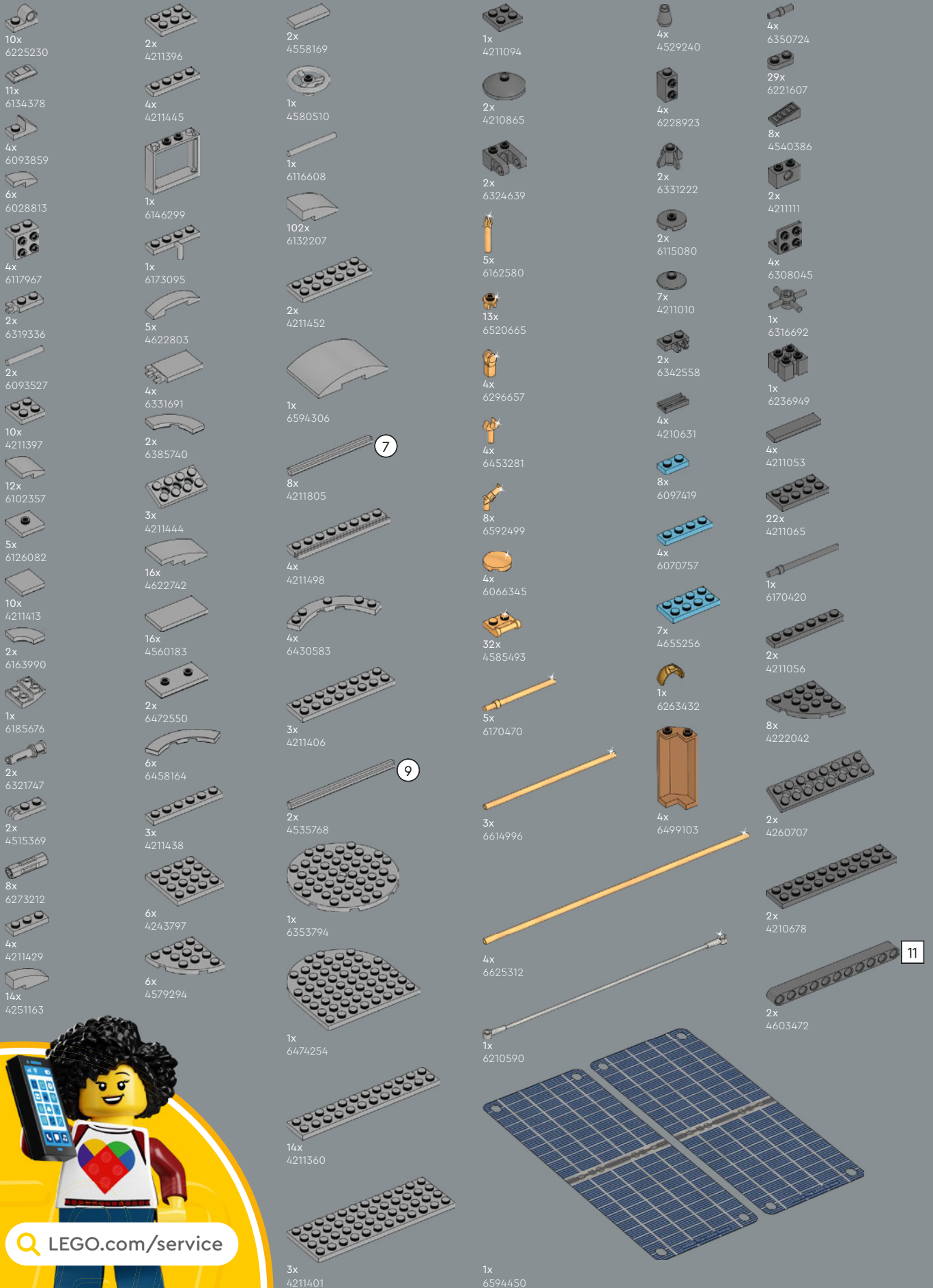
333













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