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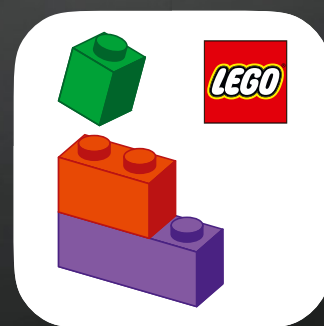


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LEGO® Builder



Nuestra ventana al universo

Roma no se construyó en un día, y estudiar, entender y explorar un universo que tardó 13.800 millones de años en formarse requerirá el trabajo de generaciones. No obstante, los avances tecnológicos de las últimas décadas nos han ayudado a comprender mejor su inmensidad, origen y composición. A su vez, eso ha suscitado reflexiones más profundas acerca del lugar que ocupamos en el tiempo y el espacio. Resultado de siglos de observación y progresos científicos, el telescopio espacial Hubble ha desempeñado un papel fundamental en algunos de los descubrimientos más revolucionarios sobre nuestro universo de los pasados 35 años.



Noviembre de 1995

La imagen de la nebulosa del Águila (los Pilares de la Creación) revela columnas de gas y polvo en las que se forman estrellas.

Imagen: NASA, ESA/Hubble, STScI, J. Hester y P. Scowen (Universidad Estatal de Arizona)



Enero de 2005

La espectacular galaxia espiral Messier 51, o galaxia del Remolino, contiene cientos de miles de millones de estrellas y nebulosas de formación estelar activas.

Imagen: NASA, ESA, S. Beckwith (STScI) y el equipo de Hubble Heritage (STScI/AURA)



Julio de 2009

La nebulosa de la Mariposa nos permite comprender mejor las emanaciones de gas de una estrella moribunda y cómo se forman las estructuras cósmicas con las que comparte características.

Imagen: NASA, ESA y el equipo de Hubble SM4 ERO



Impresiones del equipo de diseño de LEGO® Icons

Las fascinantes imágenes y los datos proporcionados por el telescopio espacial Hubble han acercado a la Tierra los confines más distantes del universo. Mientras continúa inspirando a los científicos y despertando la imaginación del público, su significado histórico es algo que apenas empieza a quedarnos claro. Es a ese legado a lo que quisimos rendir homenaje. Con este modelo construido a escala de minifigura LEGO® podrás inspeccionar el interior del telescopio y algunos de sus instrumentos, además de recrear y mostrar elementos de su misión en curso. Su autenticidad no es casual: proviene de nuestra magnífica colaboración con la NASA y la ESA. Con su ayuda, hemos dado forma a un robusto modelo repleto de elaborados detalles, como la evolución visual de los paneles solares. La cuenta atrás acaba de empezar: ¡preparate para construir y explorar!



Una asociación estelar

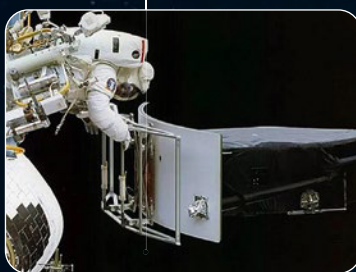
En el marco de una colaboración continua, la NASA y la ESA aúnan sus recursos y contribuciones al programa Hubble para revolucionar la astronomía. Ambas agencias comparten los descubrimientos derivados del tiempo de observación, que asigna un panel internacional atendiendo exclusivamente a criterios de mérito científico. La ESA tiene garantizado un acceso del 15 %, aunque es común que lo use cerca del 25 % del tiempo total. El telescopio espacial Hubble incorpora pasamanos y componentes sustituibles para facilitar su mantenimiento en órbita. Entre 1993 y 2009, los astronautas de la NASA y la ESA llevaron a cabo varias misiones de mantenimiento (SM) para realizar importantes actualizaciones y reparaciones.

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



24-29 de abril de 1990

Lanzamiento: la lanzadera espacial Discovery llevó el telescopio espacial Hubble al espacio.



2-13 de diciembre de 1993

SM1: se actualizó el telescopio Hubble y se corrigió un defecto de su espejo primario, lo que también solucionó la aberración esférica para el resto de sus instrumentos.

11-21 de febrero de 1997

SM2: se amplió el rango de longitudes de onda visibles para el Hubble con un nuevo espectrógrafo de imágenes del telescopio espacial (STIS) y una cámara y espectrómetro multiobjeto del infrarrojo próximo (NICMOS).



1999

2000

2001

2002

2003

2004

2005

2006

2007

2008

2009

2010



19-27 de diciembre de 1999

SM3A: el Hubble había entrado forzosamente en modo seguro debido al fallo de su cuarto giroscopio. En la misión dividida en dos partes SM3A, las tripulaciones estadounidense y europea colaboraron para restablecer su funcionamiento.



1-12 de marzo de 2002

SM3B: se instalaron dos nuevos paneles solares y se sustituyó la cámara de objetos débiles (el último instrumento original) por la cámara avanzada para sondeos (ACS).

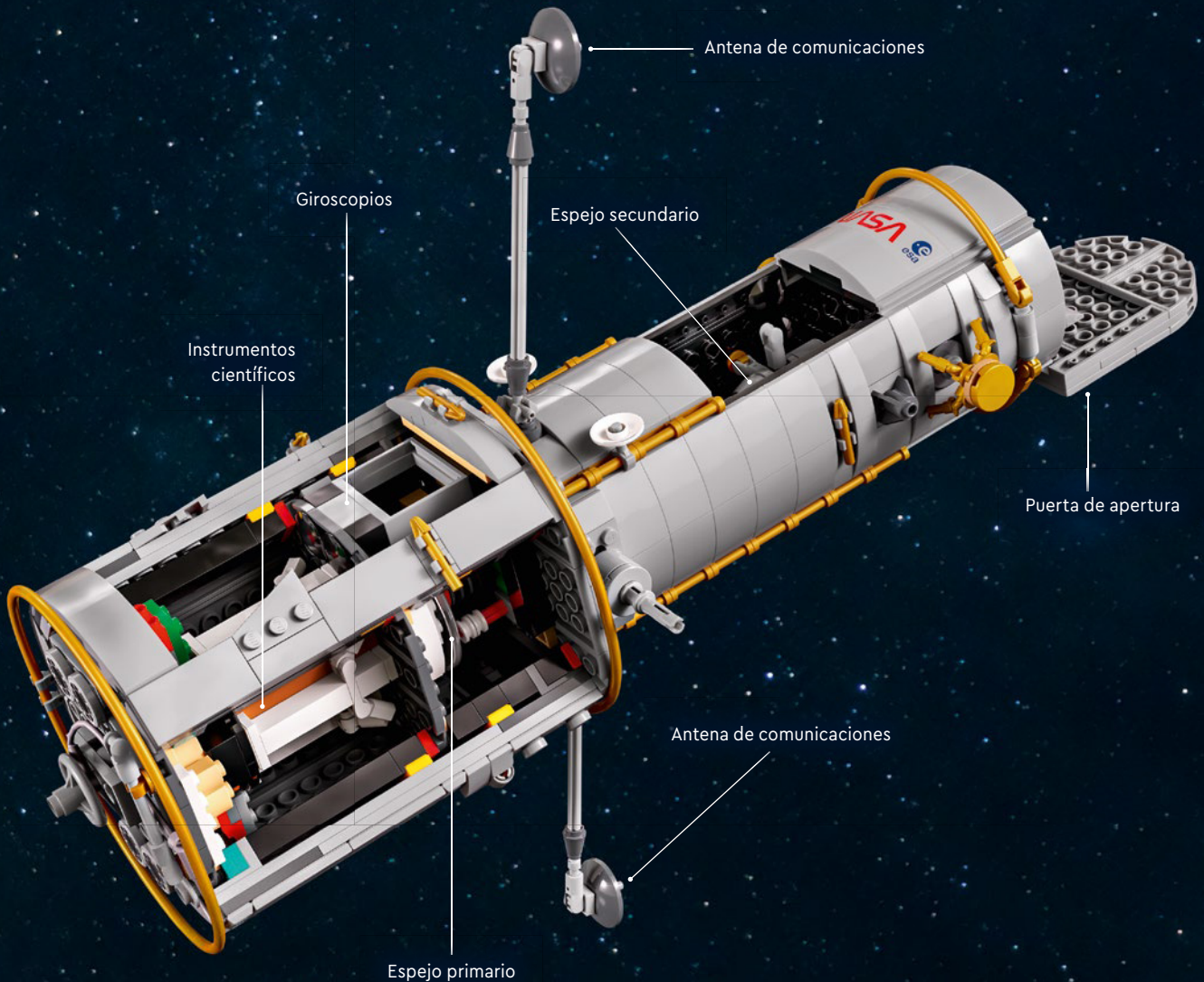


11-24 de mayo de 2009

SM4: se instaló el espectrógrafo de orígenes cósmicos (COS) y la cámara de gran angular 3 (WFC3), un sensor de guiado fino renovado y un dispositivo de acoplamiento para el Hubble.

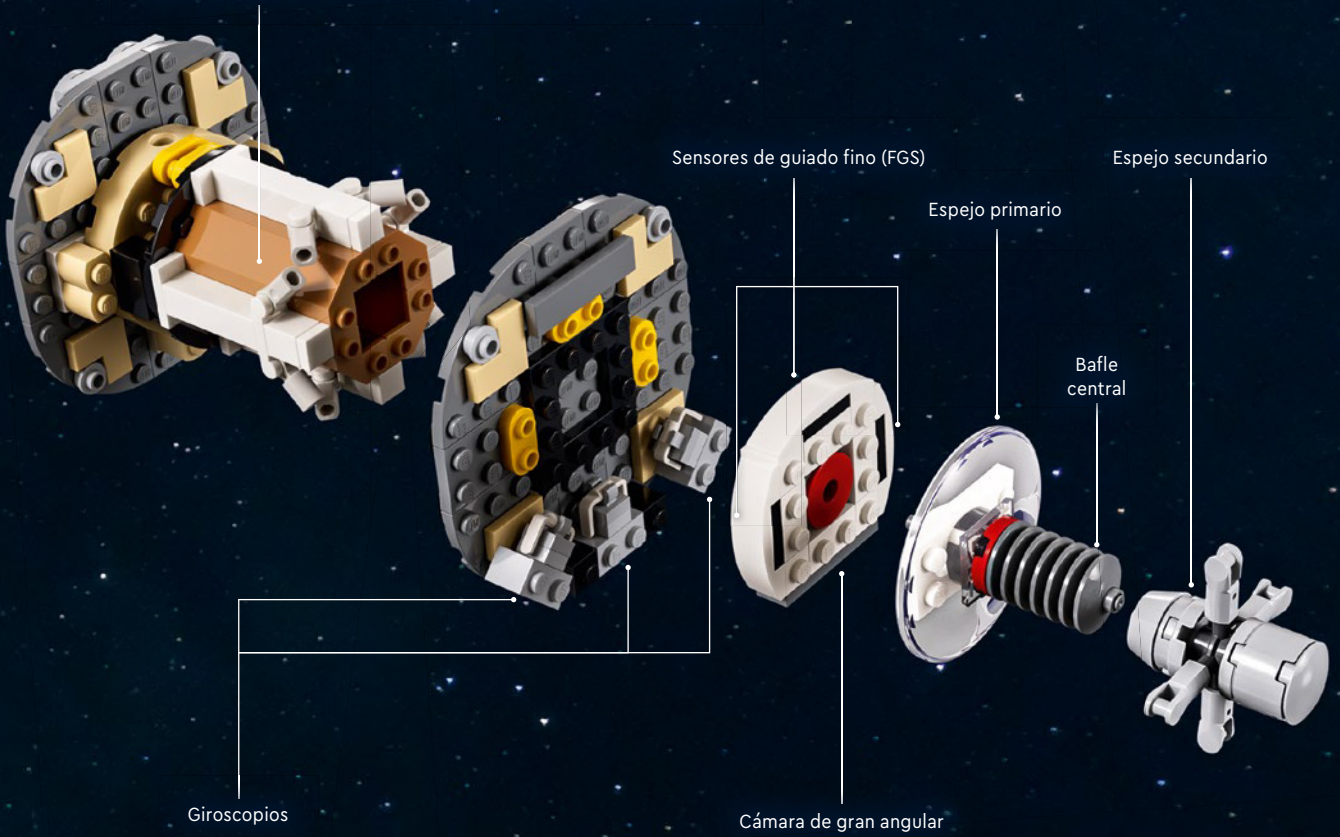
Explora tu modelo

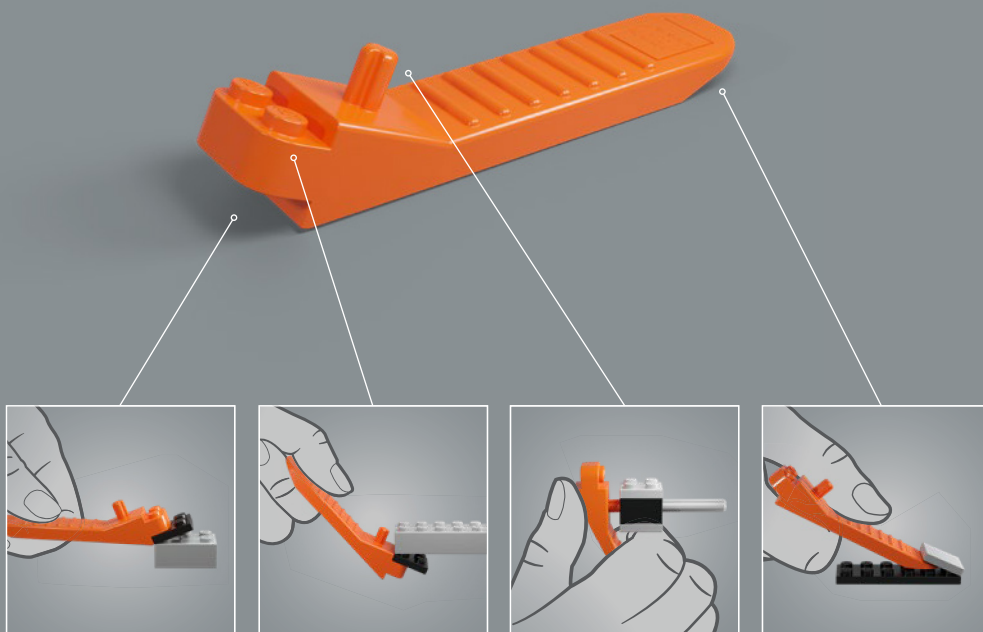
En estrecha colaboración con nuestros socios de la NASA y la ESA, hemos recreado auténticos detalles de ingeniería tanto por dentro como por fuera. Cada sección del modelo corresponde a un instrumento real que ayudó a descubrir nueva y extraordinaria información sobre nuestro universo.

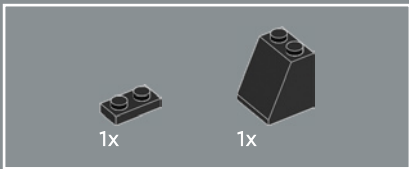




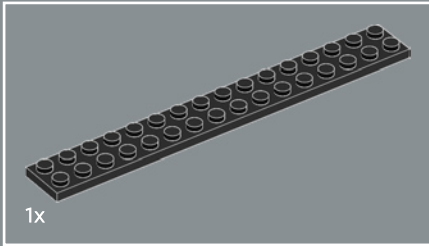
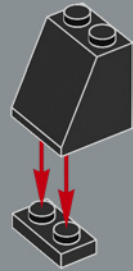
Espectrógrafo de imágenes del telescopio espacial (STIS)
Espectrógrafo de orígenes cósmicos (COS)
Cámara avanzada para sondeos (ACS)
Cámara y espectrómetro multiobjeto del infrarrojo próximo (NICMOS)



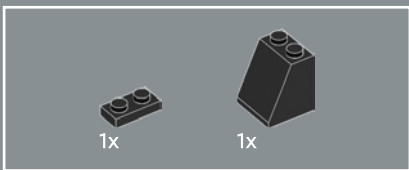
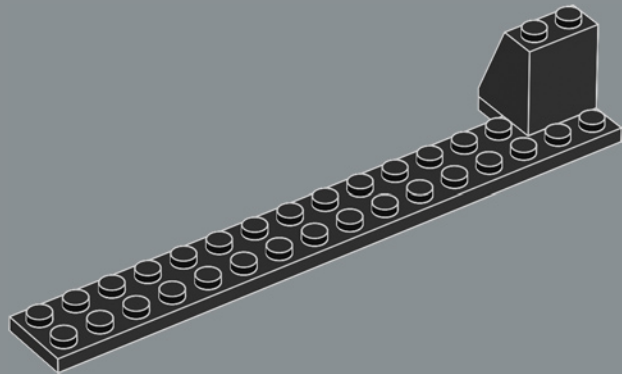




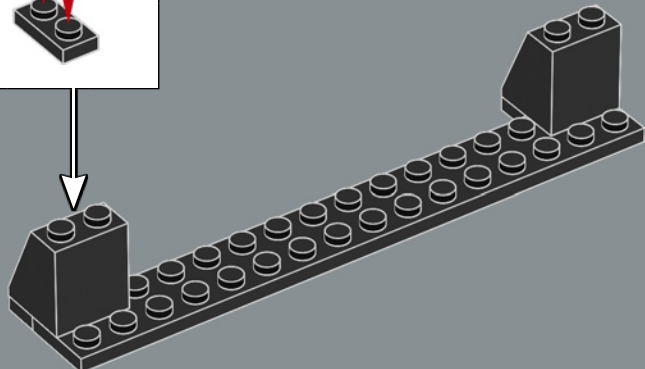
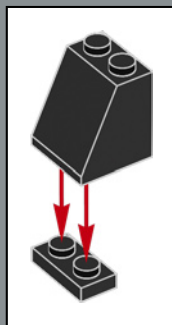
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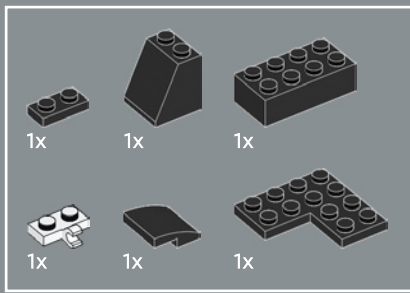


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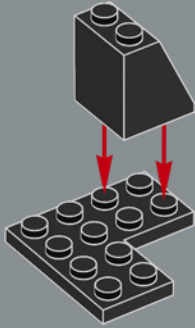
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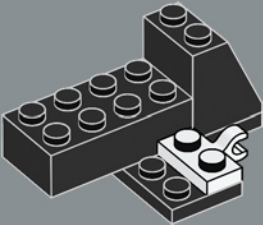


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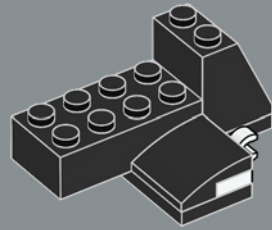
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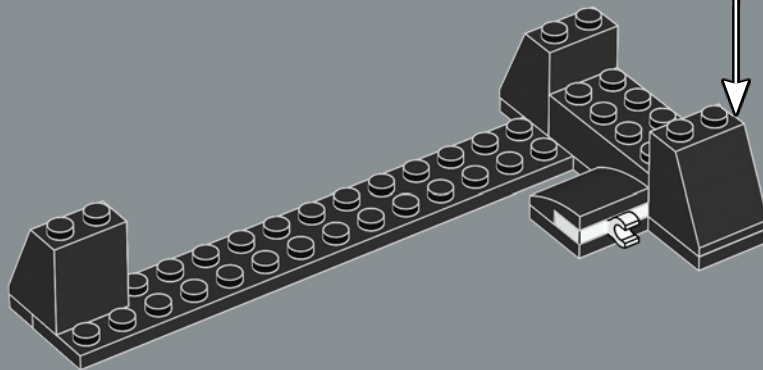
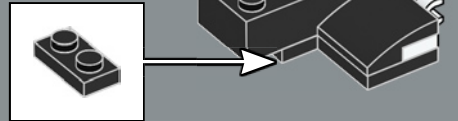
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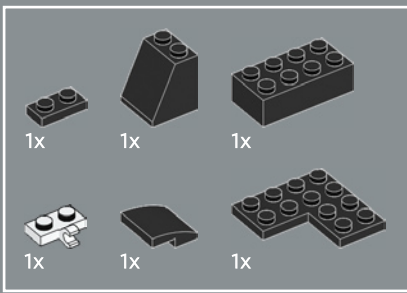


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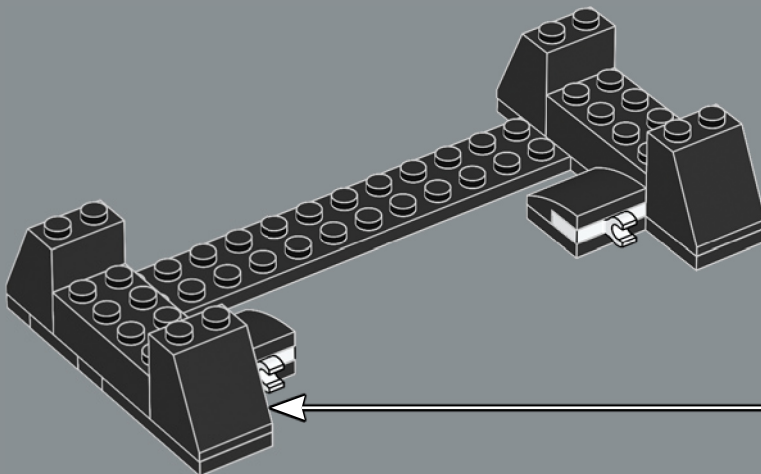
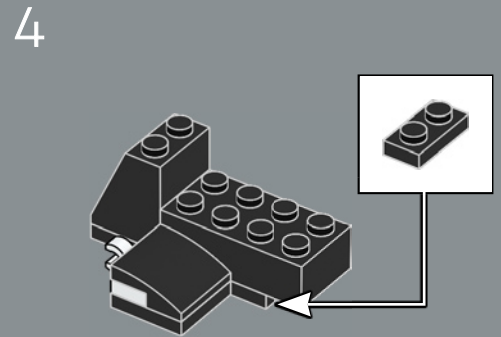
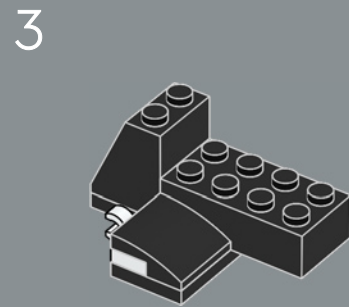
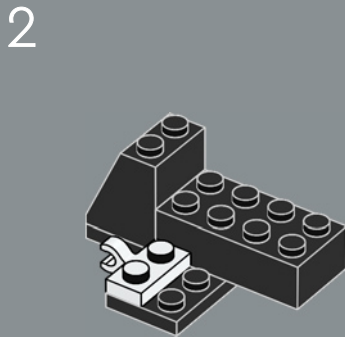
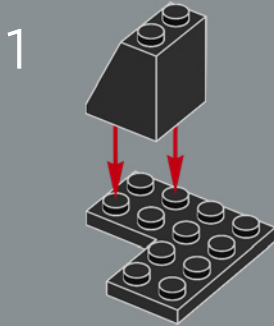


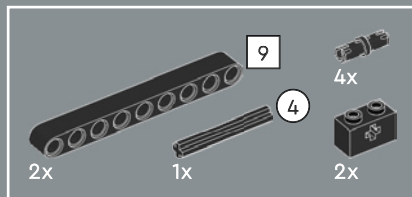
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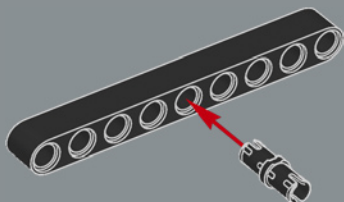
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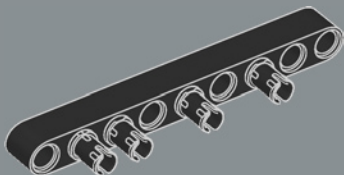


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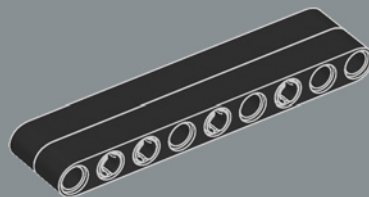
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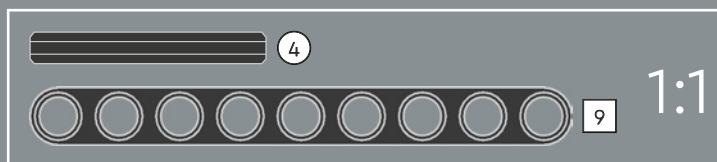
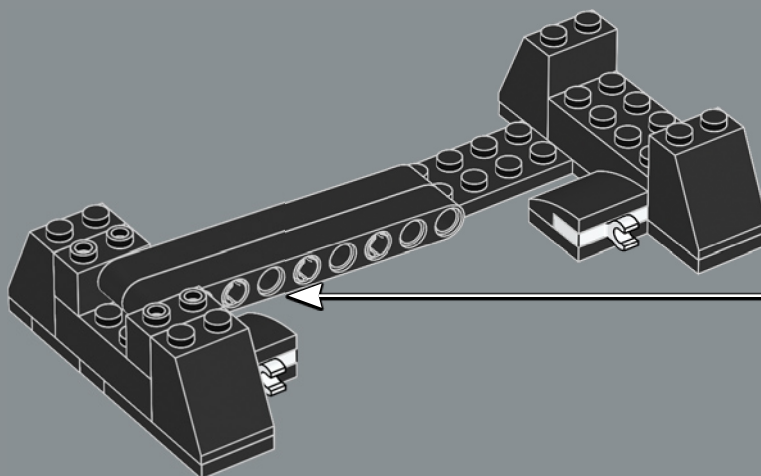
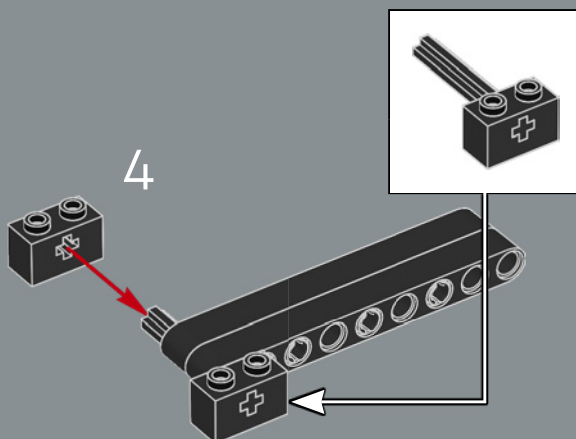
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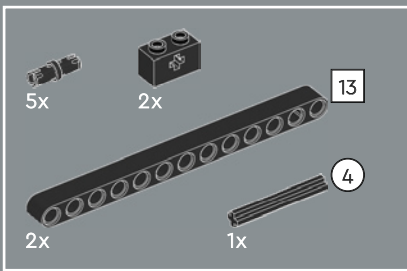


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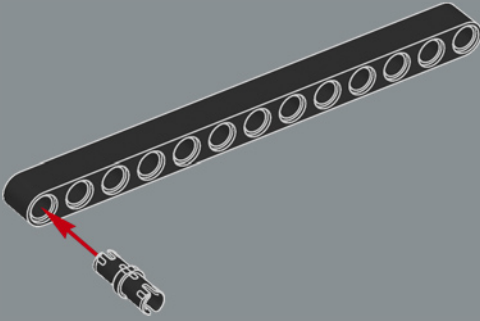
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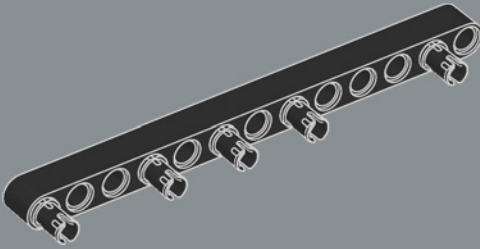


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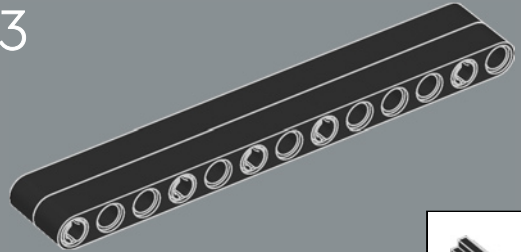
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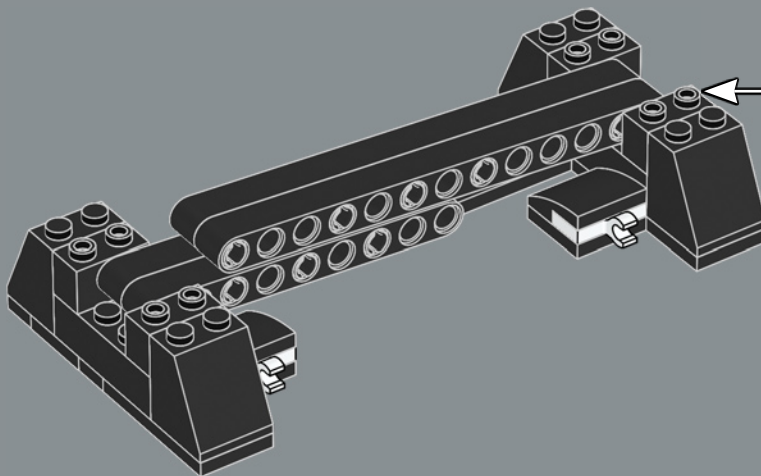
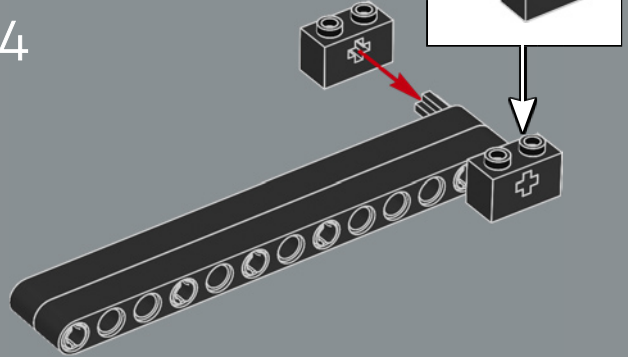
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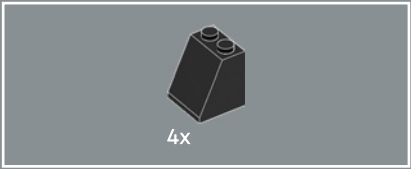


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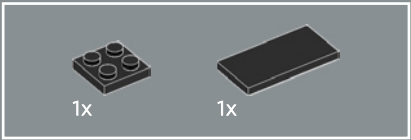
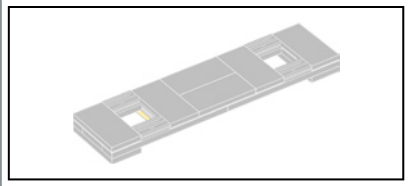
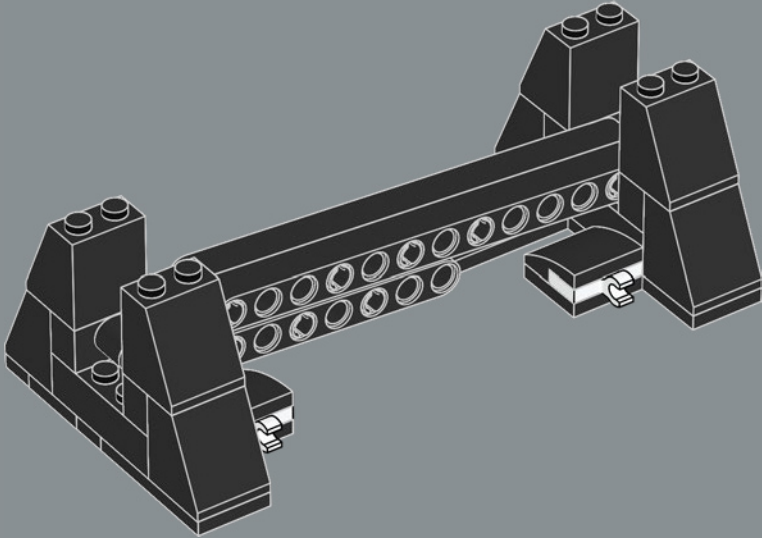


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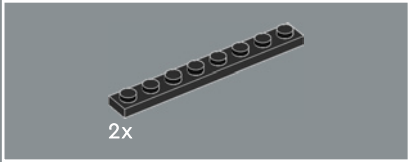
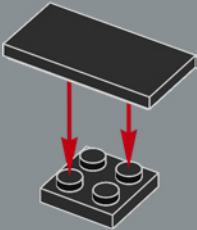




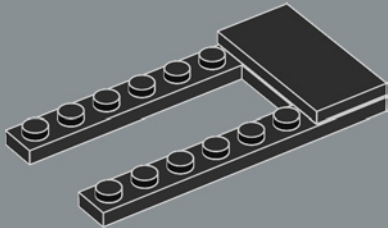
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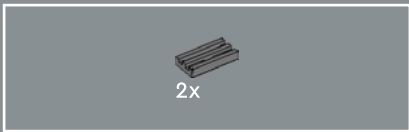


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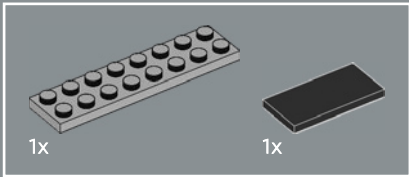
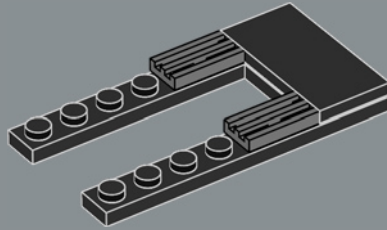


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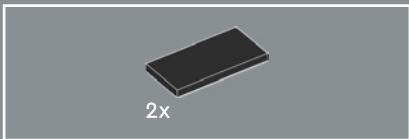
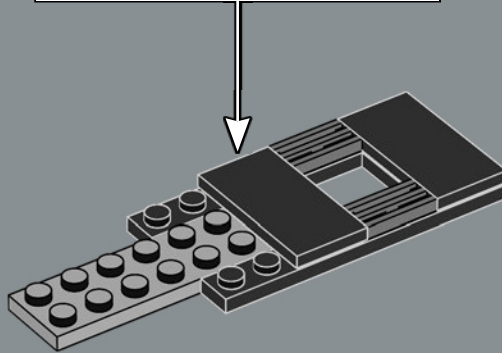
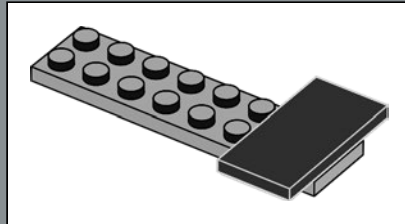




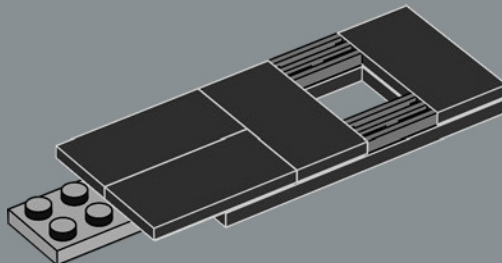
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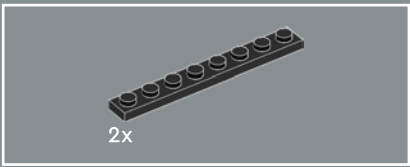


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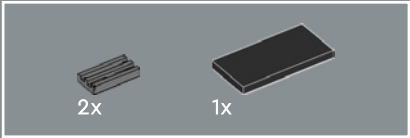
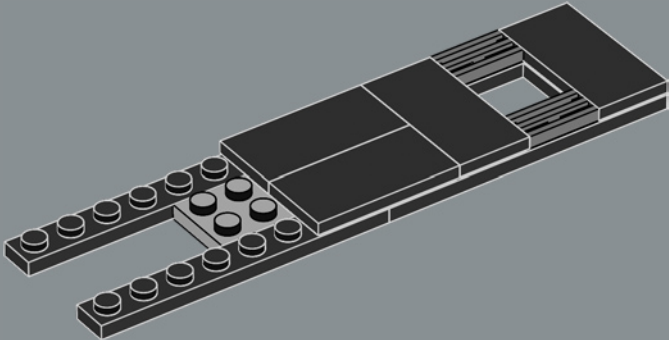


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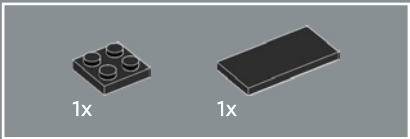
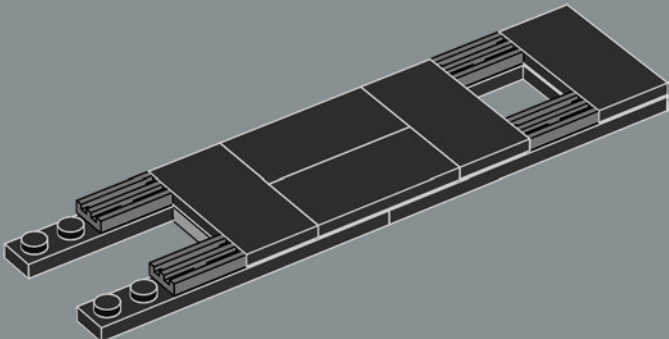




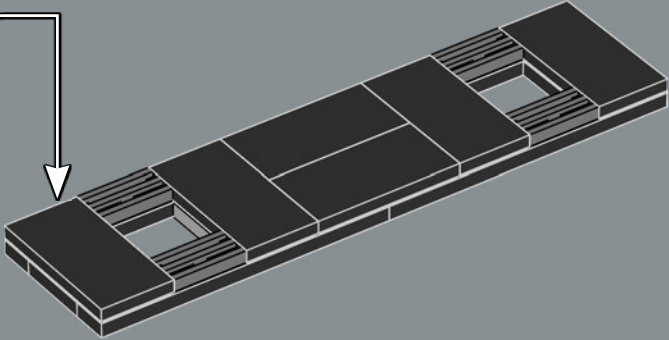
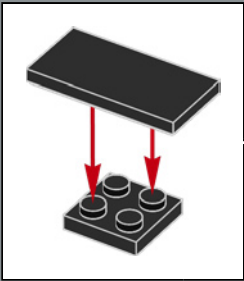
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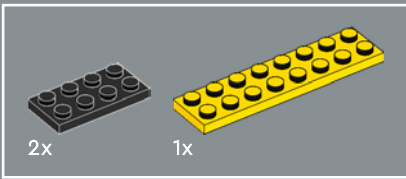


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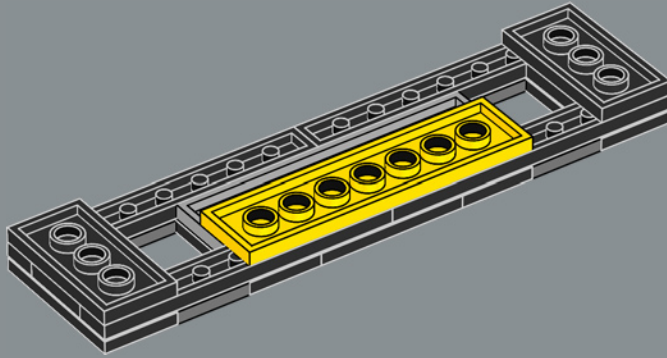


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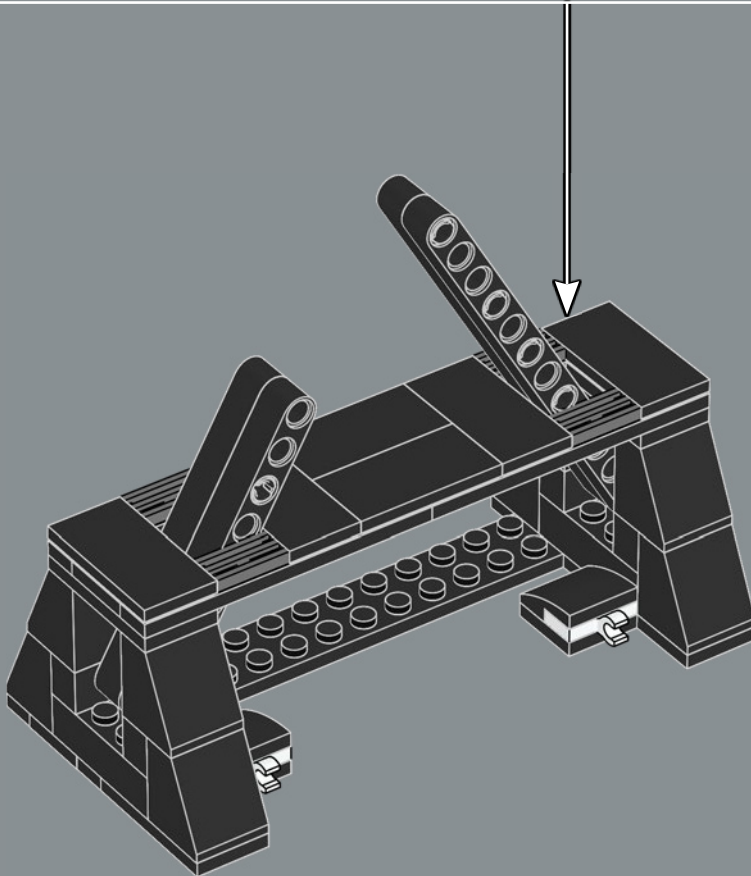


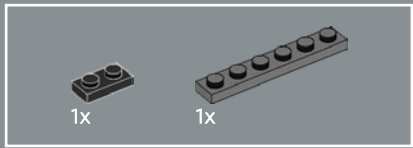


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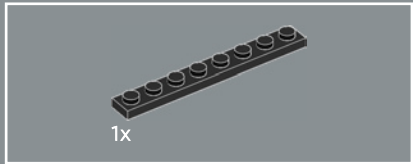
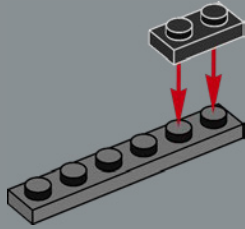


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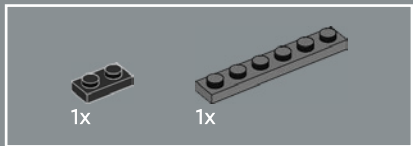
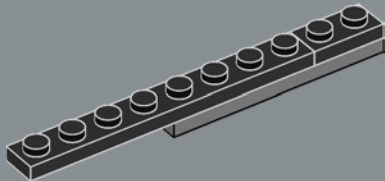




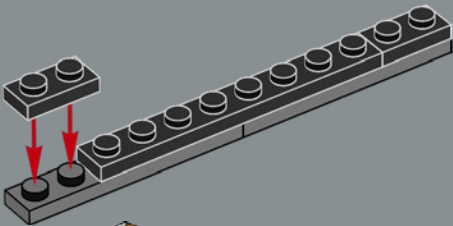
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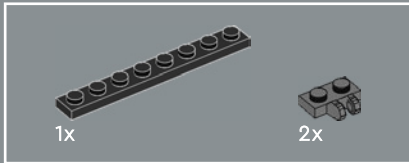
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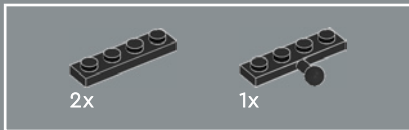
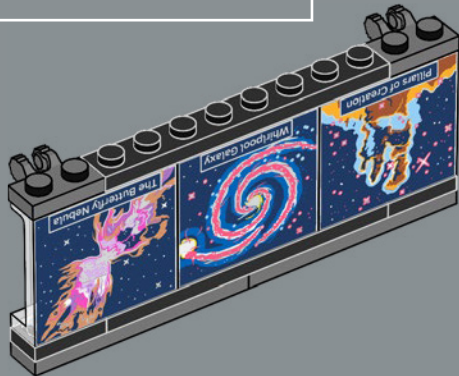
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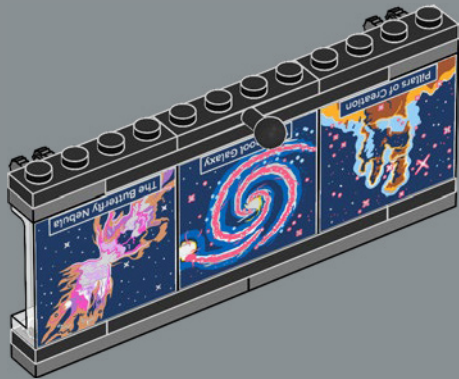
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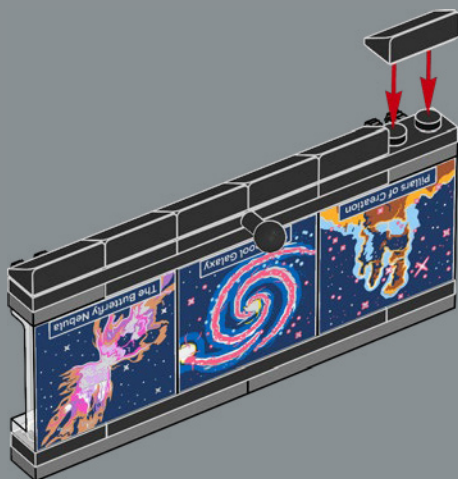
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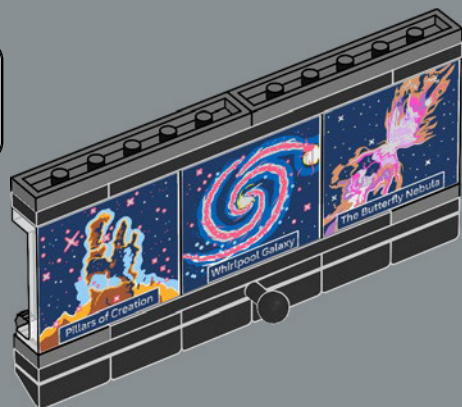


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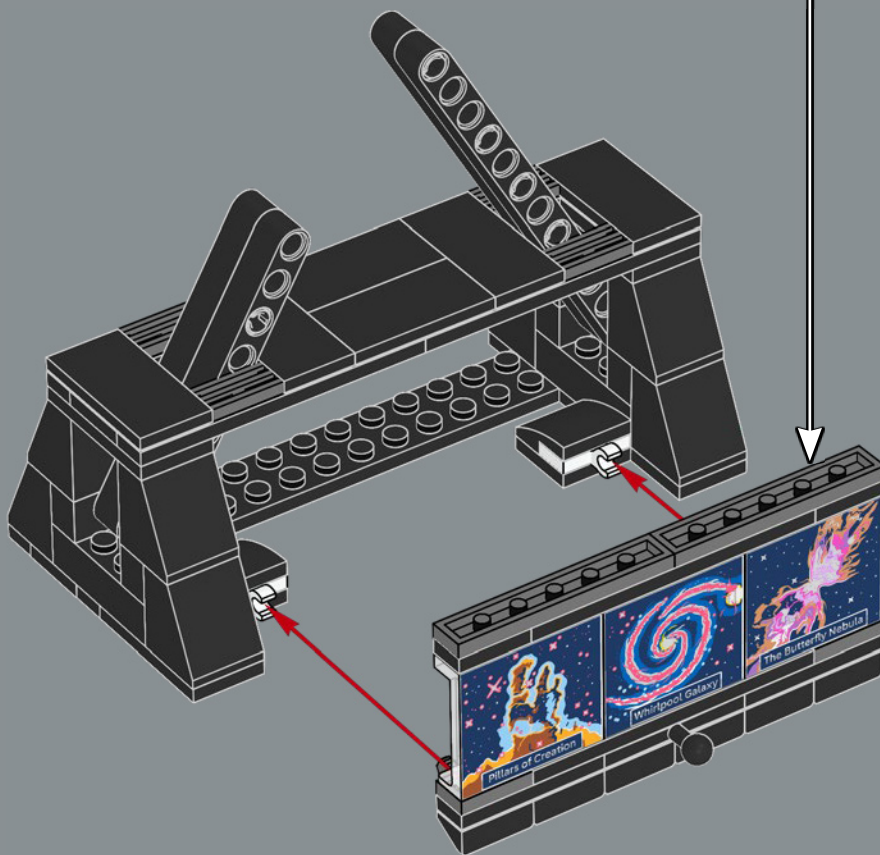
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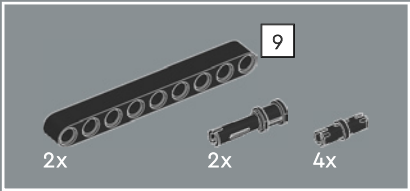


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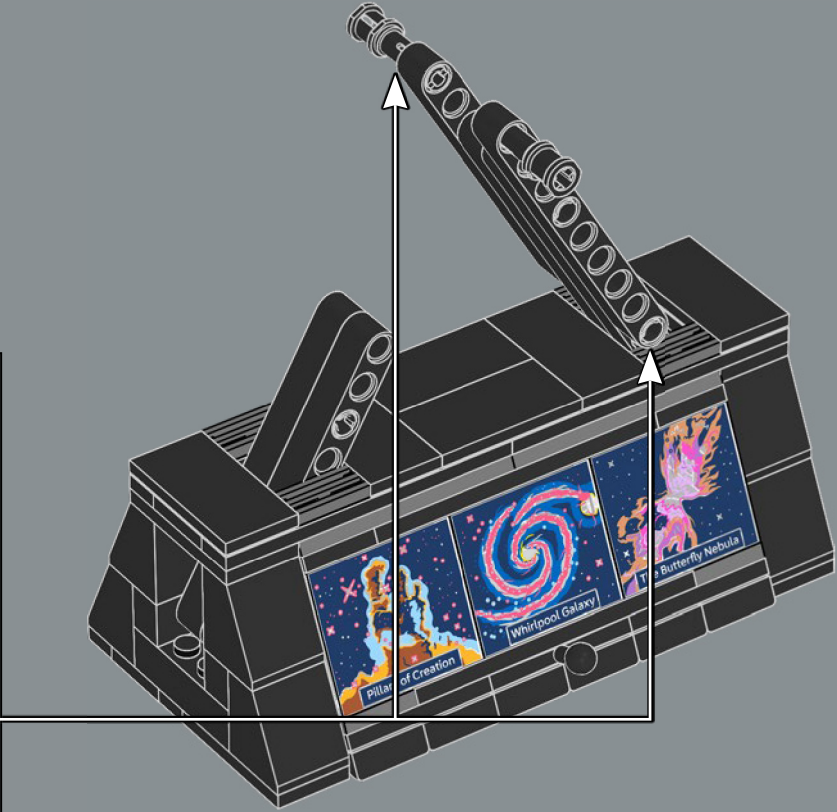
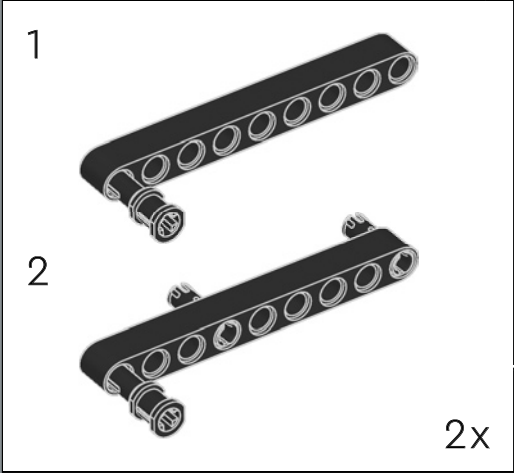


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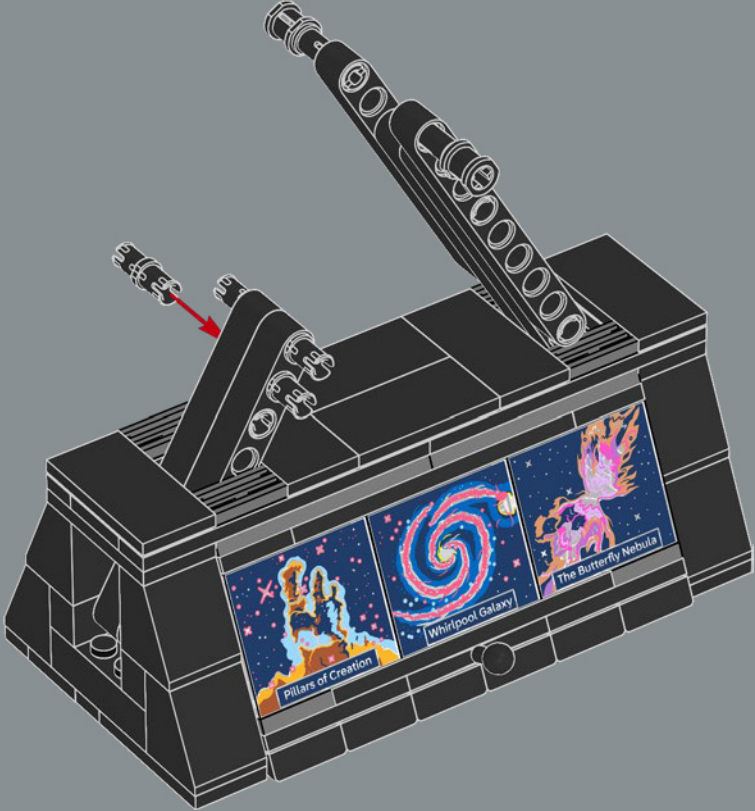


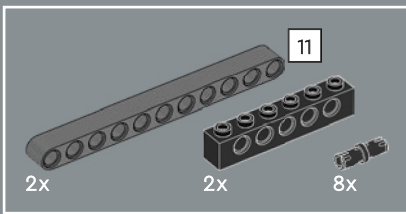


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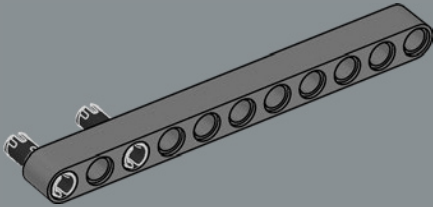
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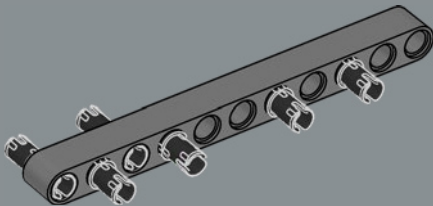


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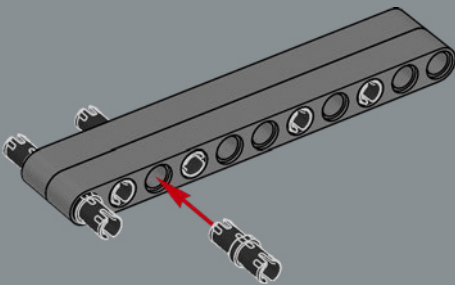
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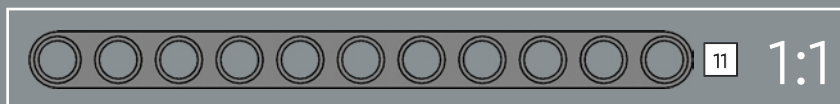
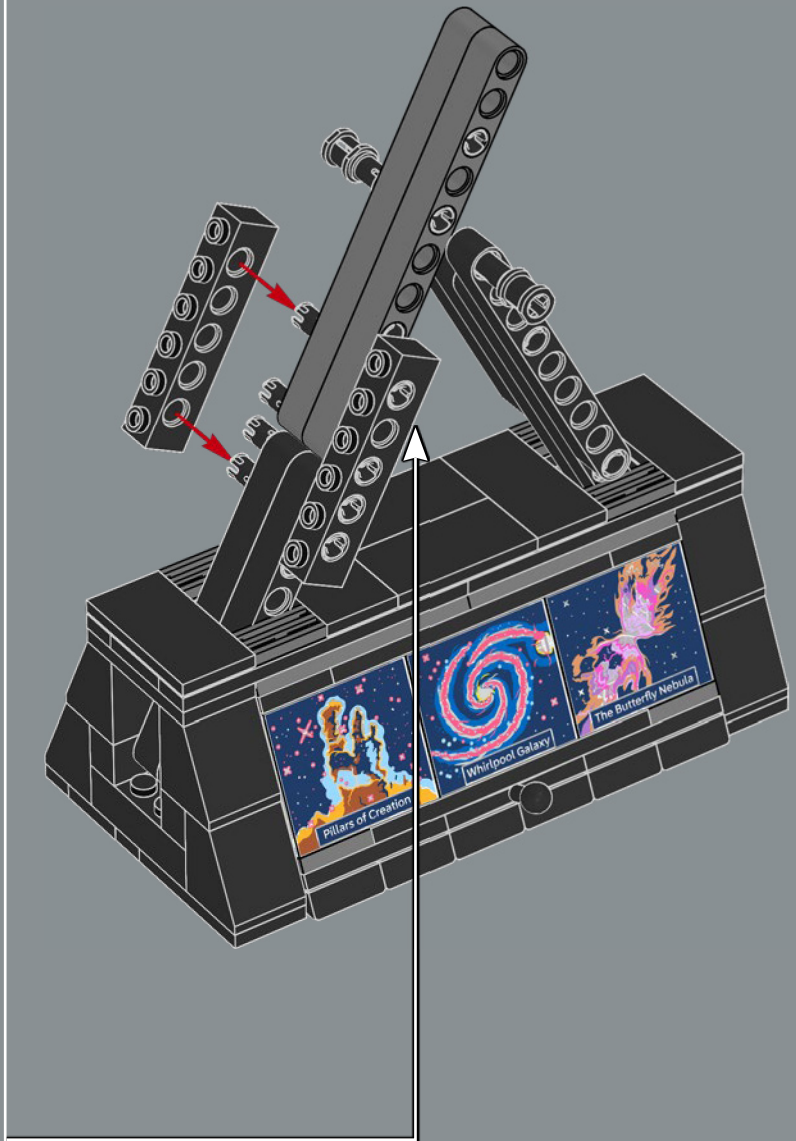
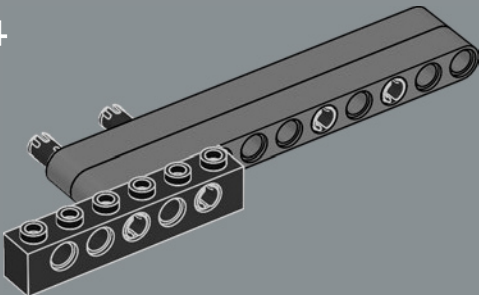
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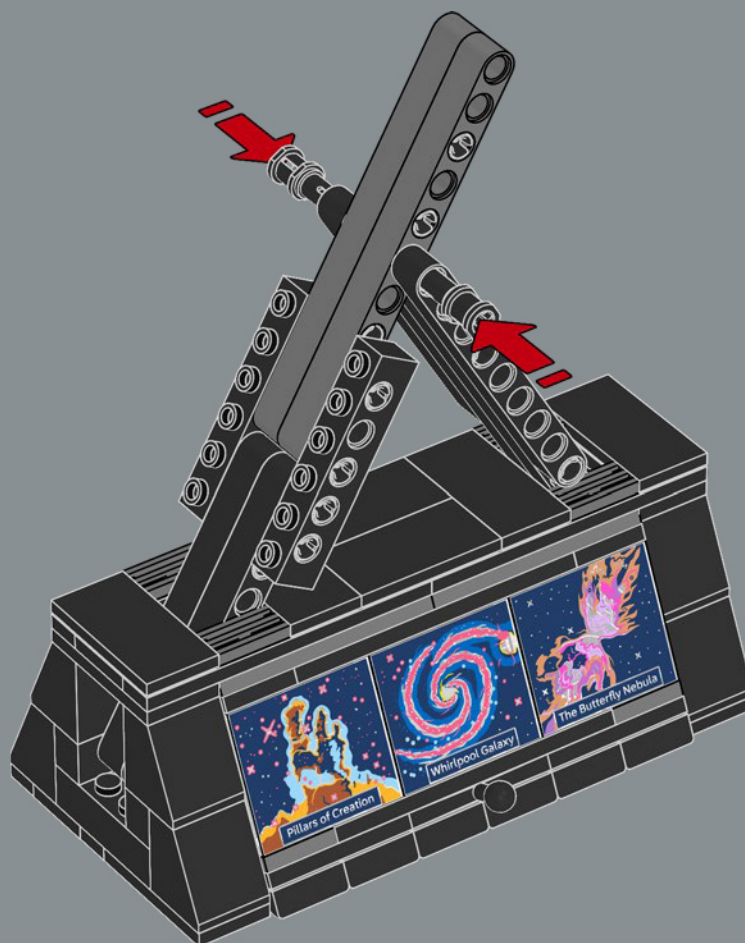
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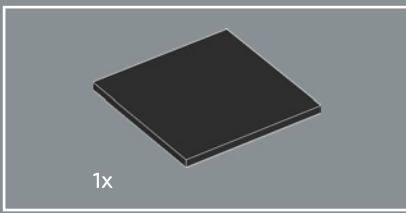


Desde 1990, el telescopio espacial Hubble ha registrado más de 1,7 millones de observaciones y ha recopilado datos de más de 108 millones de objetos astronómicos.

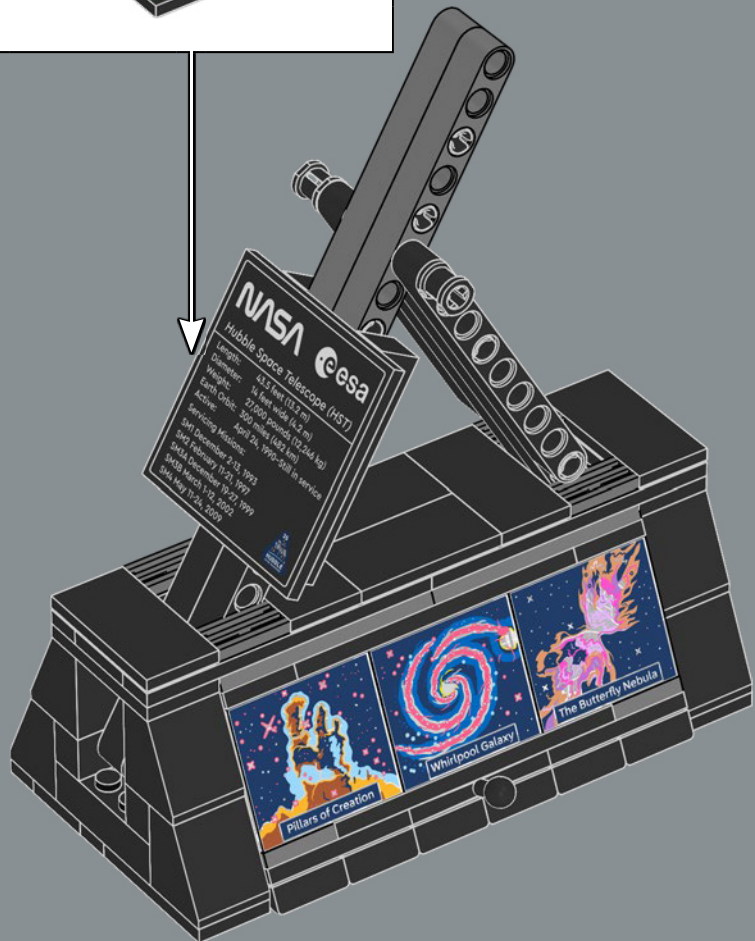
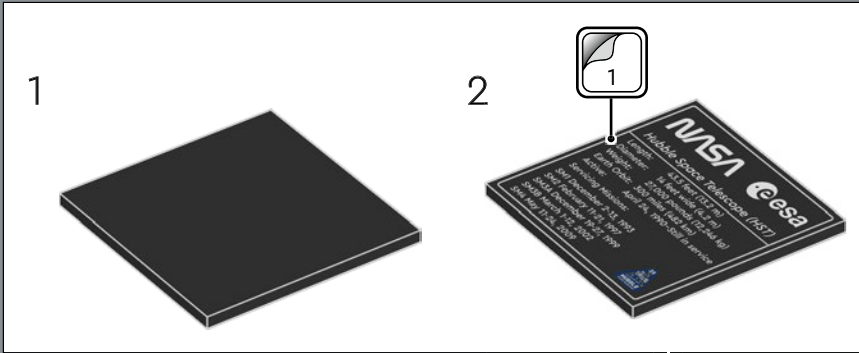


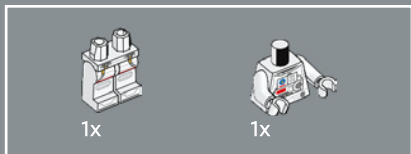
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32

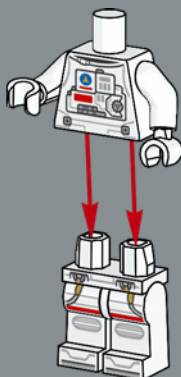




Incluso tras más de 35 años en órbita, el Hubble sigue proporcionando datos científicos revolucionarios y sirviendo de inspiración para nuevos instrumentos, como el telescopio espacial James Webb.

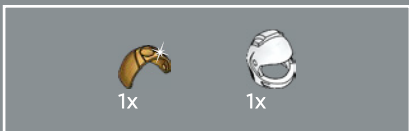
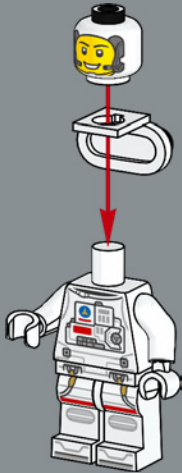


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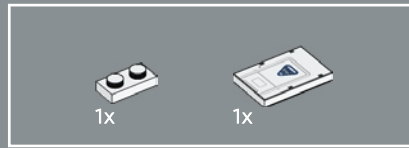
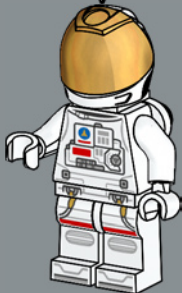
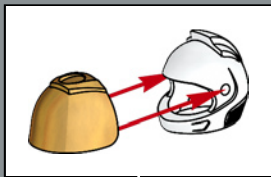




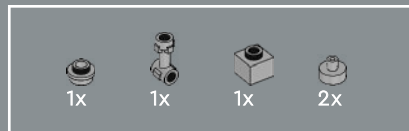
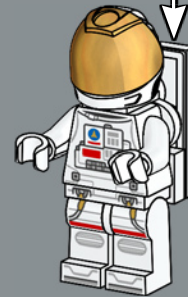
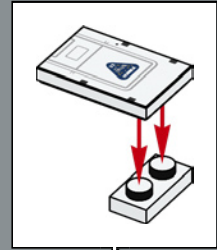
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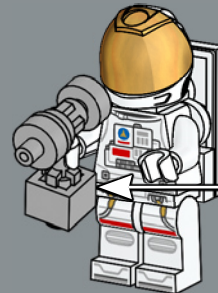
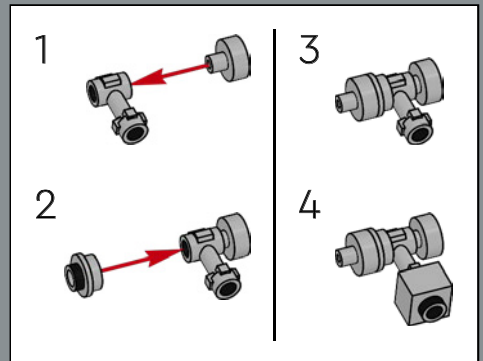
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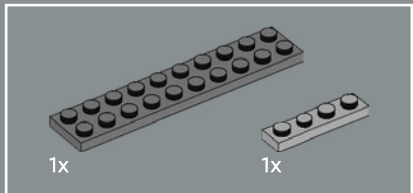


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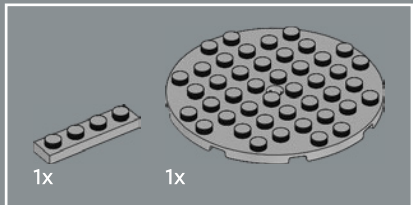
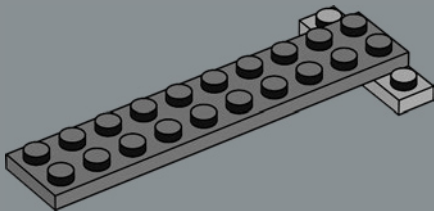


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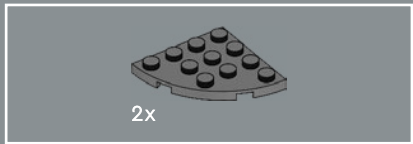
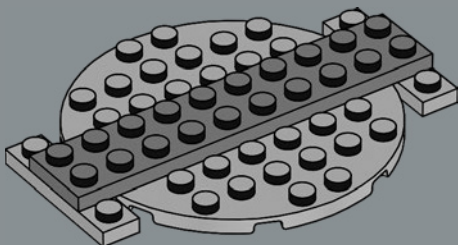




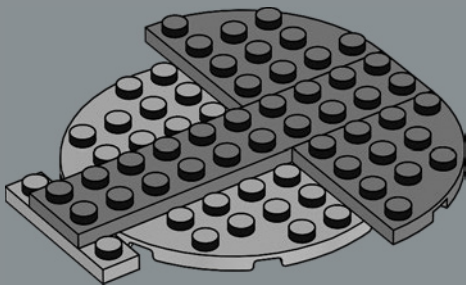
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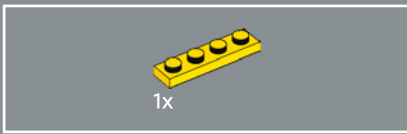


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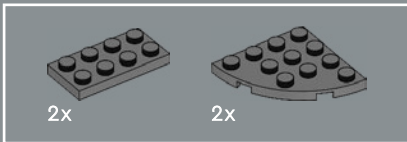
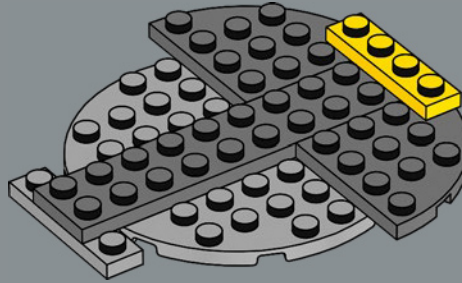


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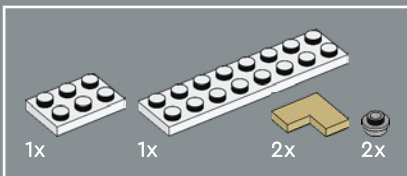
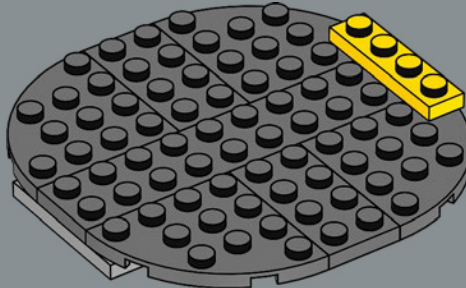




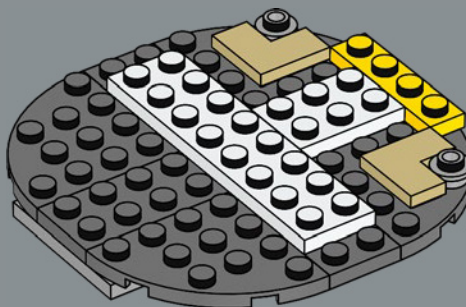
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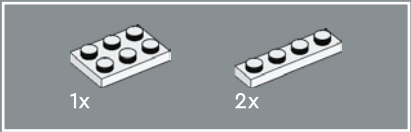


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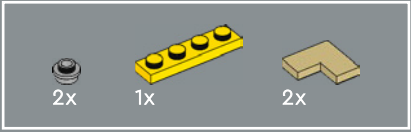
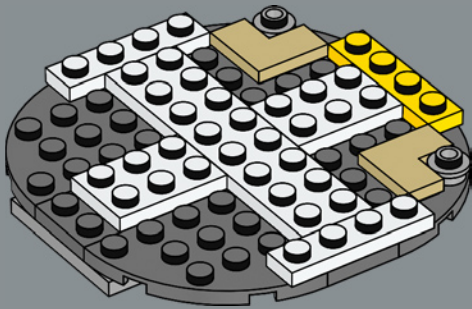


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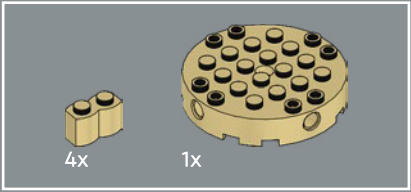
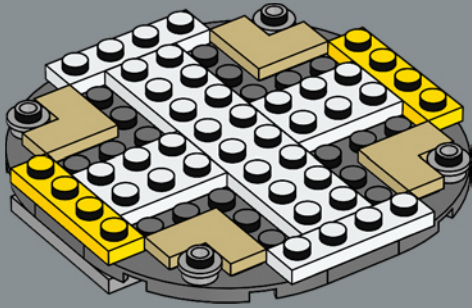




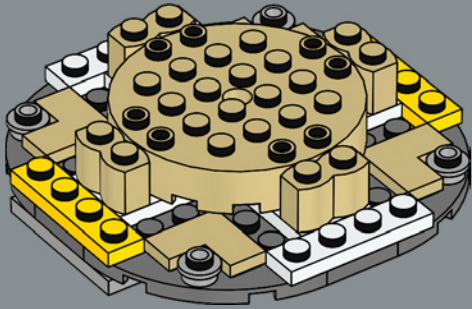
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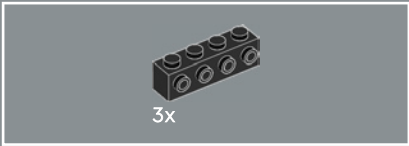


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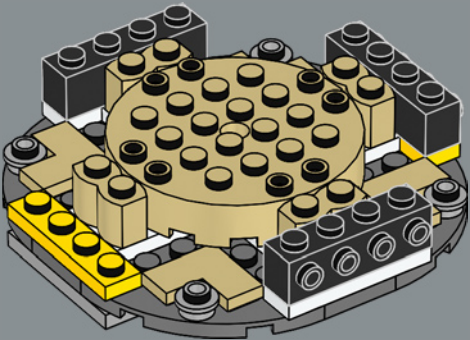


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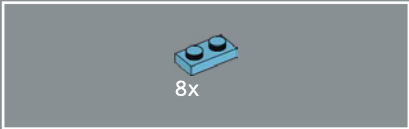
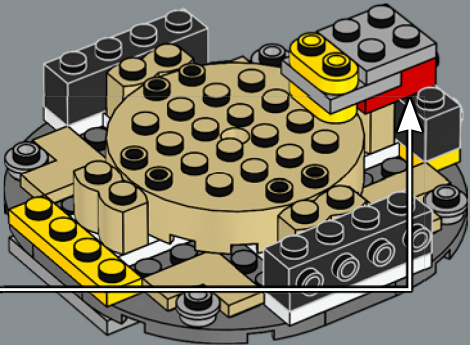
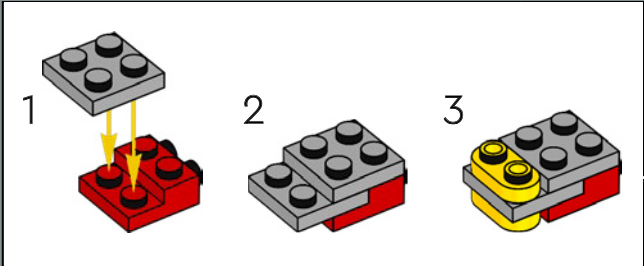




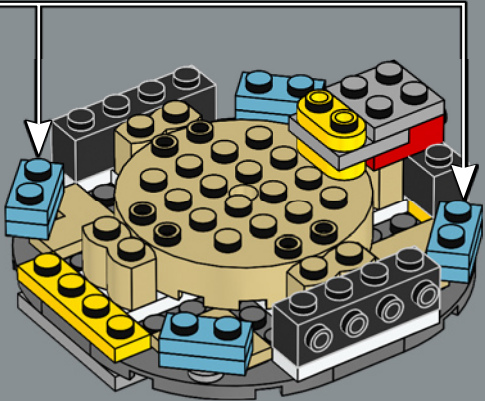
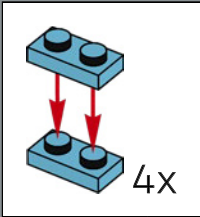
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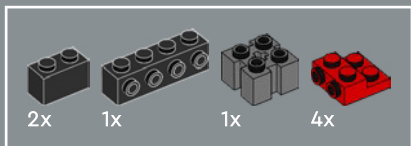


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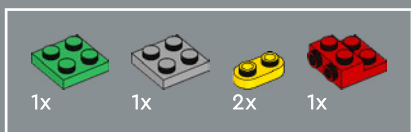
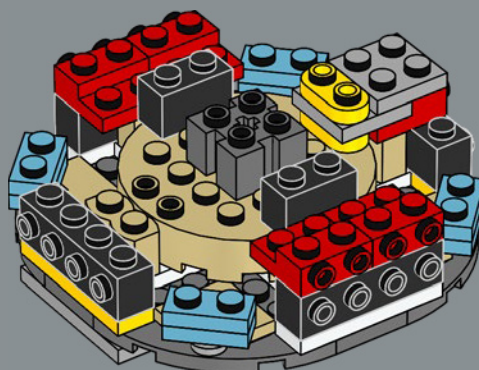


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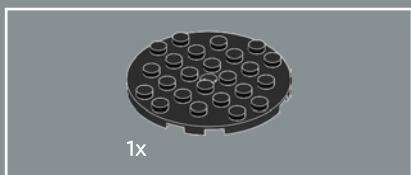
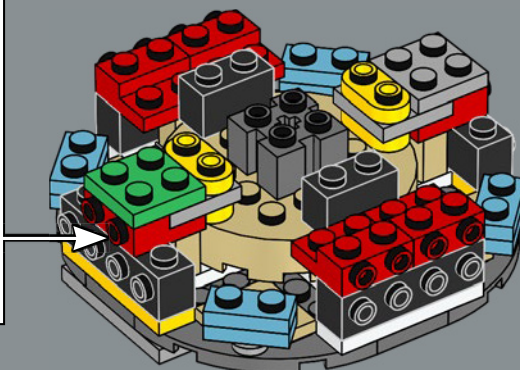
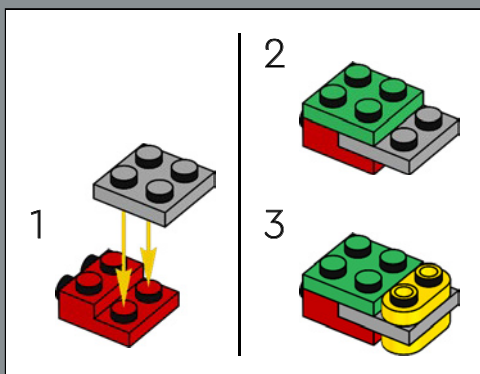




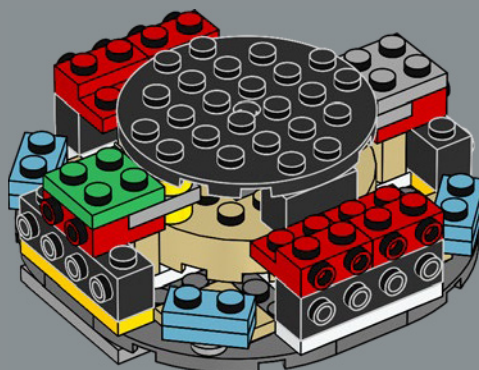
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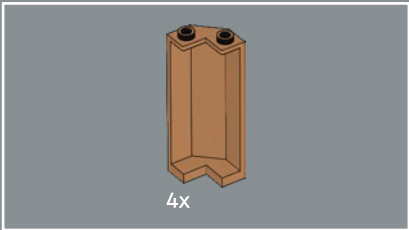
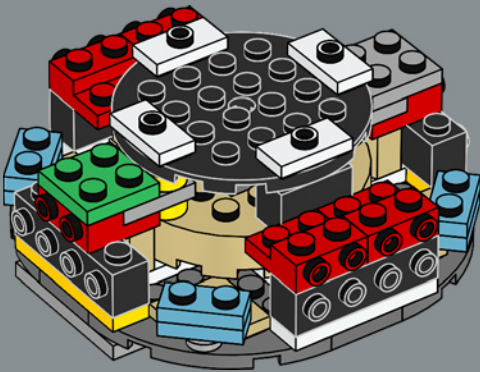


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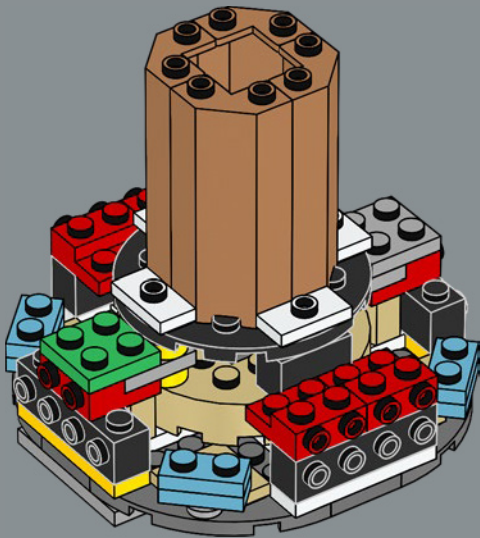


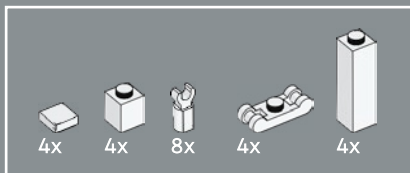


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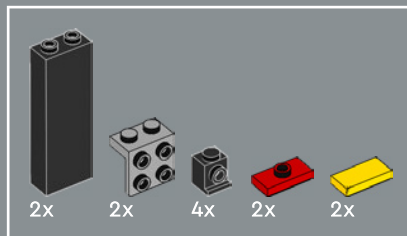
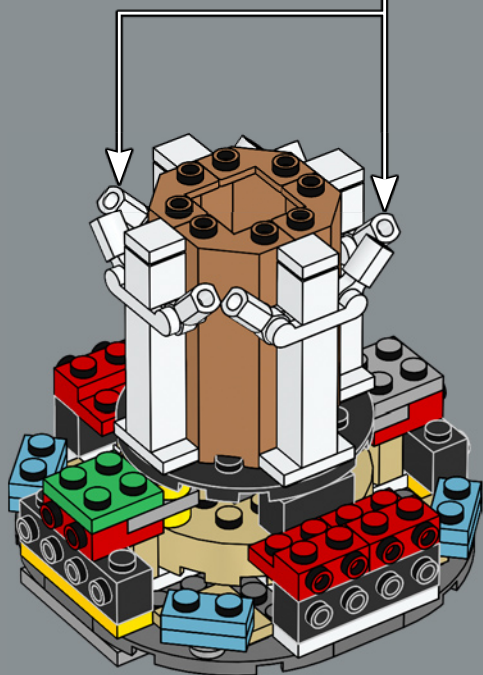
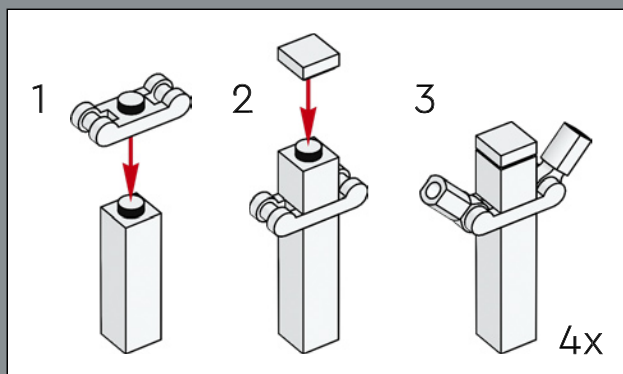


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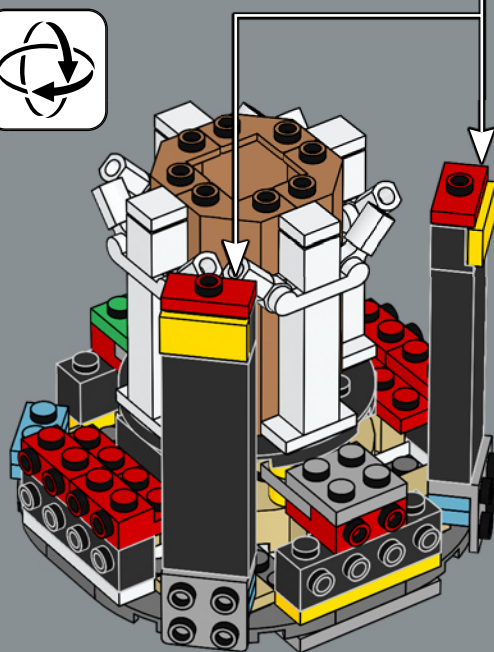
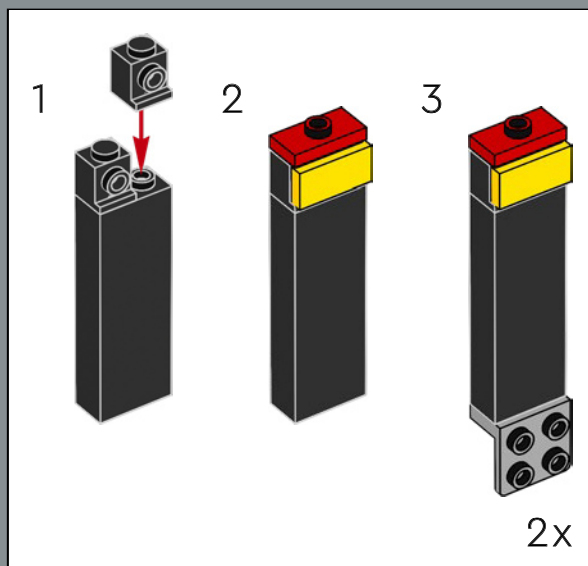


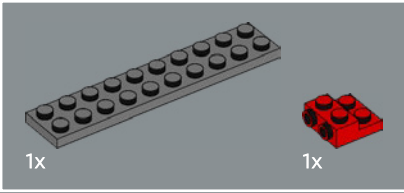
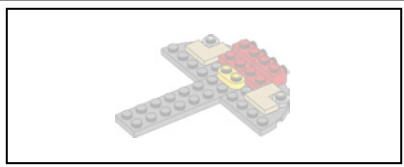


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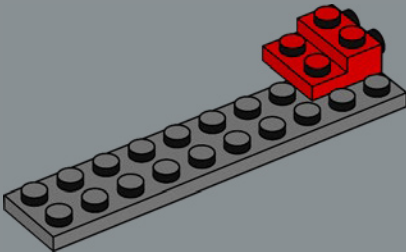


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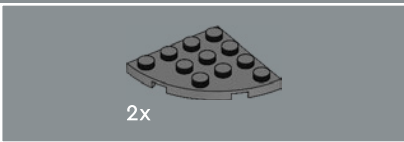
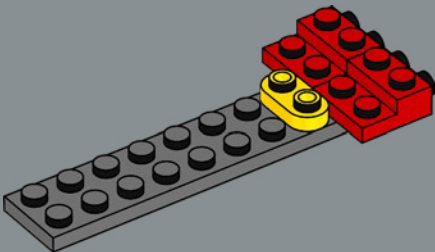




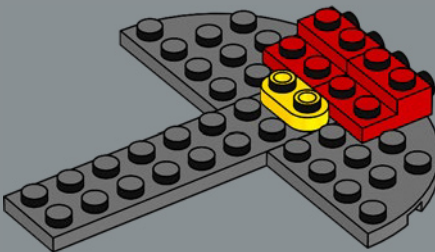
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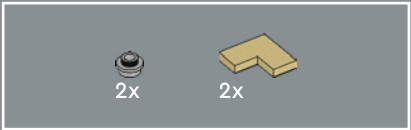


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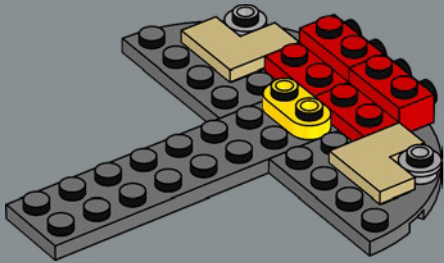


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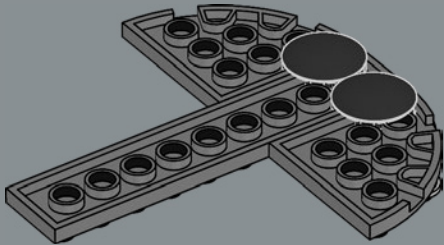




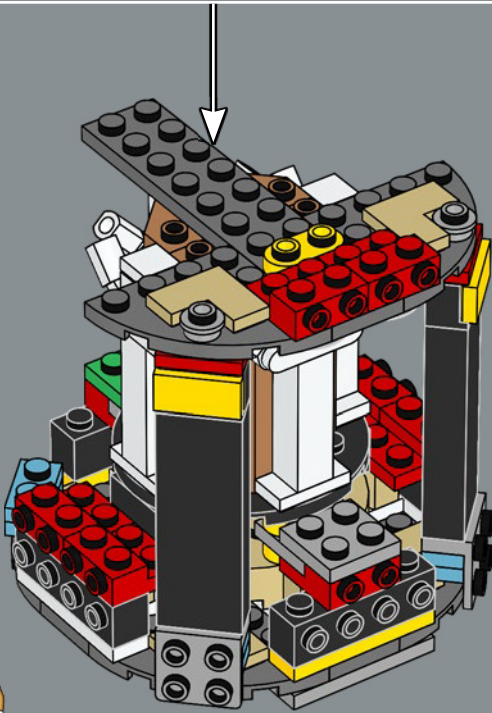
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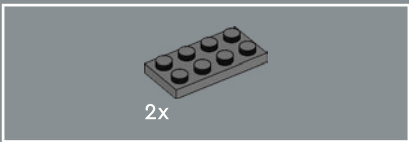


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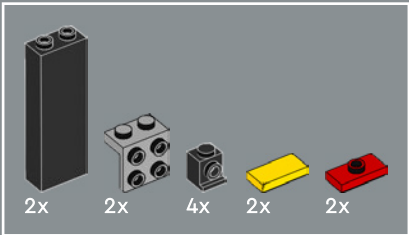
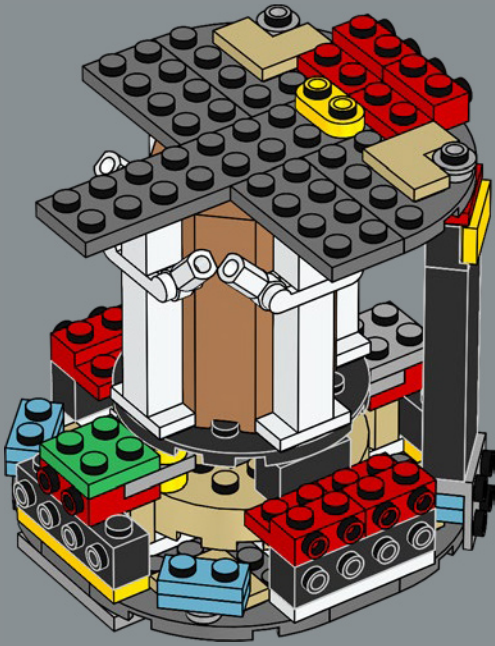


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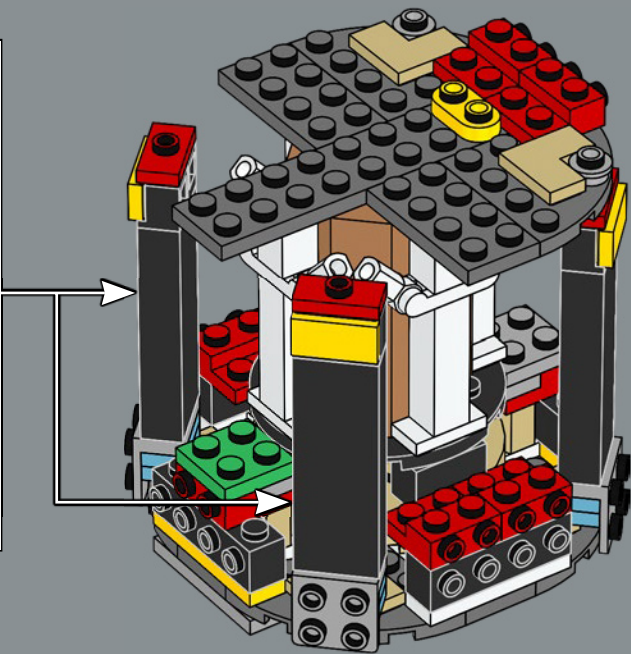
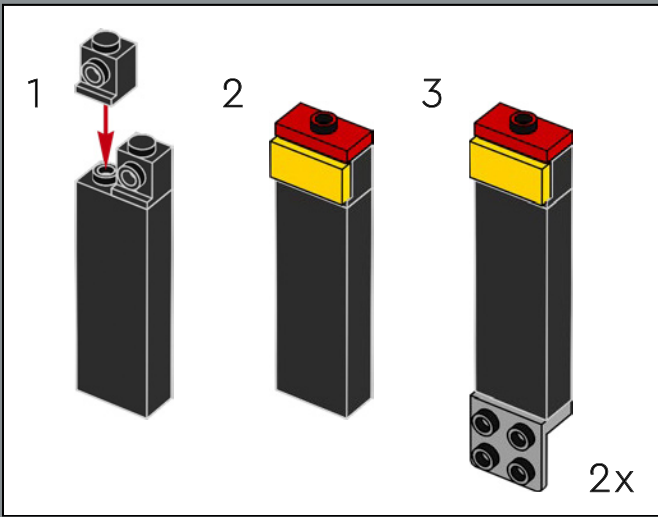


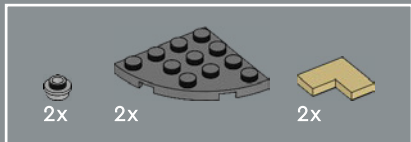


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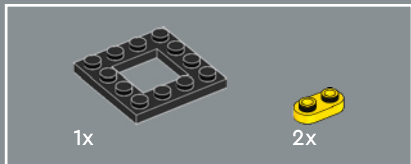
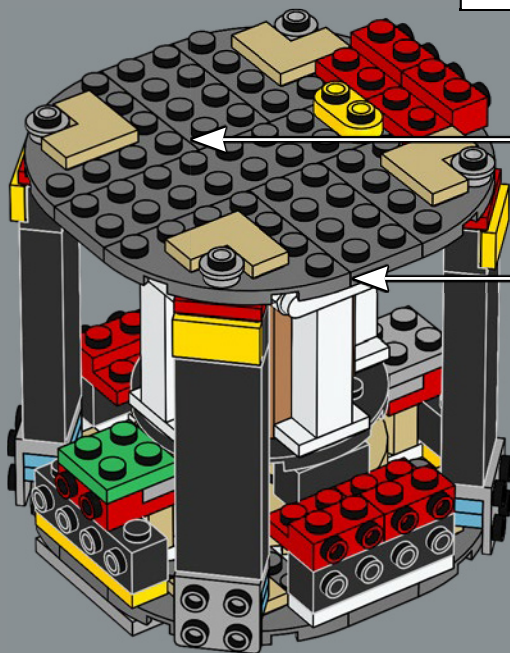
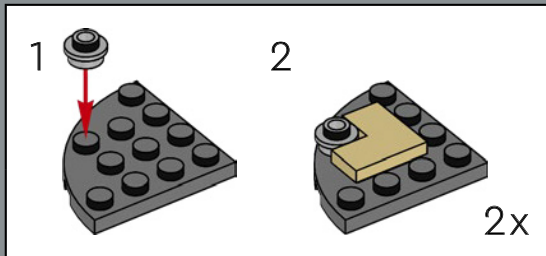


64





65



66



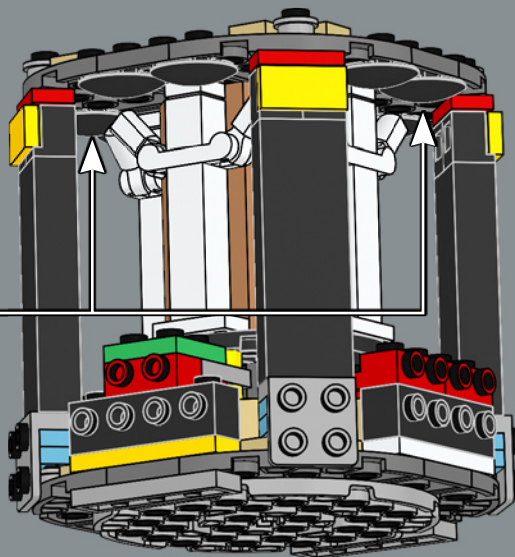


6x

67



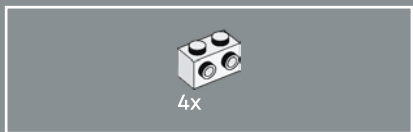
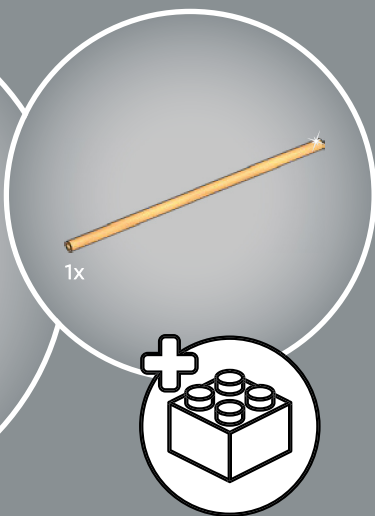
6x



4x

68

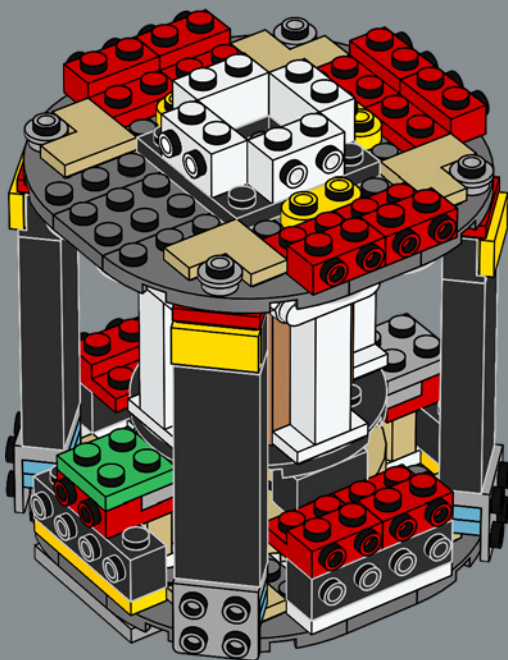




Mediante el uso de lentes gravitatorias, el Hubble creó
mapas de la materia oscura invisible del universo.



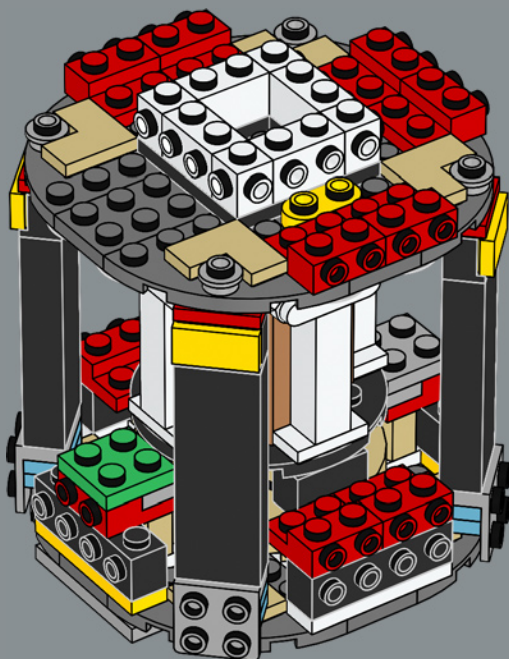
69





4x

70

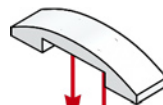
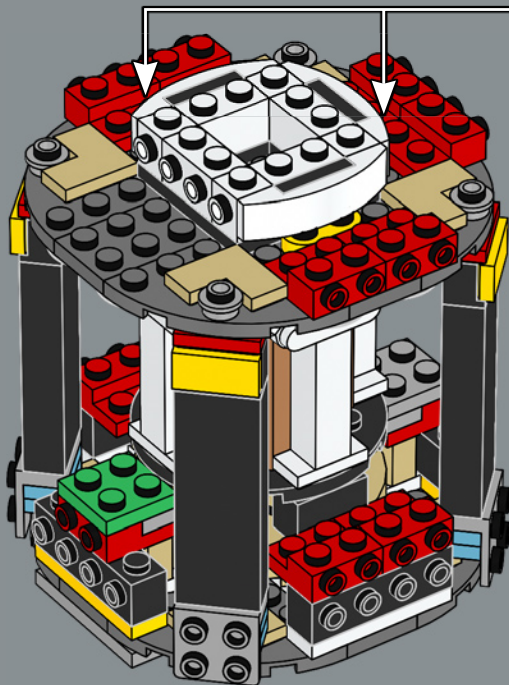


3x

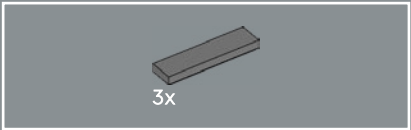


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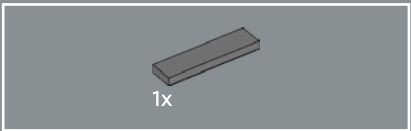
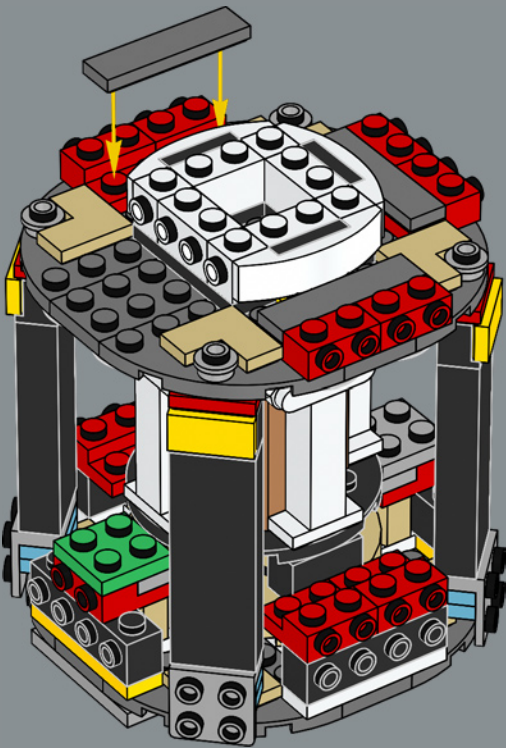
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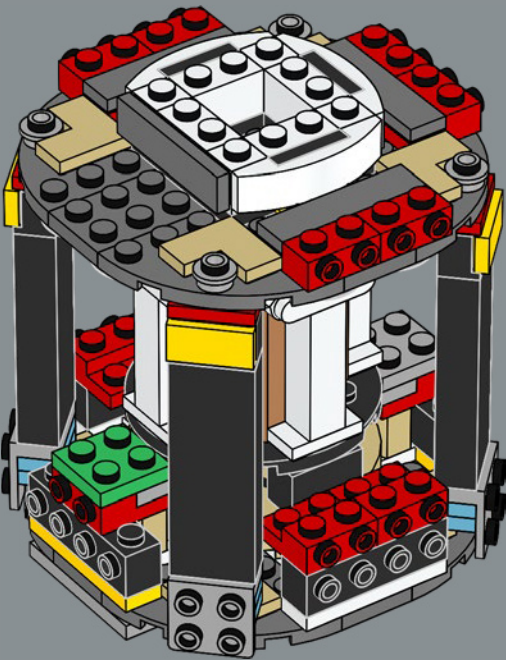
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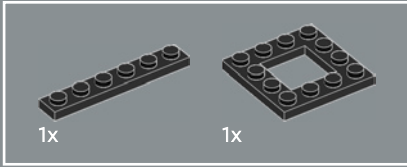
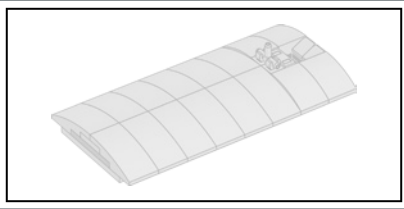


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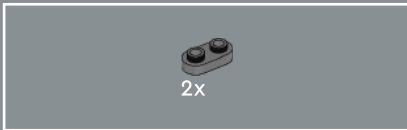
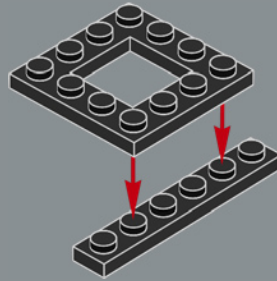


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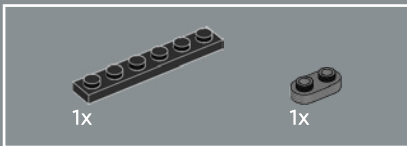
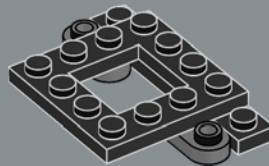




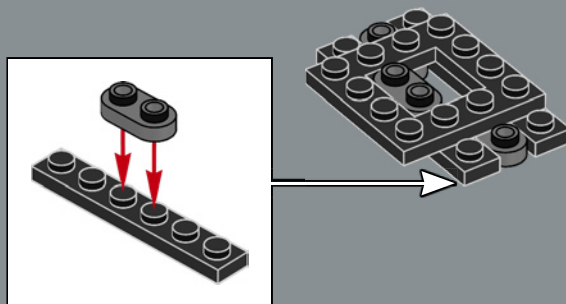
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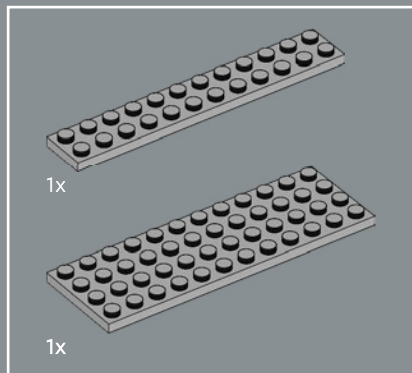


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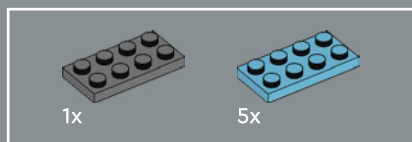
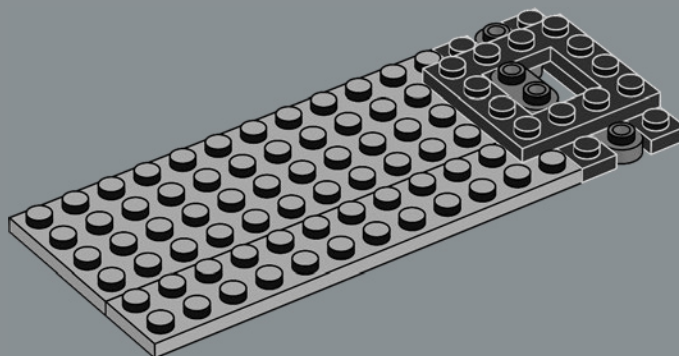


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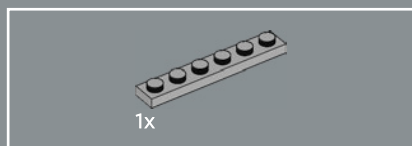
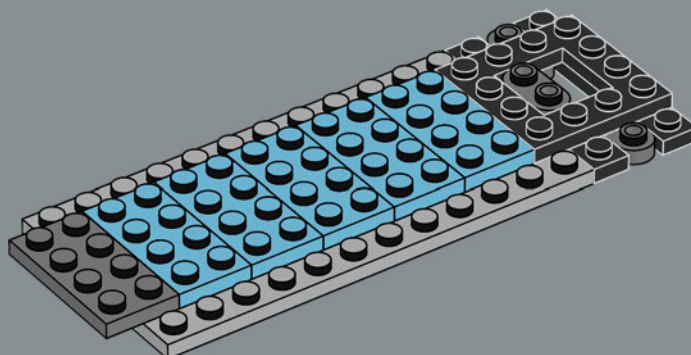




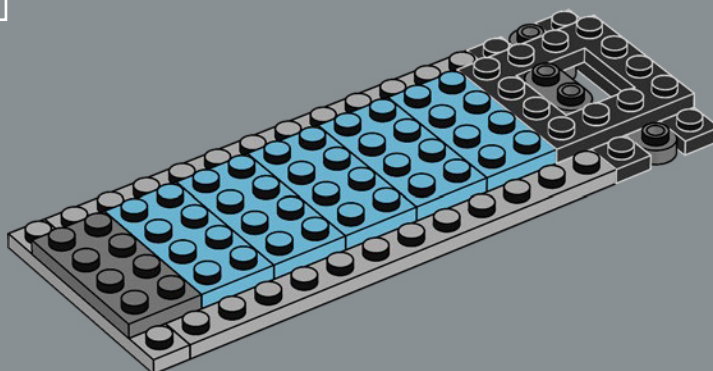
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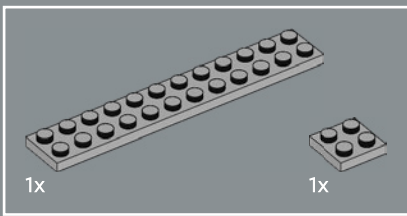


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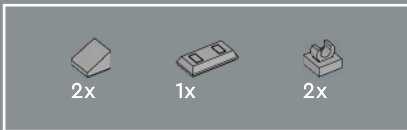
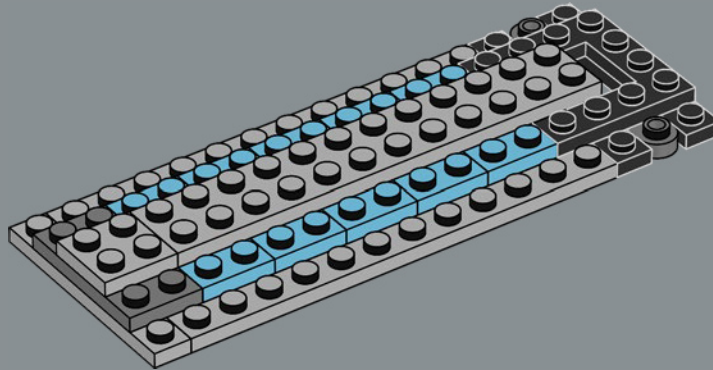


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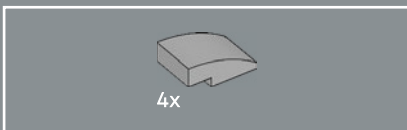
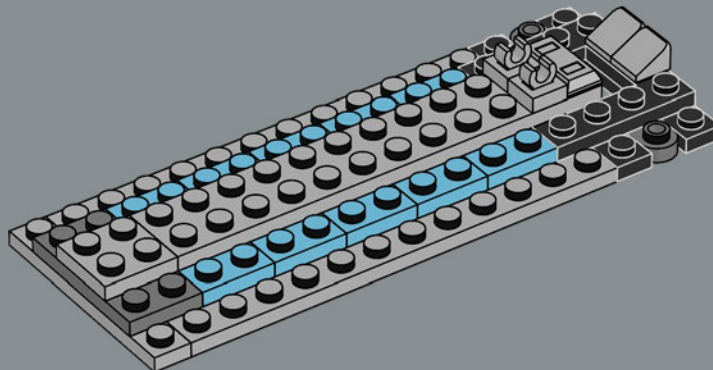




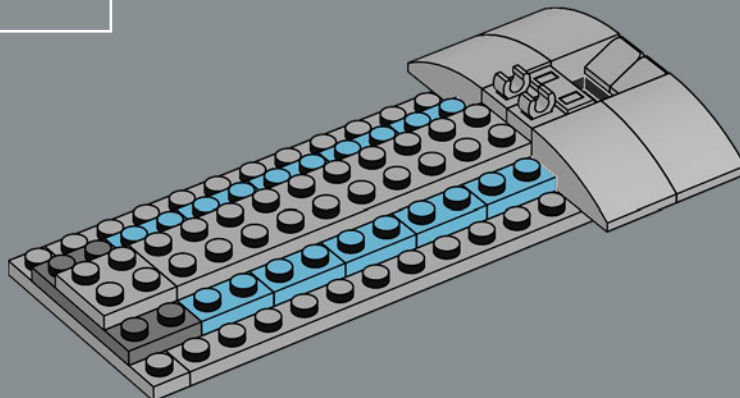
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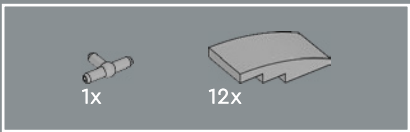


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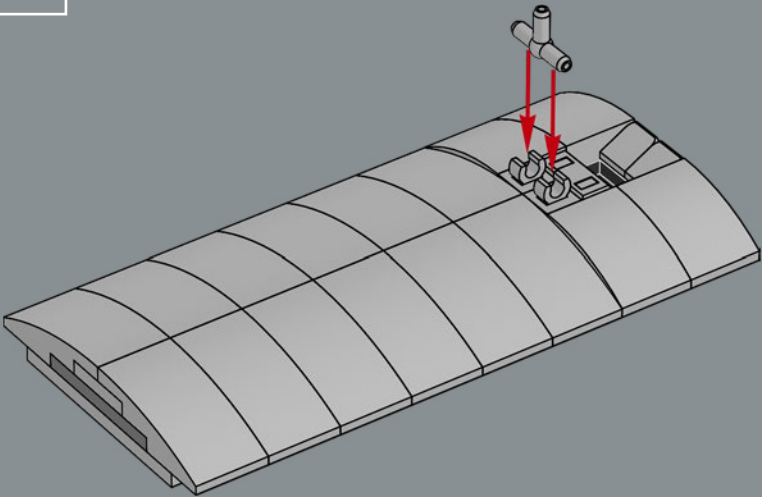


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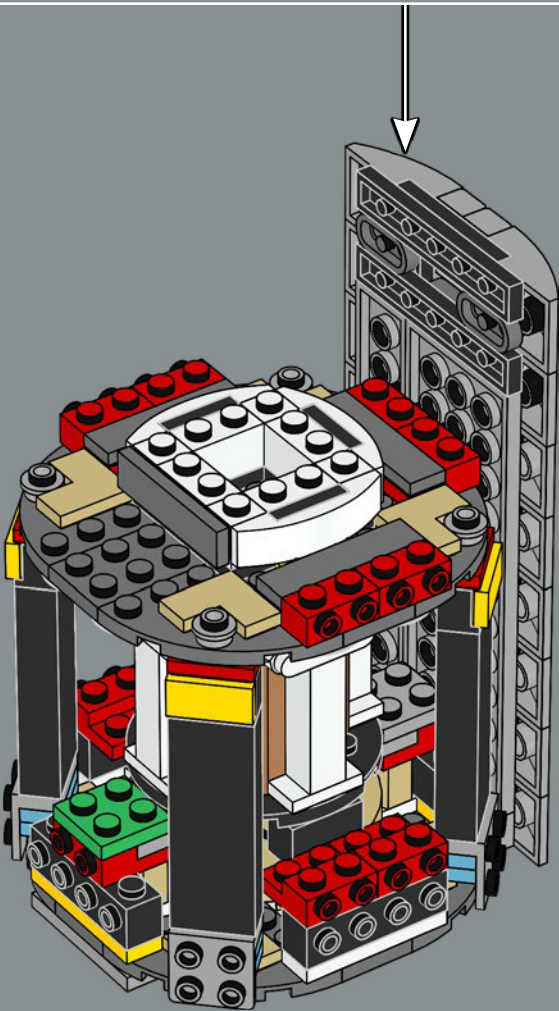


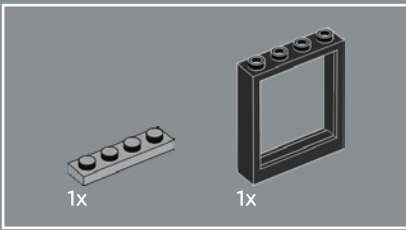


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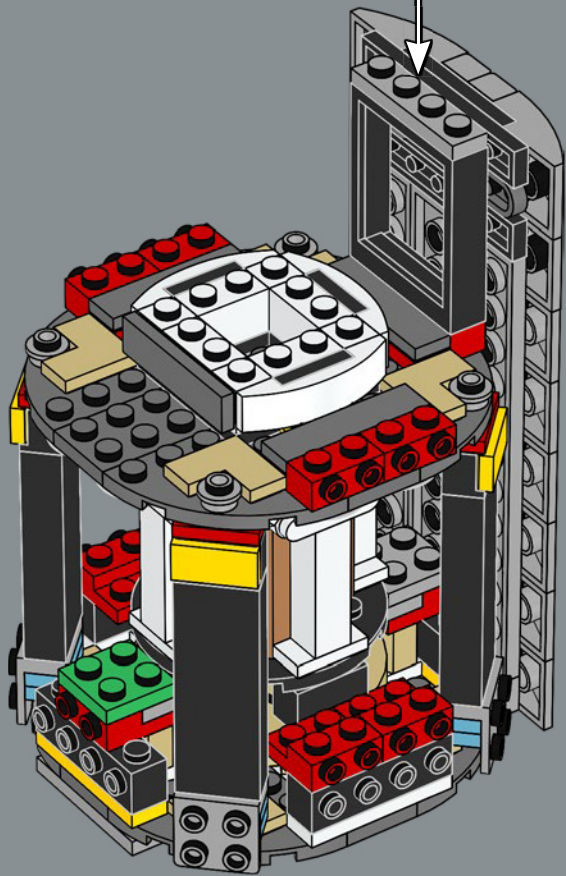
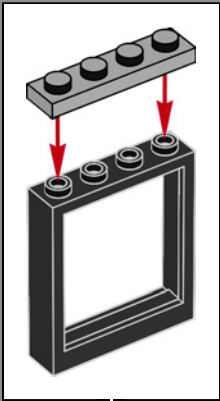


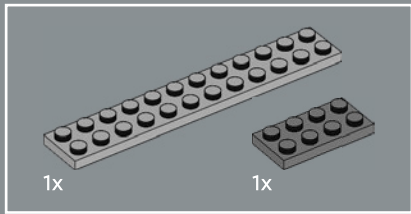
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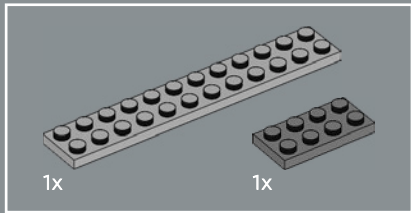
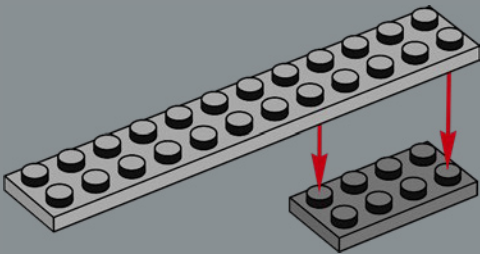


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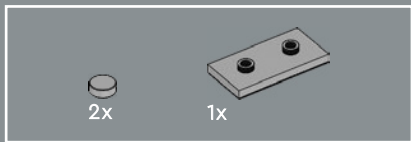
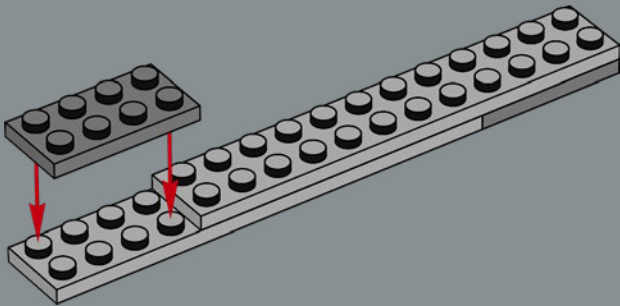




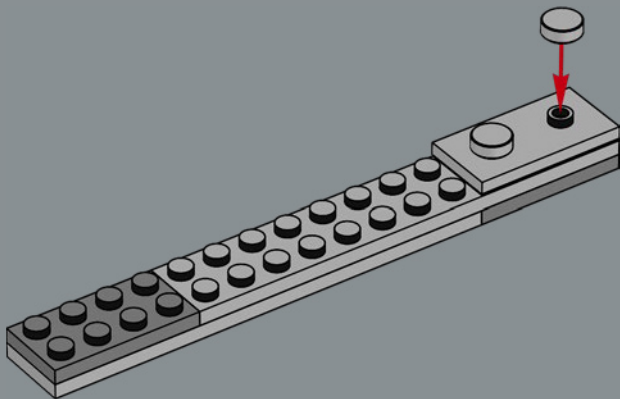
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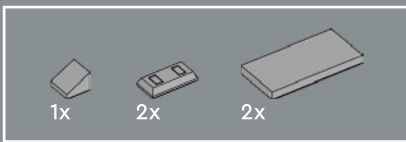


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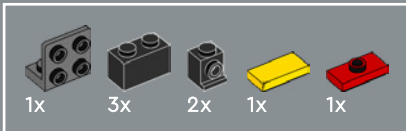
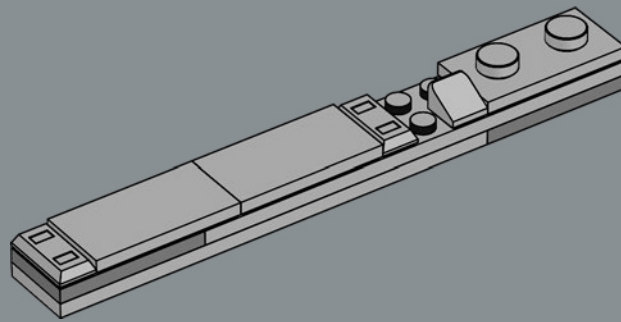


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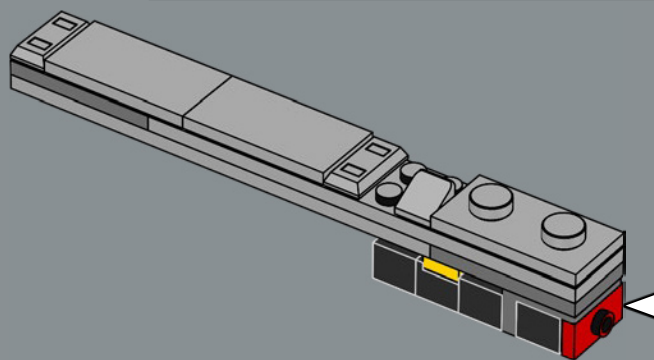
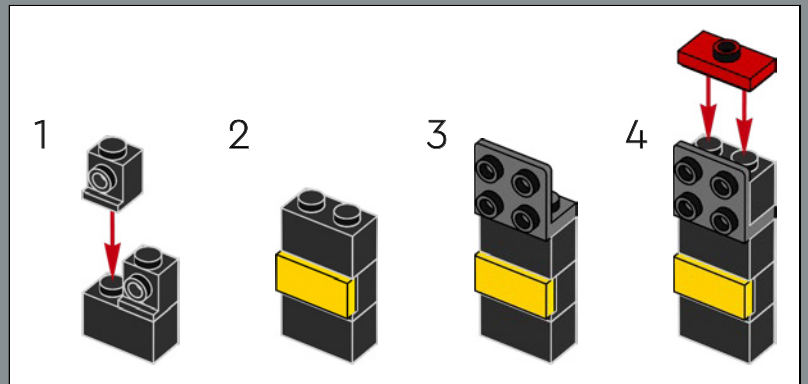


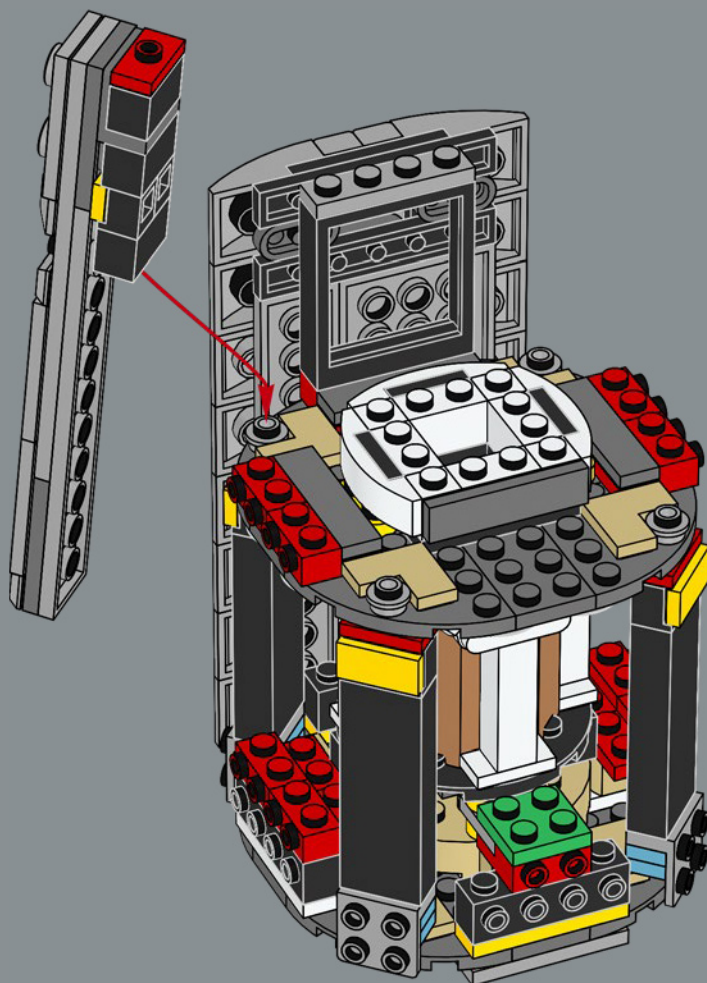


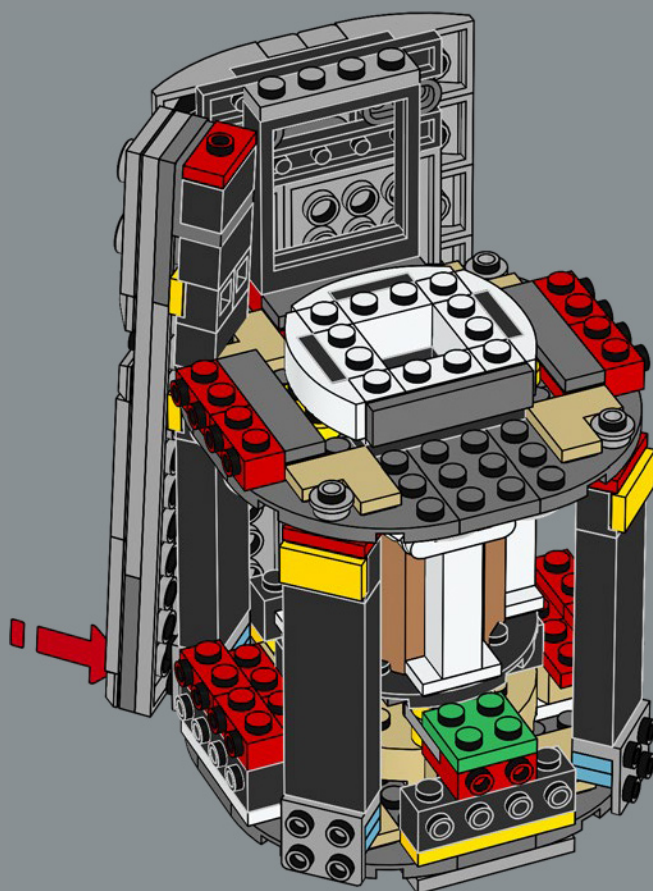
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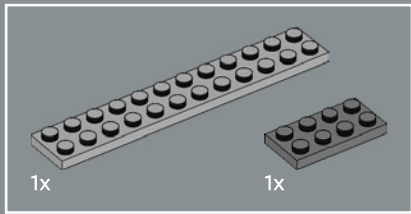


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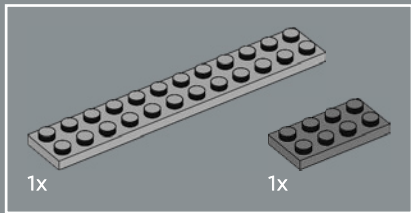
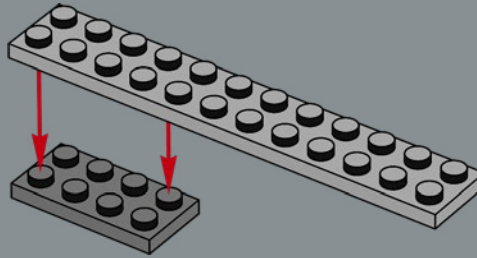




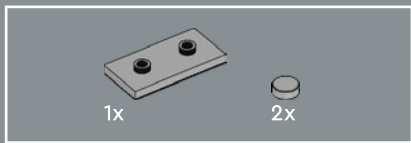
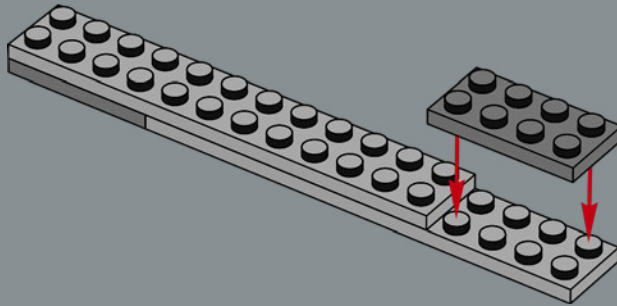




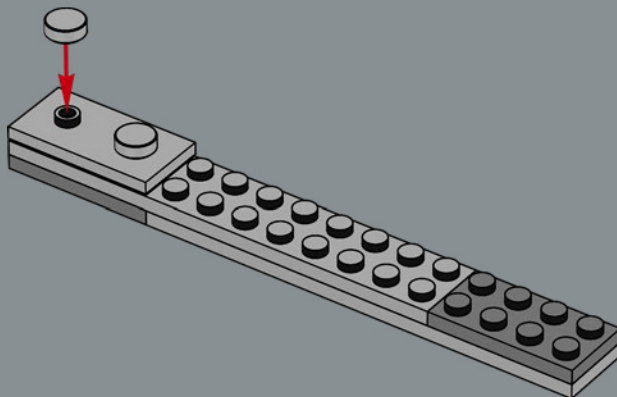
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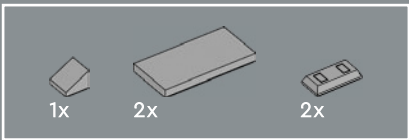


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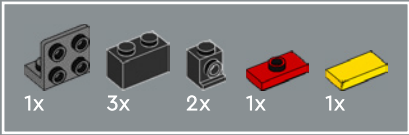
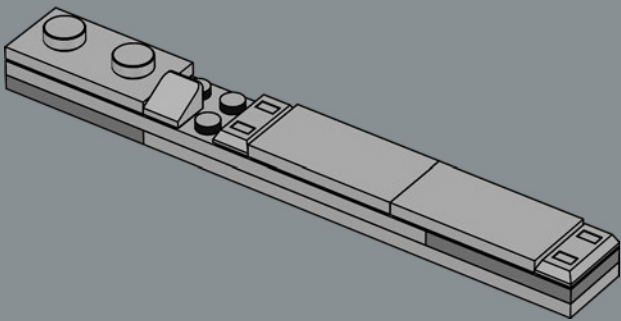


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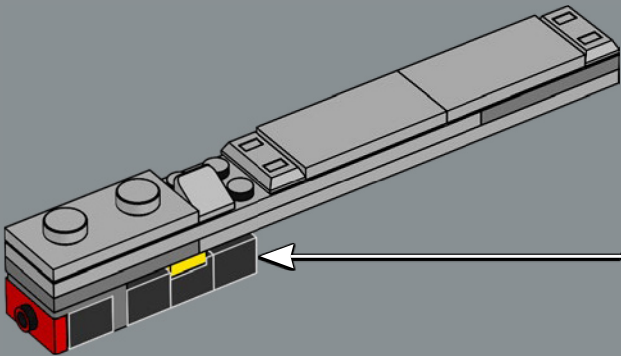
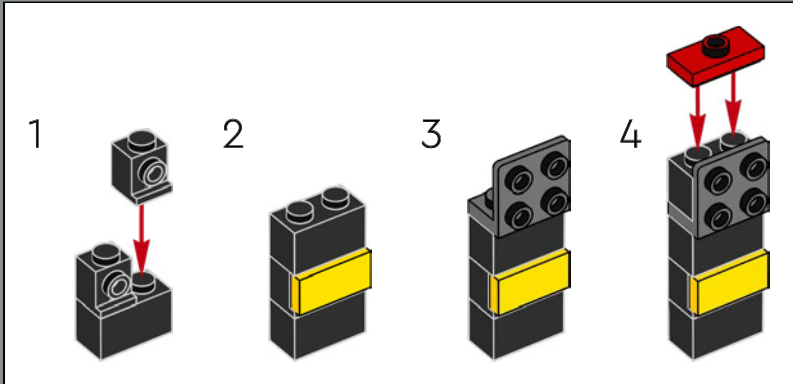


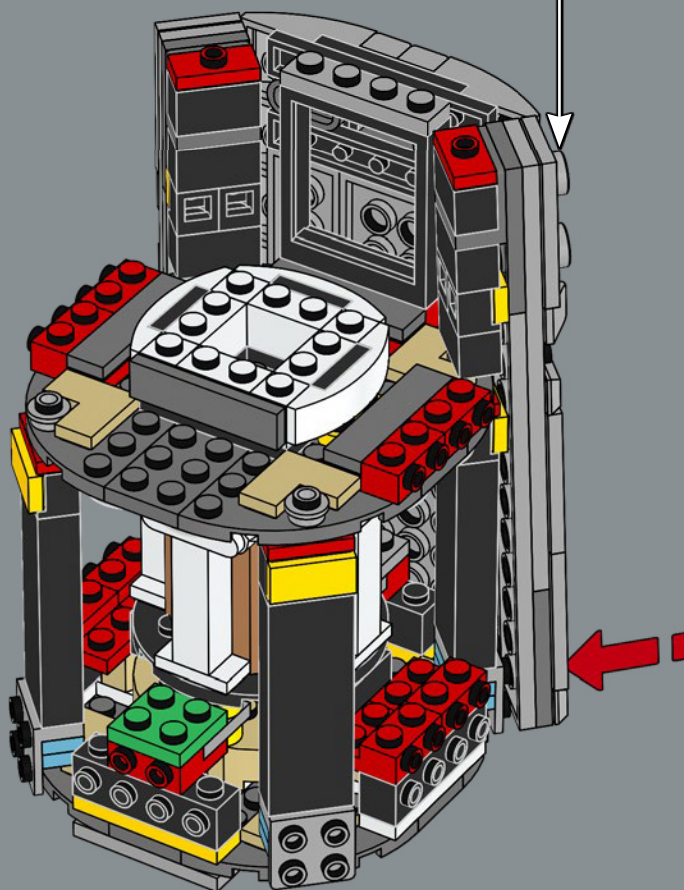


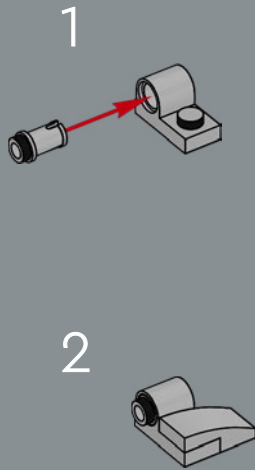
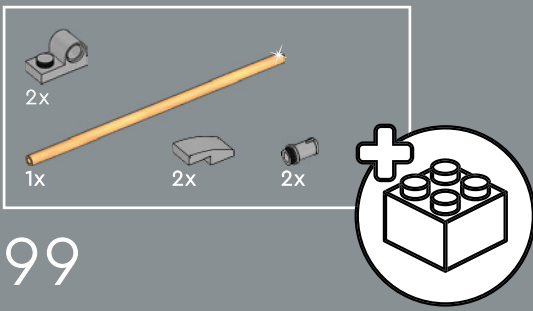
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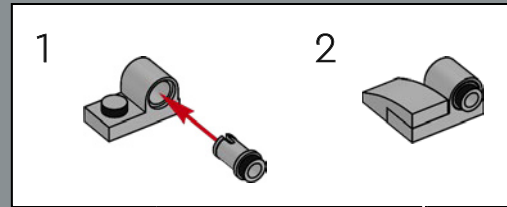
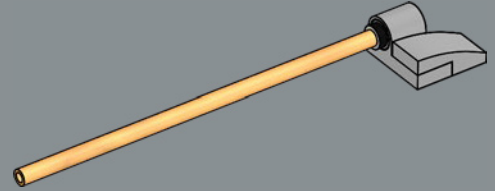
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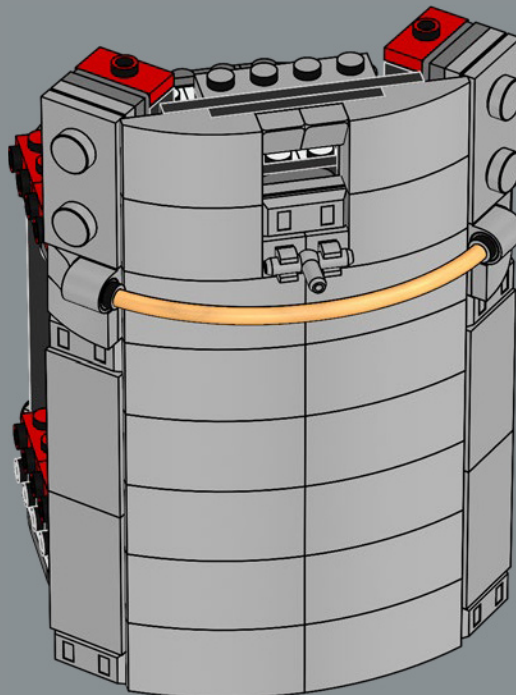
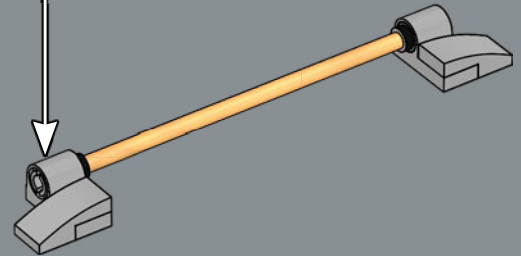


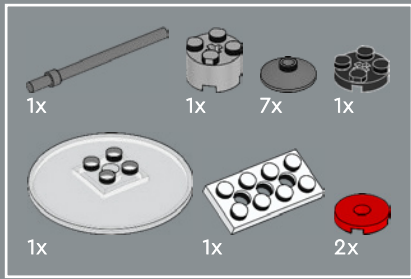


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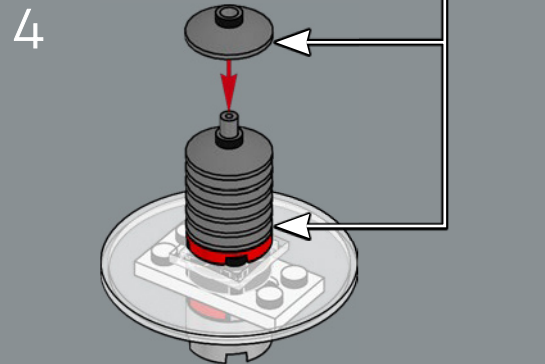
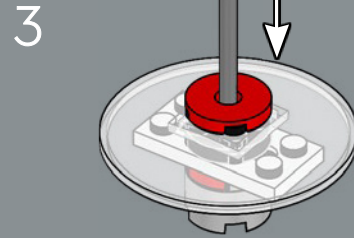
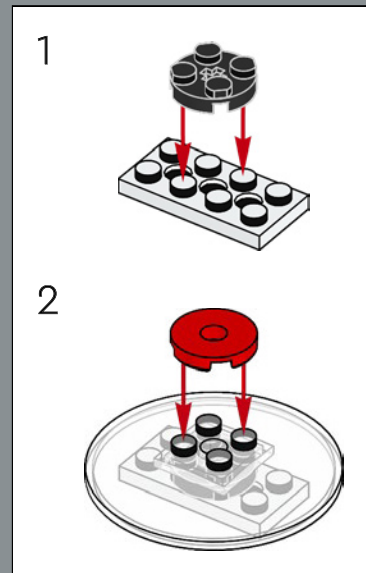
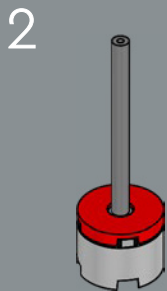
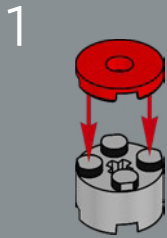


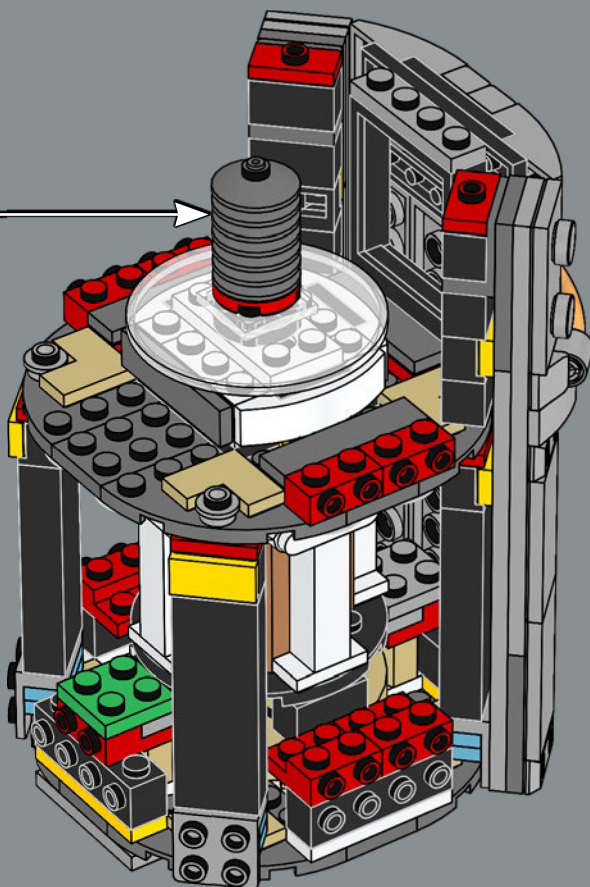
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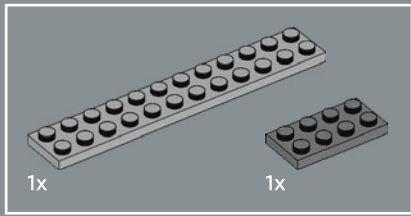




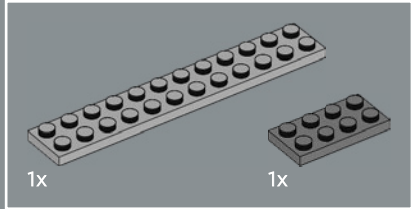
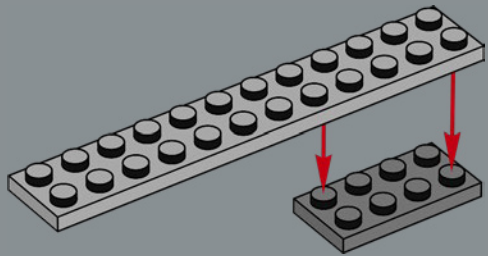
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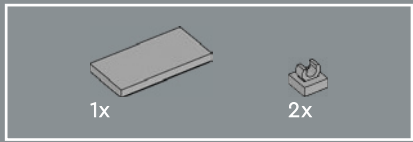
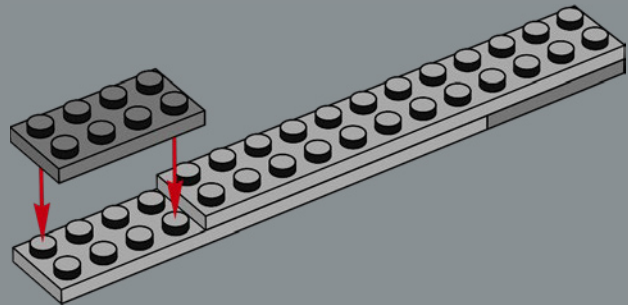




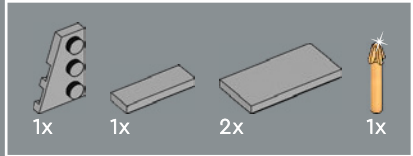
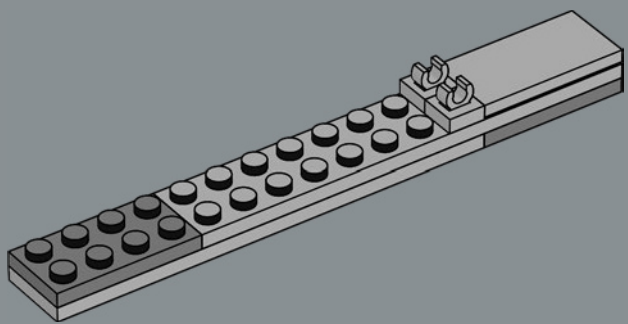
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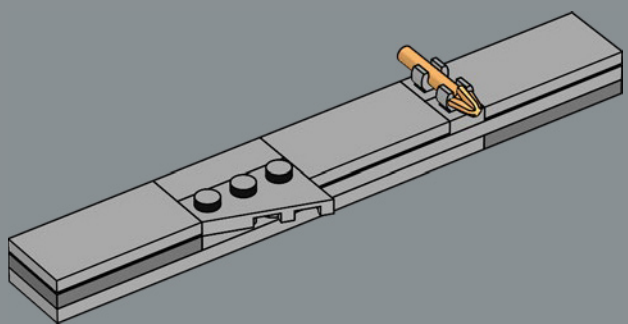
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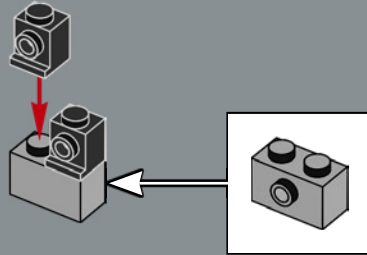
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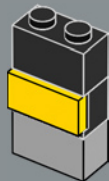
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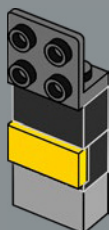
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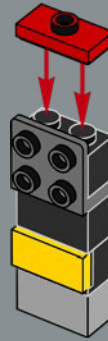
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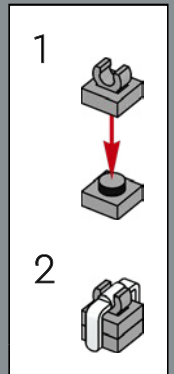
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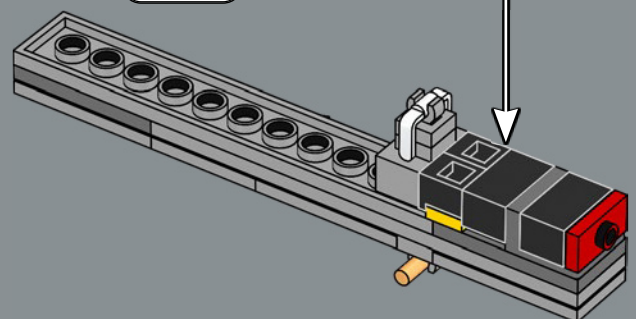
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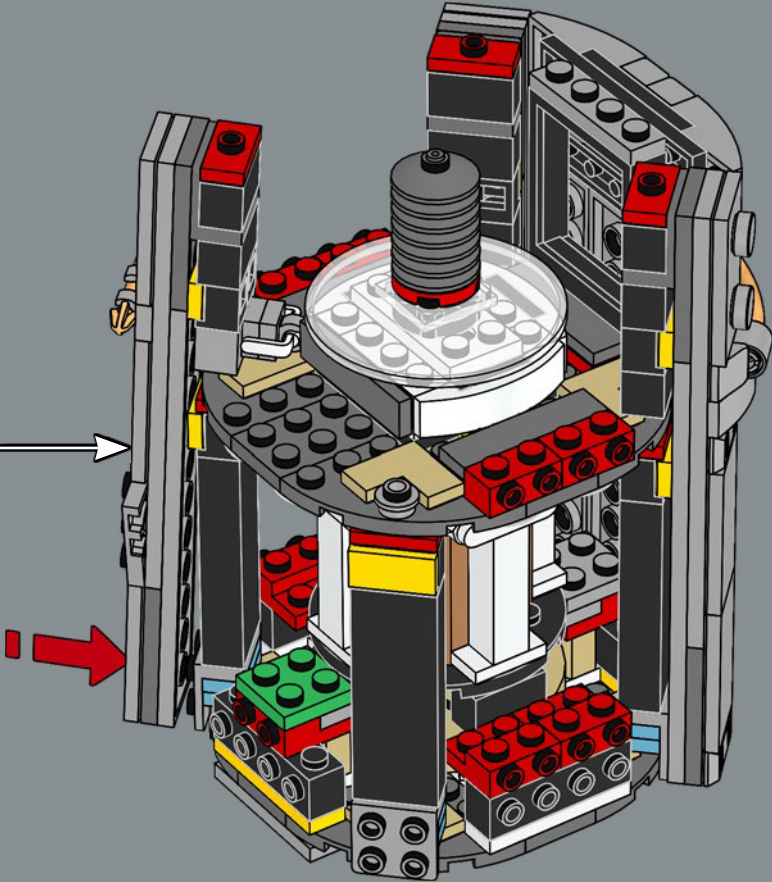


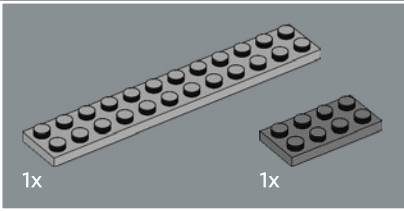
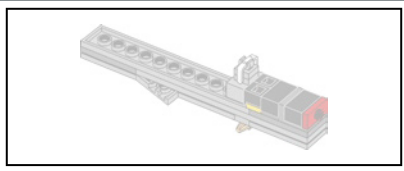
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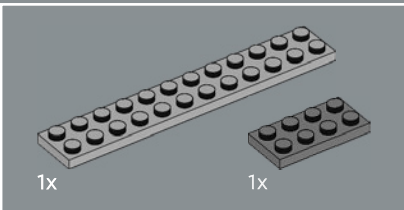
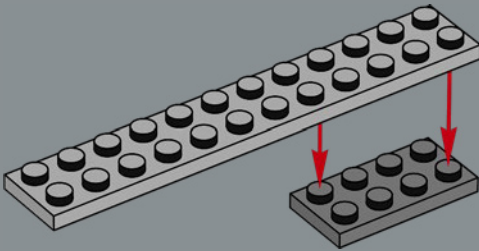
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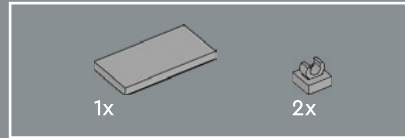
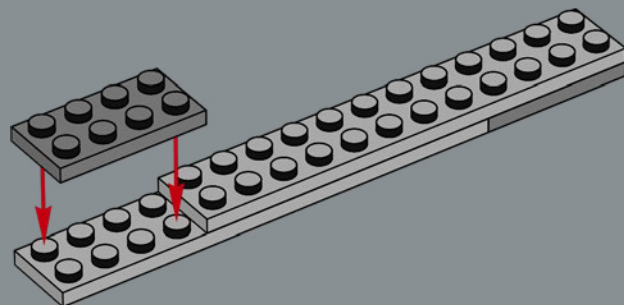




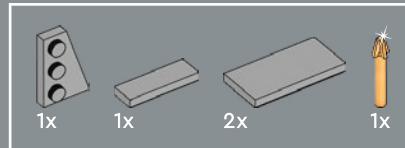
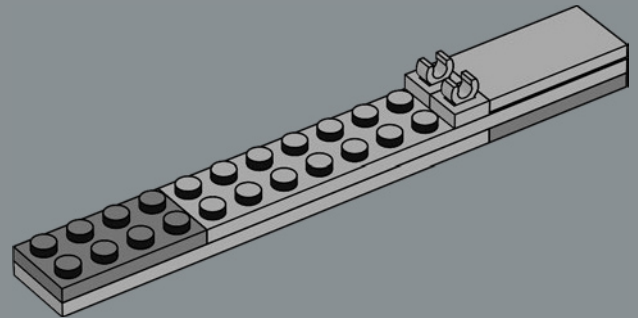
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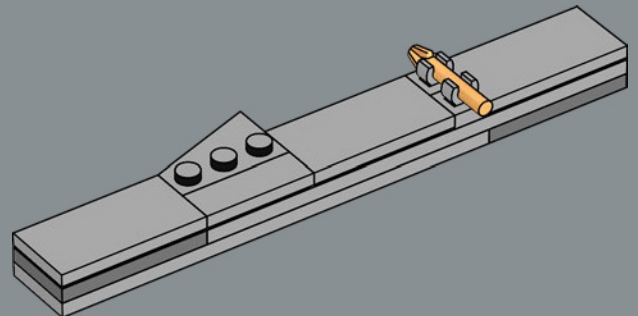
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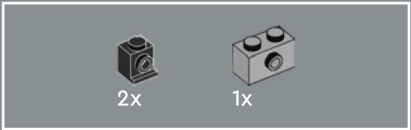


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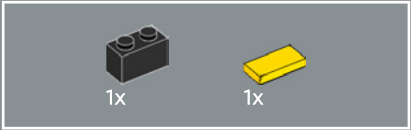
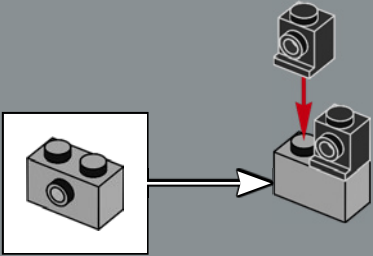


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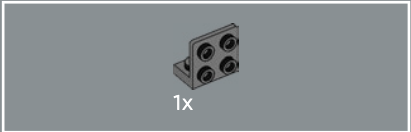
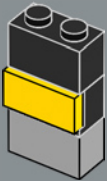




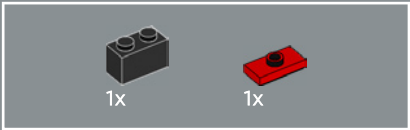
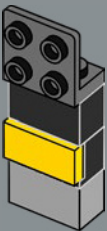
116



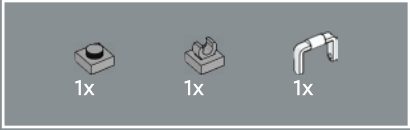
117



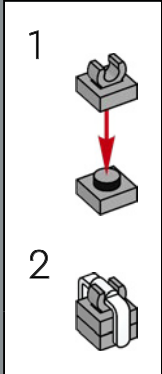
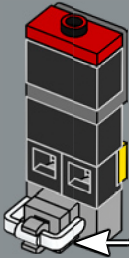
118



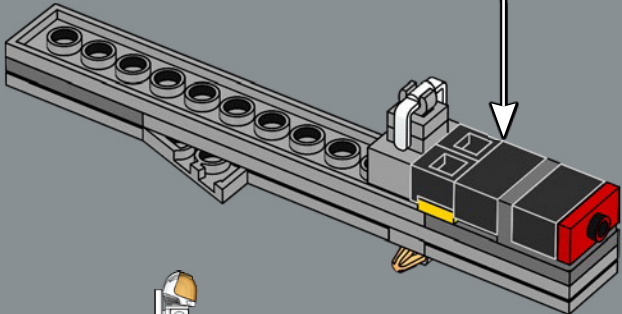
119



120



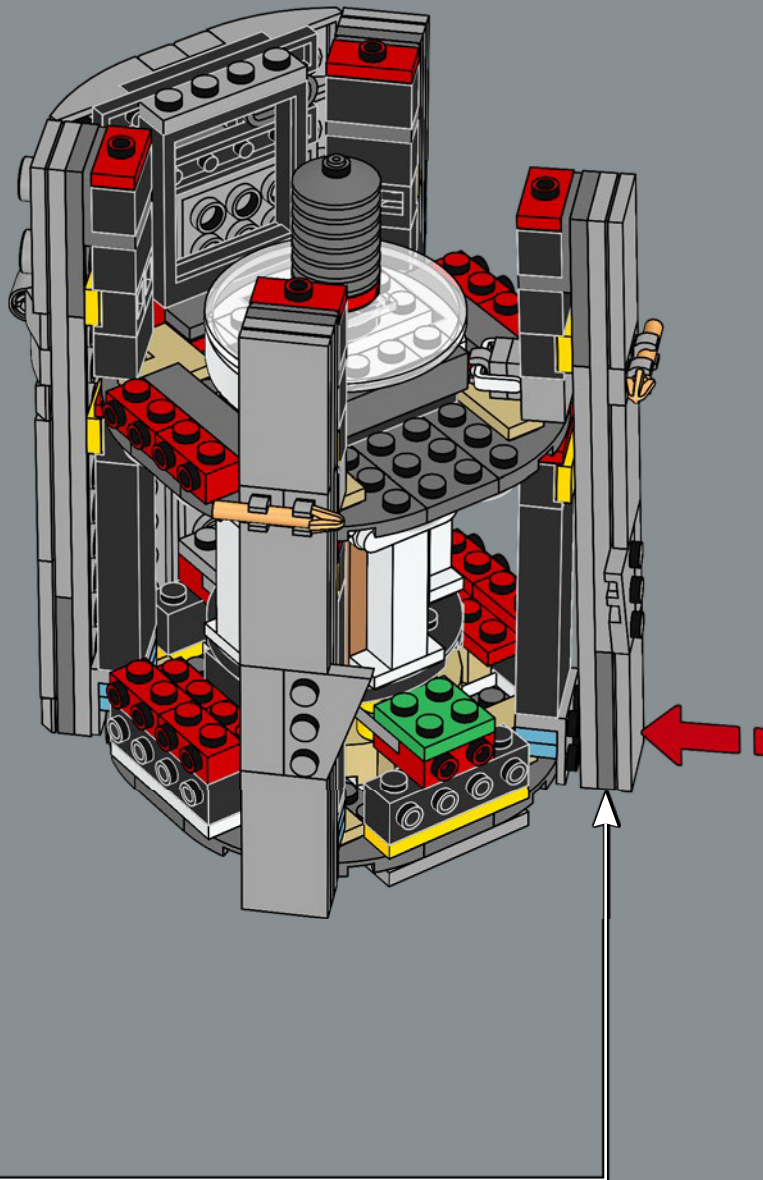
121

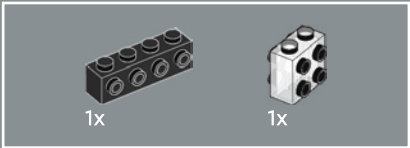
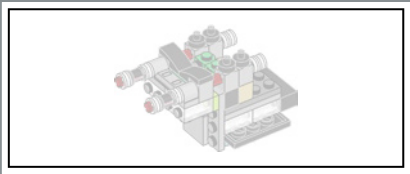


¿Perdido en el espacio? Quizá no contaremos pronto con un GPS que tenga cobertura en todo el universo... Hasta la fecha, solo se ha observado el 0,1 % del cielo.

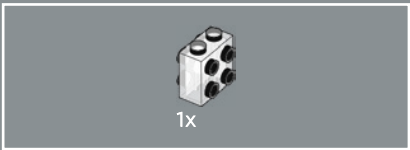
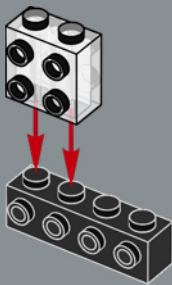


122

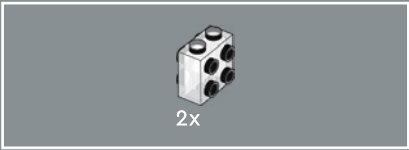
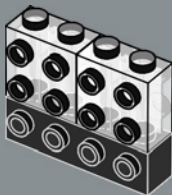




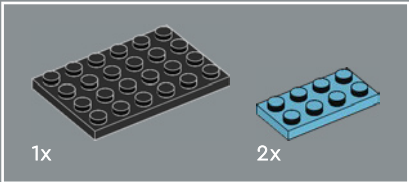
123



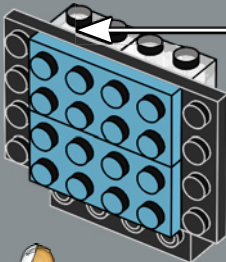
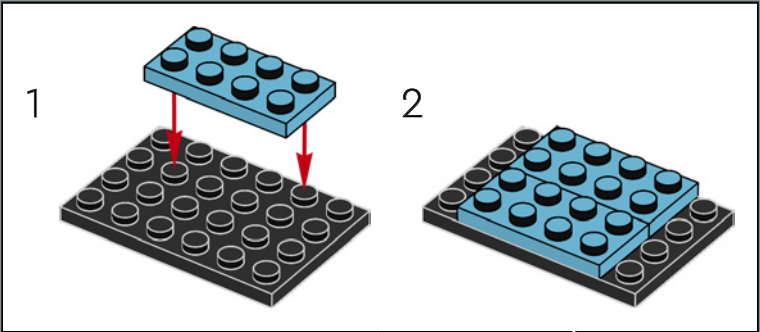
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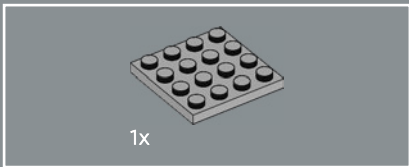


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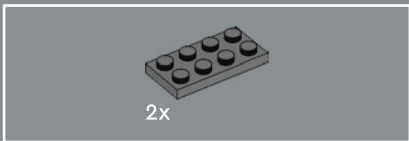
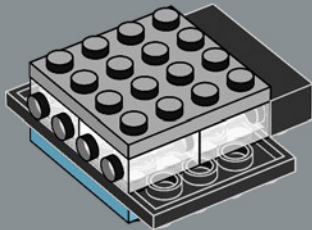


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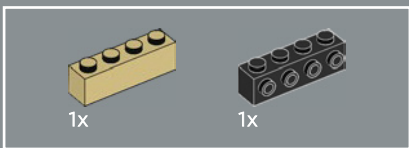
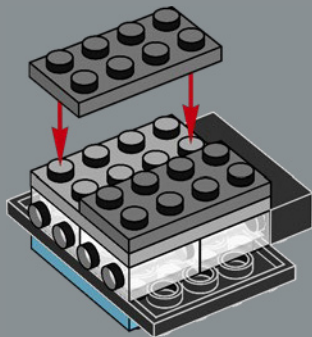




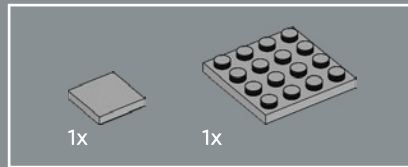
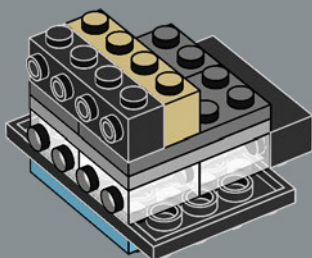
127



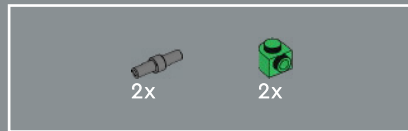
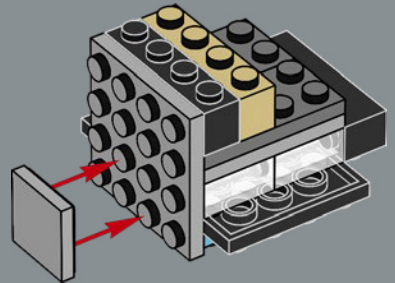
128



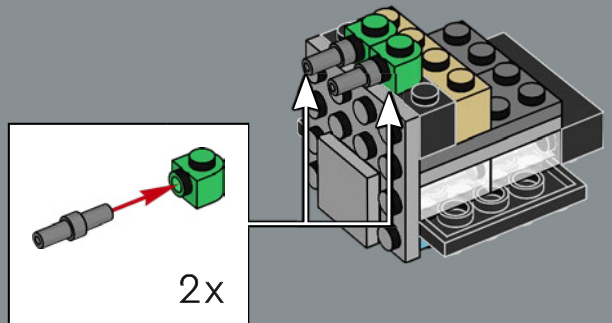
129



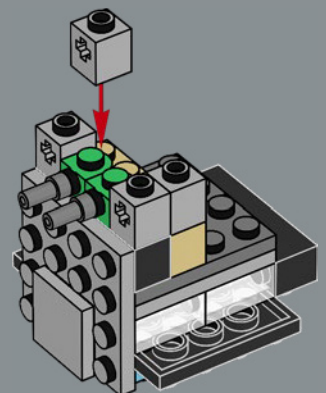
130



131

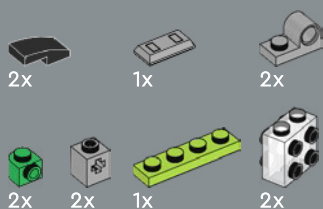
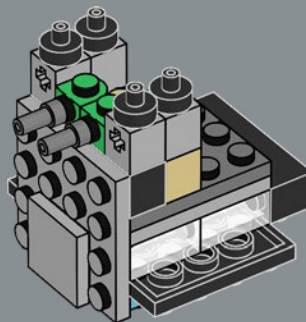


132

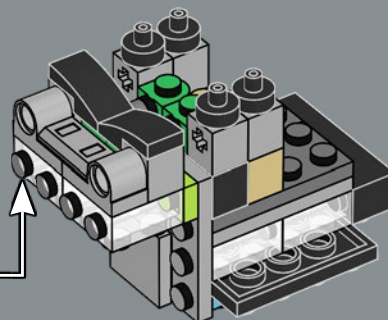
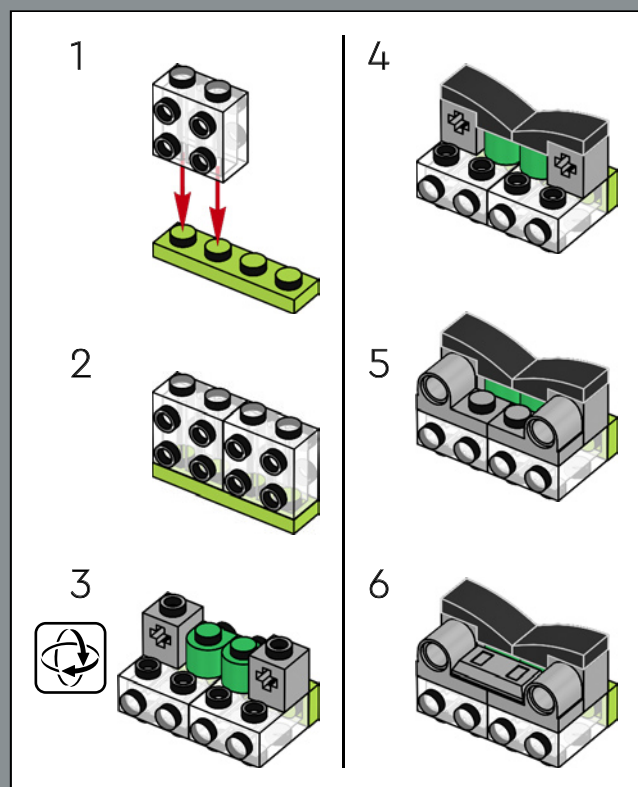


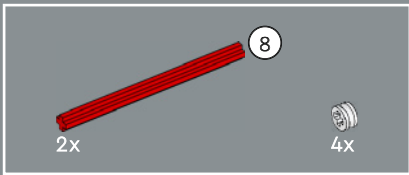
4x

133

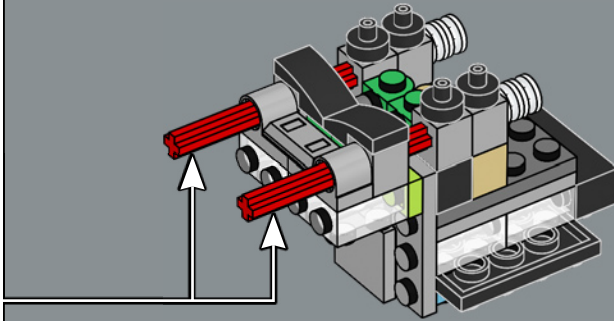
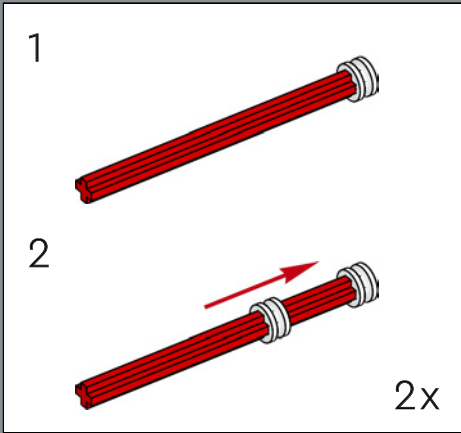


134

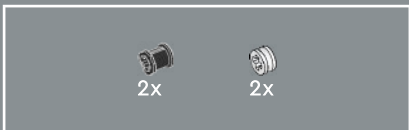
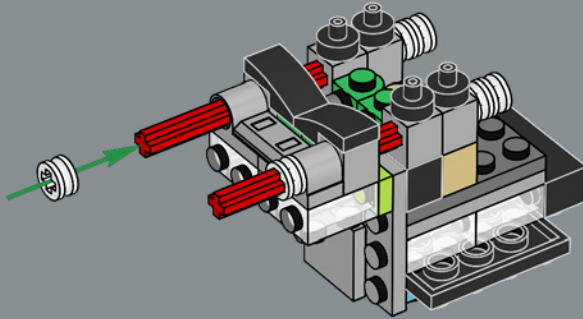




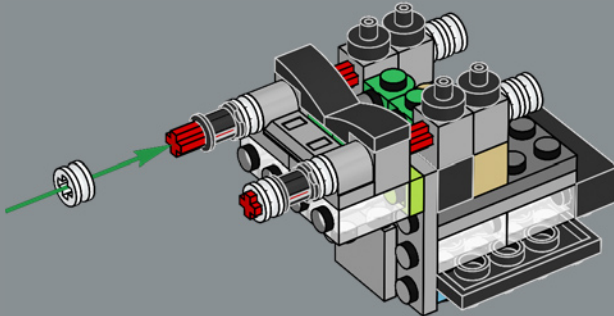
135



136



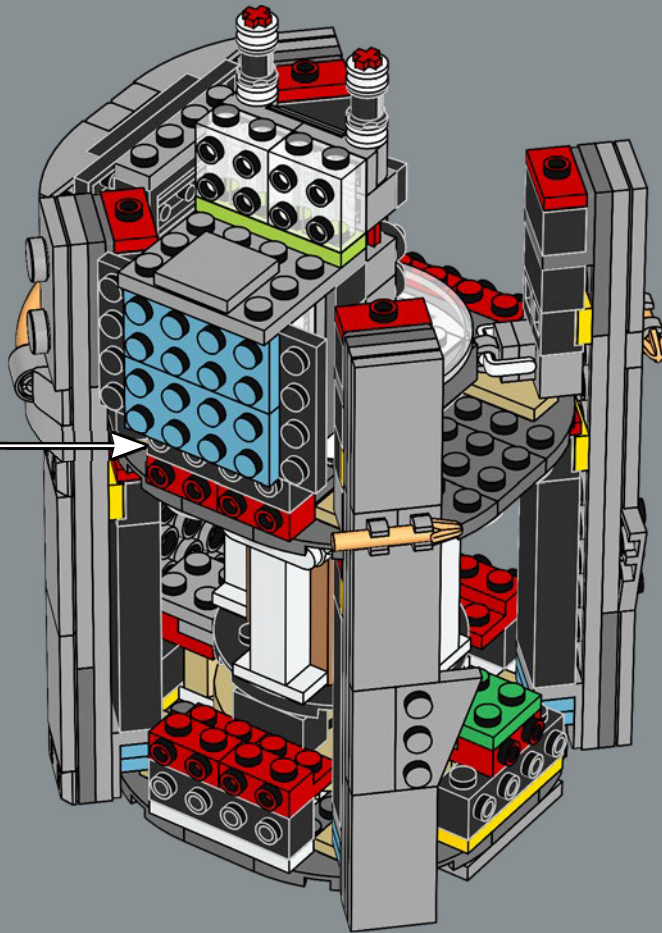
137

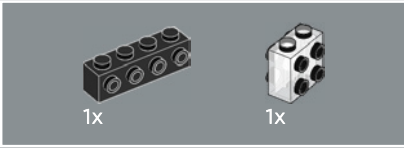
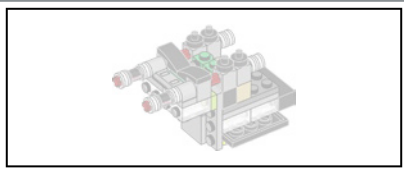


El Hubble orbita la Tierra a una altitud aproximada de
483 km y a una velocidad media de 27.000 km/h.

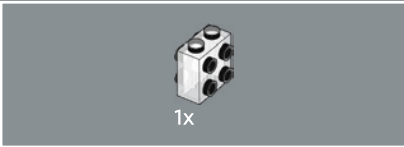
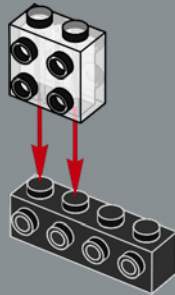


138

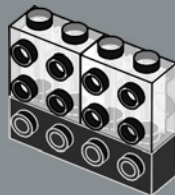




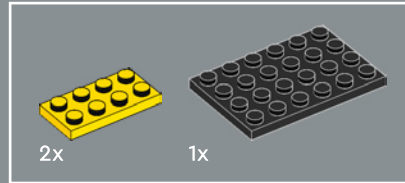
139



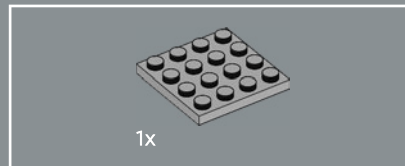
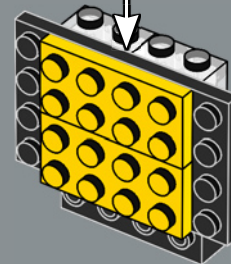
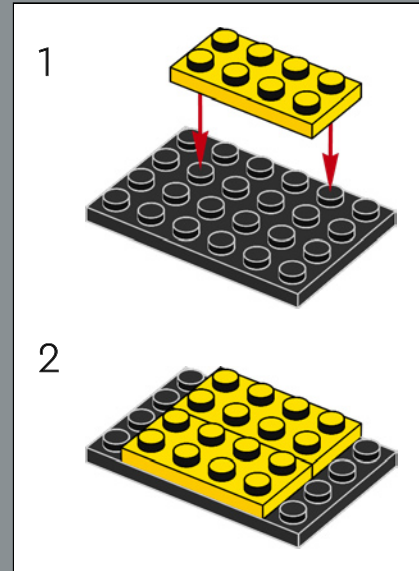
140



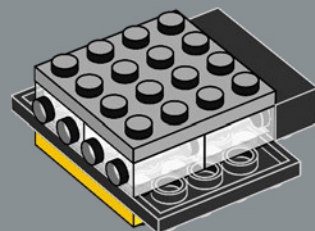
141

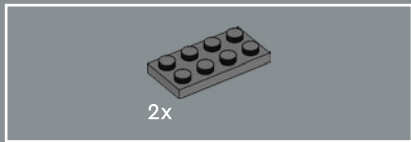


142

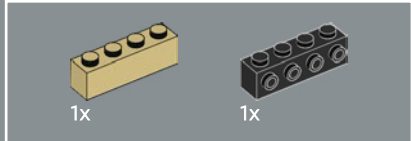
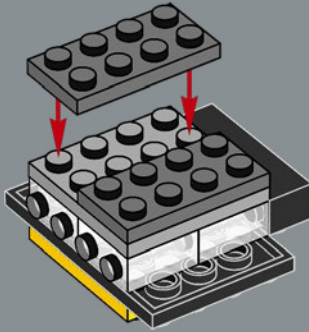


143

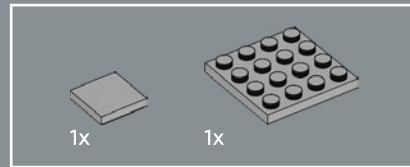
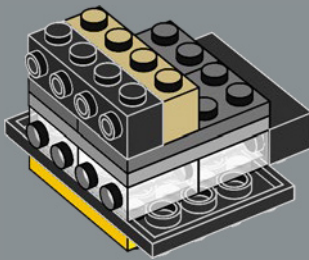




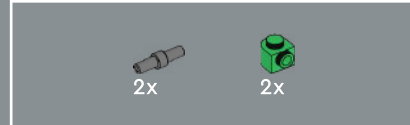
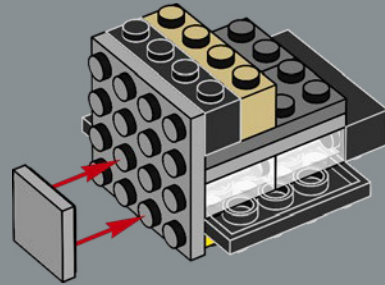
144



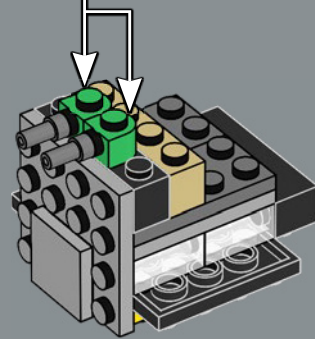
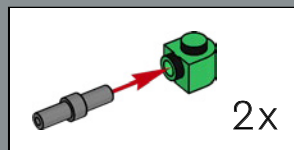
145



146



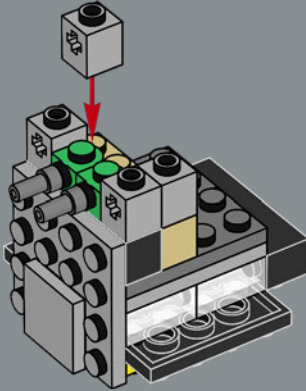
147





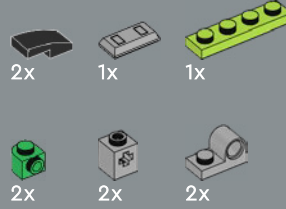
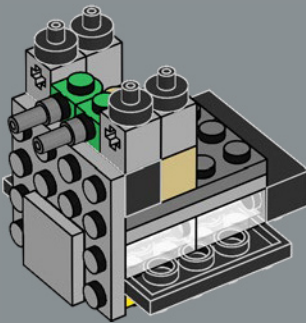
4x

148



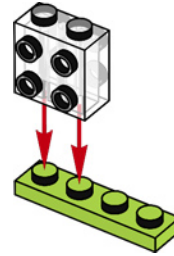
4x

149

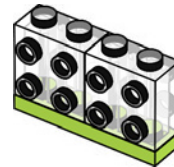


150

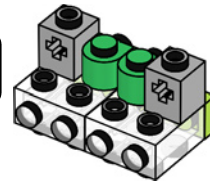
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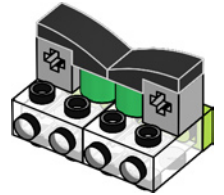
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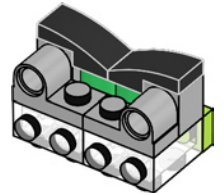
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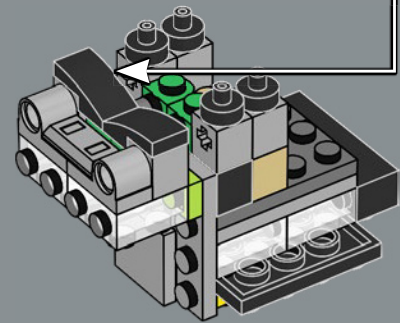
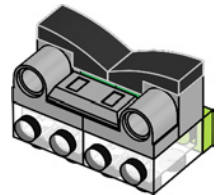
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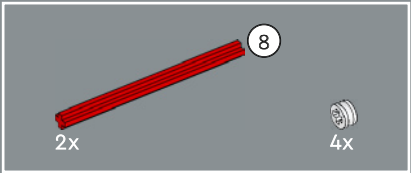


5

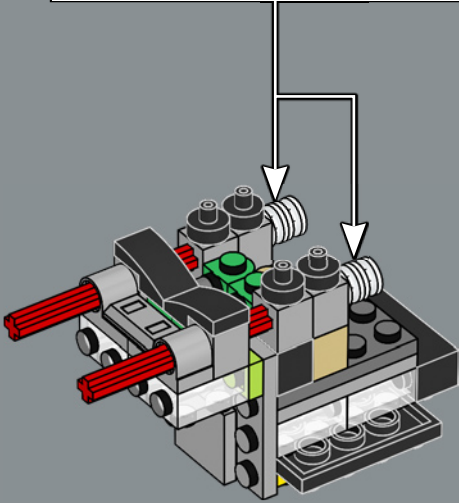
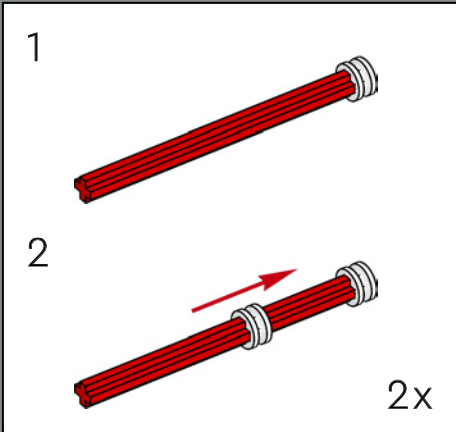


6

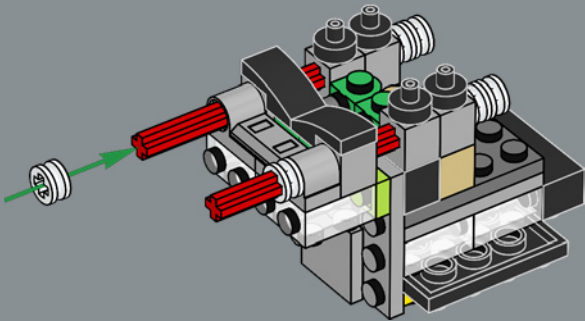




151



152



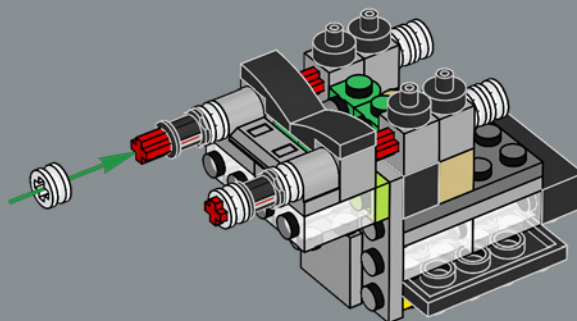


2x

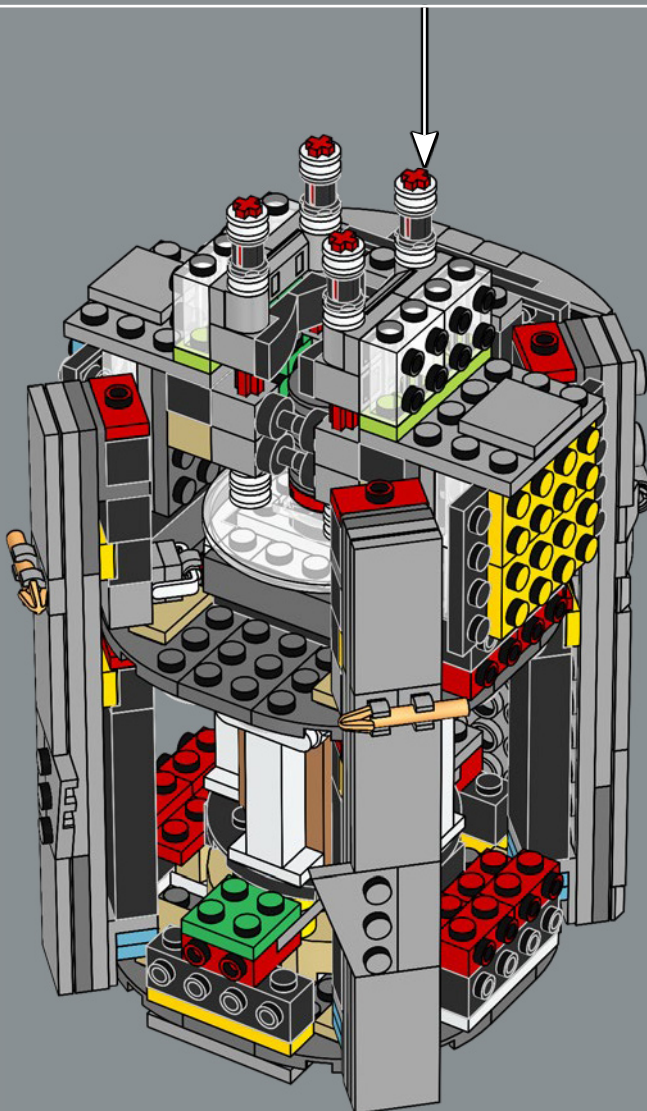


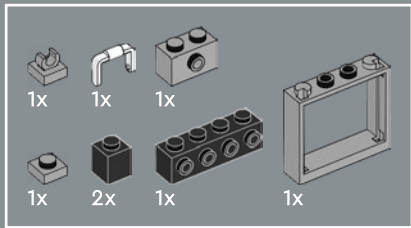
2x

153

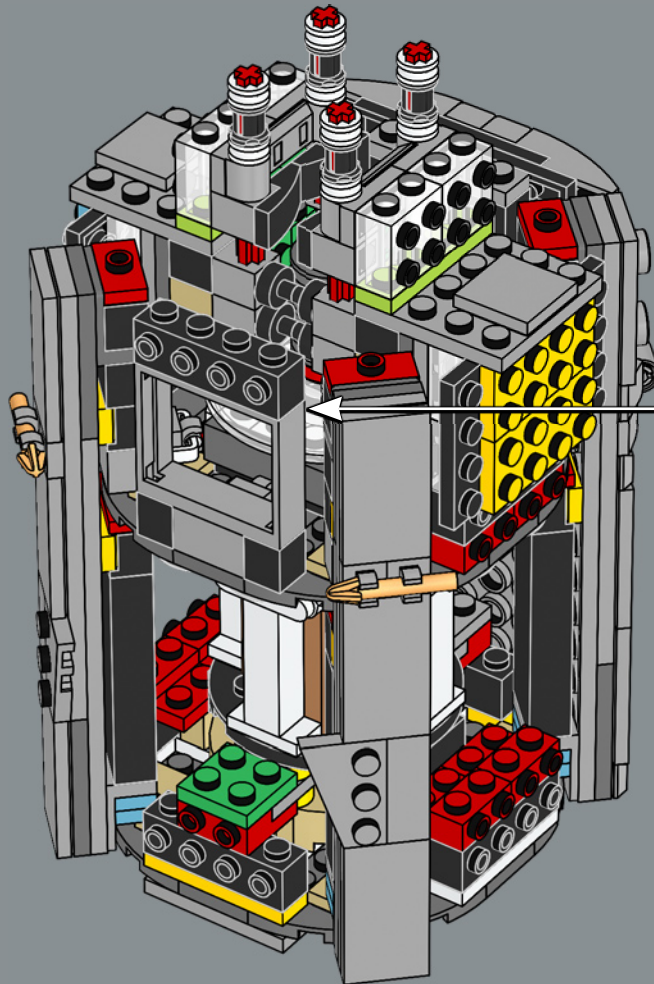
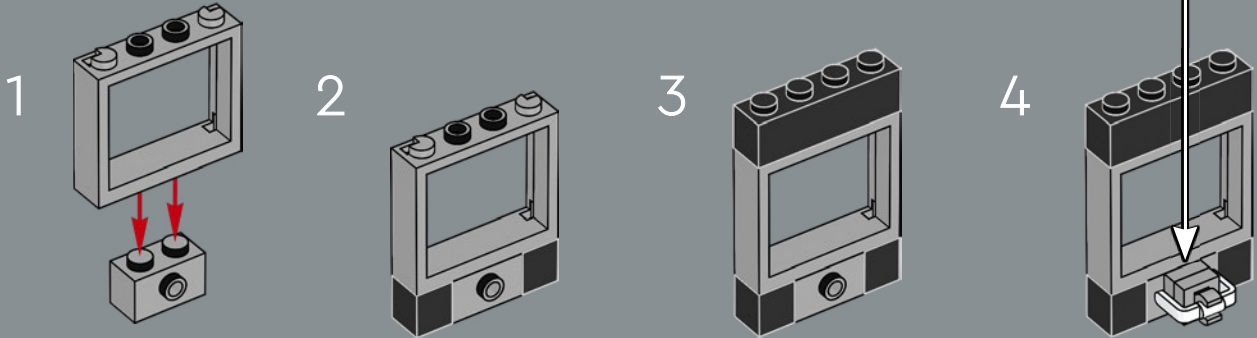
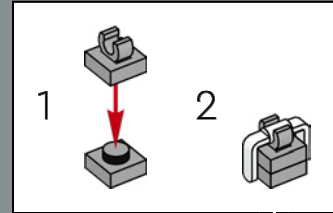


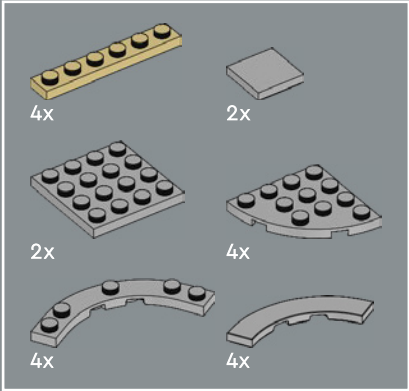
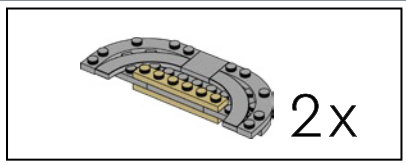
154





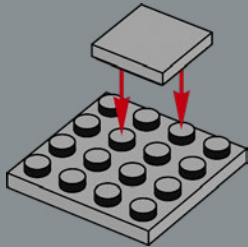
155



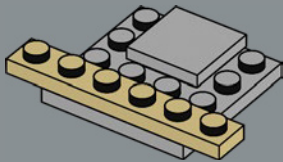


156

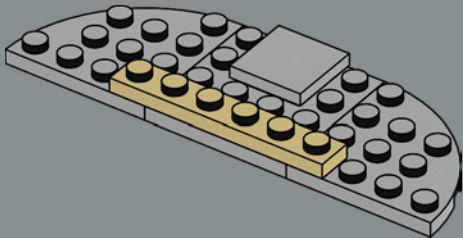
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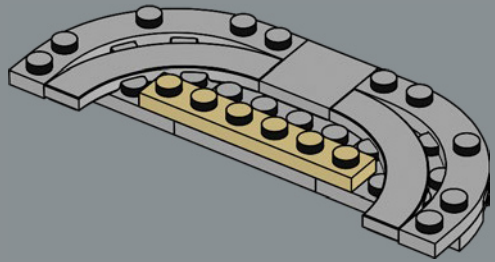
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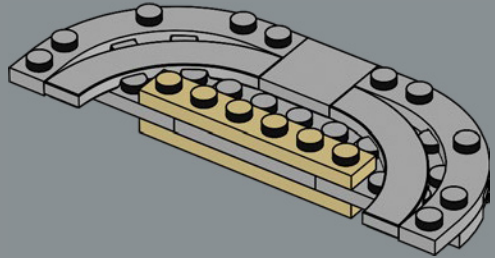
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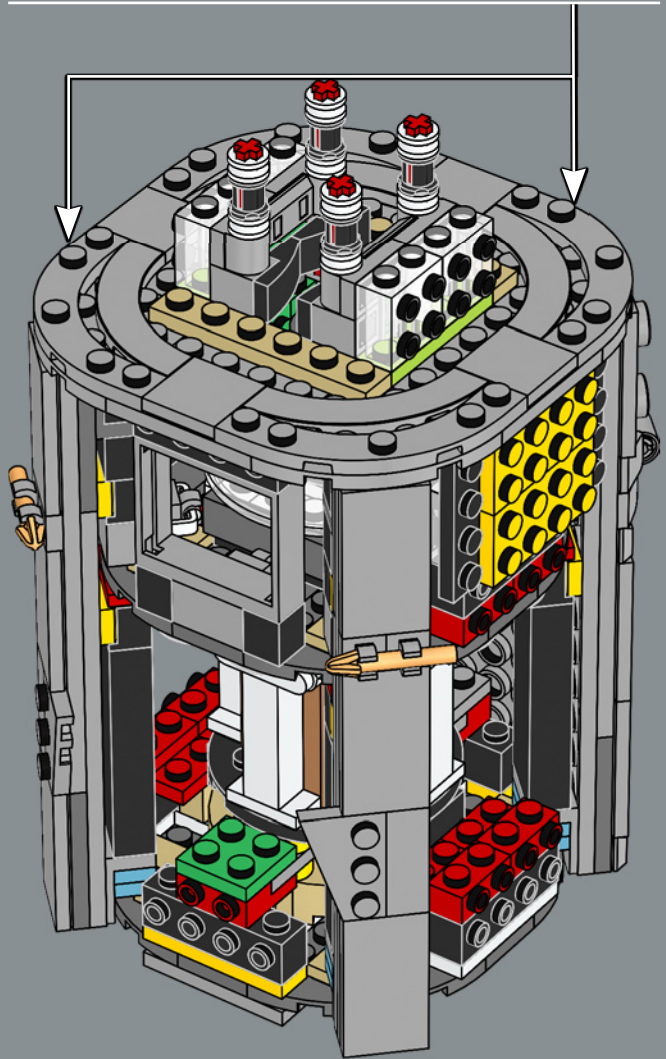
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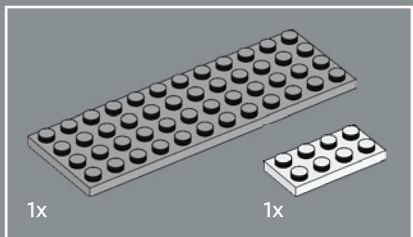
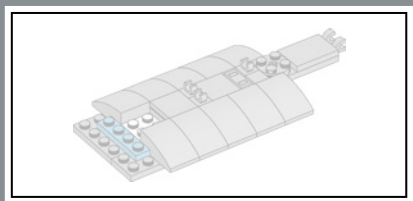


5

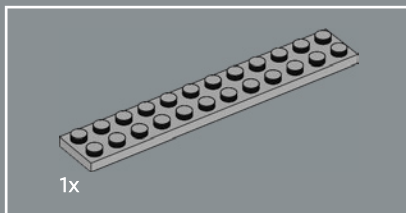
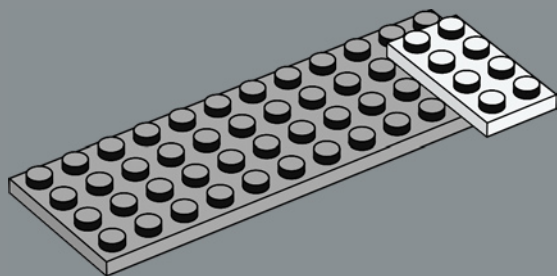


2x

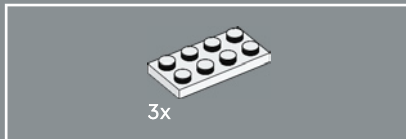
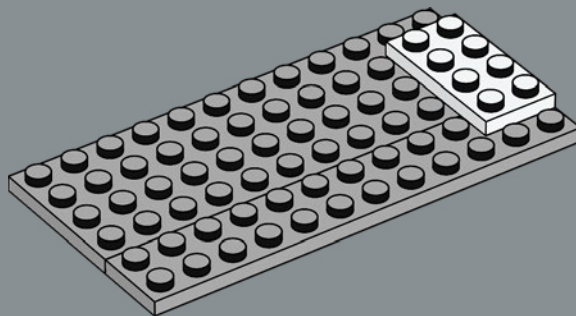




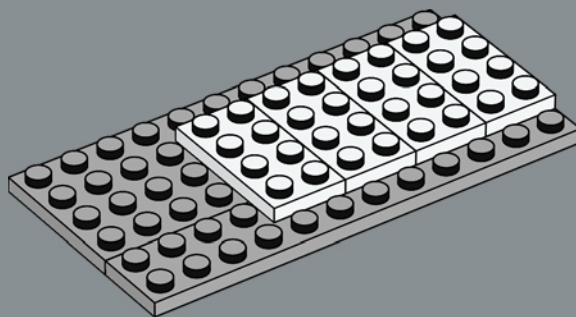
157

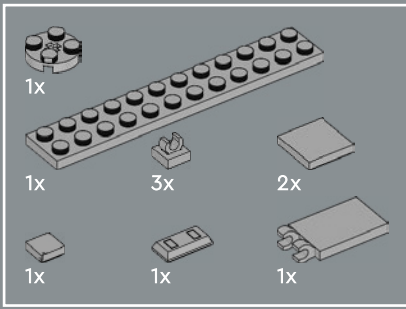


158

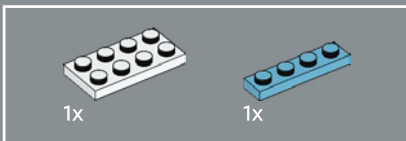
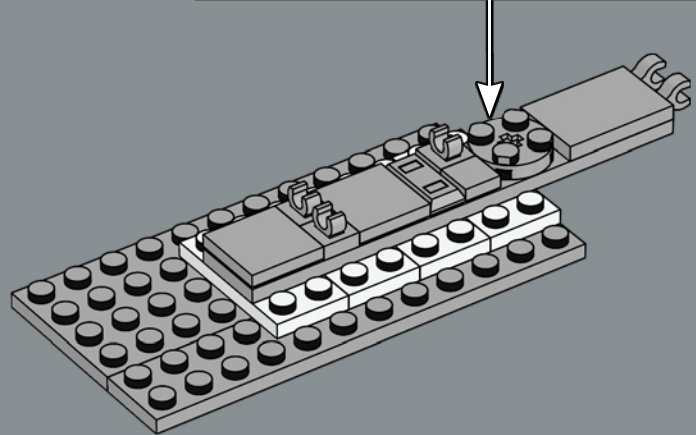
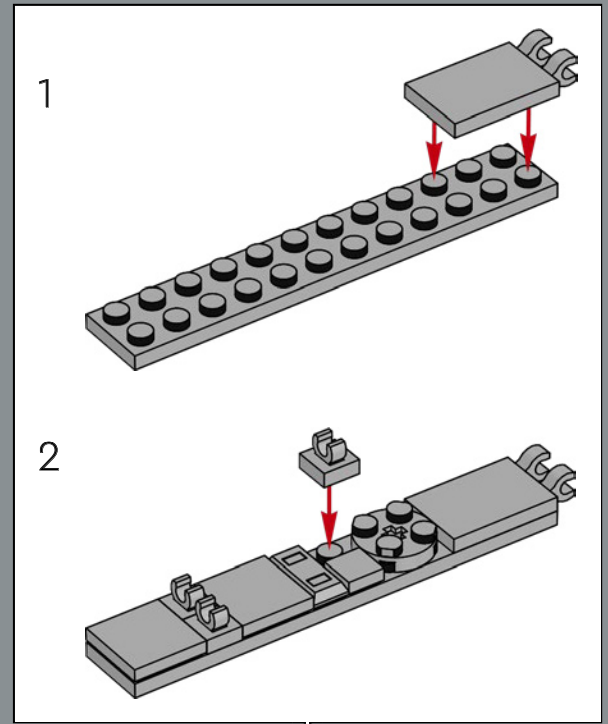


159

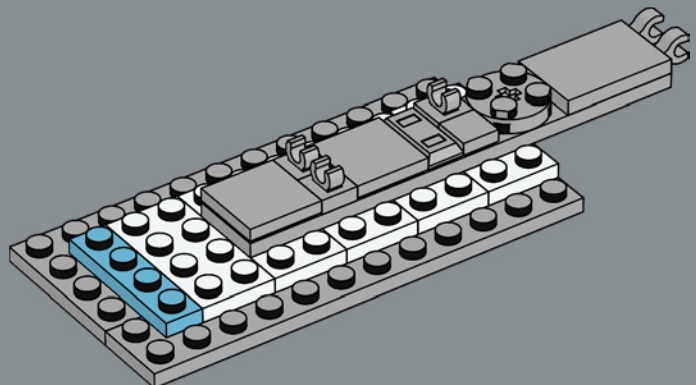


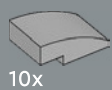


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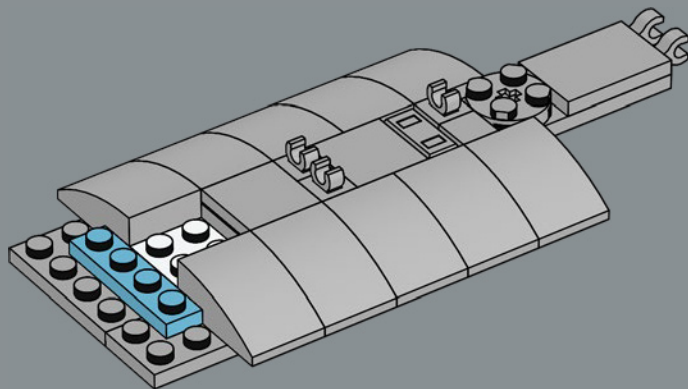
161



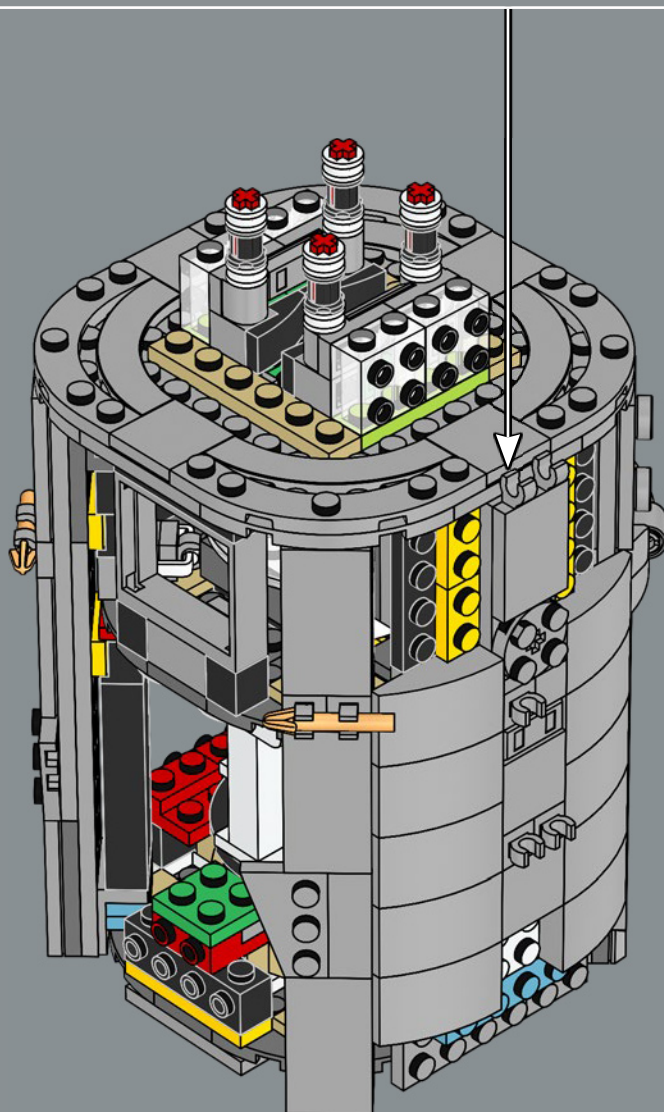


10x

162



163

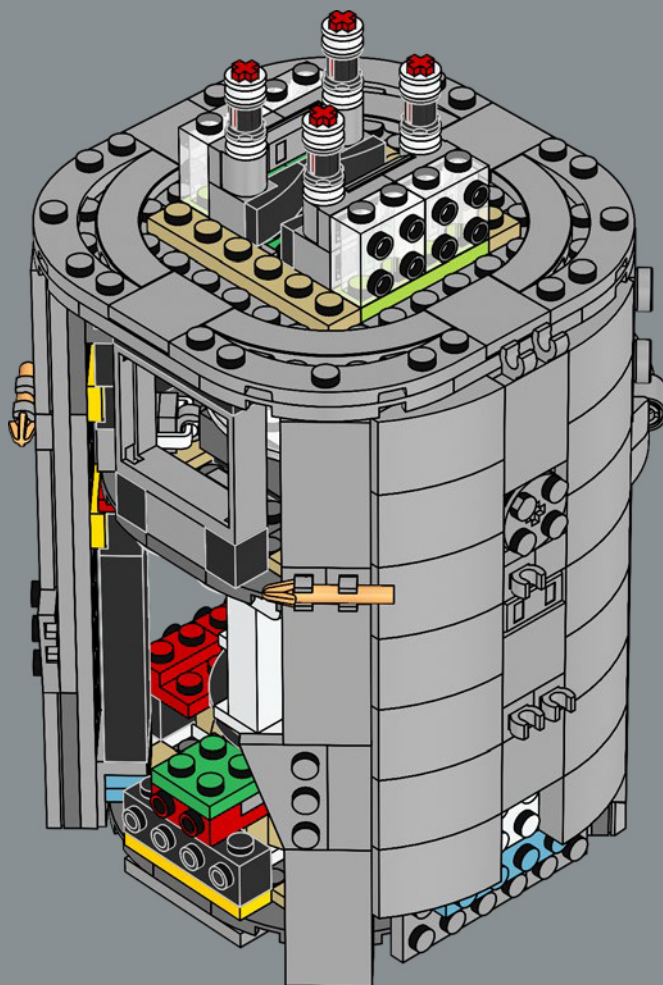


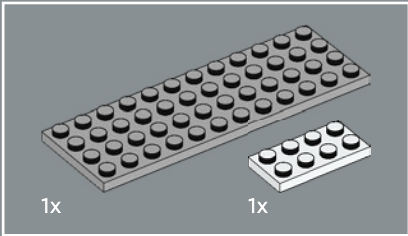
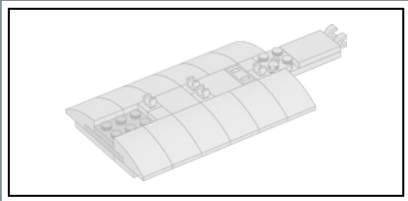


4x

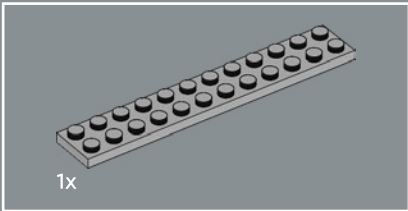
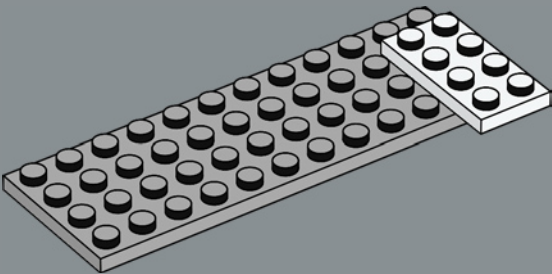
164

Habiendo completado más de
184.000 órbitas terrestres, el Hubble
ha recorrido más de 8000 millones de
kilómetros hasta ahora.

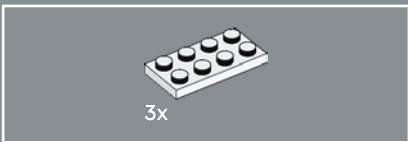
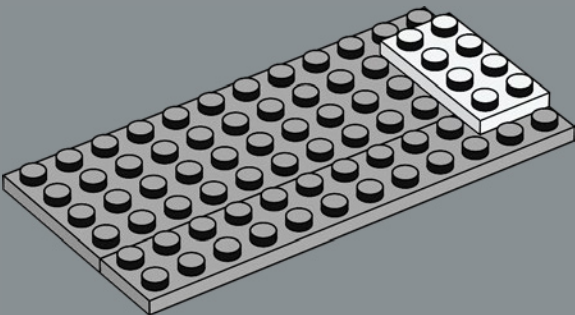




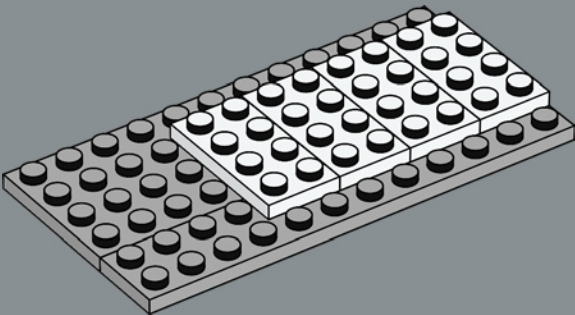
165

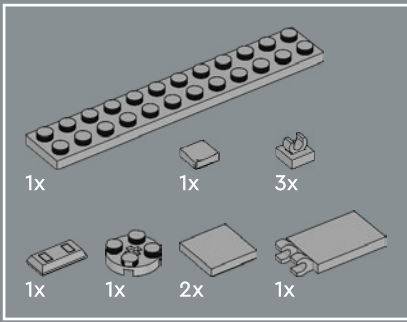


166

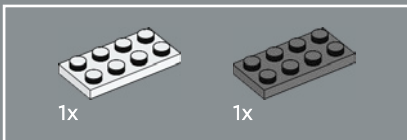
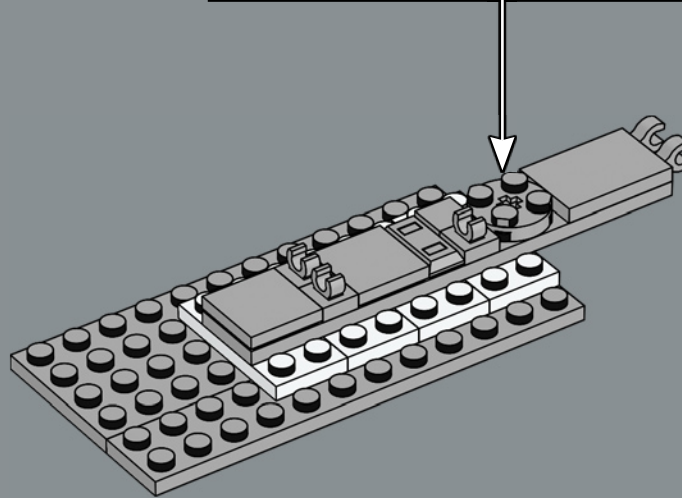
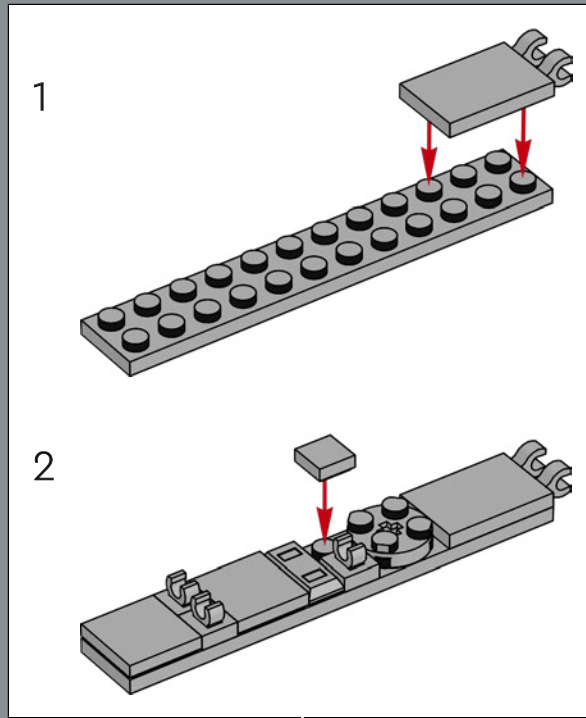


167

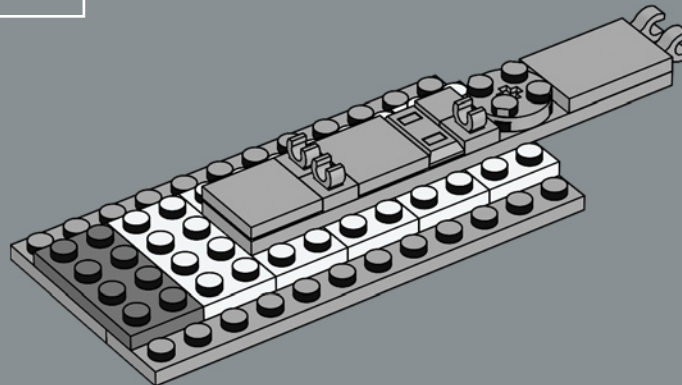




168



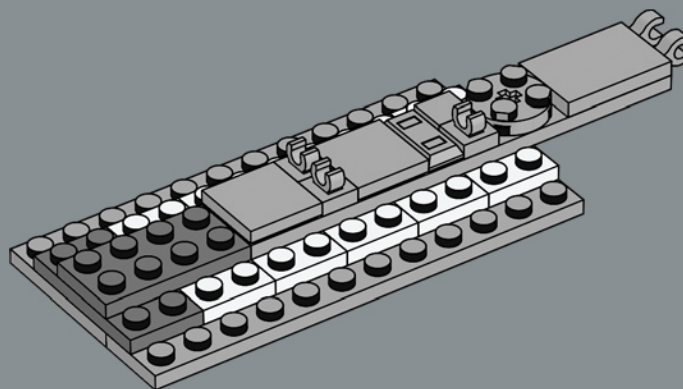
169





1x

170

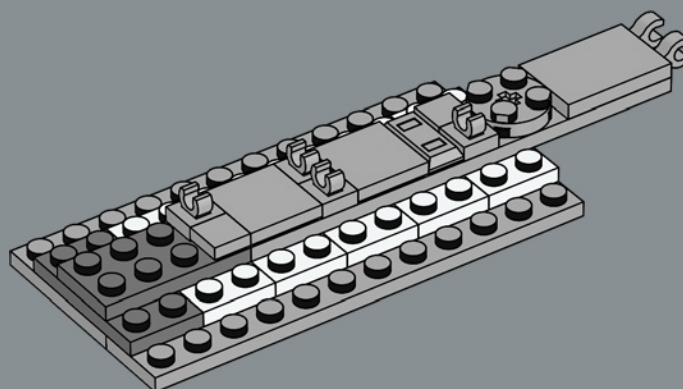


1x



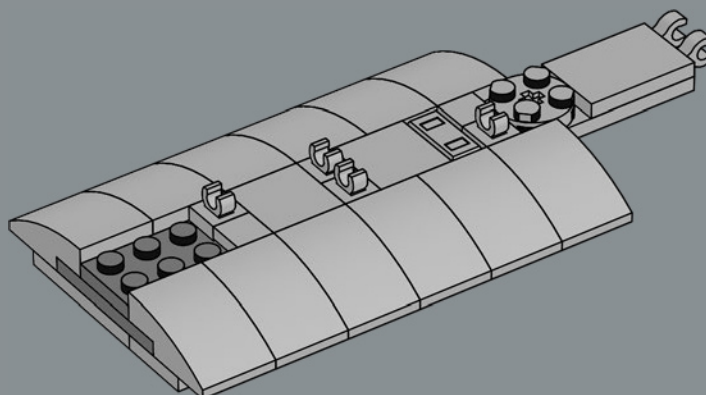
1x

171

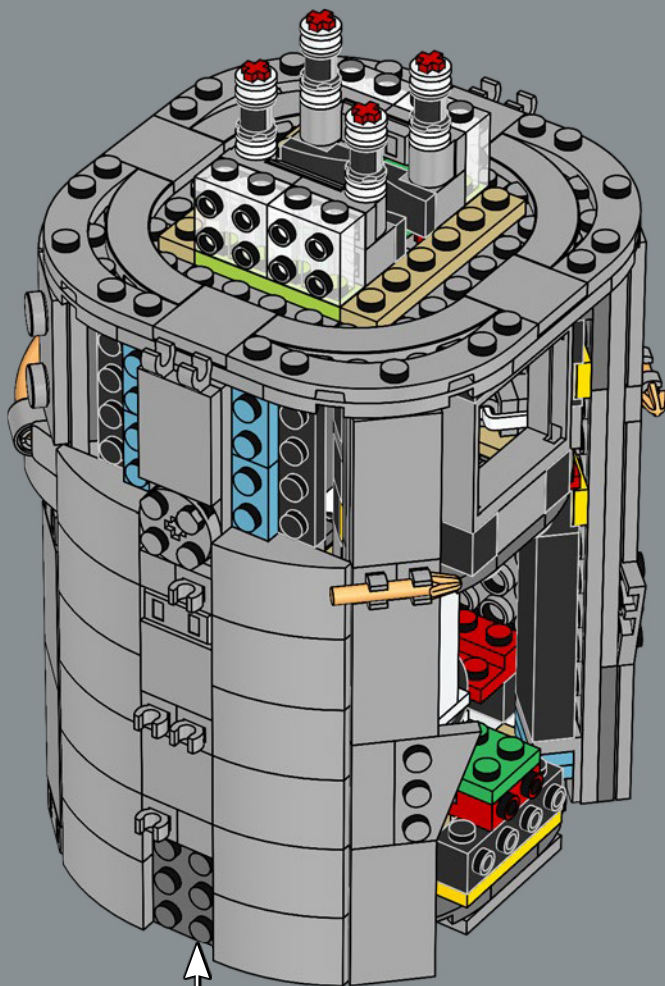


12x

172



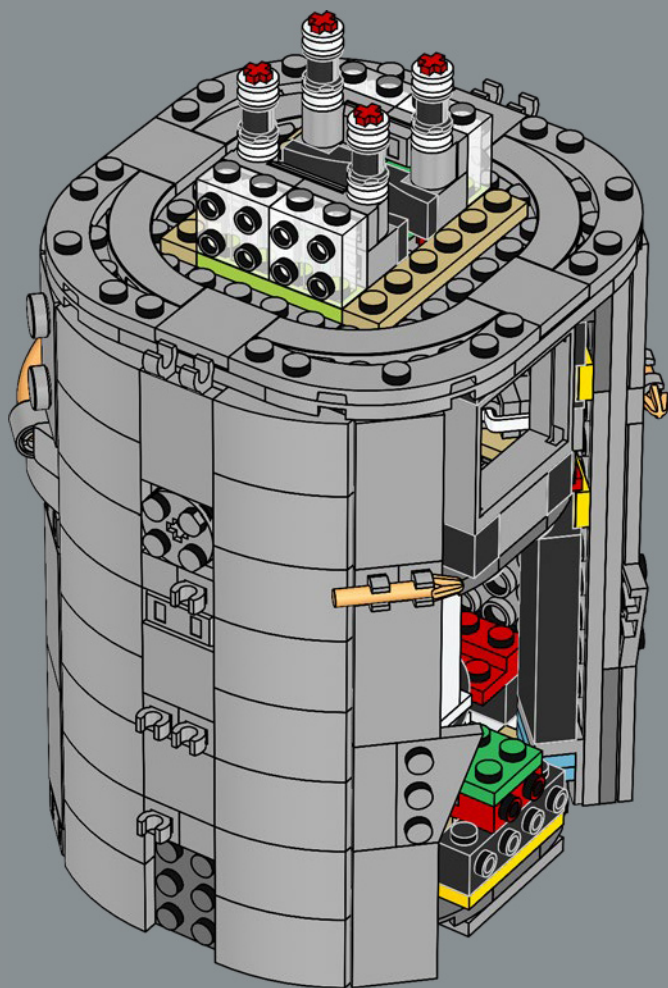
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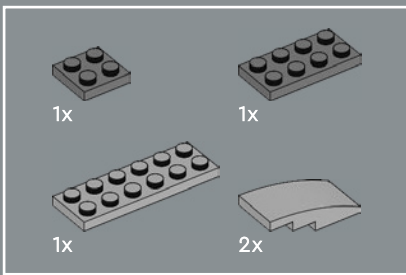




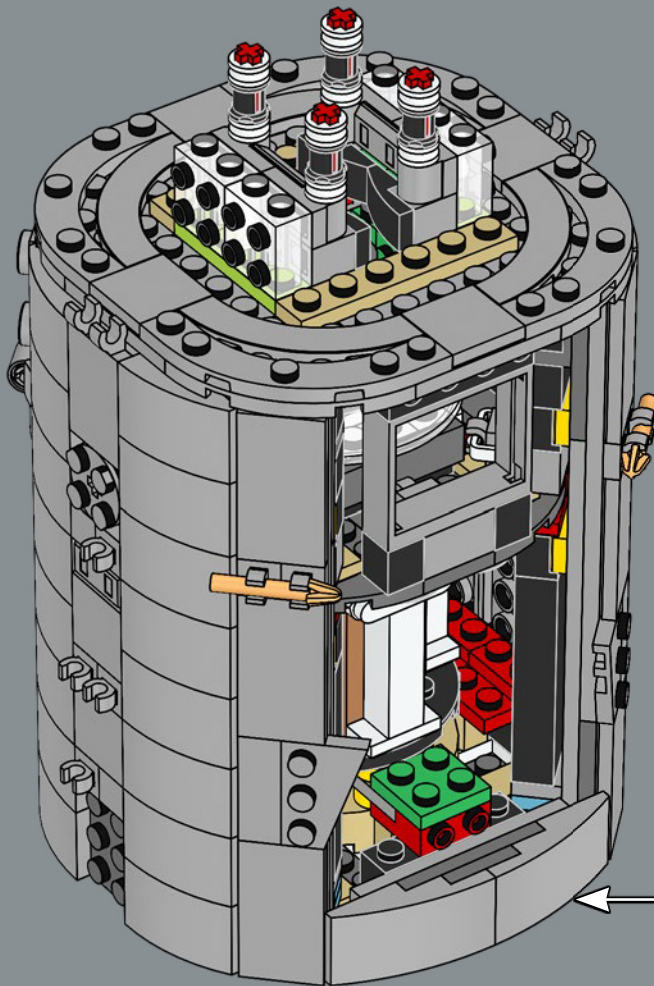
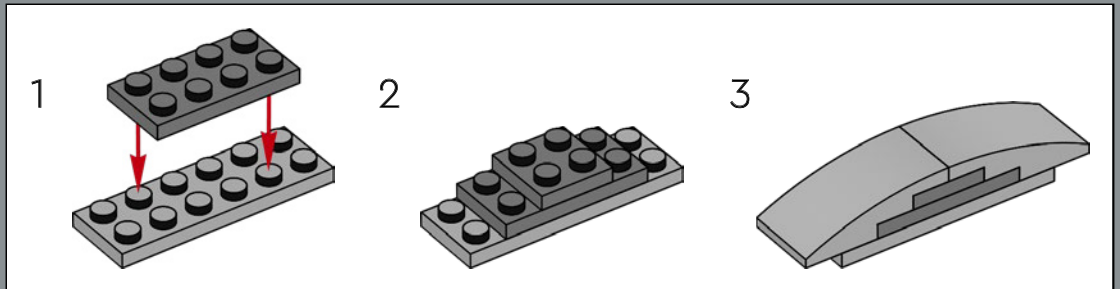
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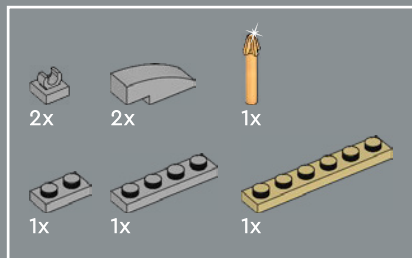
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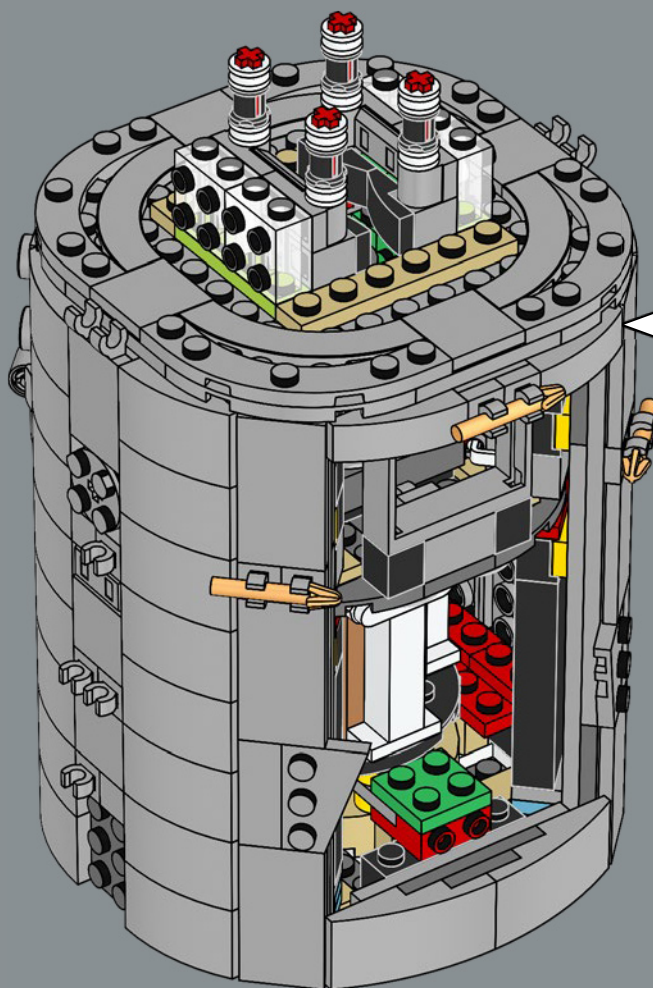
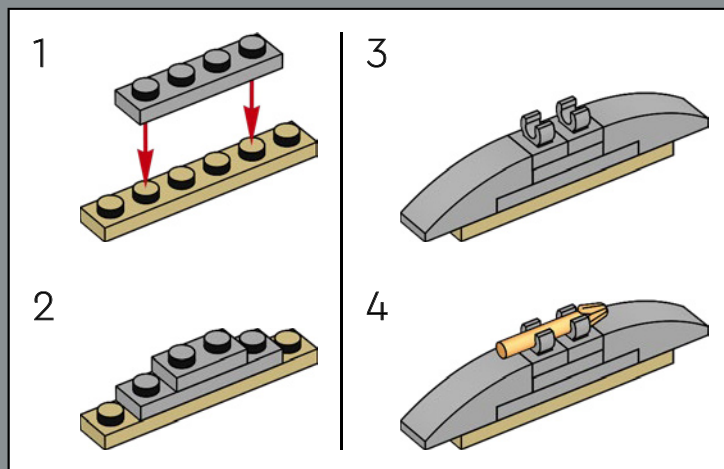


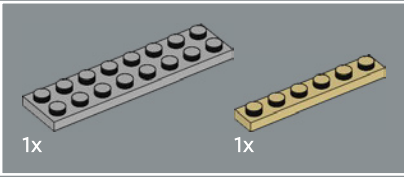
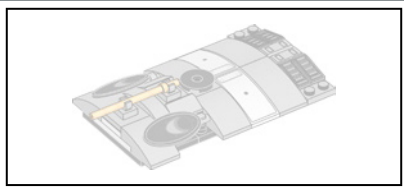
175



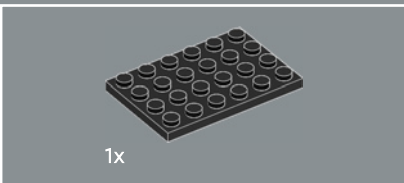
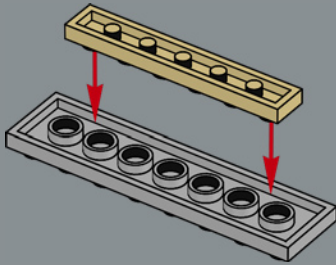


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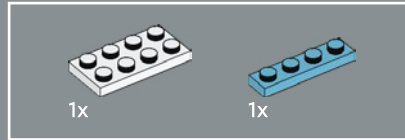
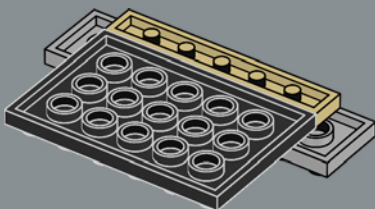




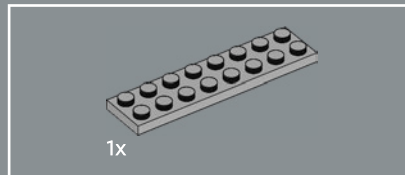
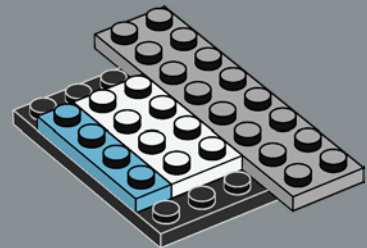
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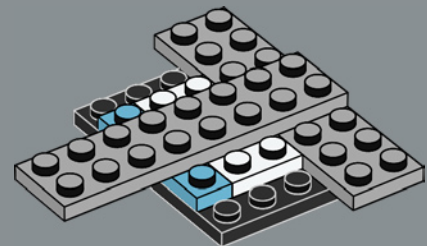
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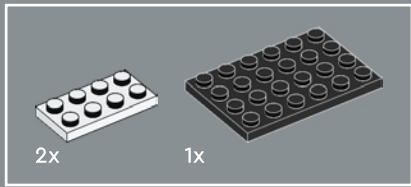


179

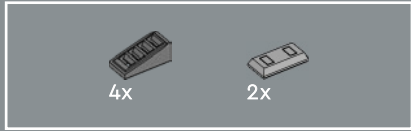
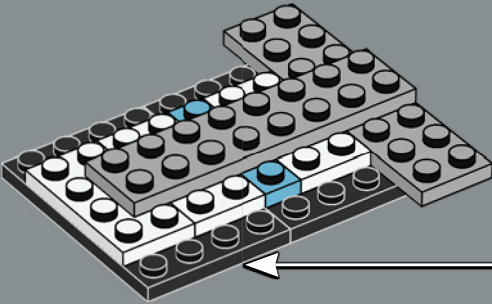
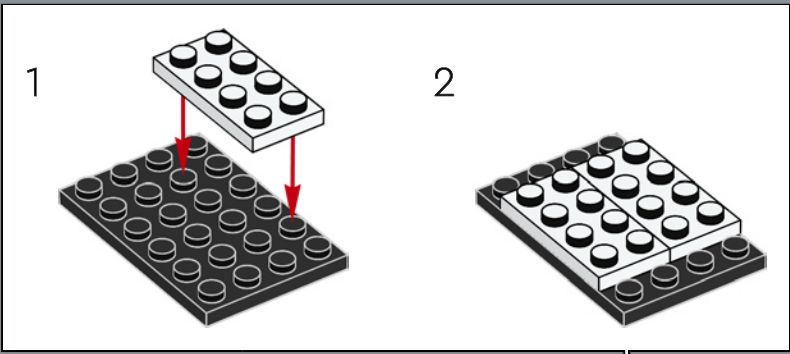


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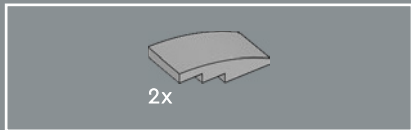
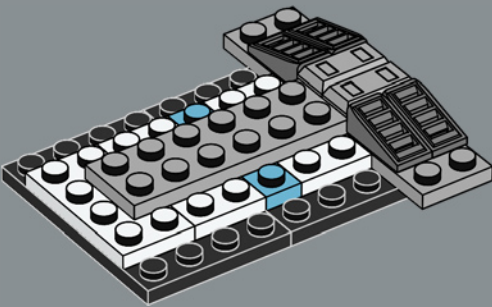




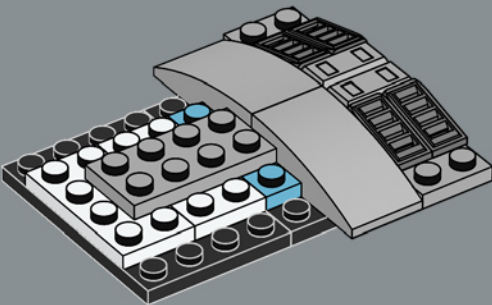
181



182

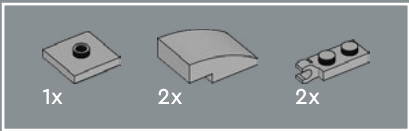
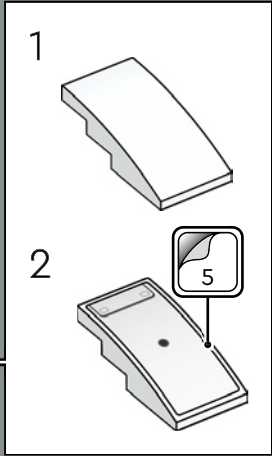
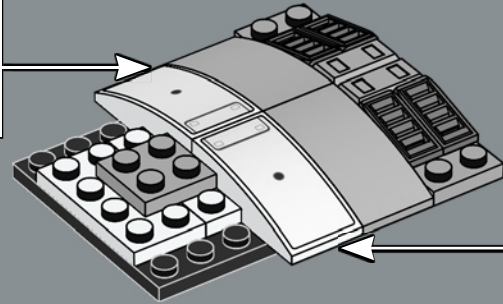
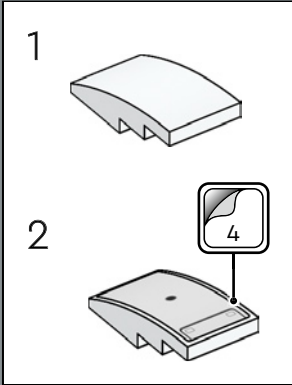


183

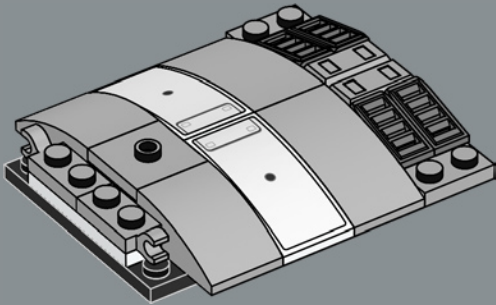


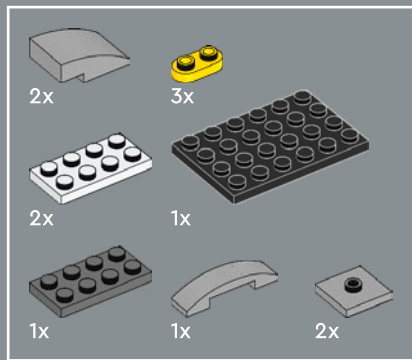


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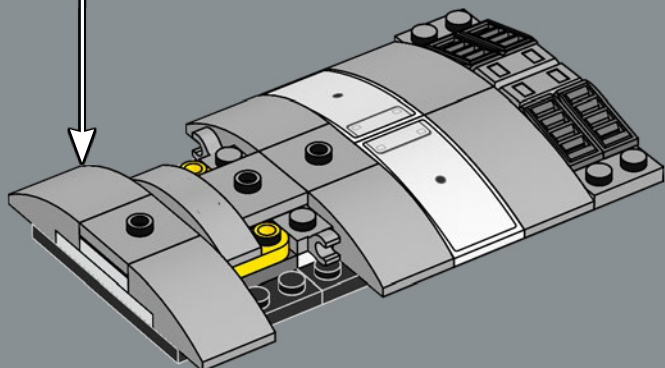
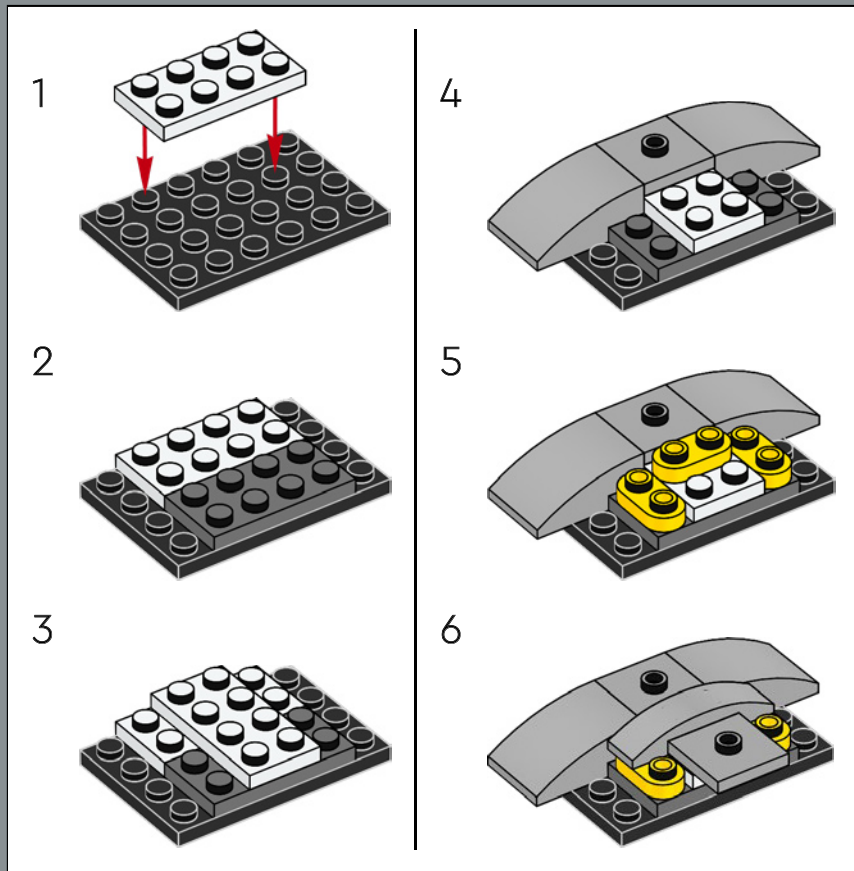


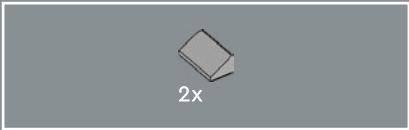
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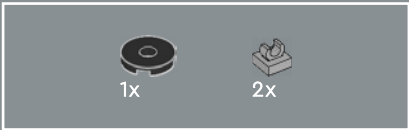
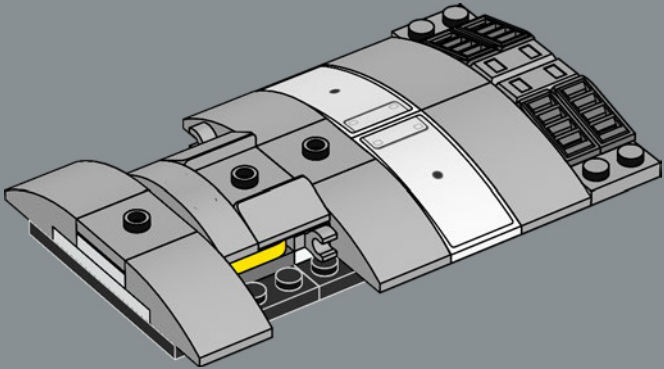


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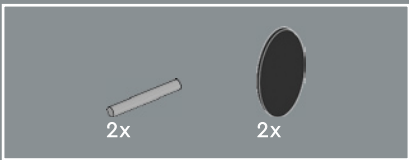
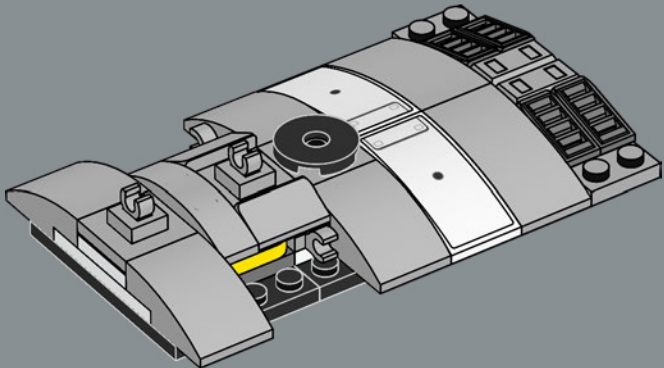




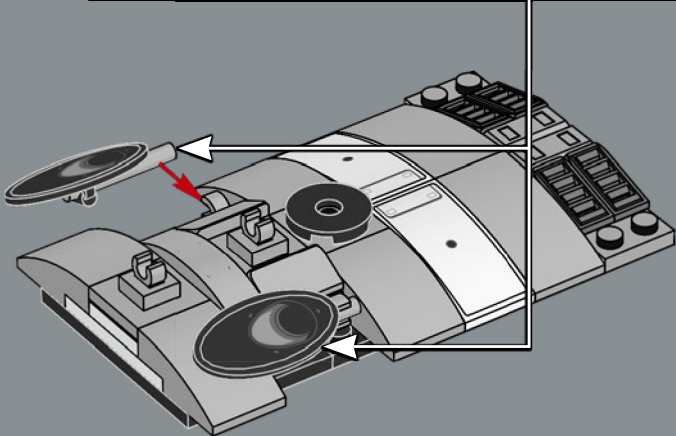
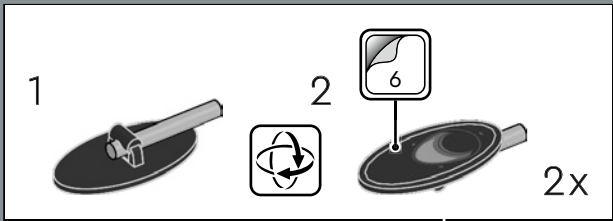
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188

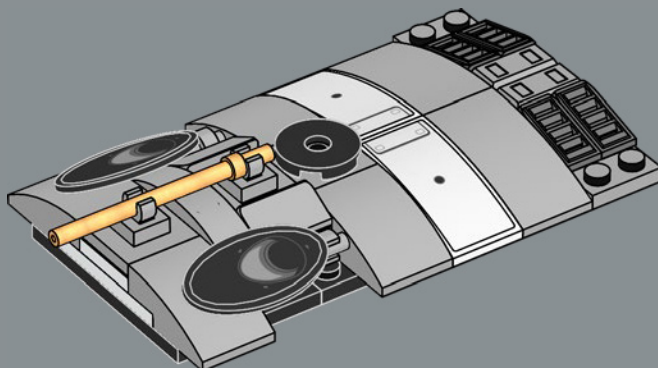


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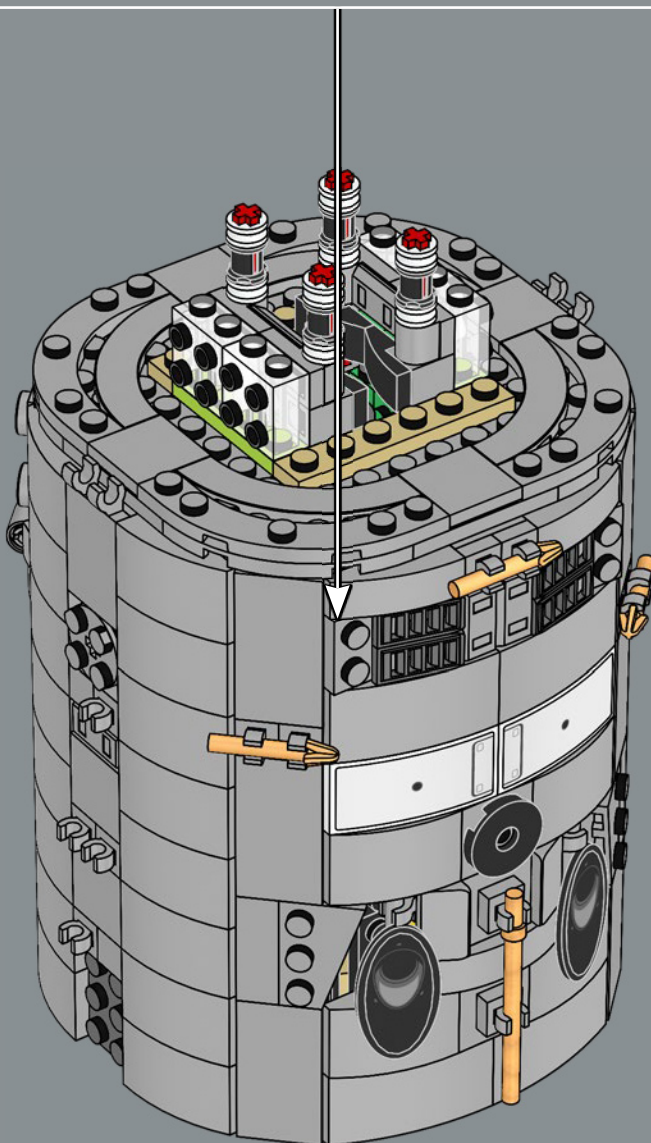


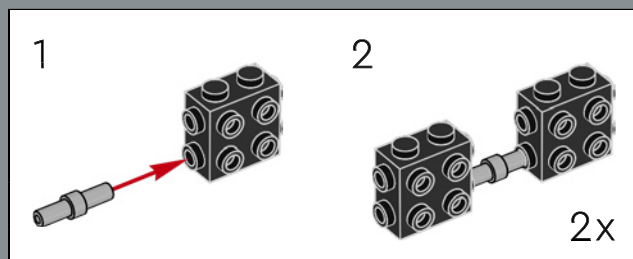
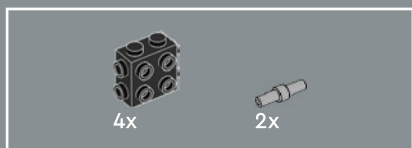


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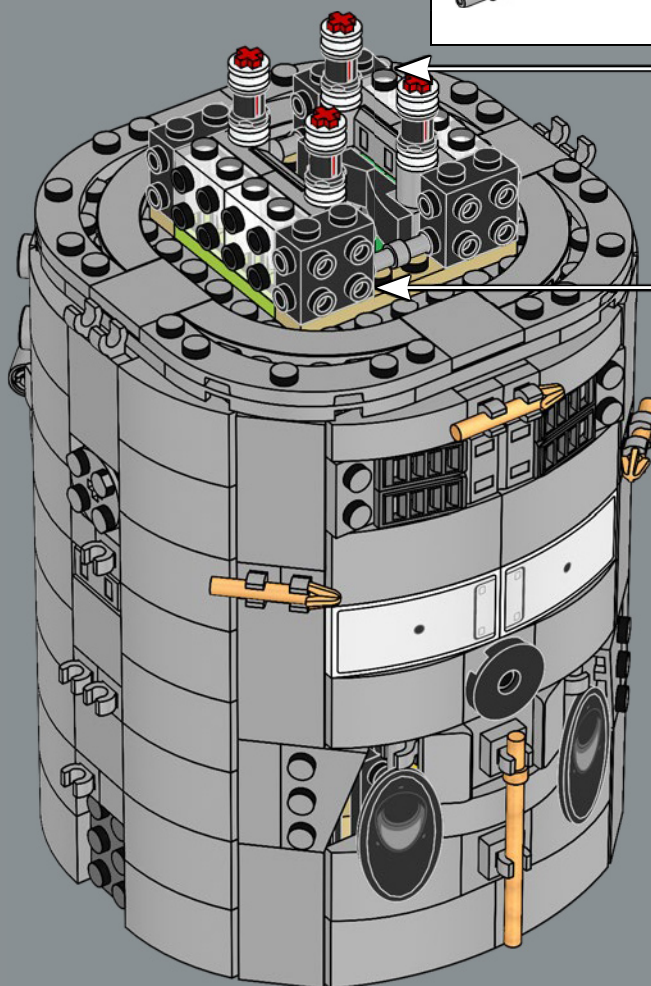


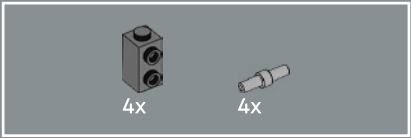
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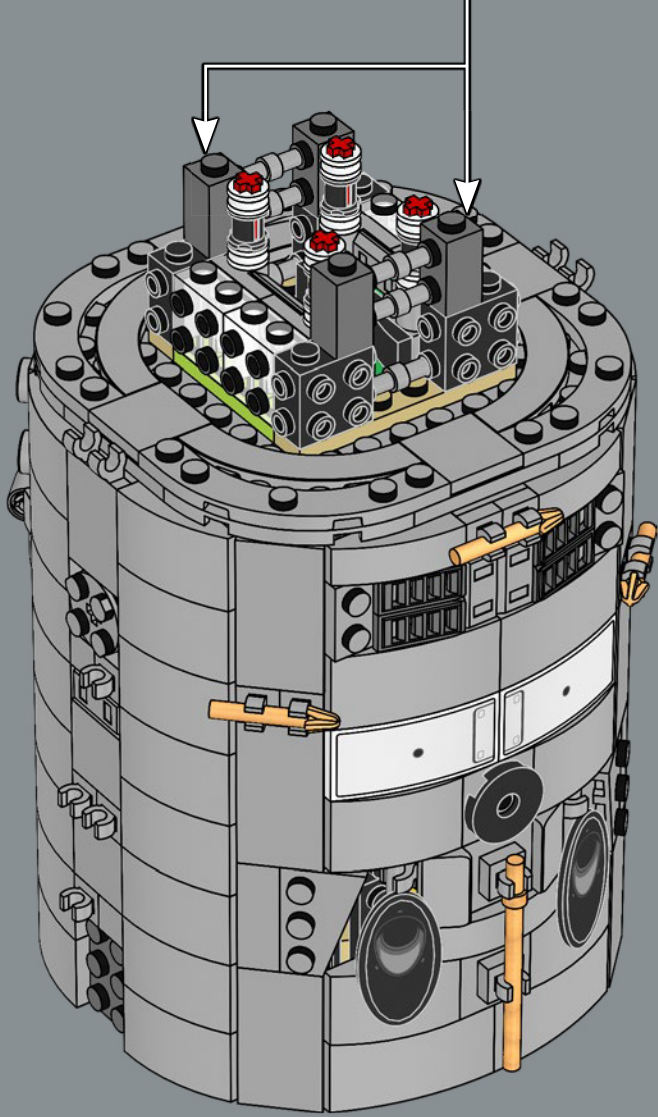
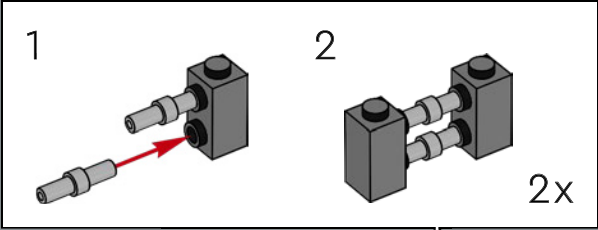


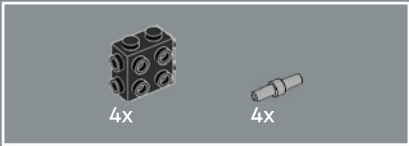
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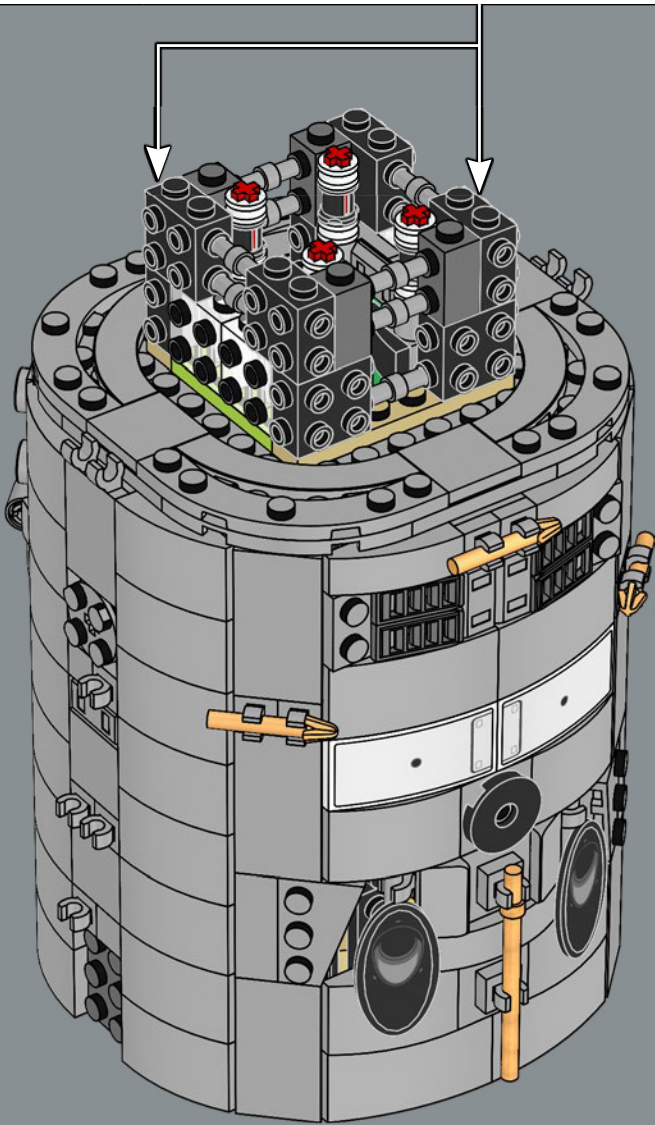
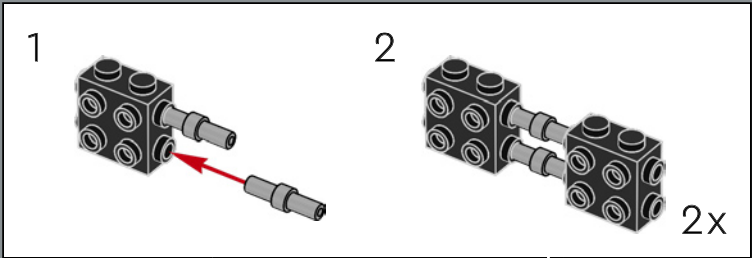


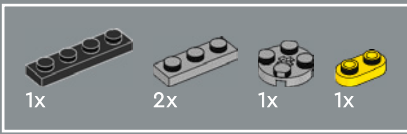
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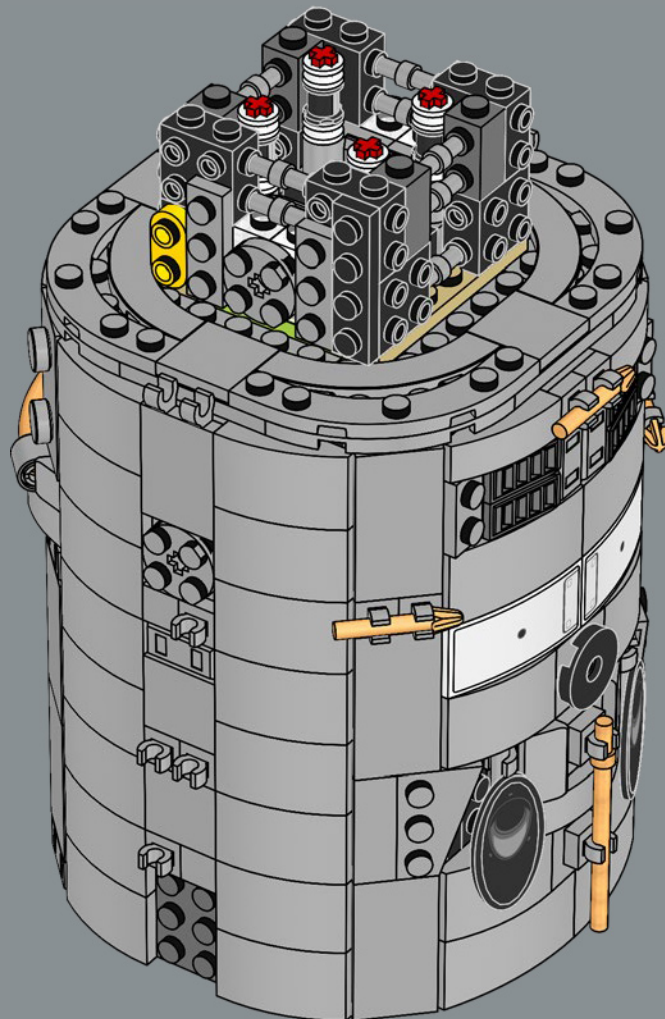


194





195



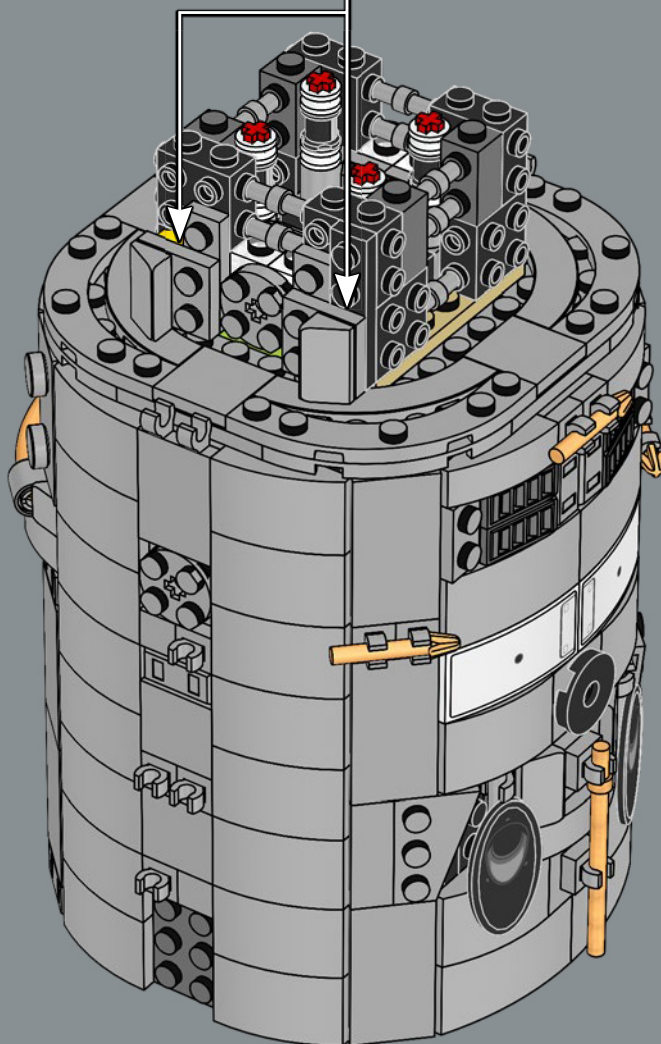
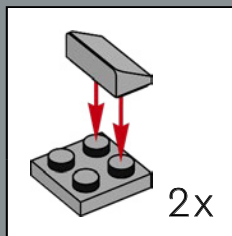


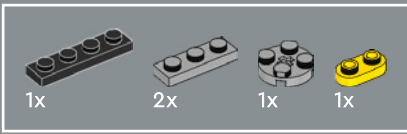
2x



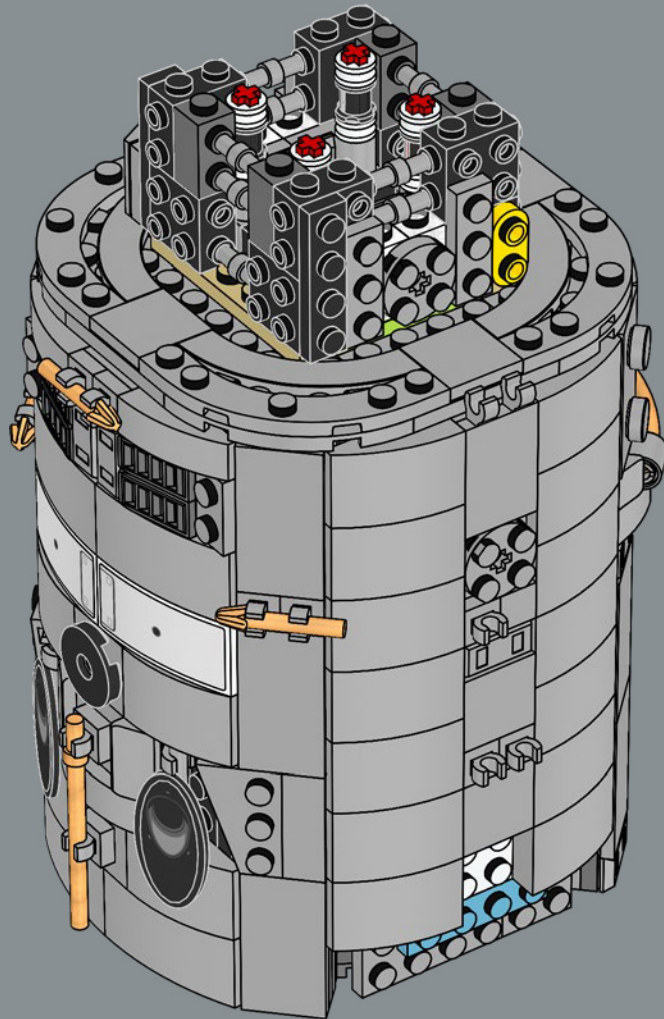
2x

196





197



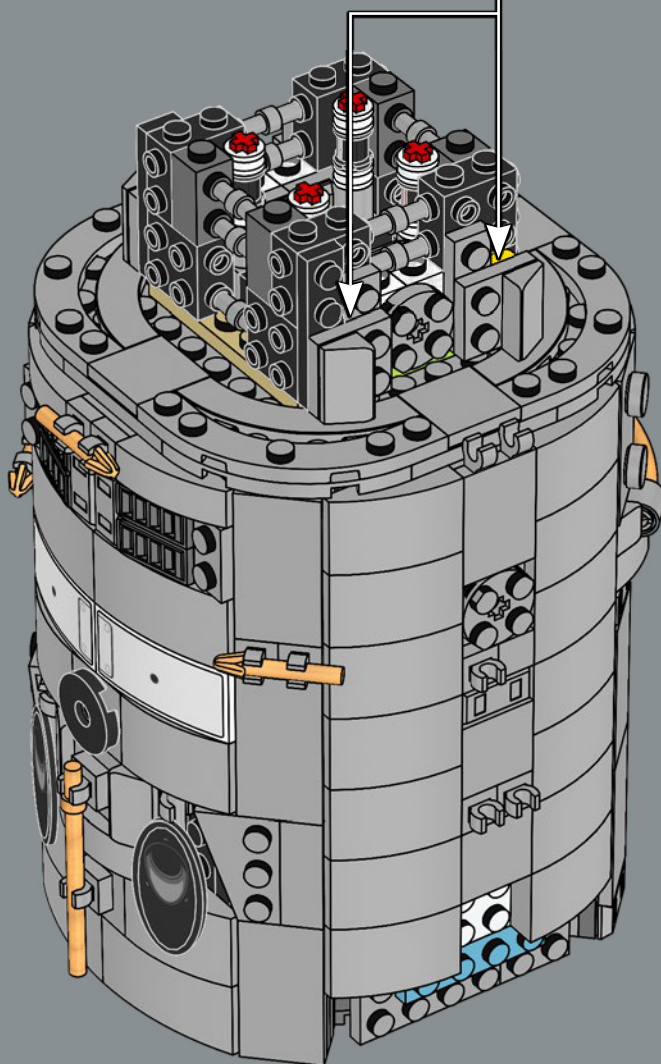
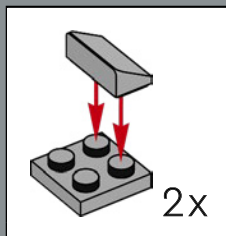


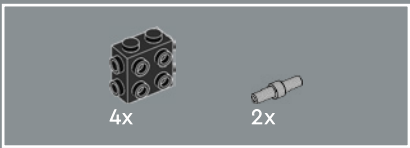
2x



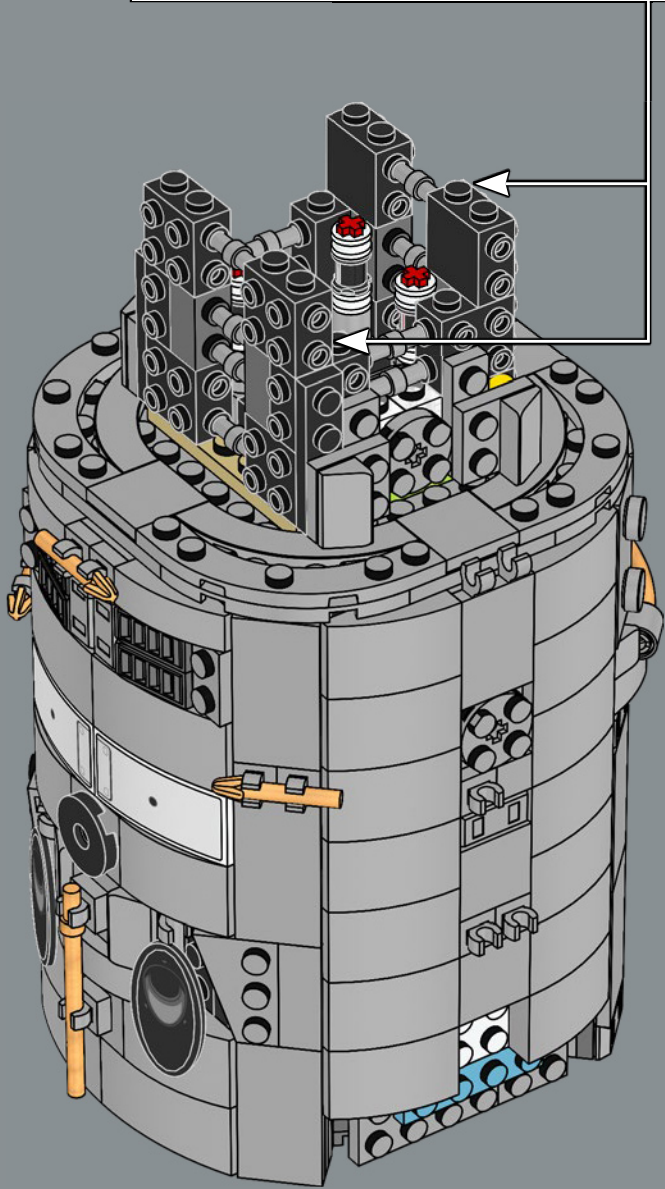
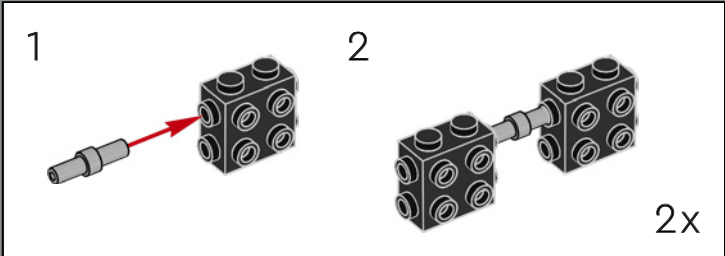
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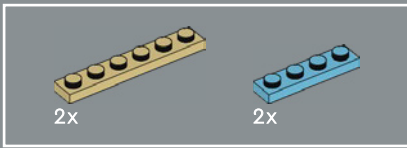
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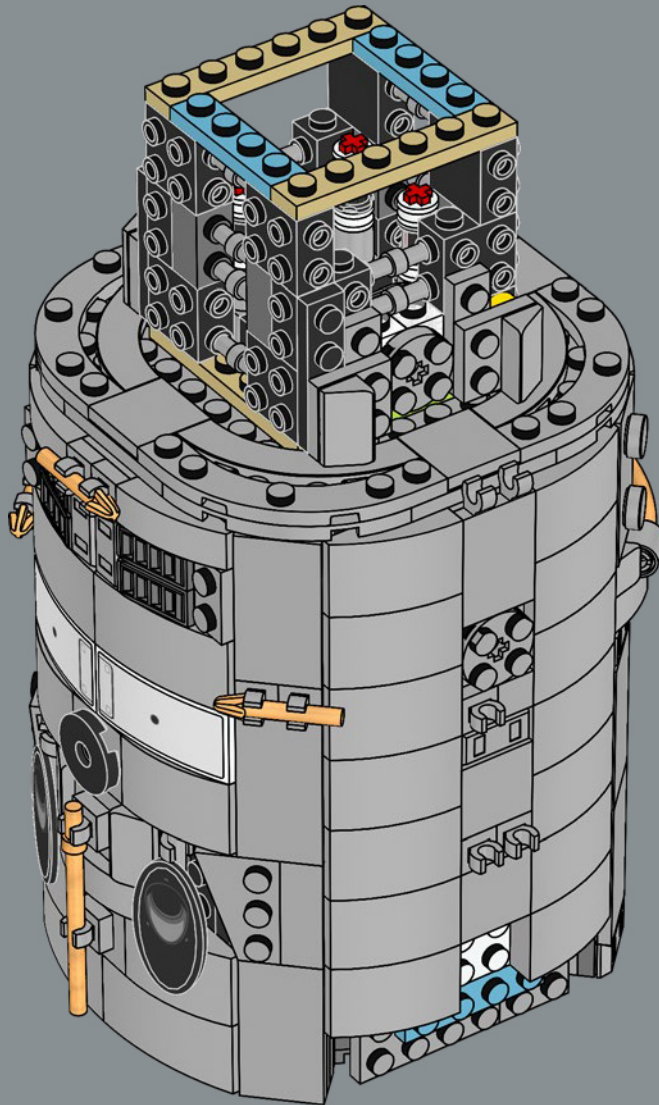


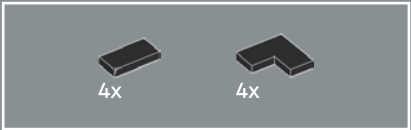
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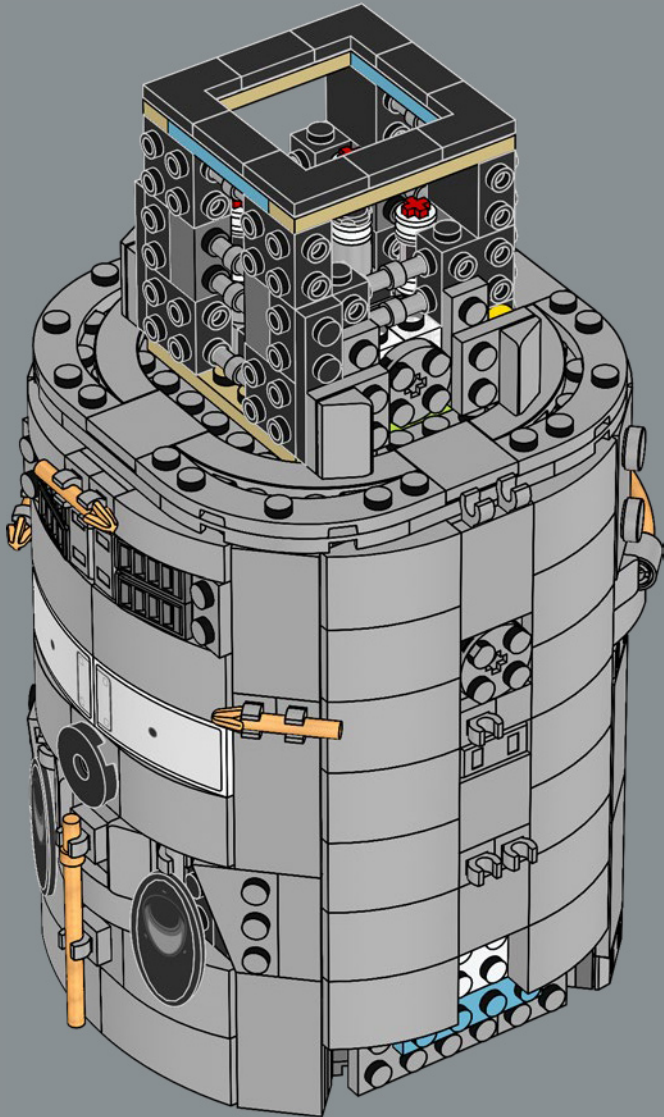


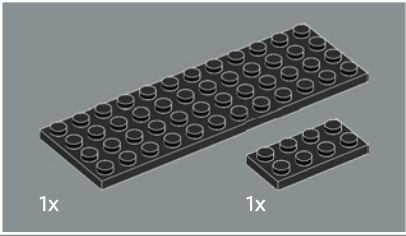
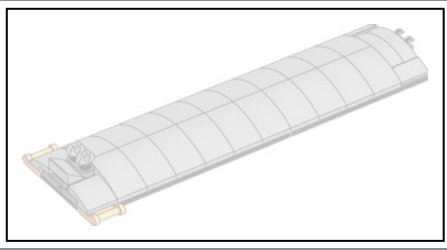
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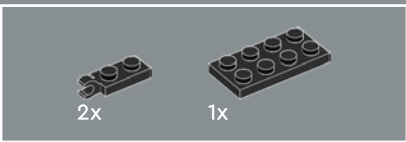
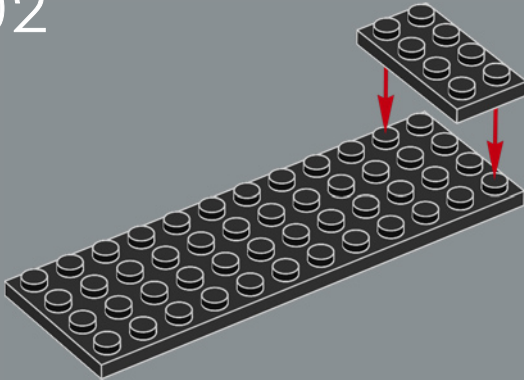


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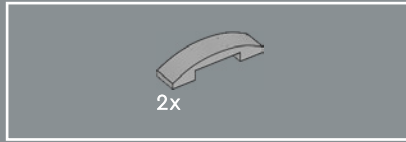
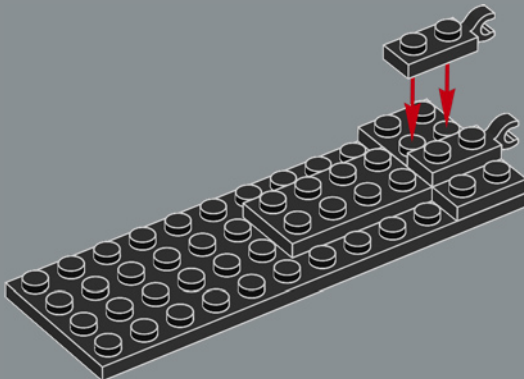




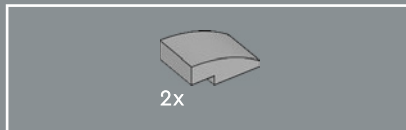
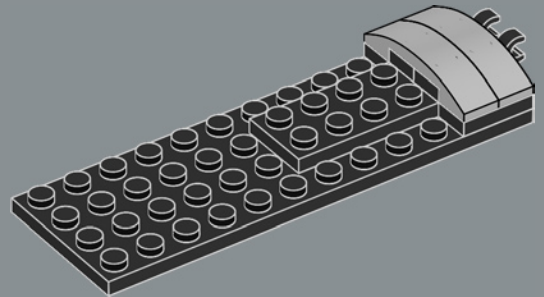
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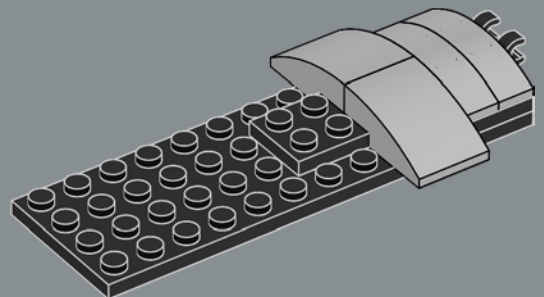
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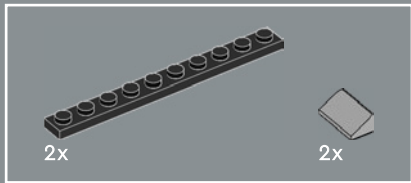


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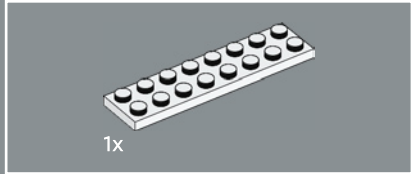
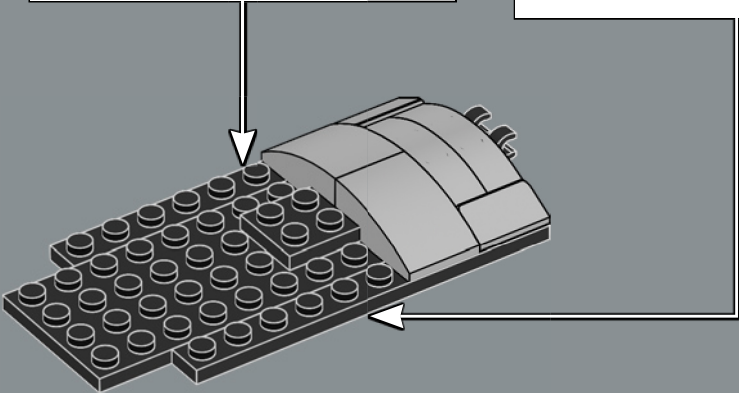
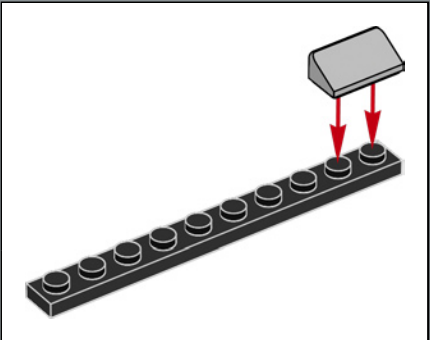
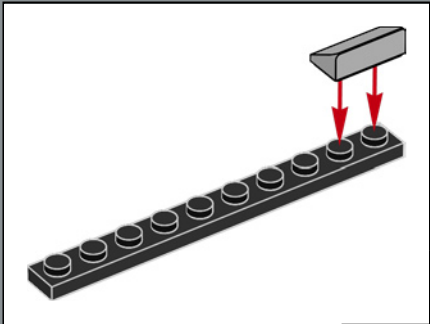


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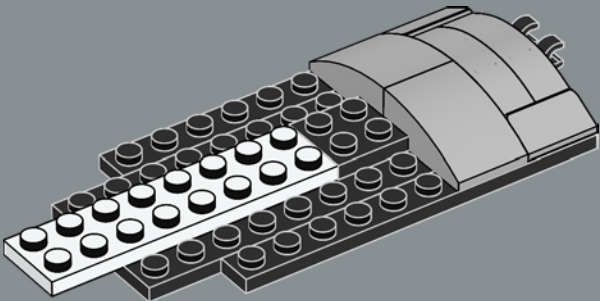


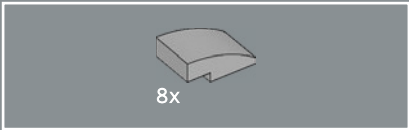


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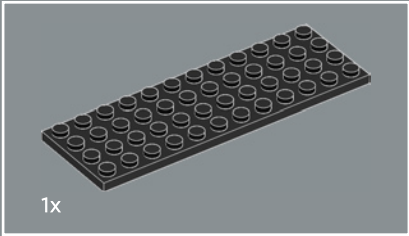
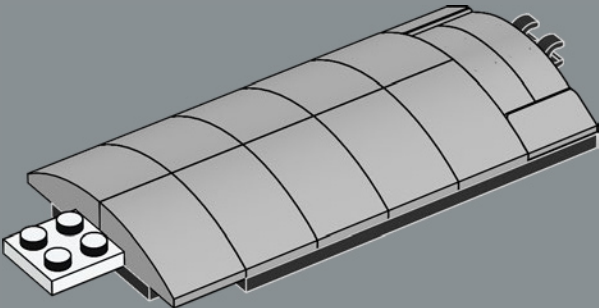


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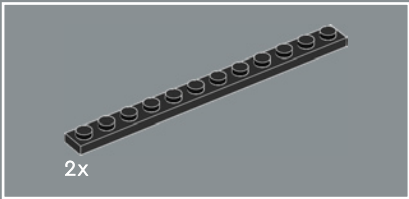
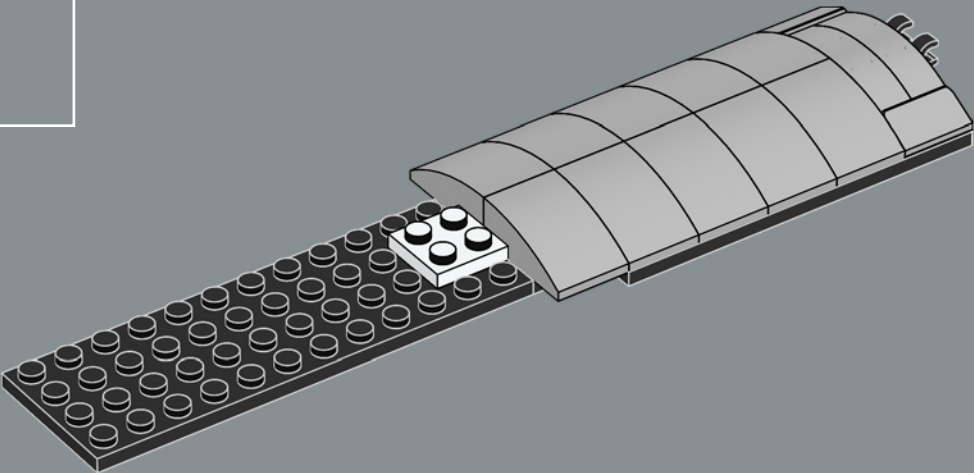




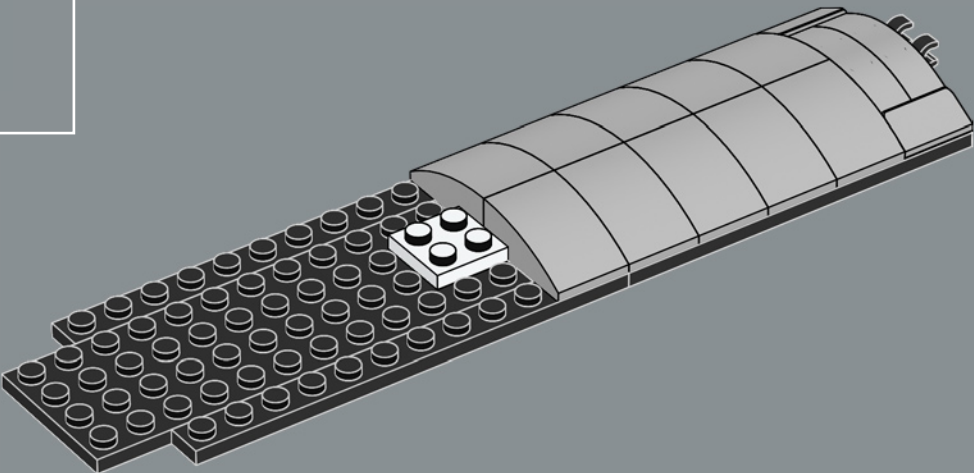
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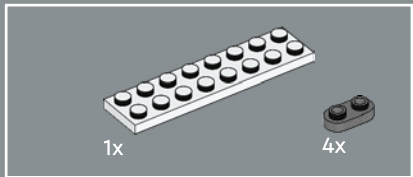


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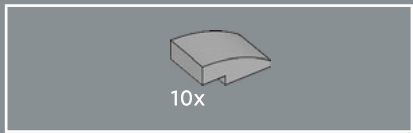
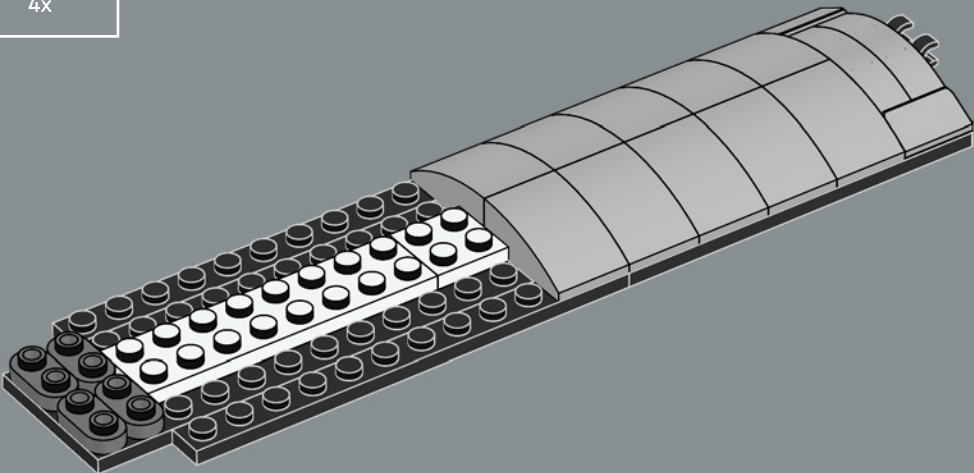


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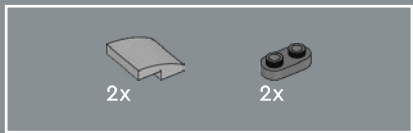
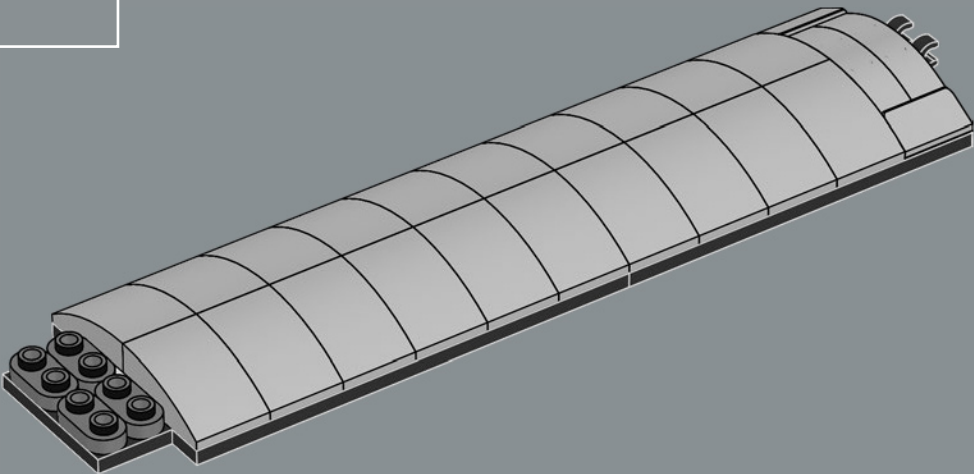




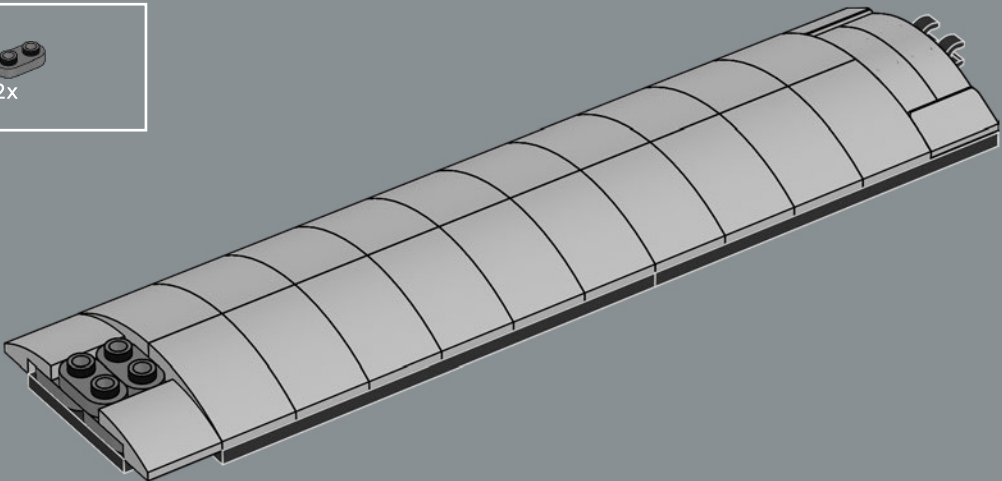
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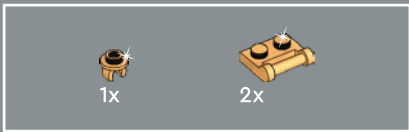


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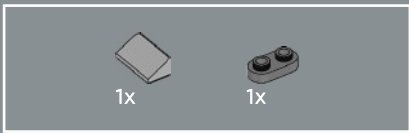
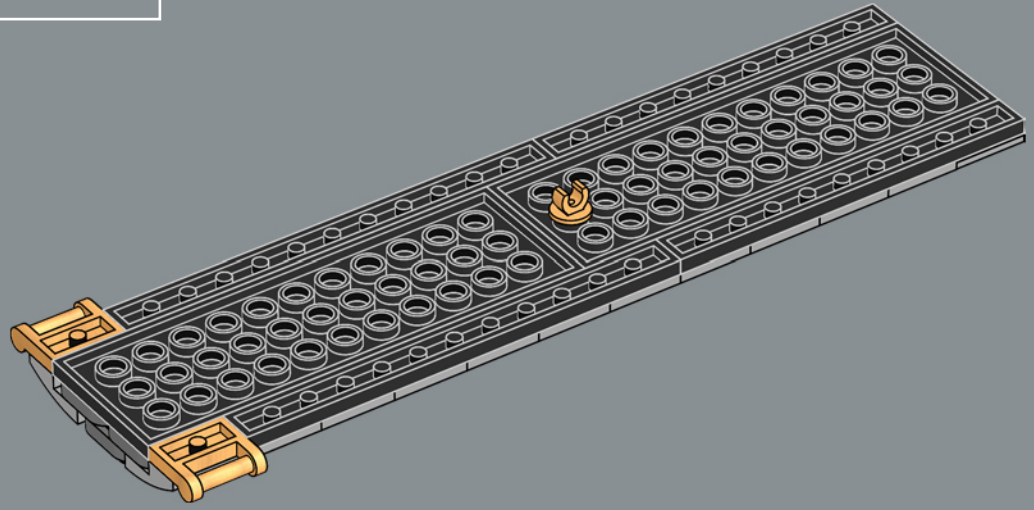


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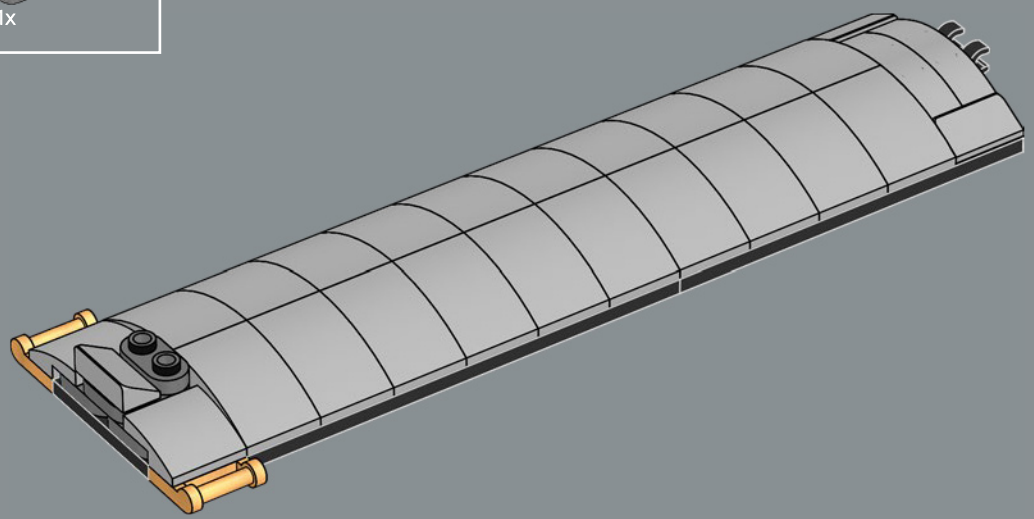




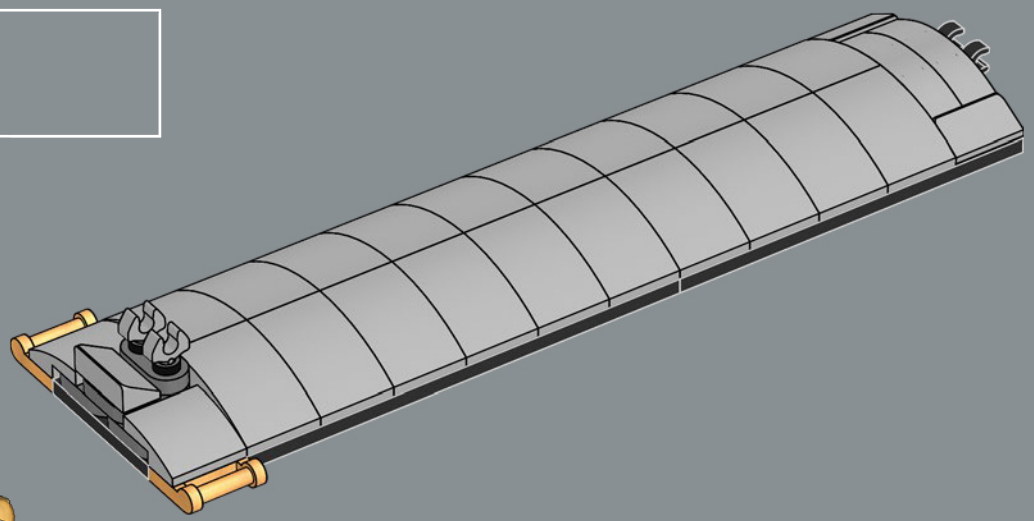
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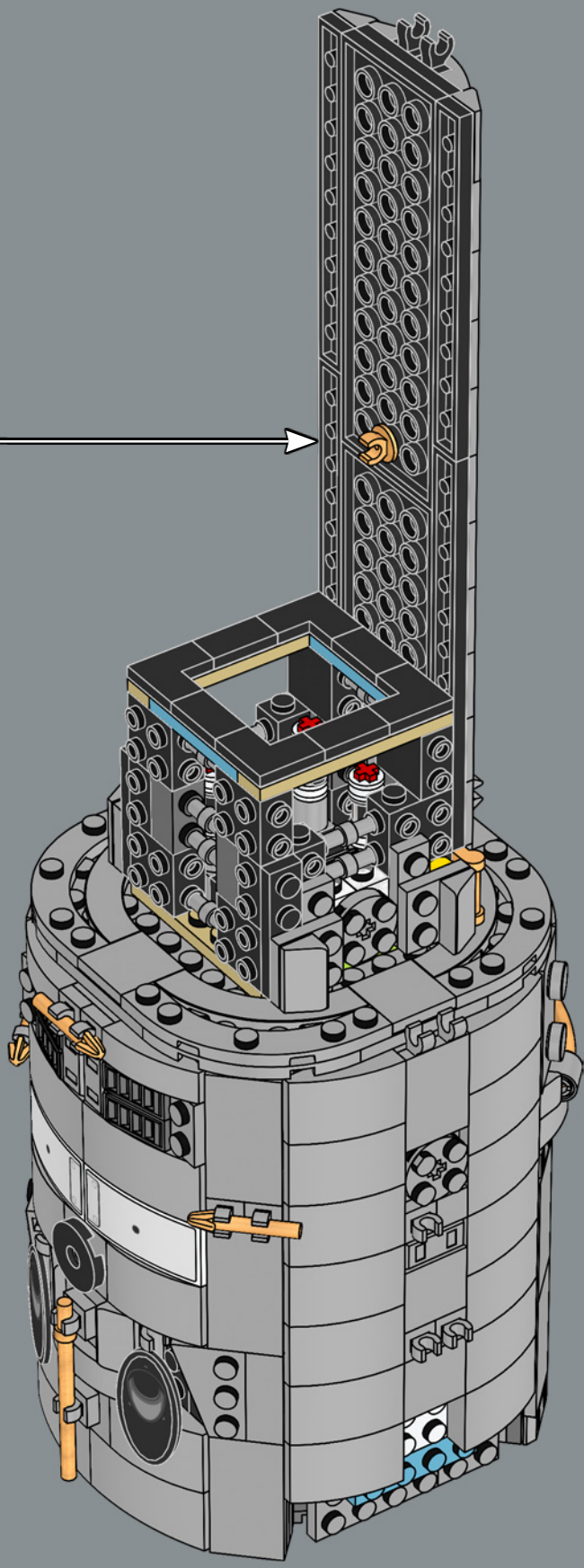


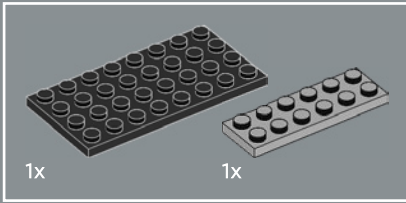
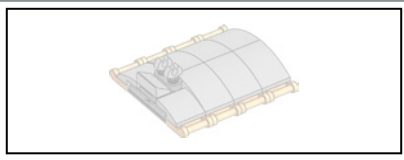
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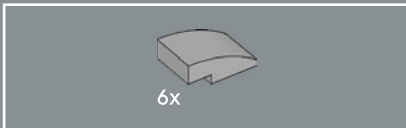
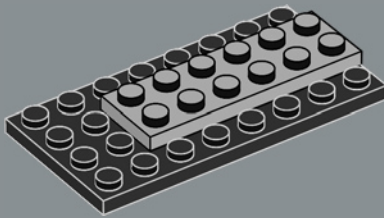
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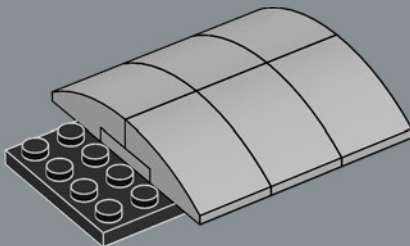




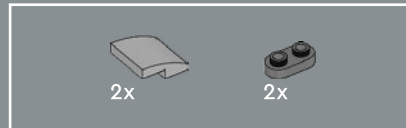
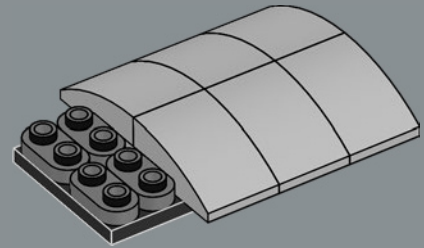
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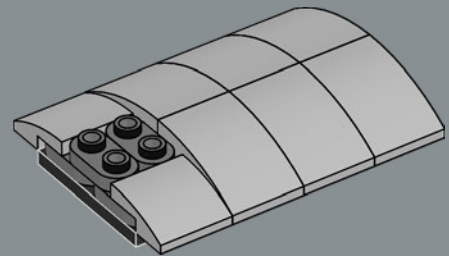
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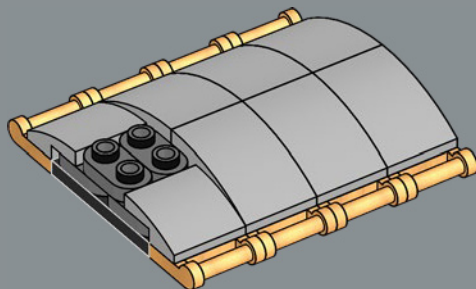
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8x

222

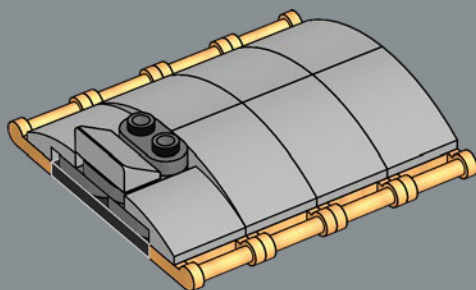


1x



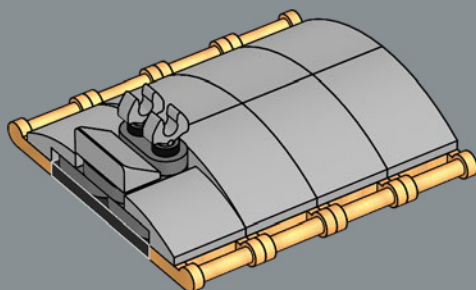
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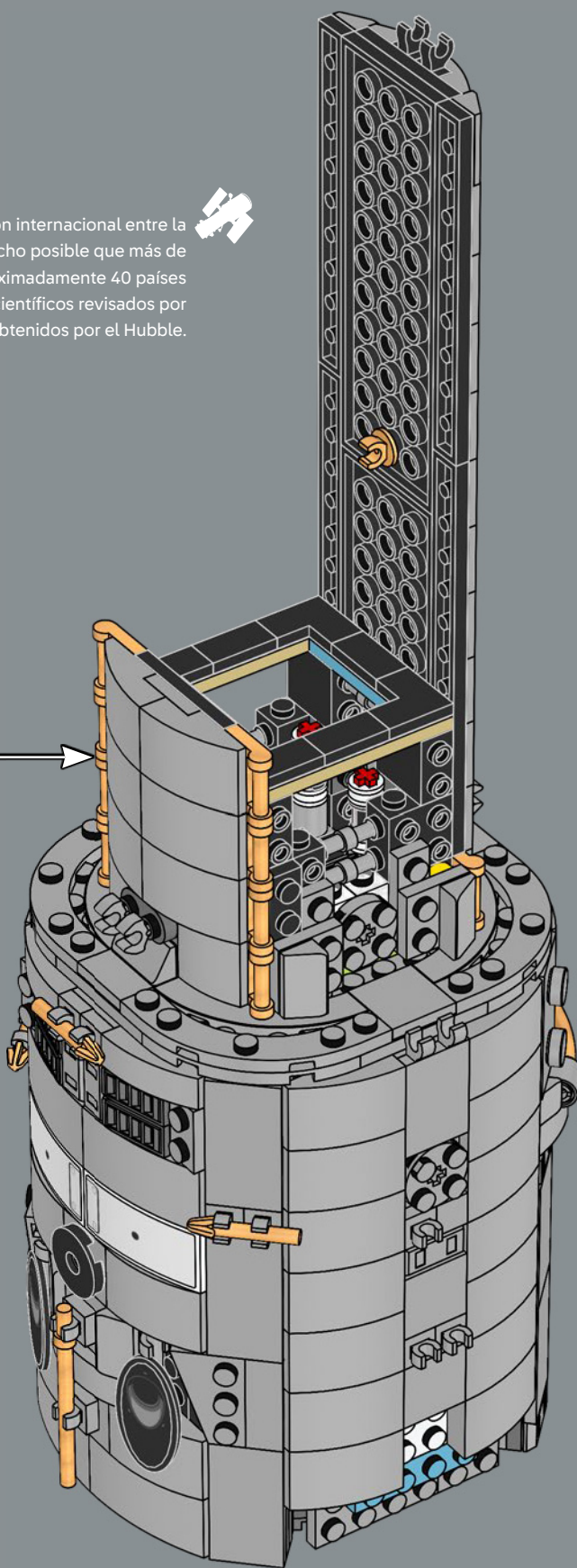
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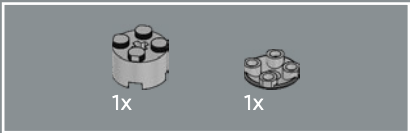
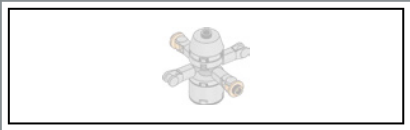
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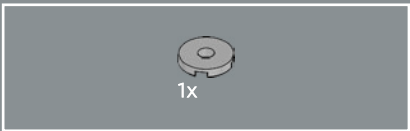
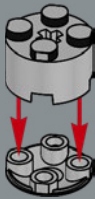
225

La sólida colaboración internacional entre la NASA y la ESA ha hecho posible que más de 25.000 astrónomos de aproximadamente 40 países publiquen 22.000 artículos científicos revisados por pares basándose en datos obtenidos por el Hubble.

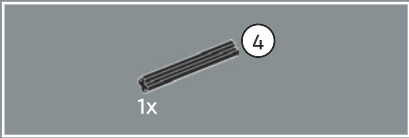




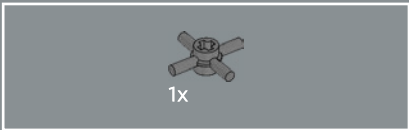
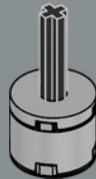
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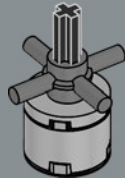
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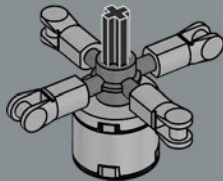
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229



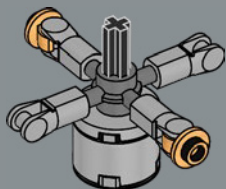
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2x

231

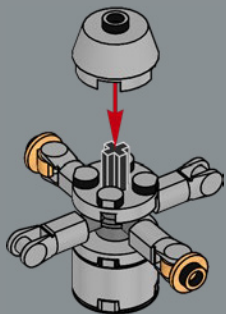


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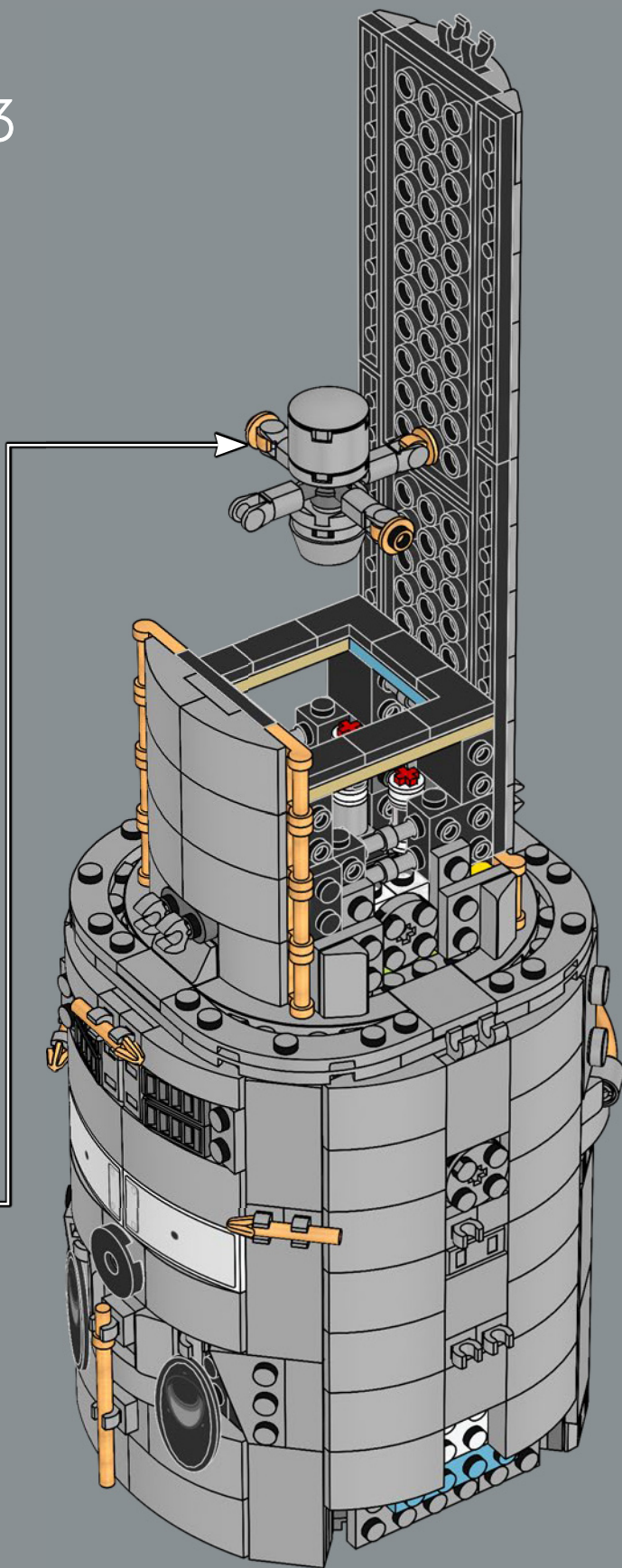


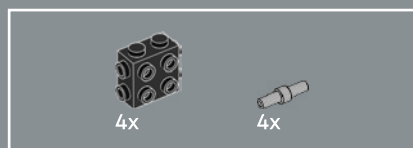
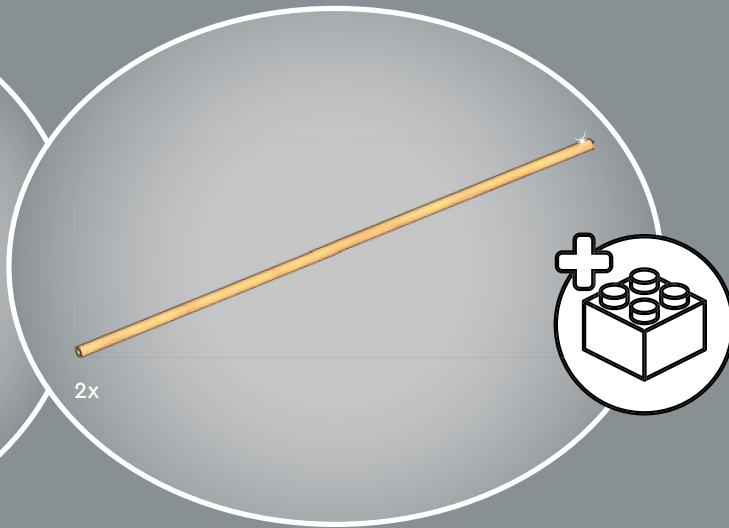
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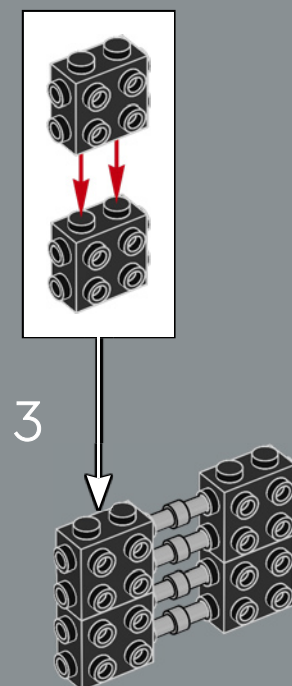
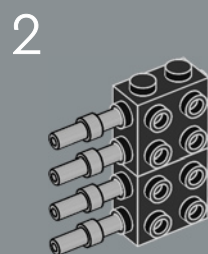
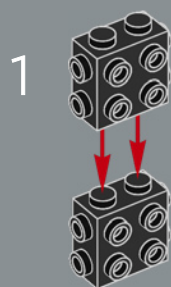


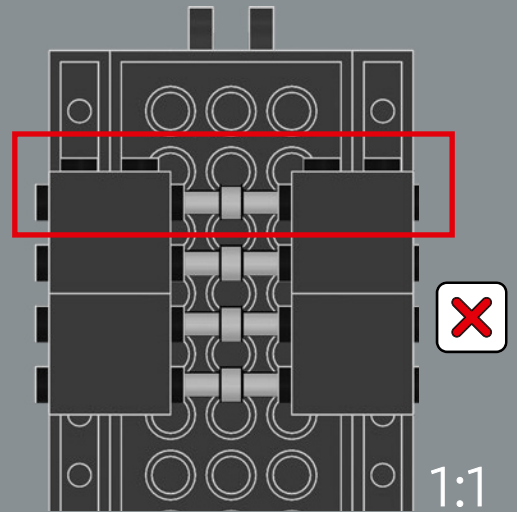
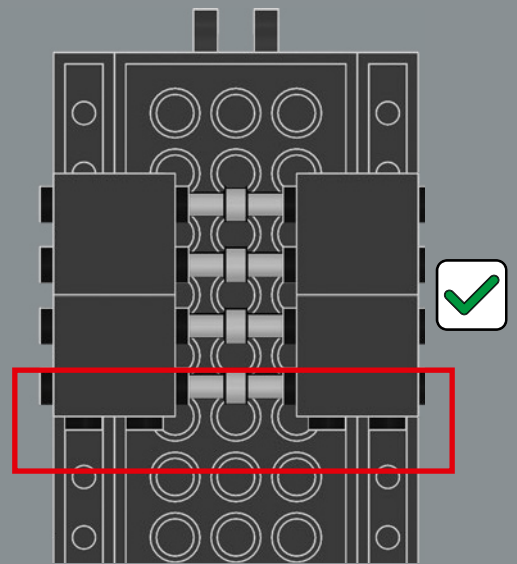
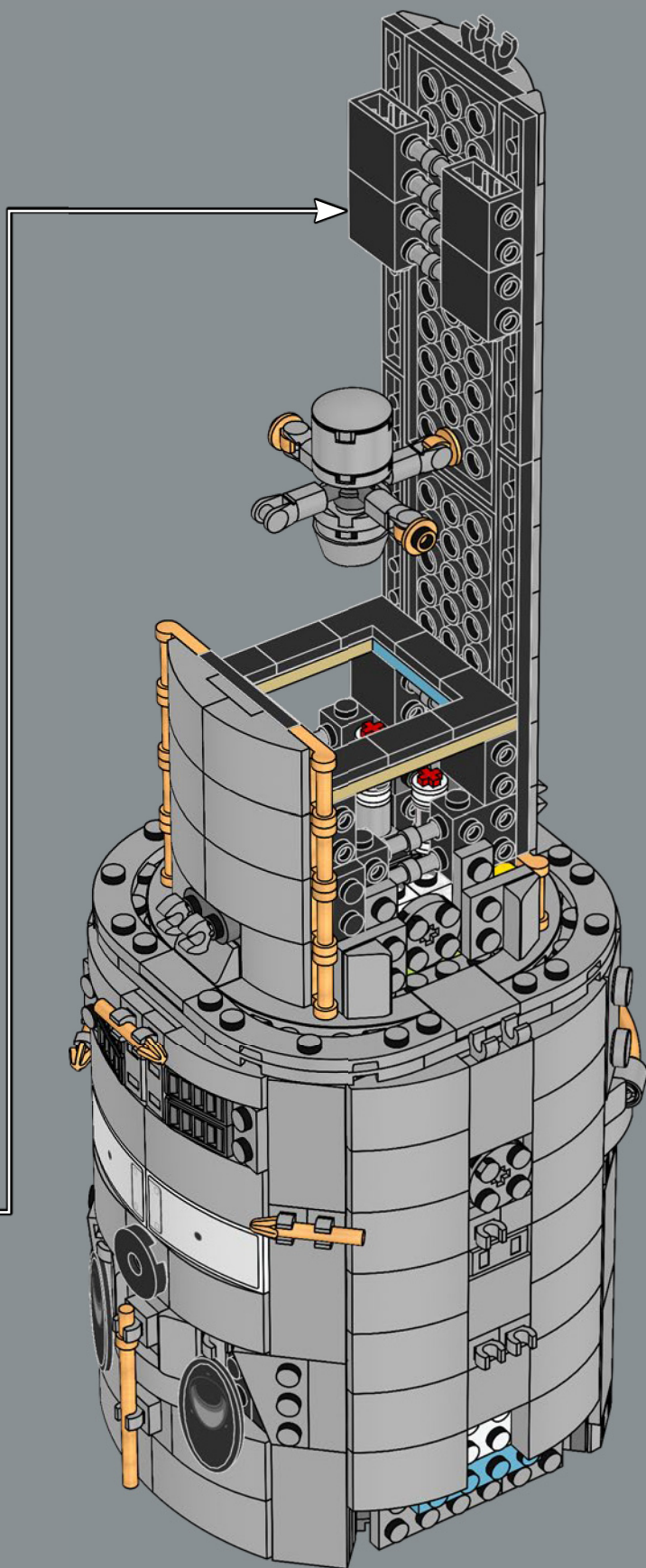
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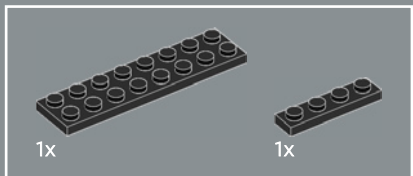
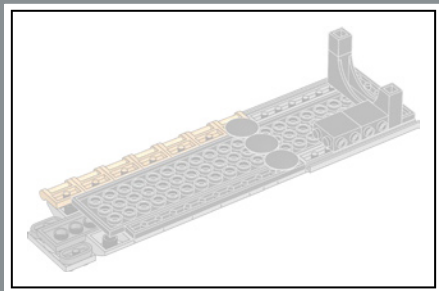




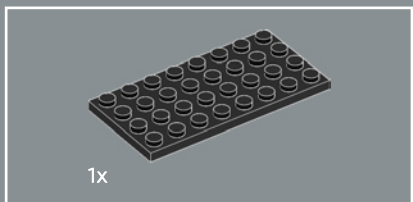
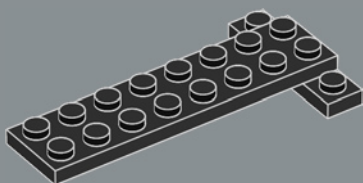
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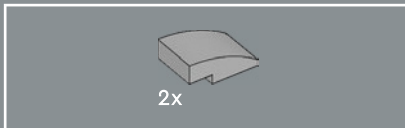
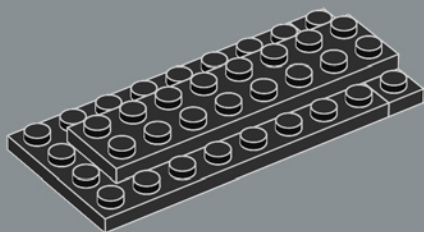




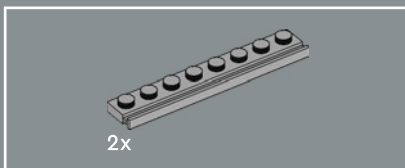
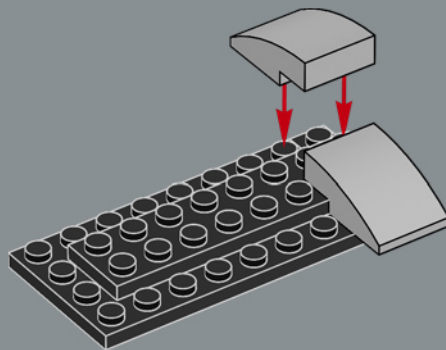
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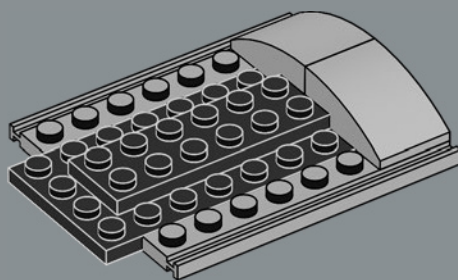
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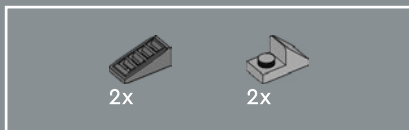


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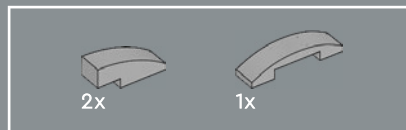
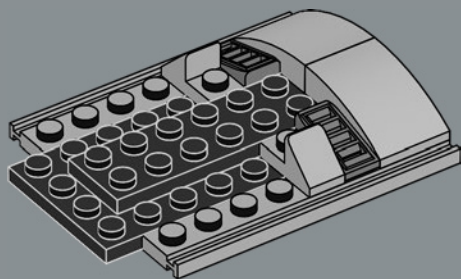


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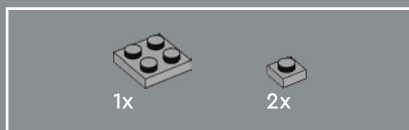
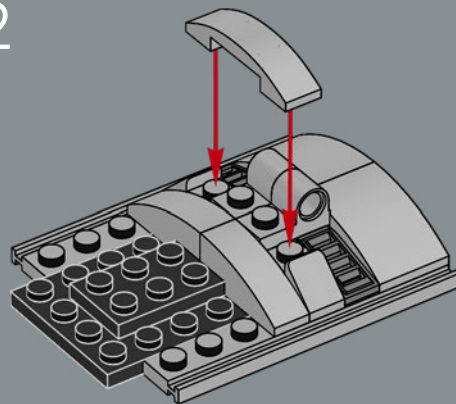




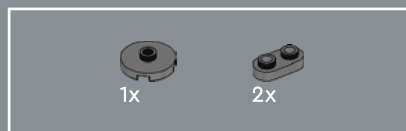
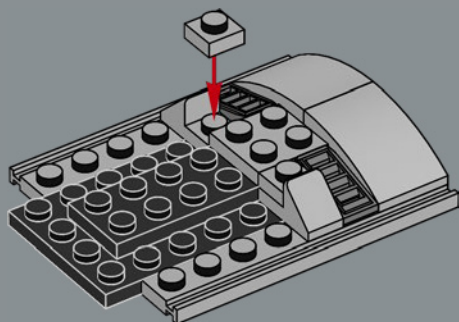
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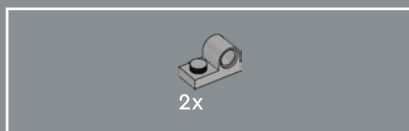
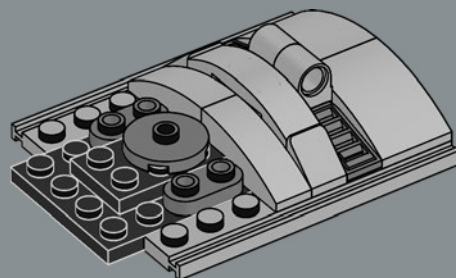
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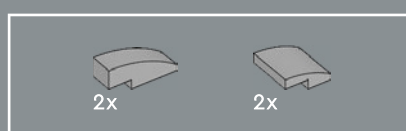
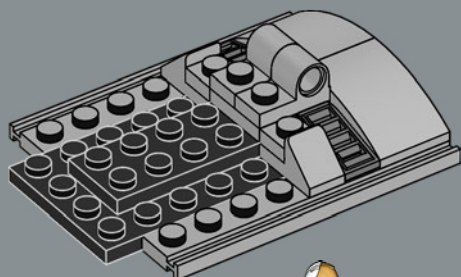
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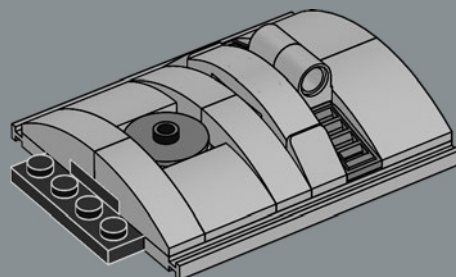
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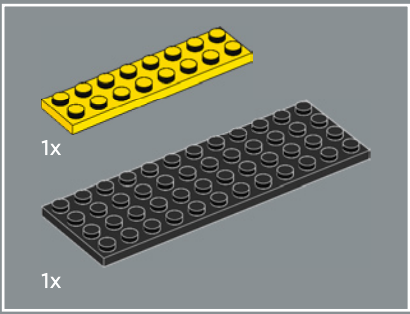


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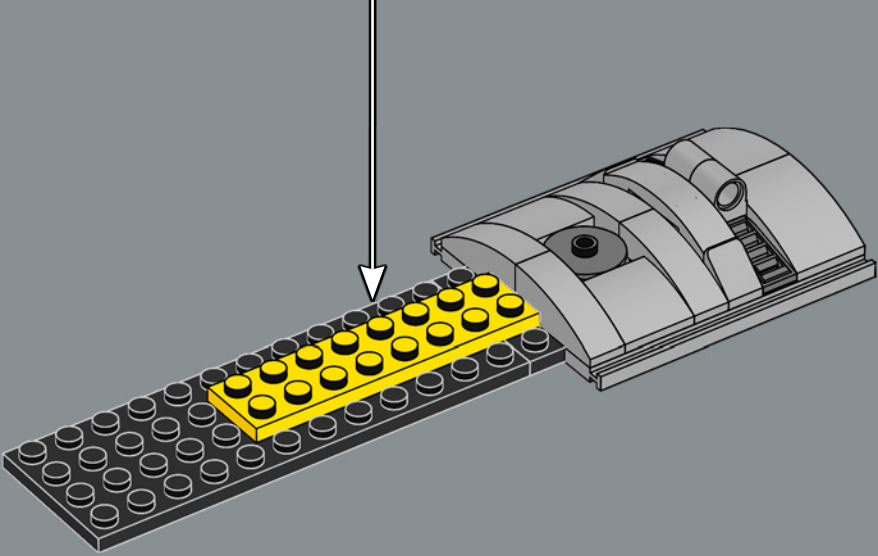
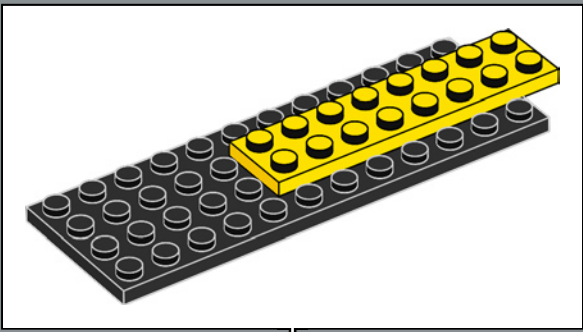


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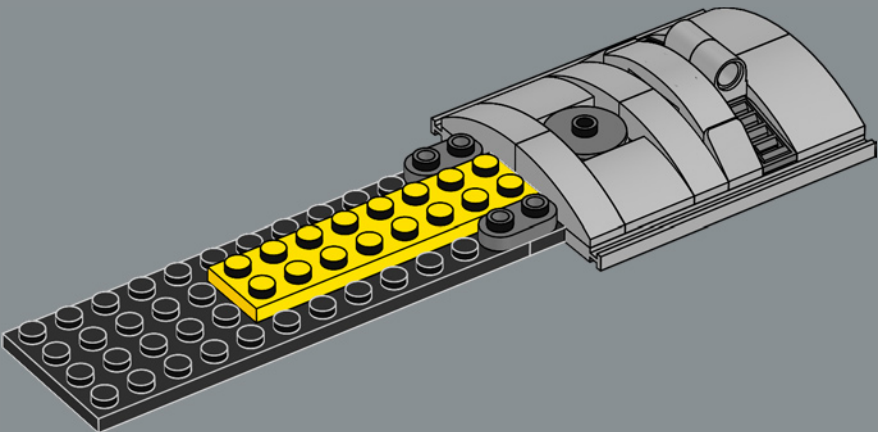


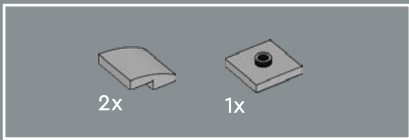


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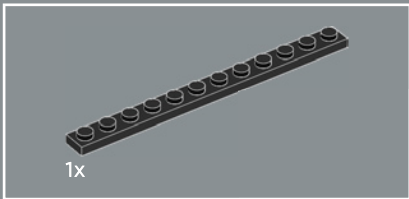
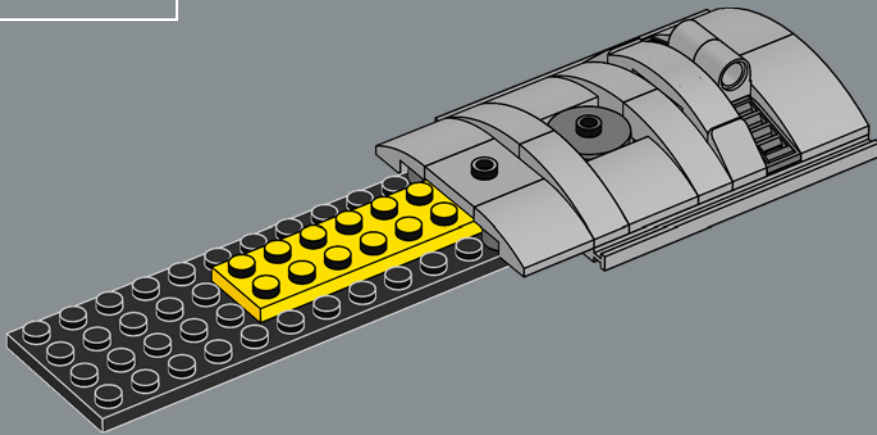


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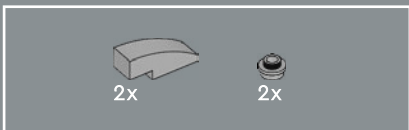
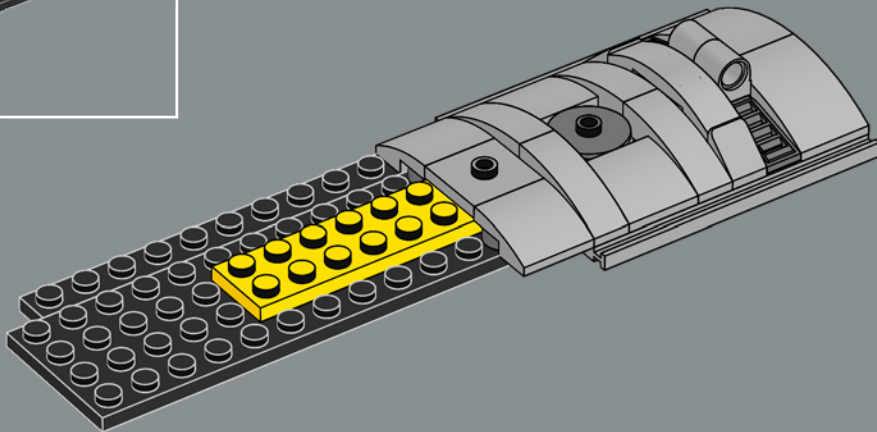




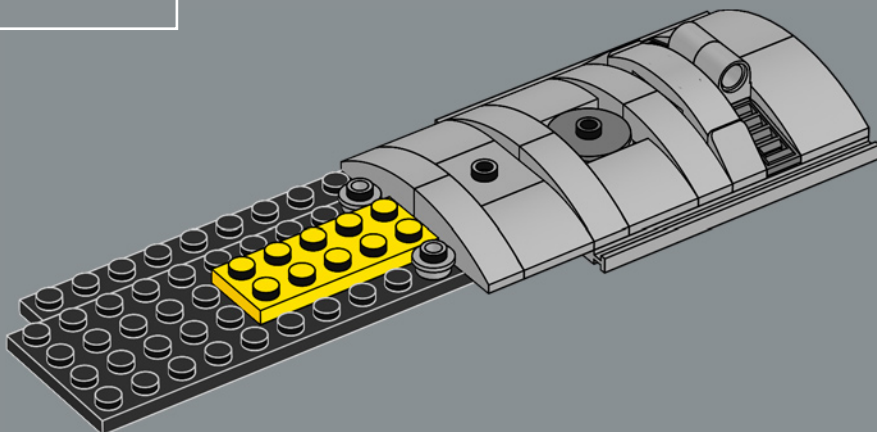
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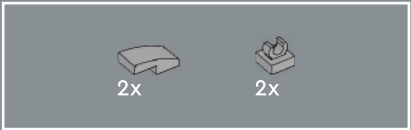


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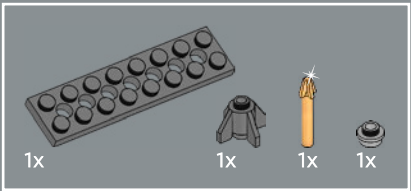
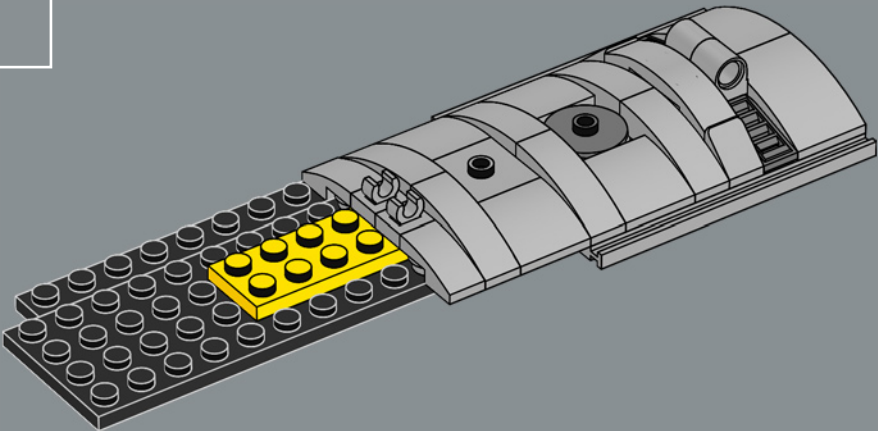


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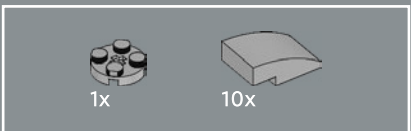
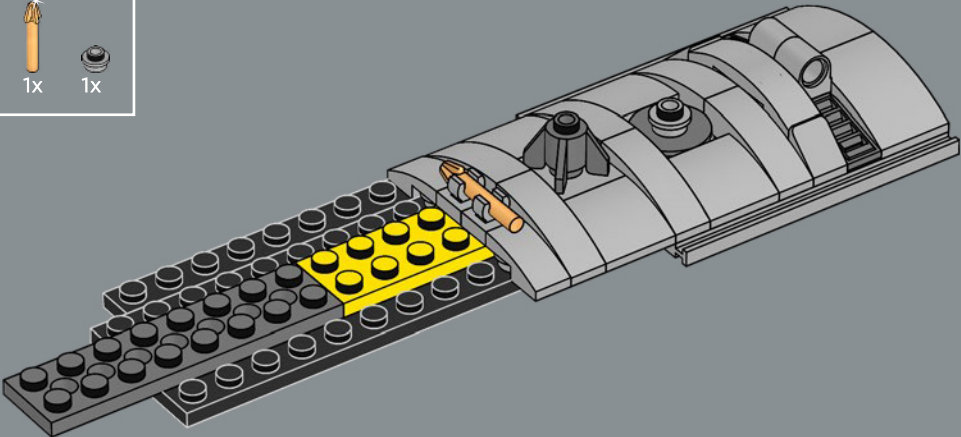




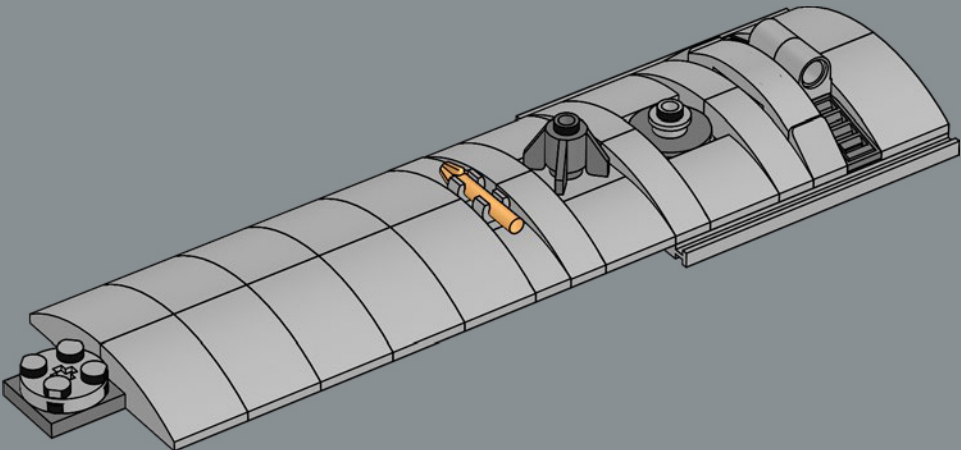
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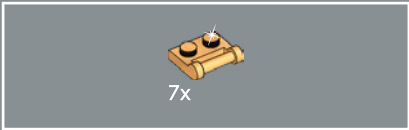


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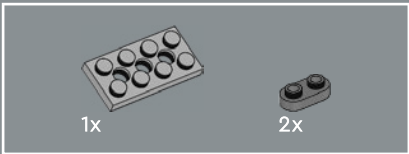
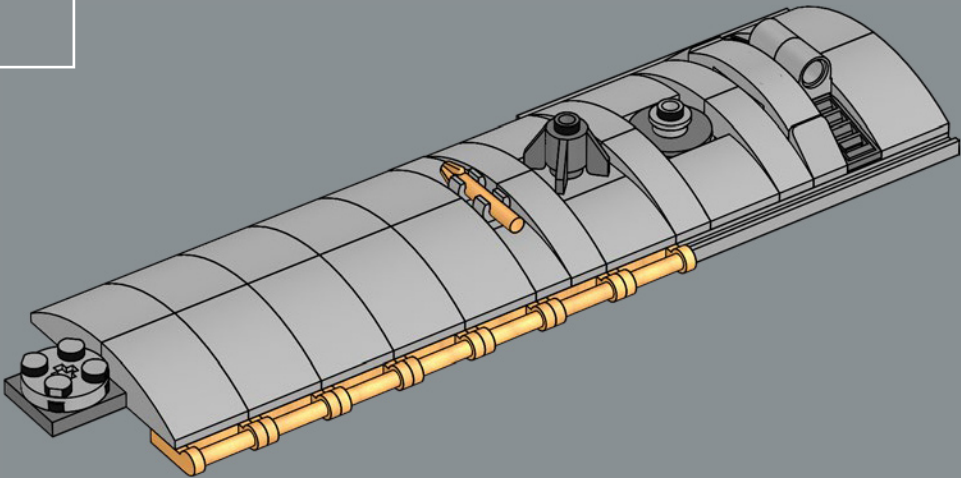


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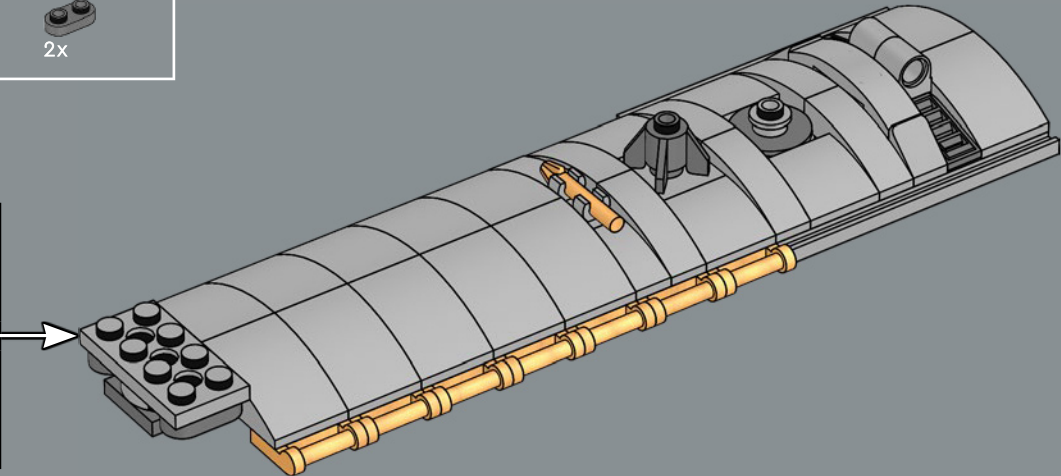
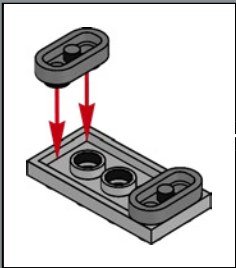




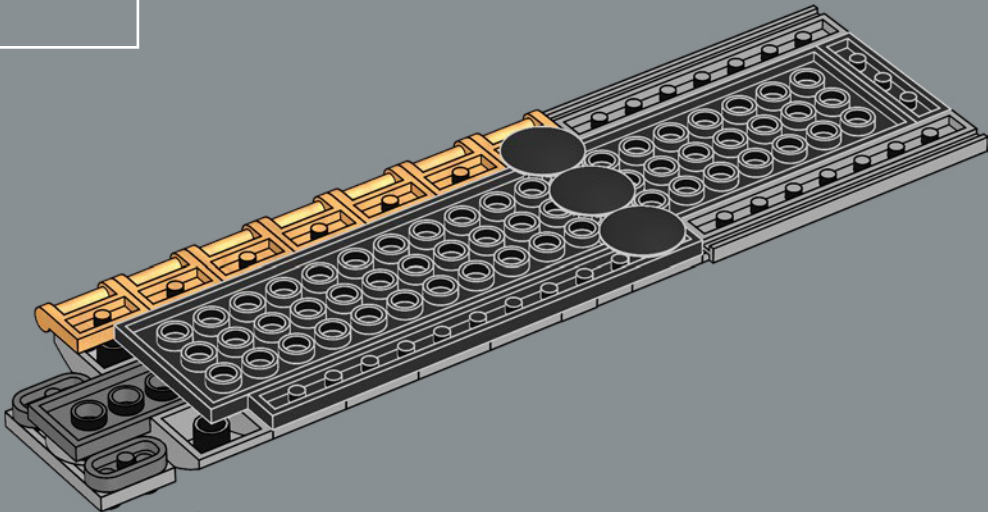
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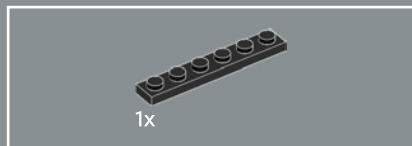


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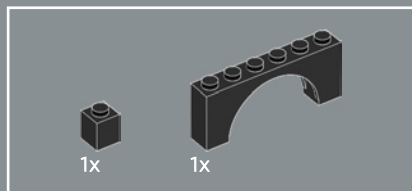
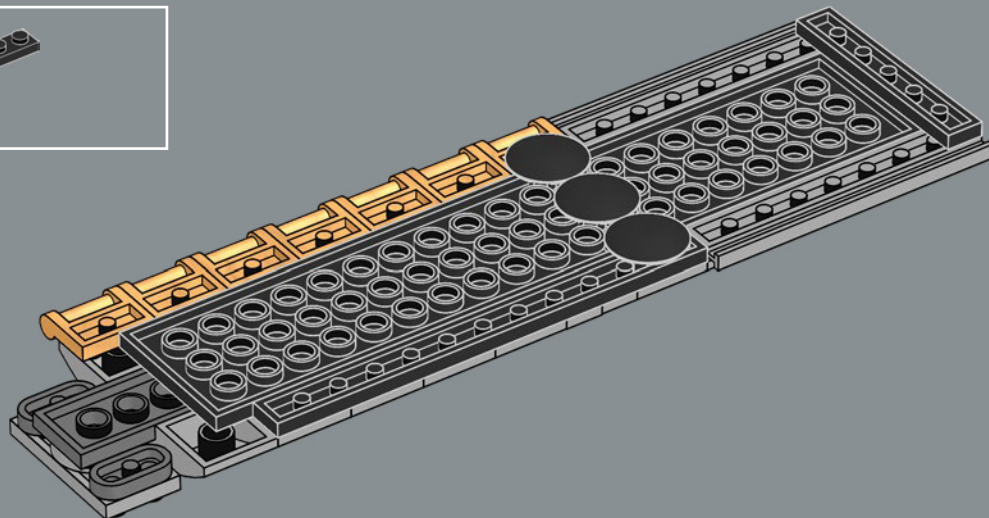


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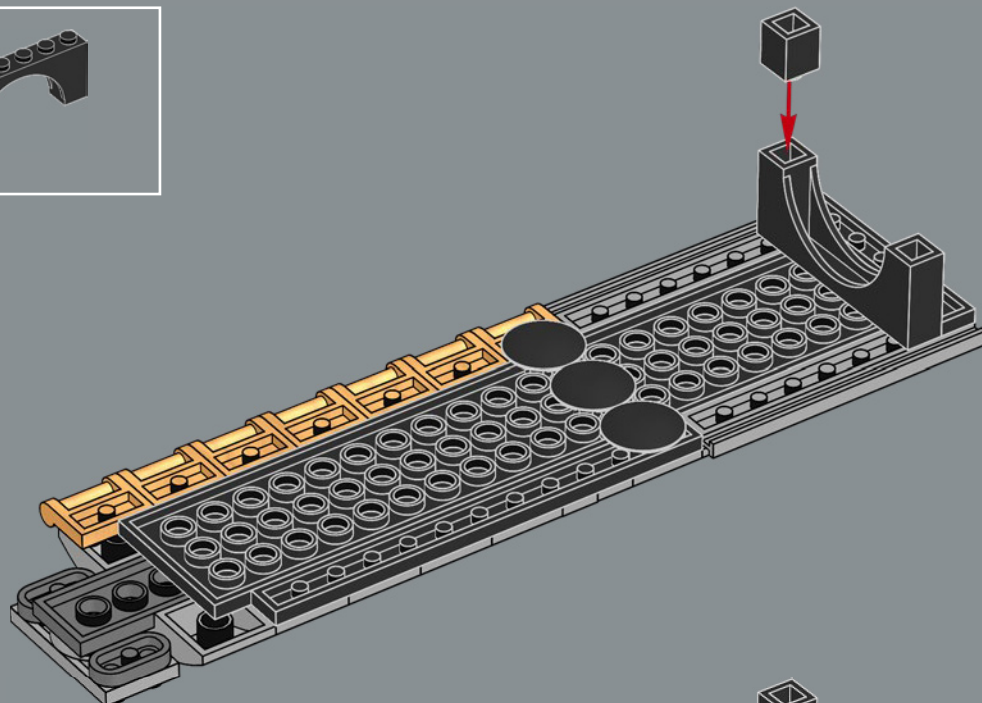




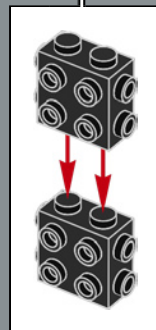
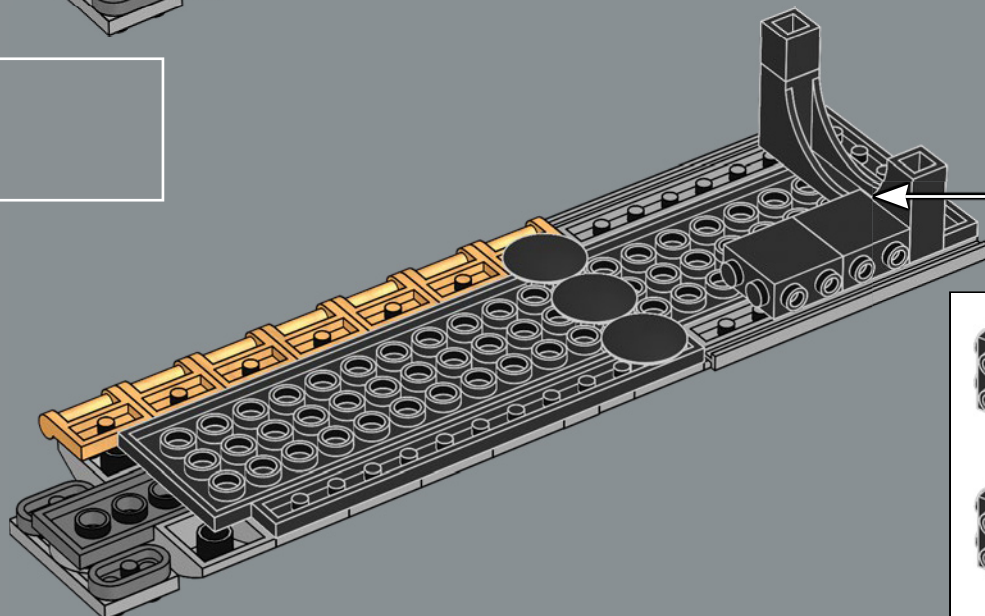
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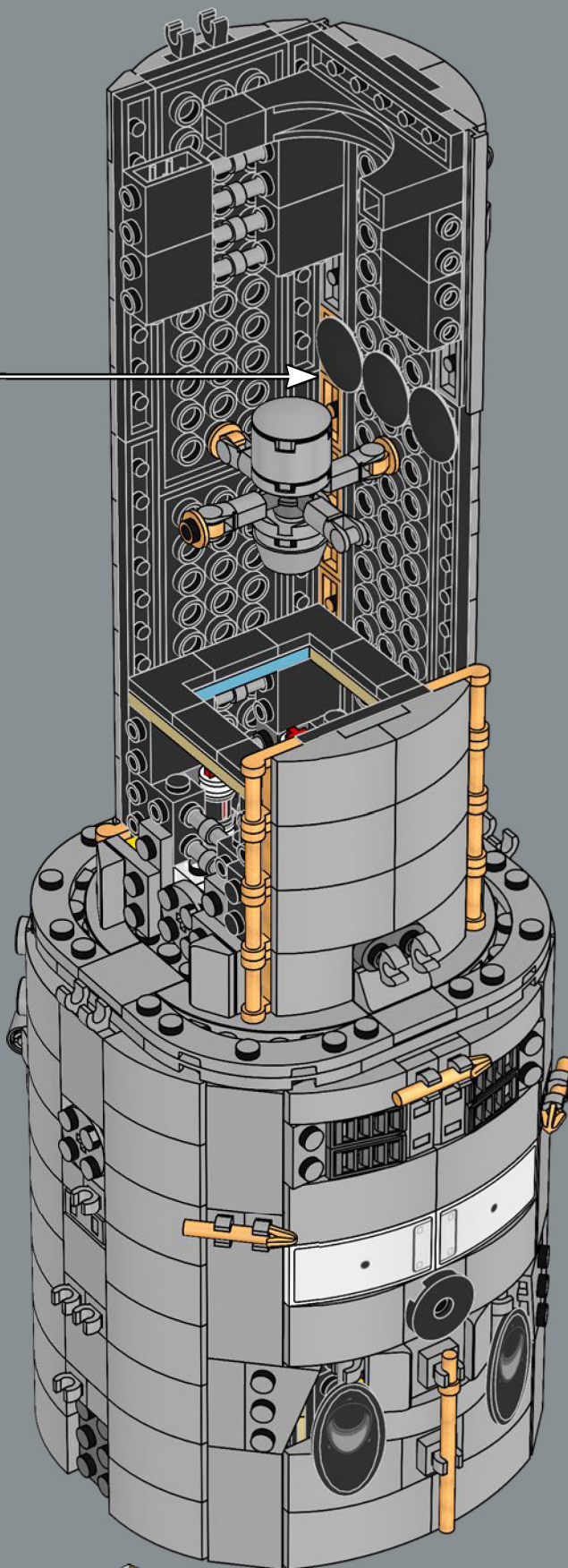
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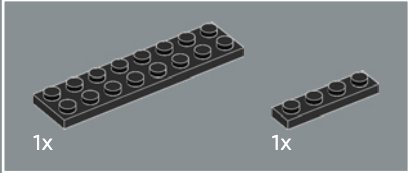
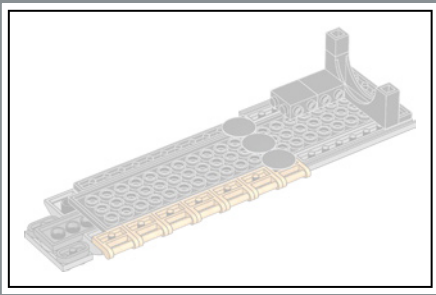


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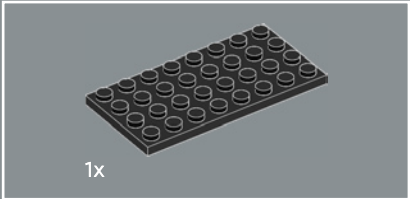
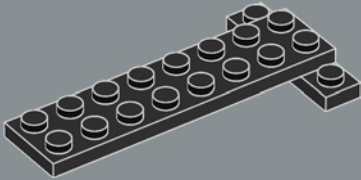


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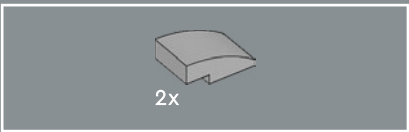
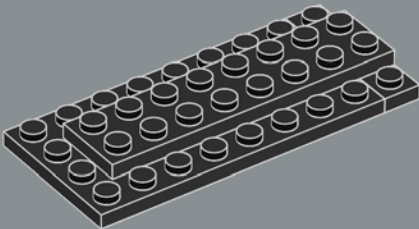




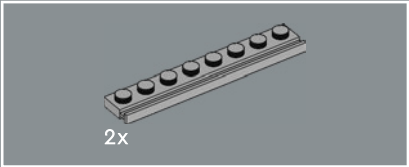
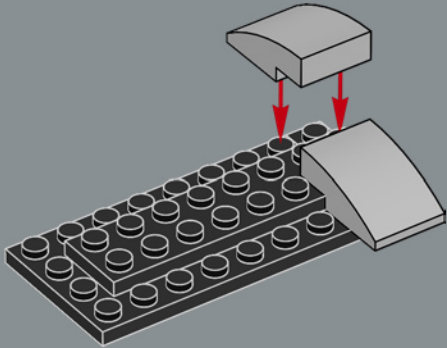
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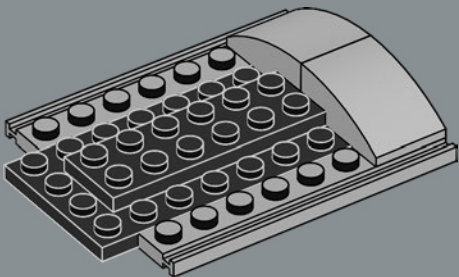
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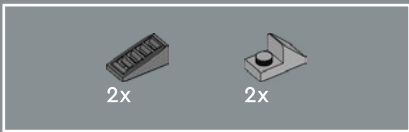


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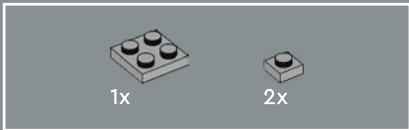
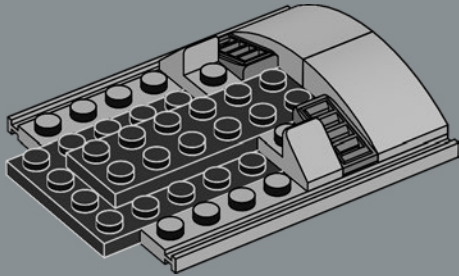


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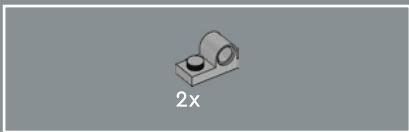
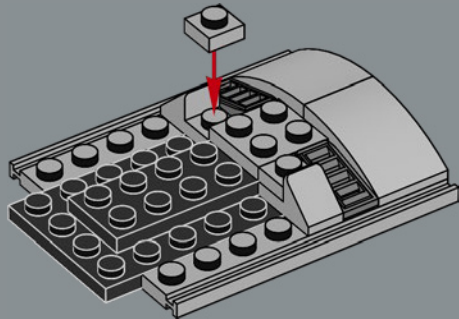




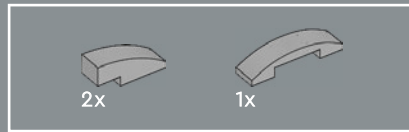
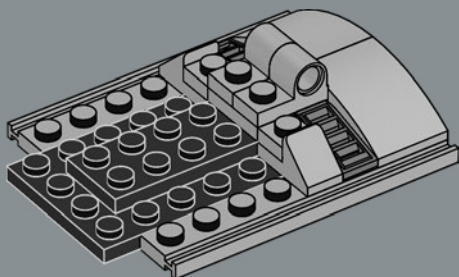
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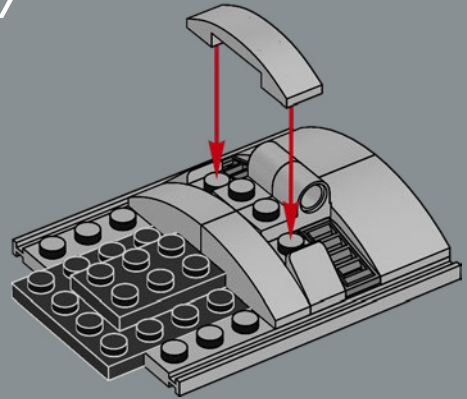
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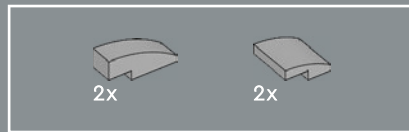
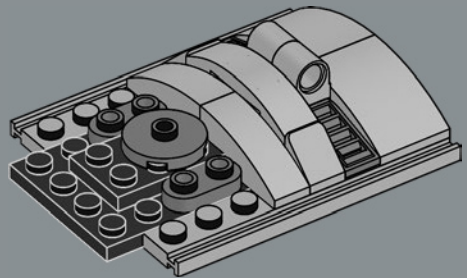
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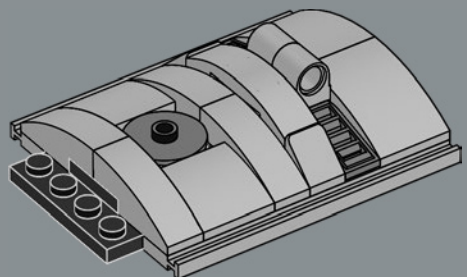
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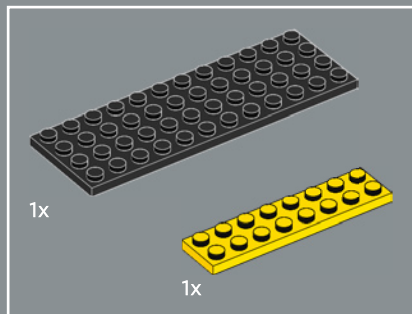


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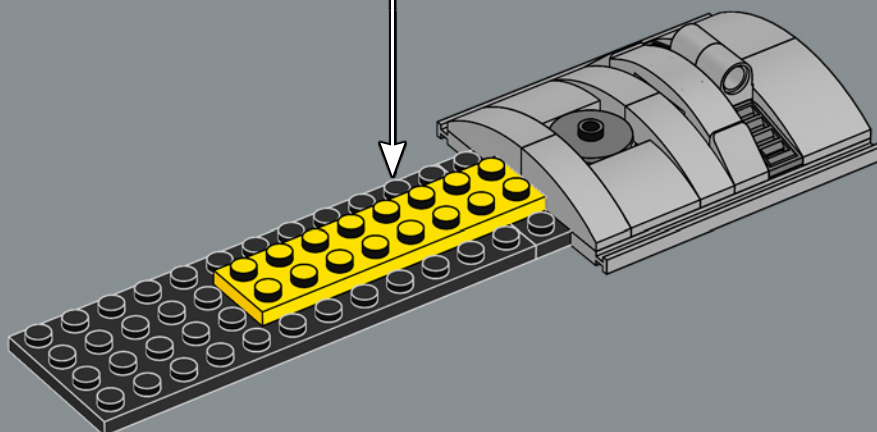
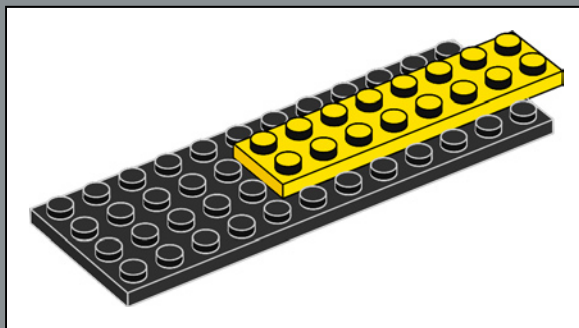


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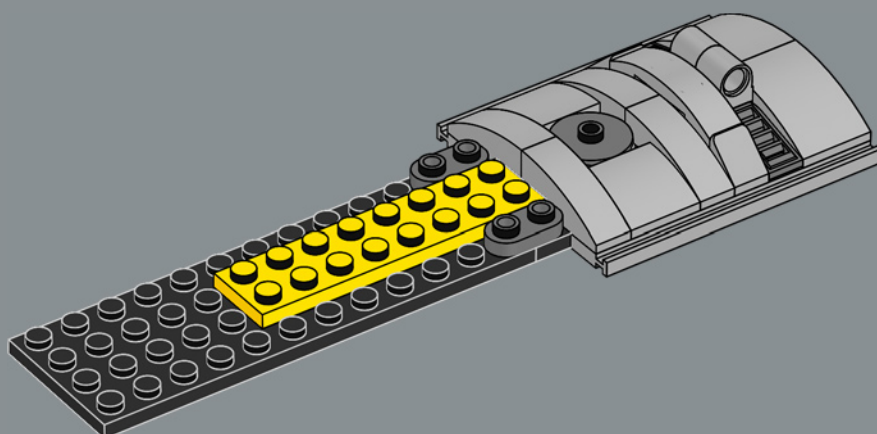


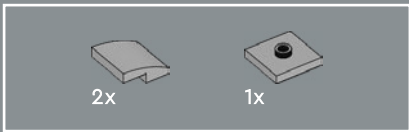


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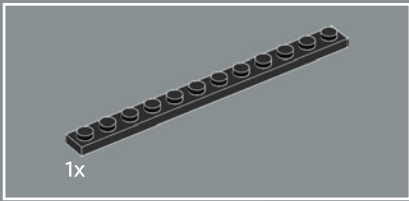
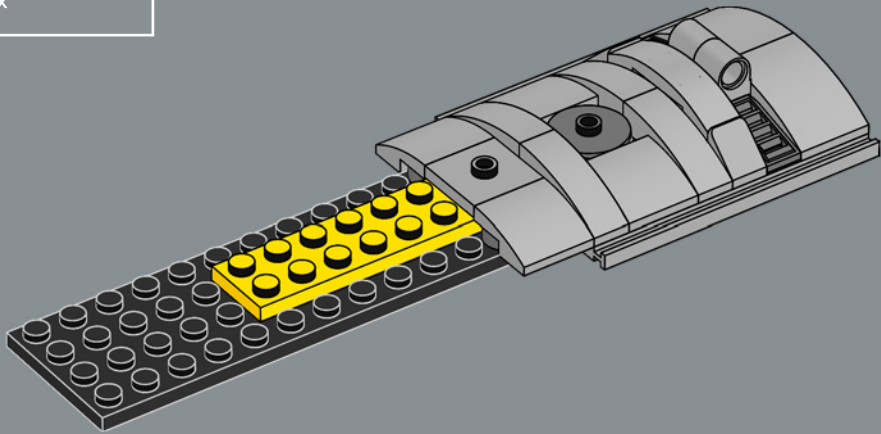


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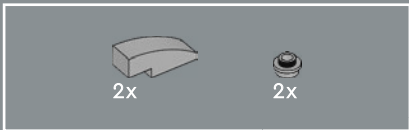
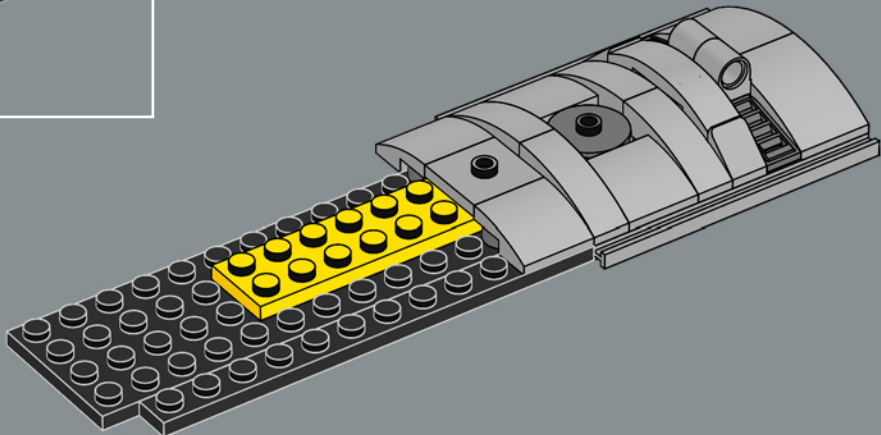




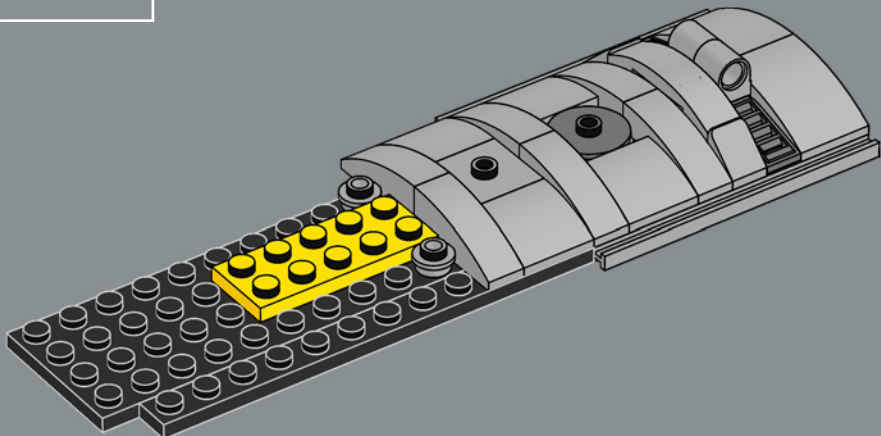
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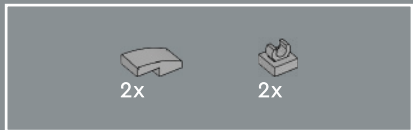


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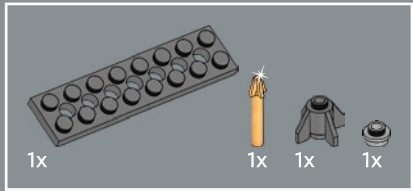
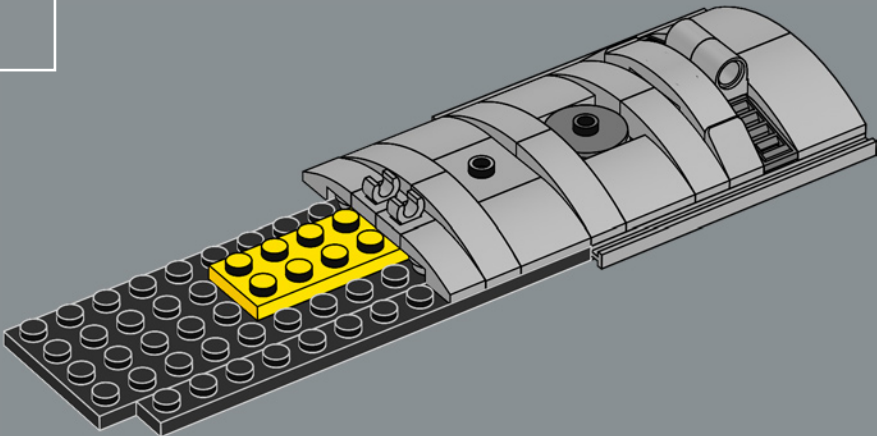


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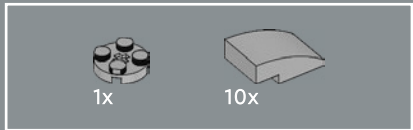
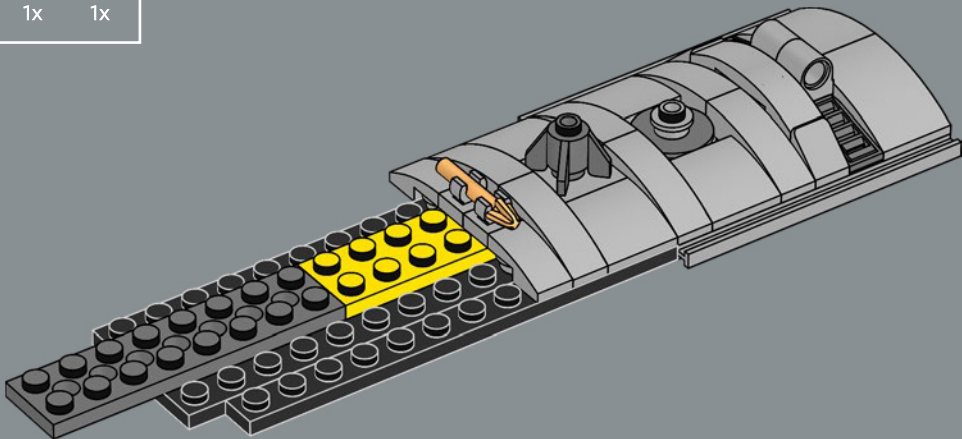




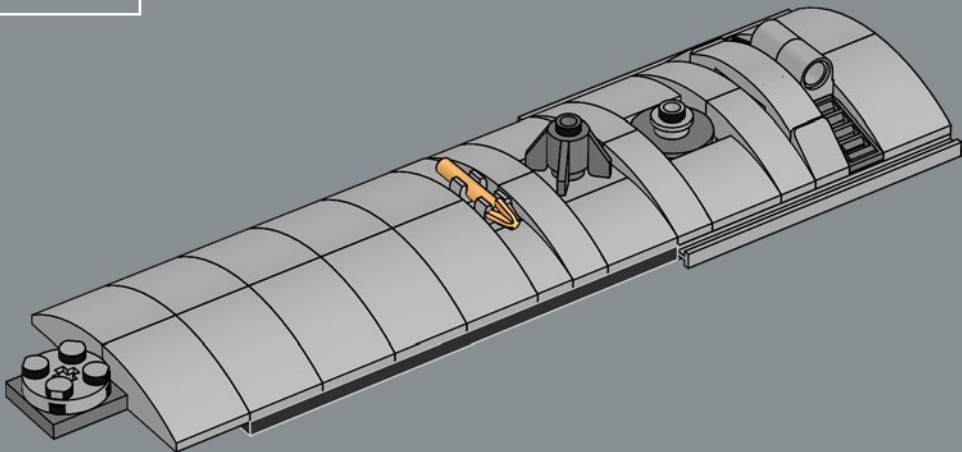
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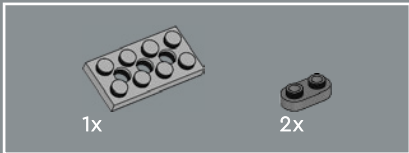
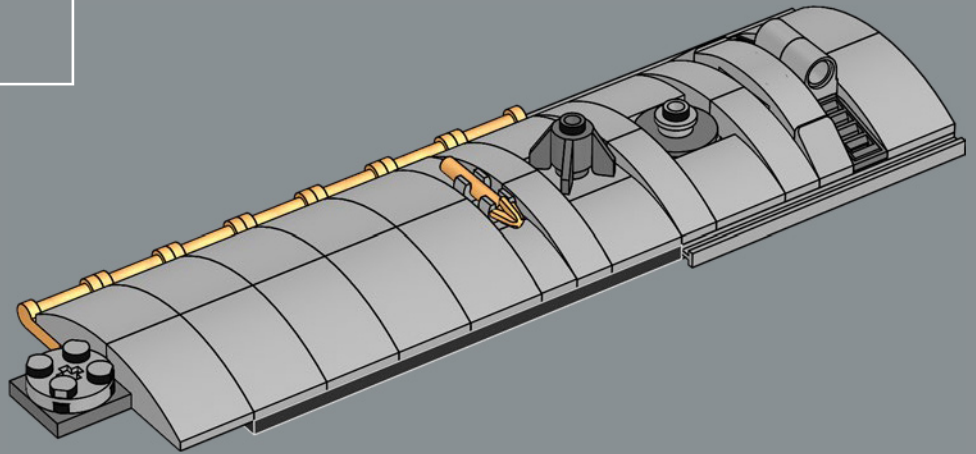


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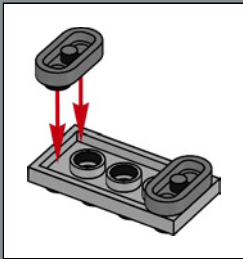
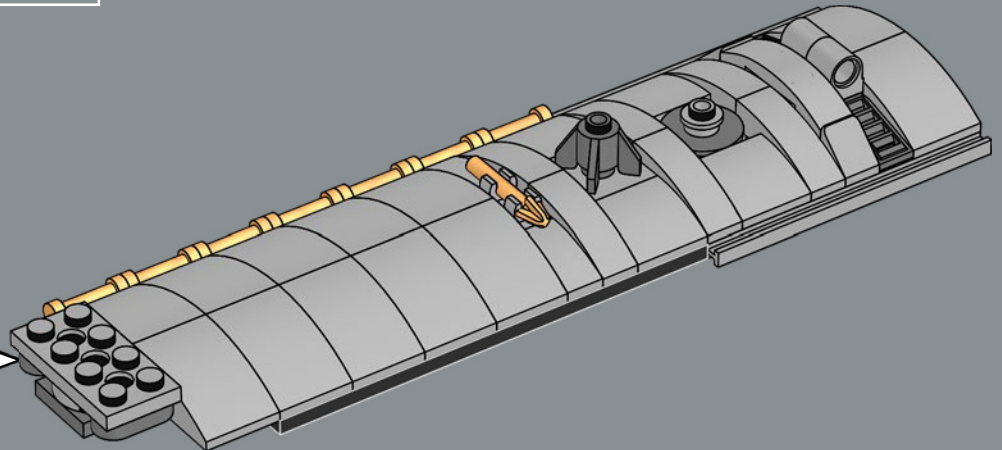




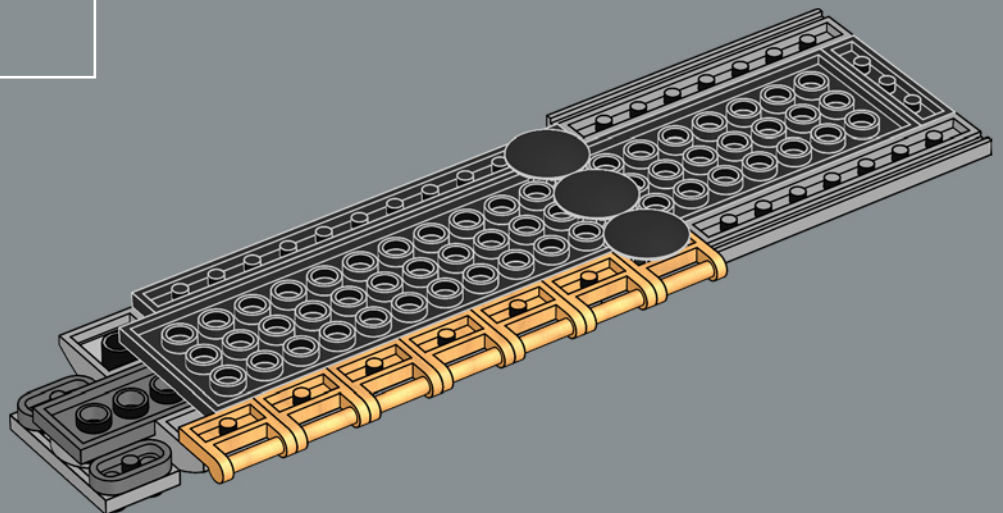
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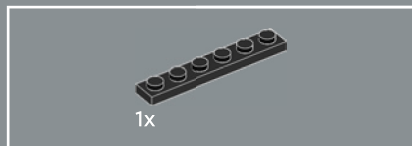


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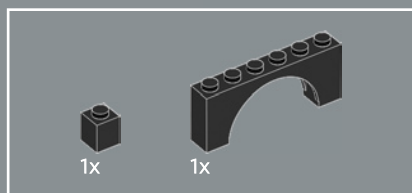
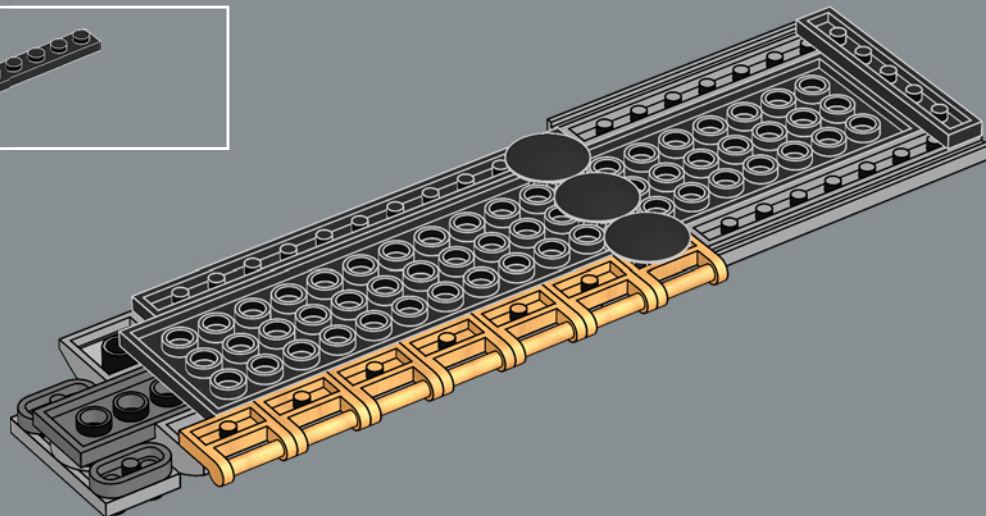


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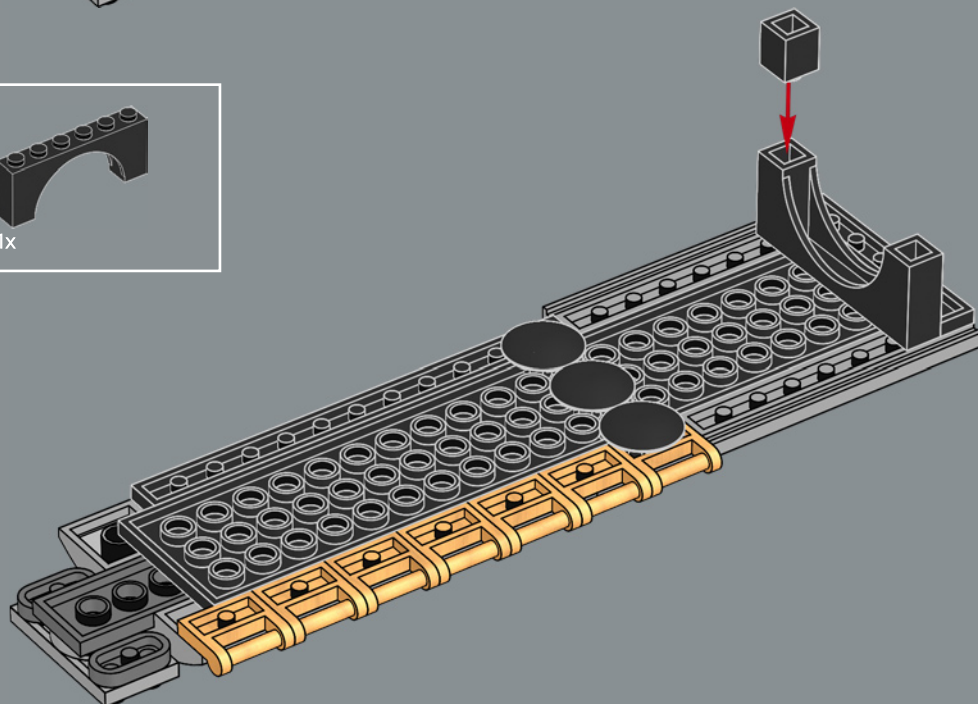




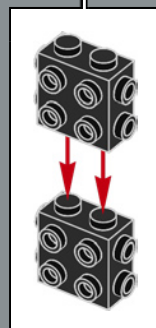
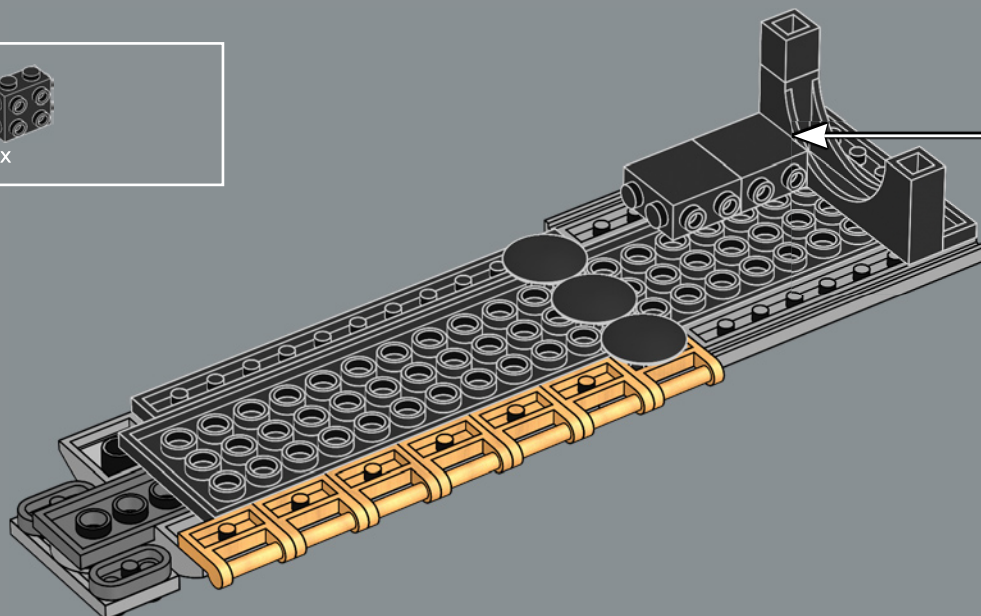
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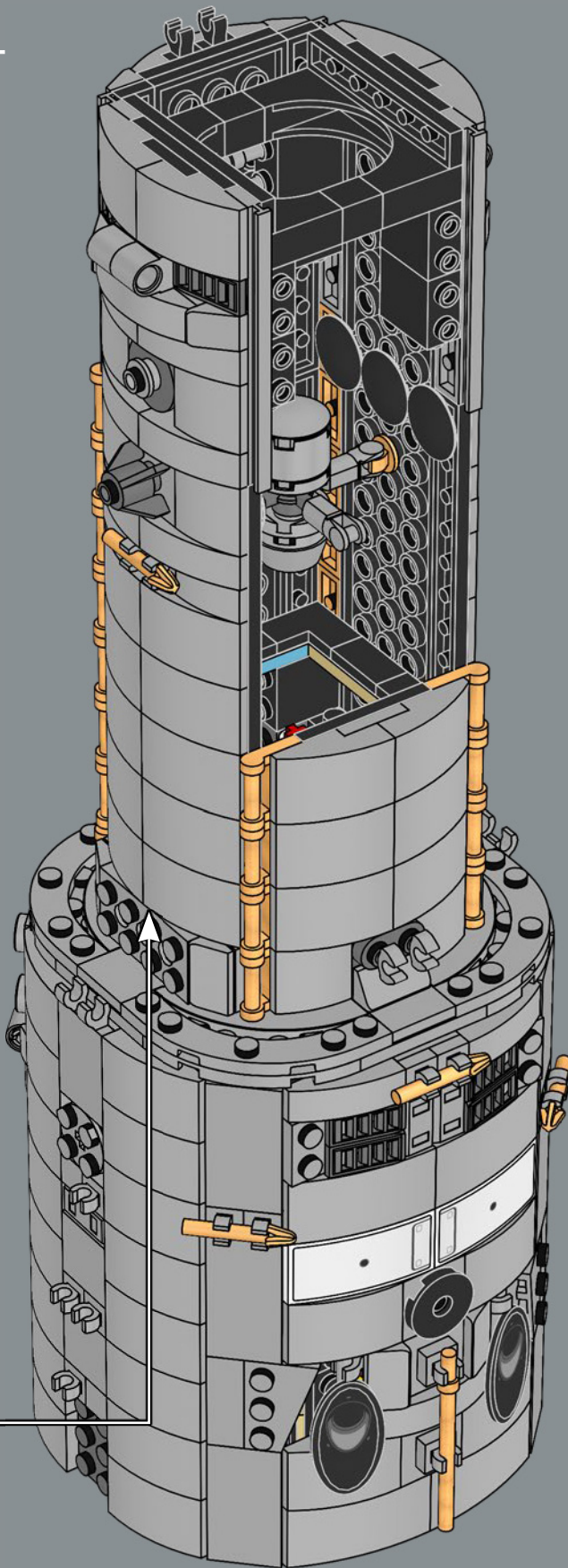


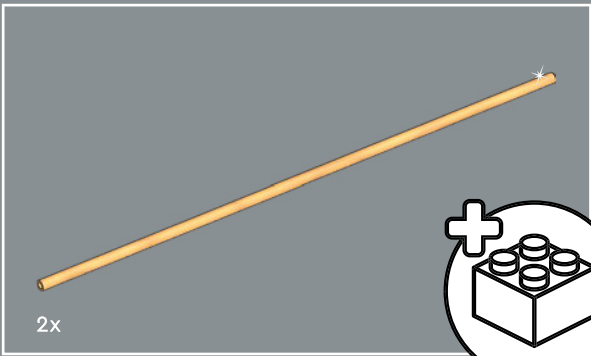
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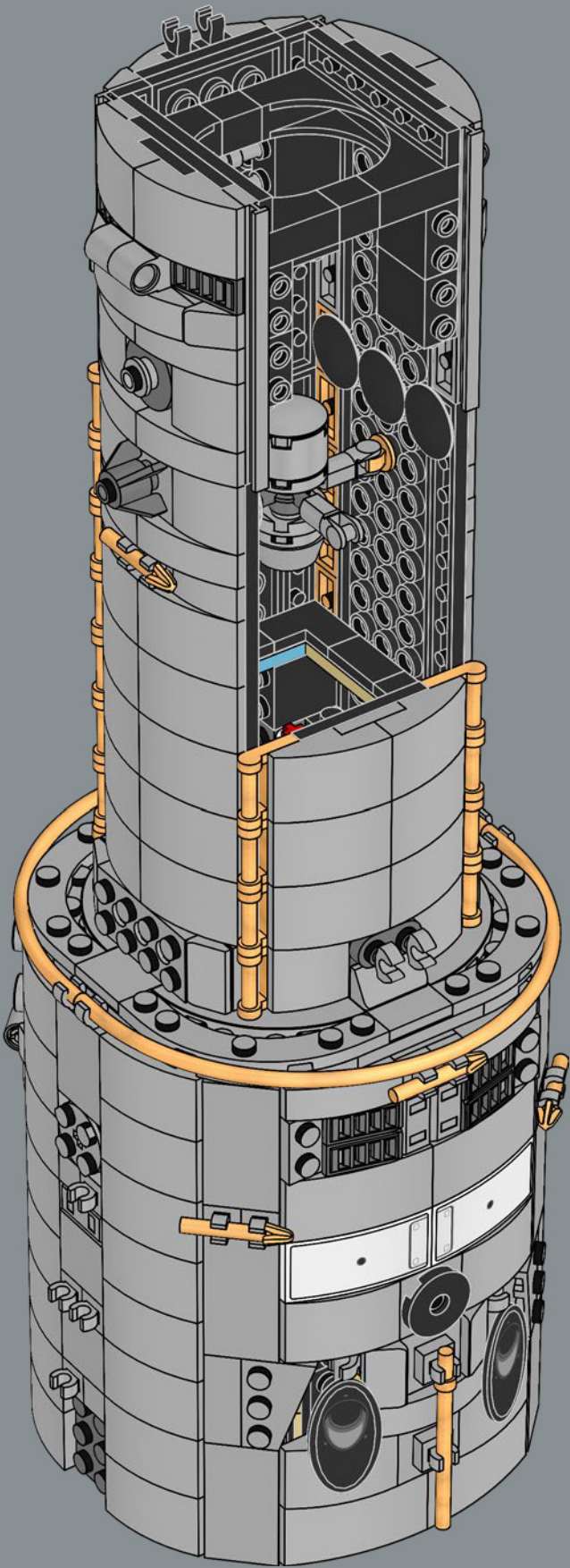
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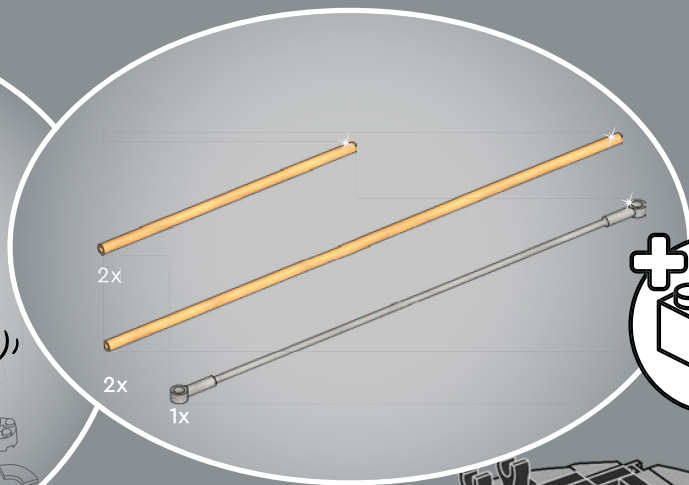




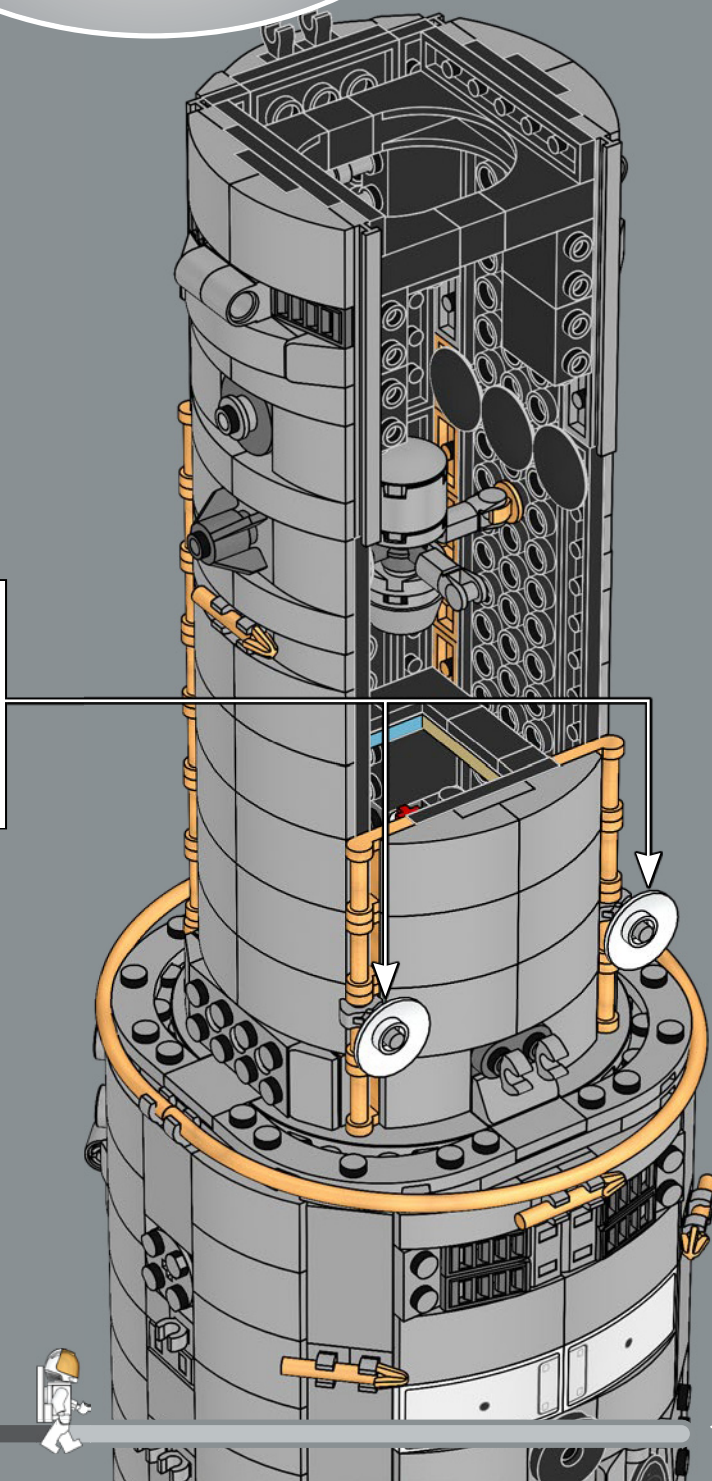
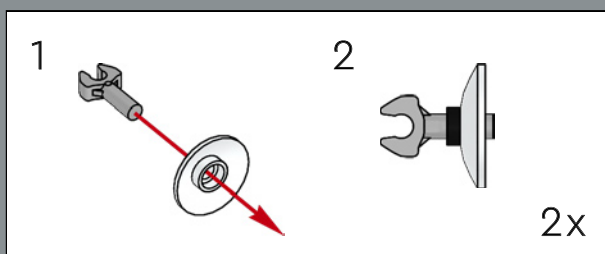


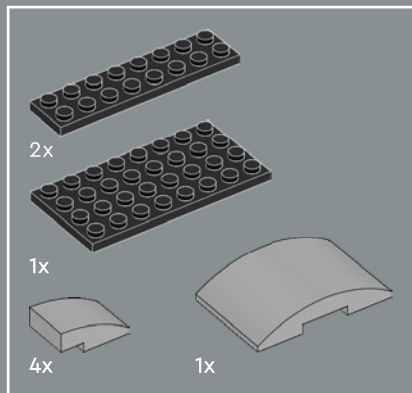
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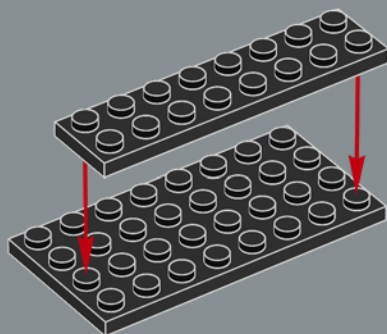
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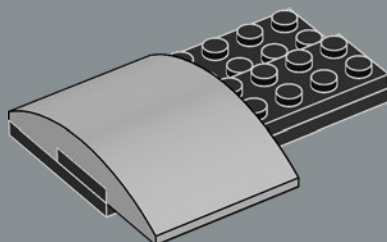


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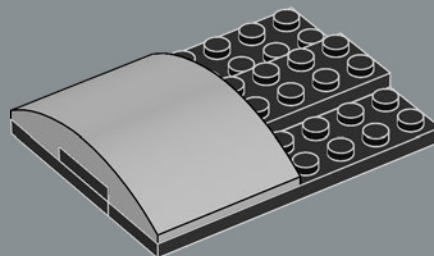
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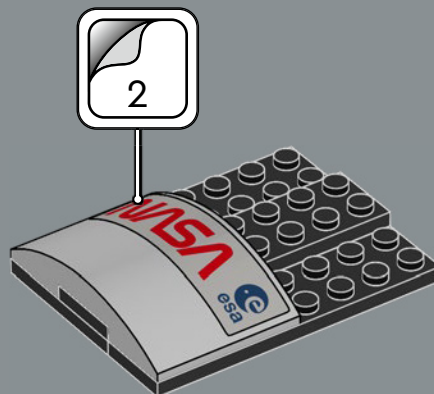
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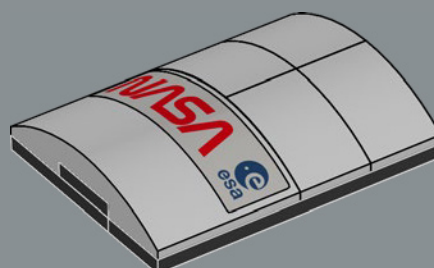
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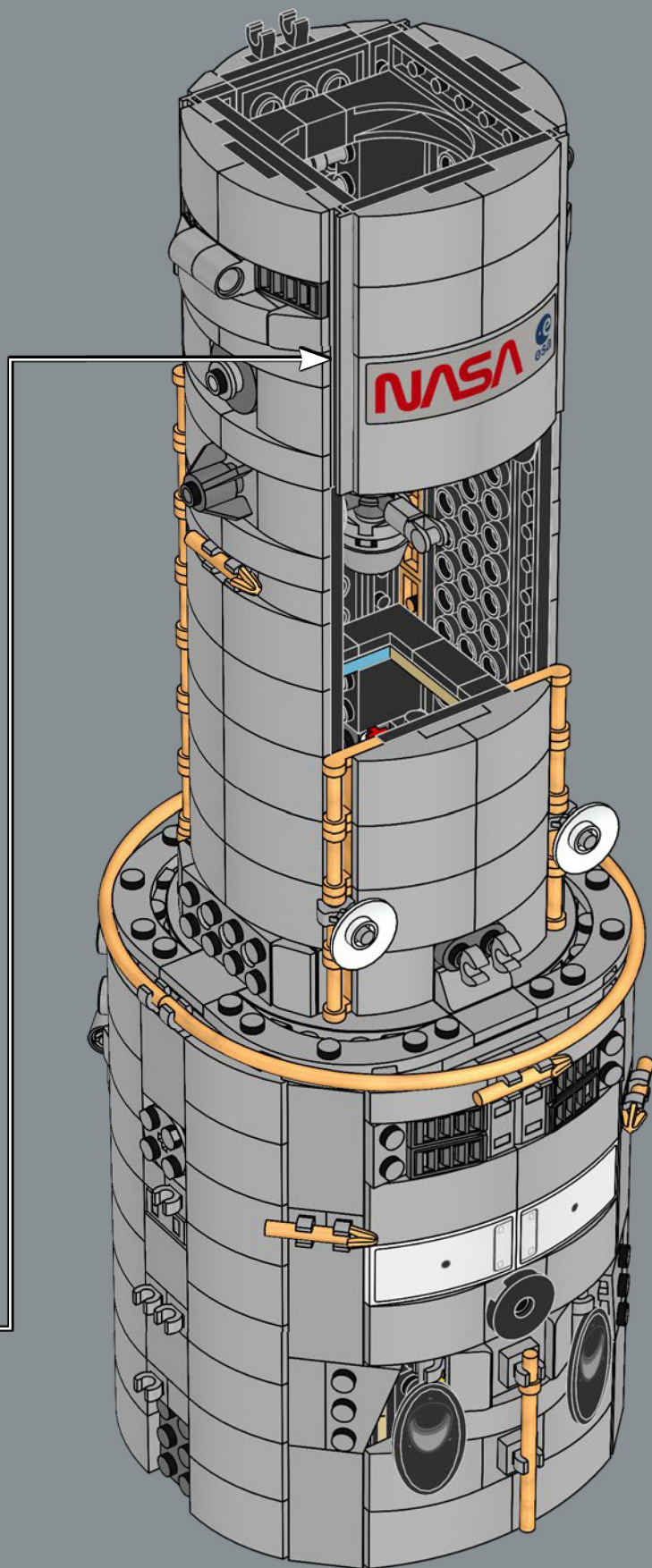


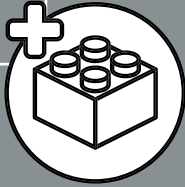
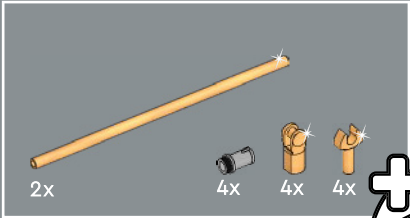
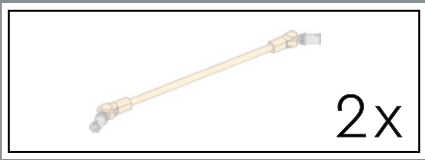
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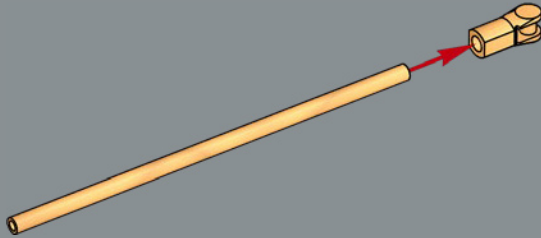
El telescopio permitió refinar las estimaciones de la constante de Hubble y determinar que el universo tiene aproximadamente 13.800 millones de años.



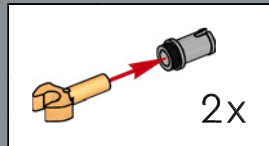
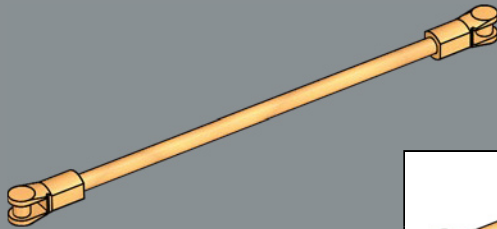


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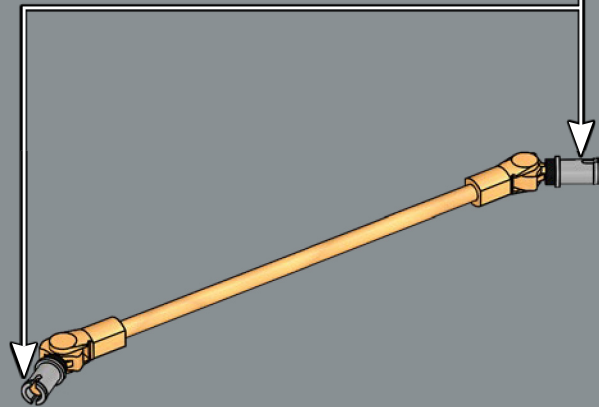
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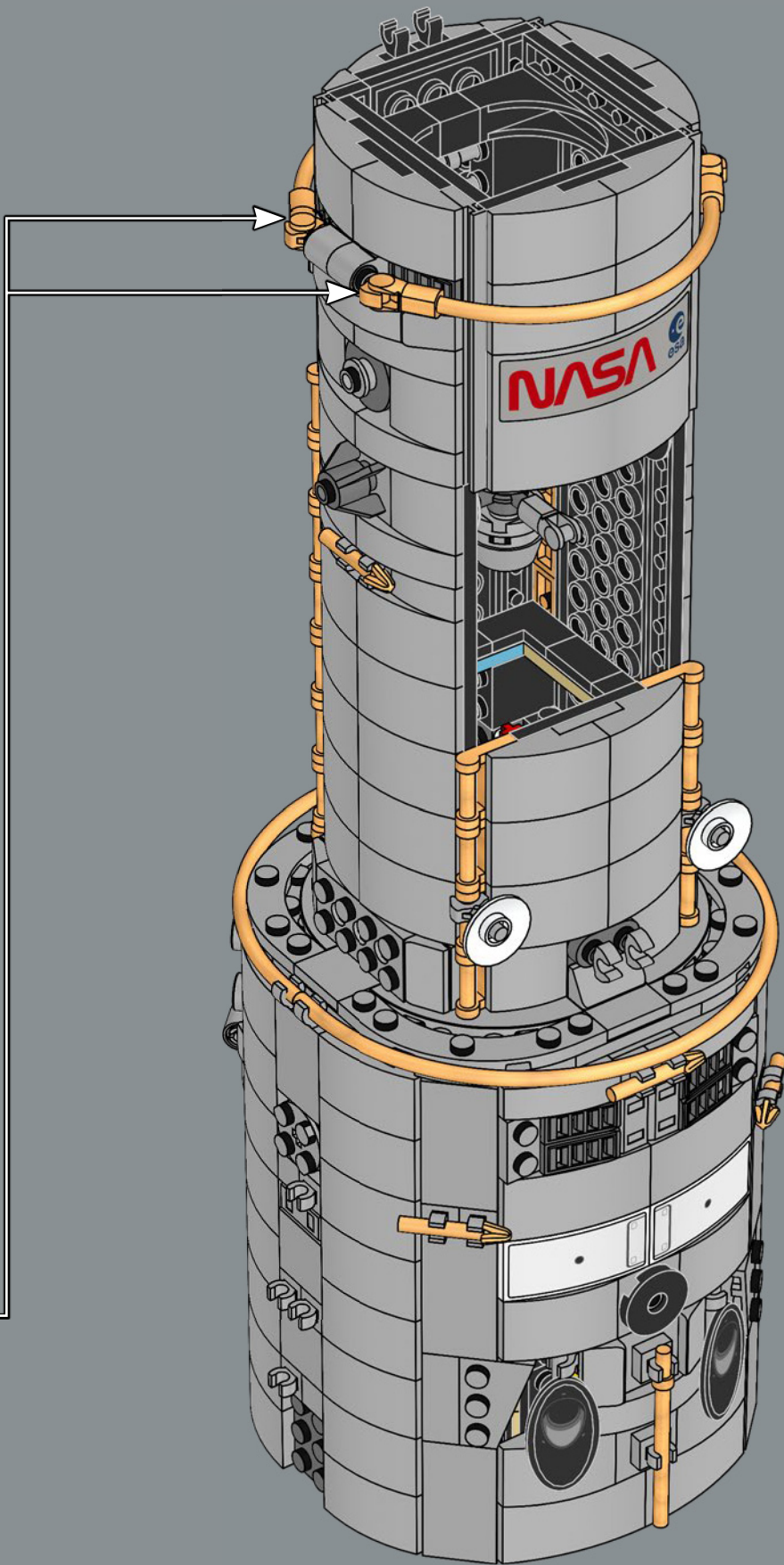
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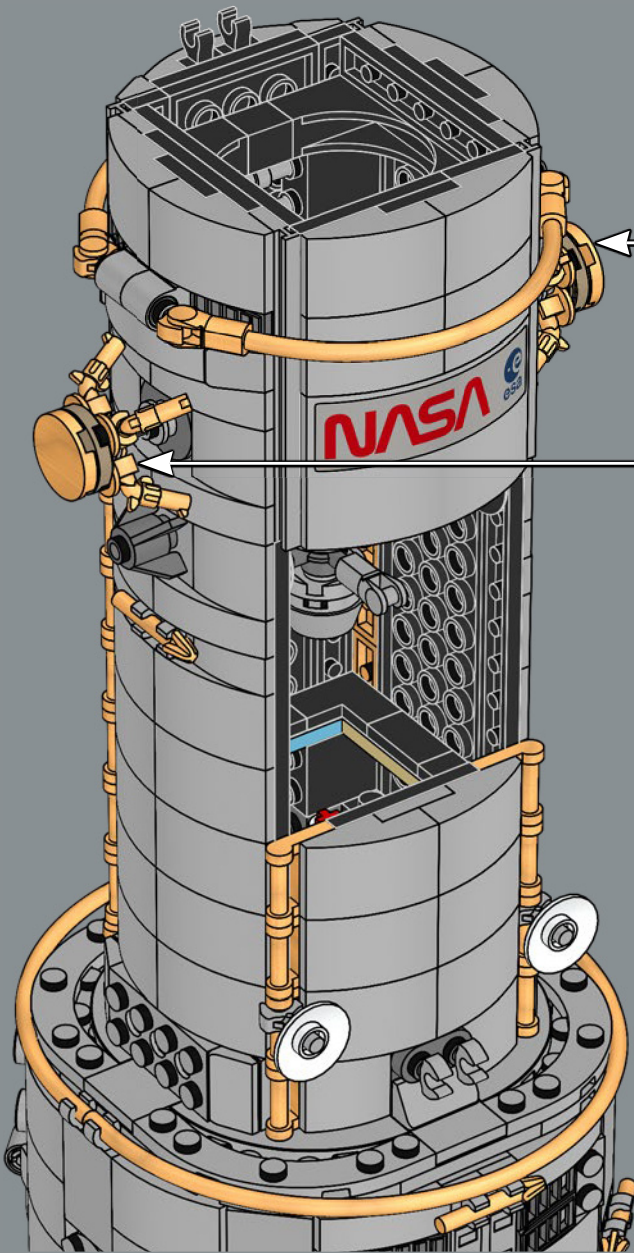
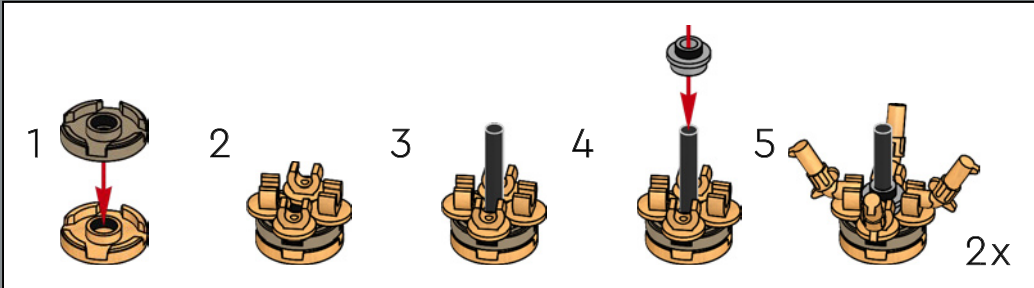


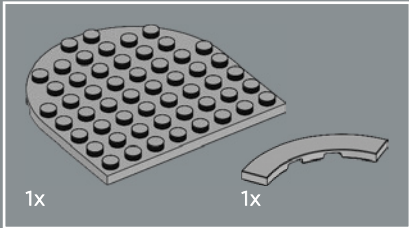
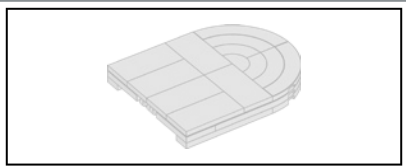
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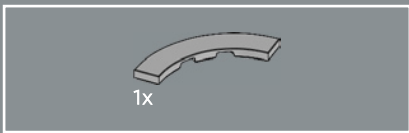
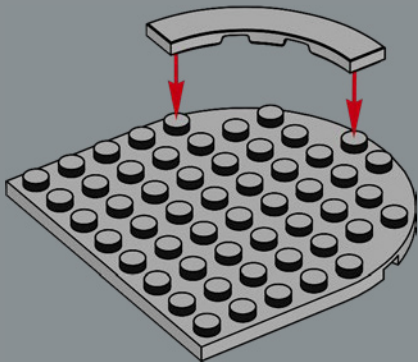


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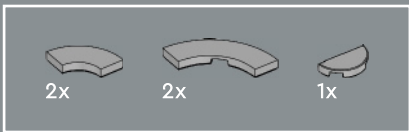
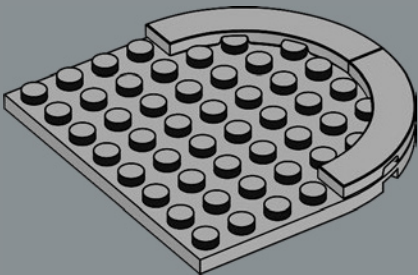




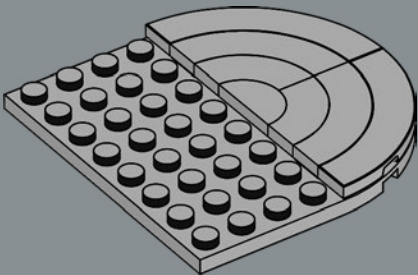
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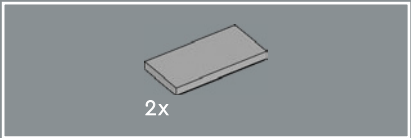


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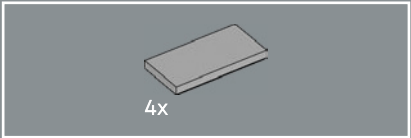
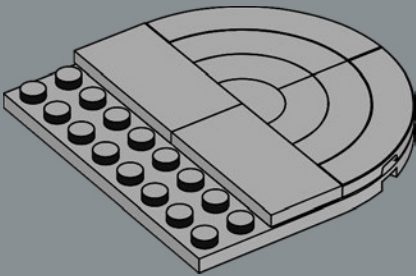


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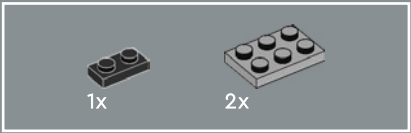
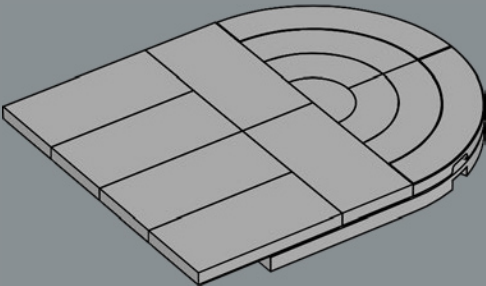




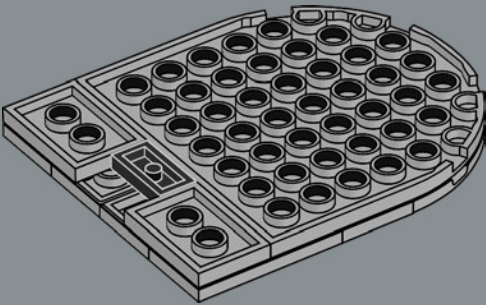
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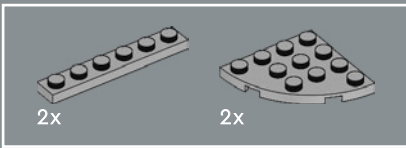


294

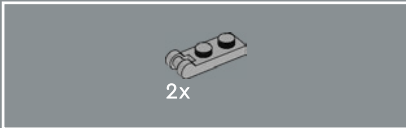
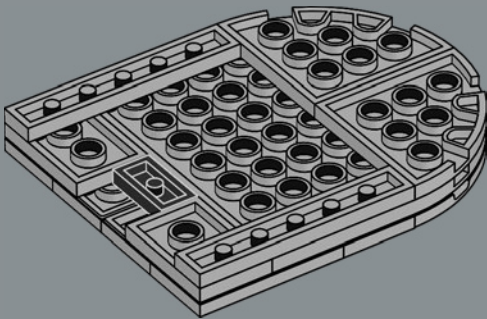


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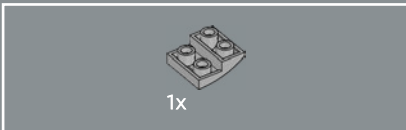
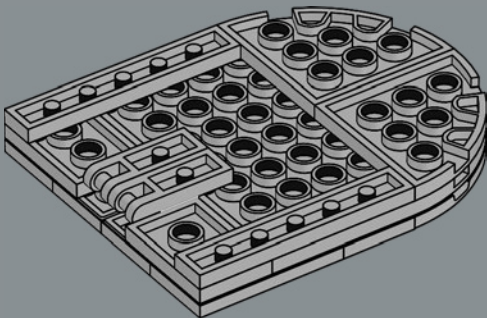




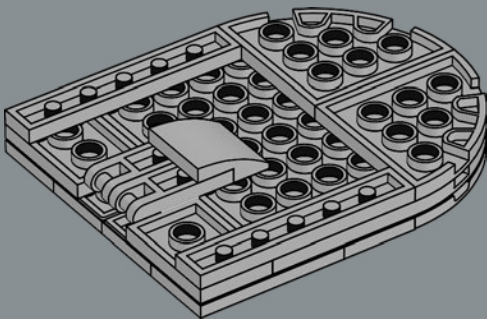
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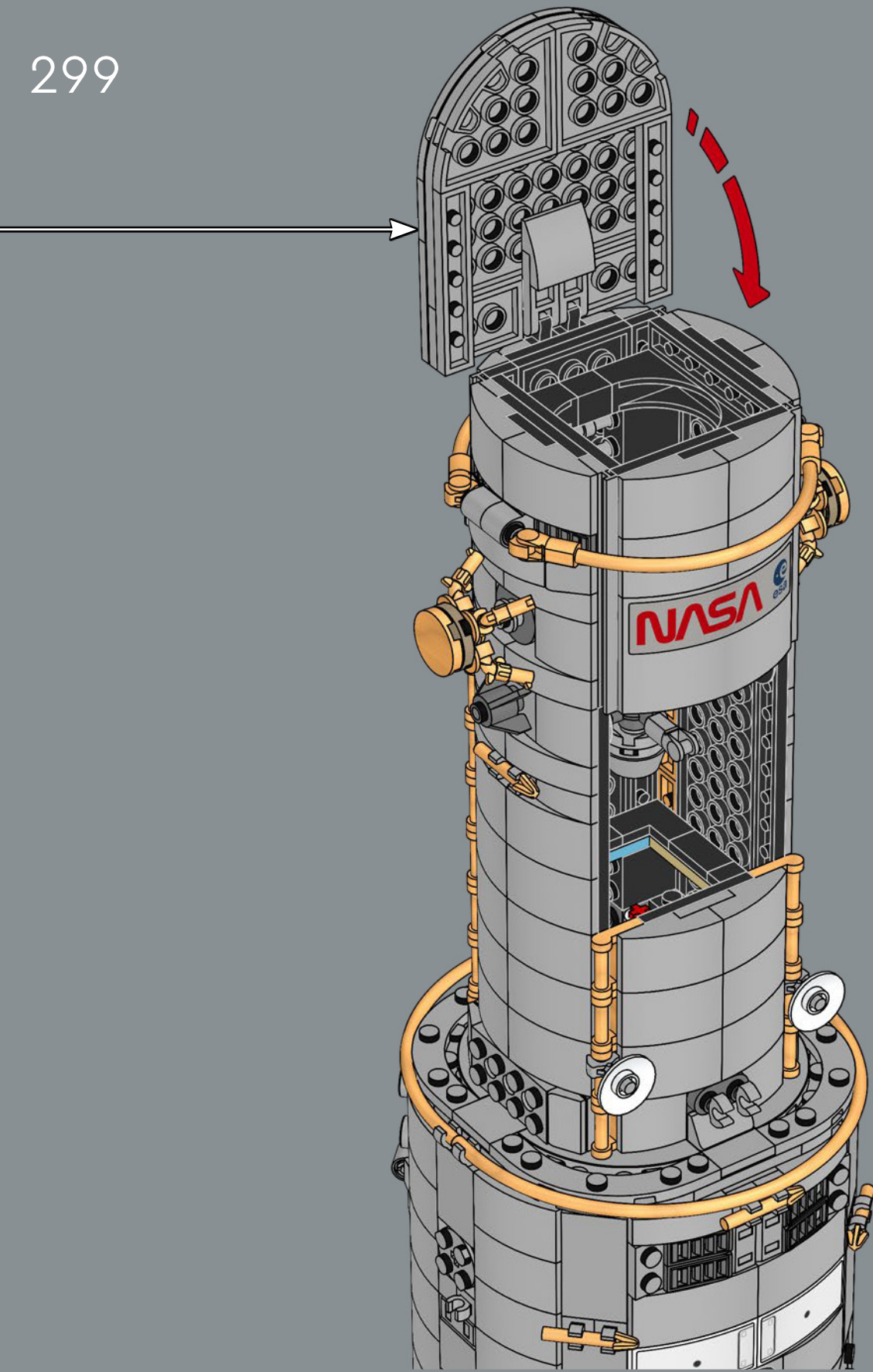


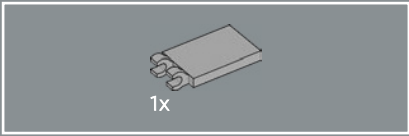
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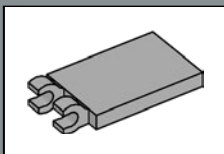
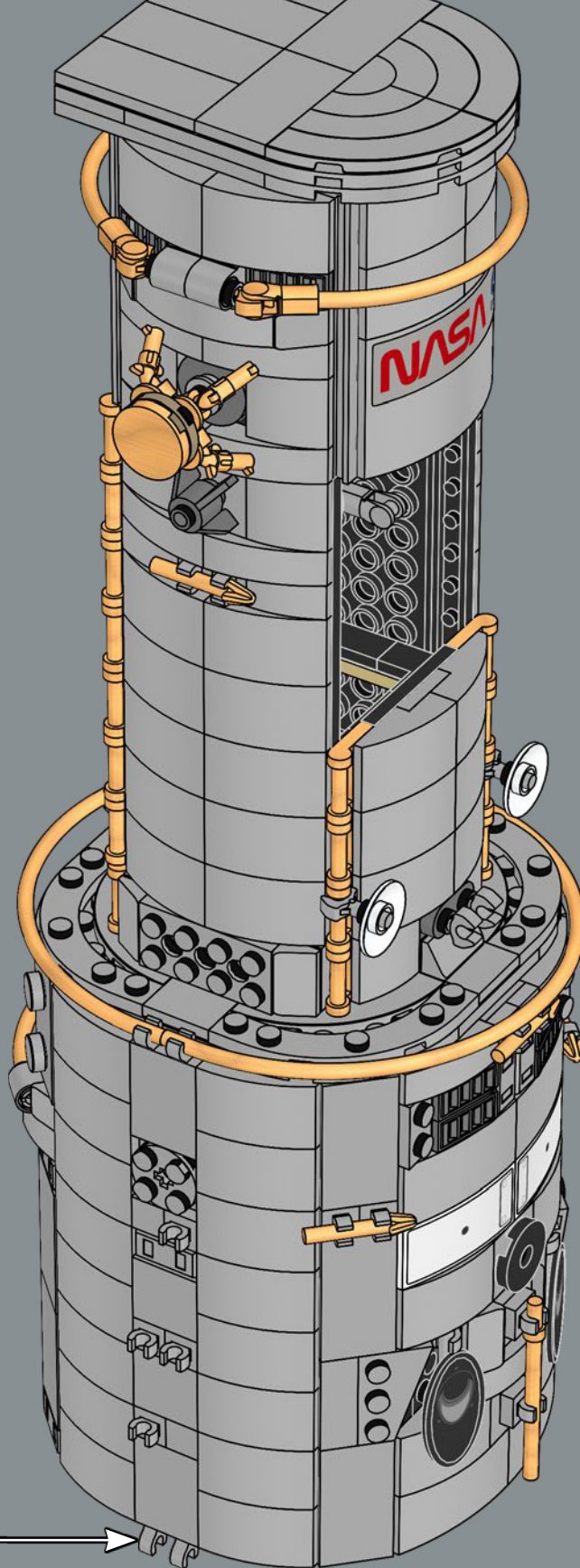
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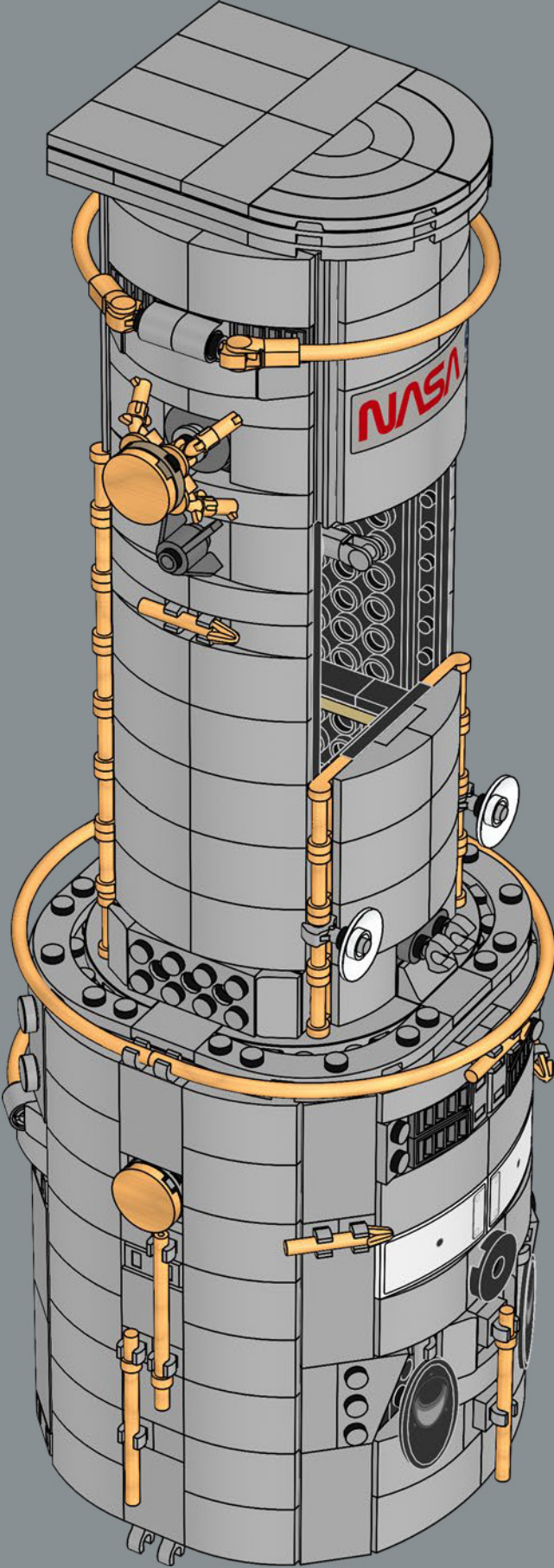


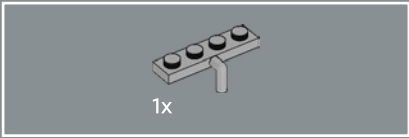
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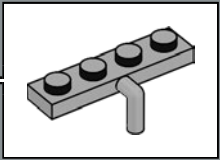
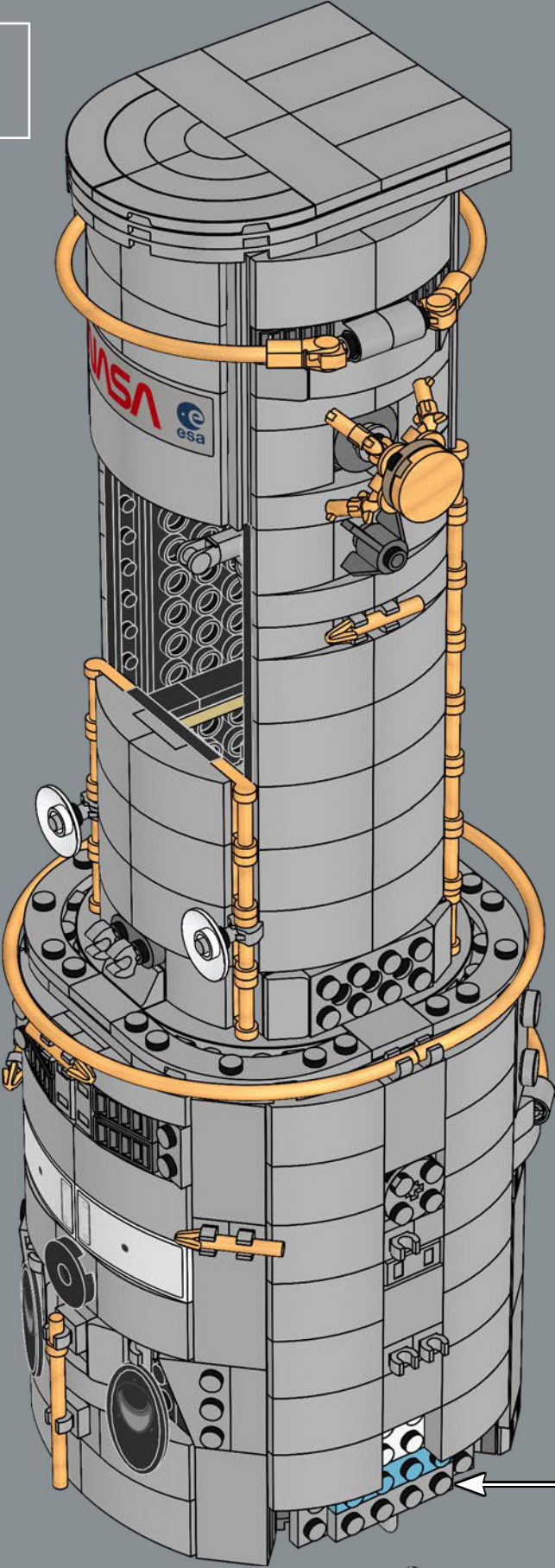


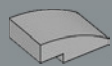
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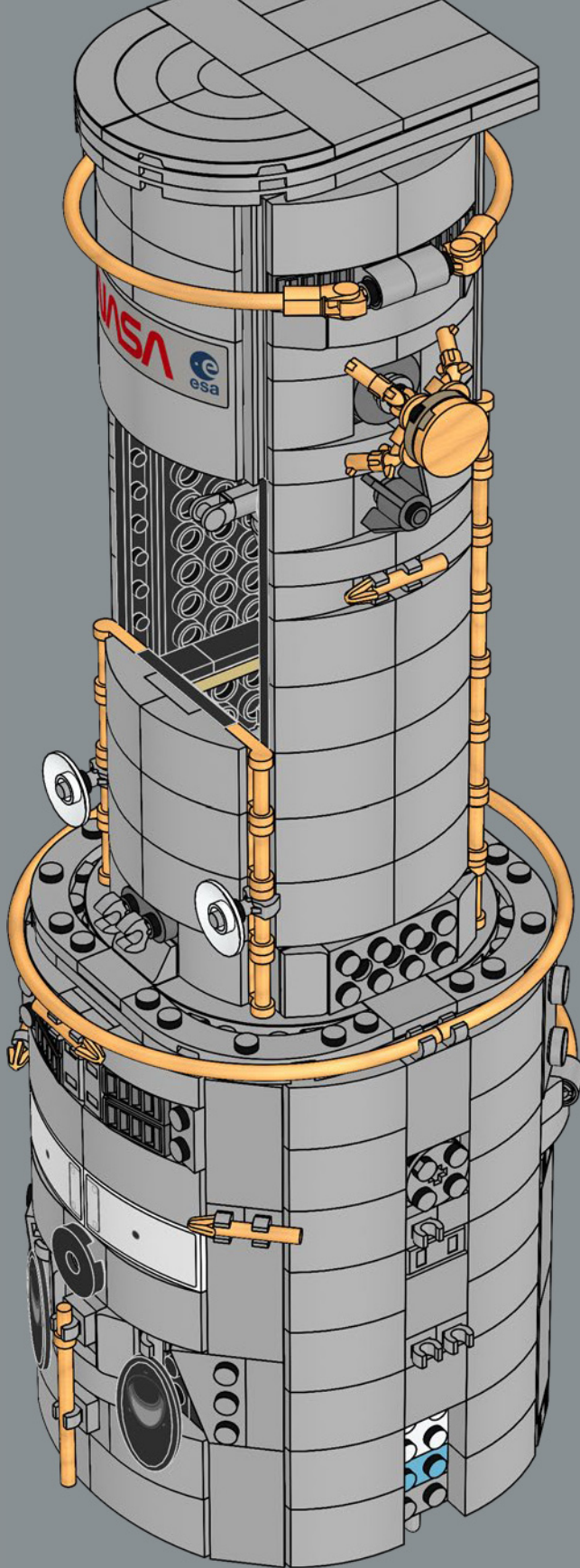
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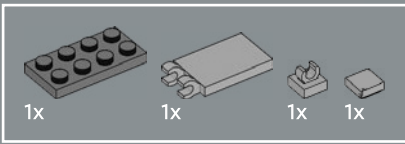




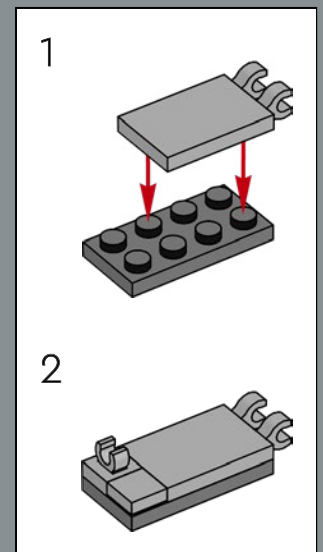
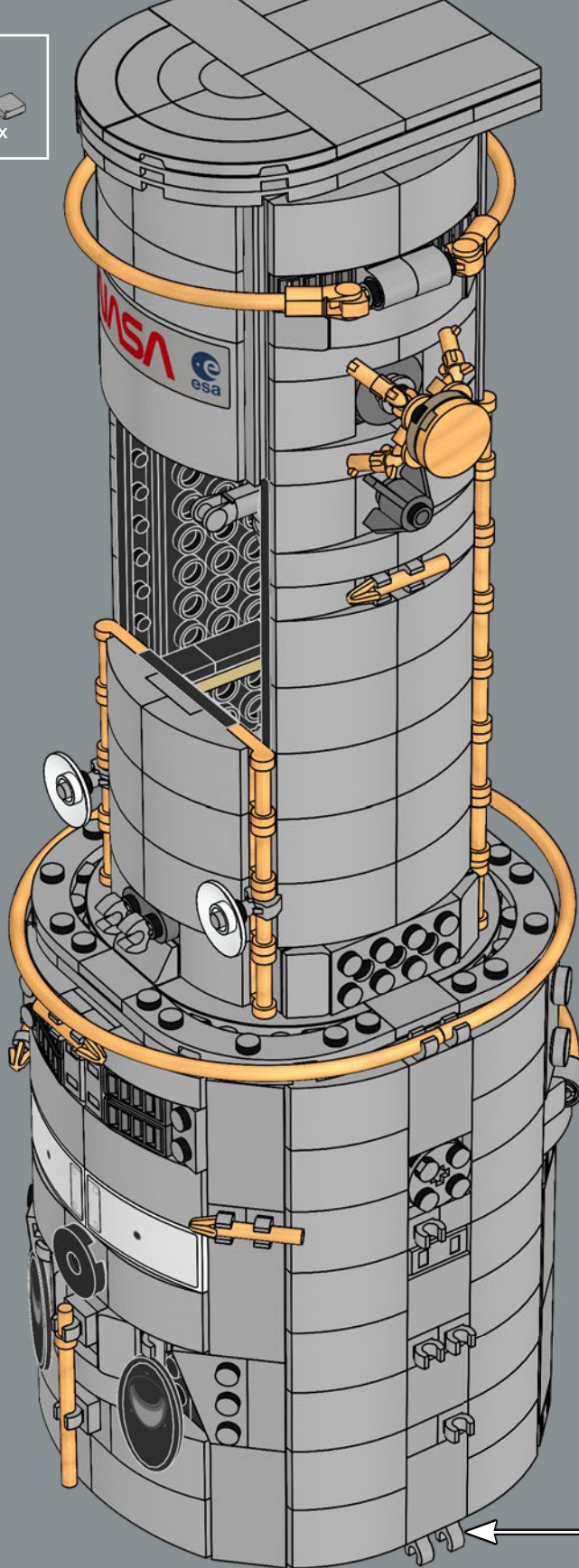
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303



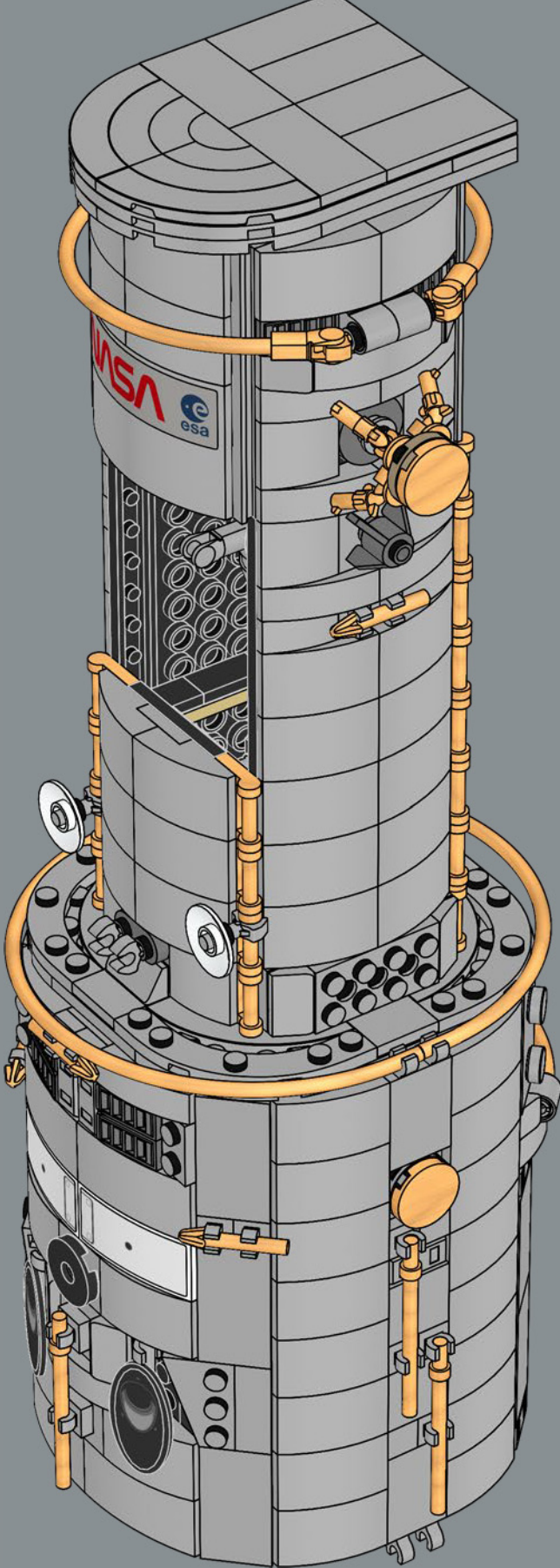


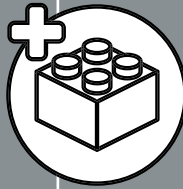
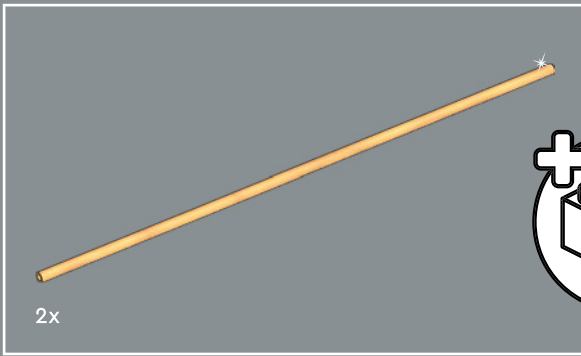
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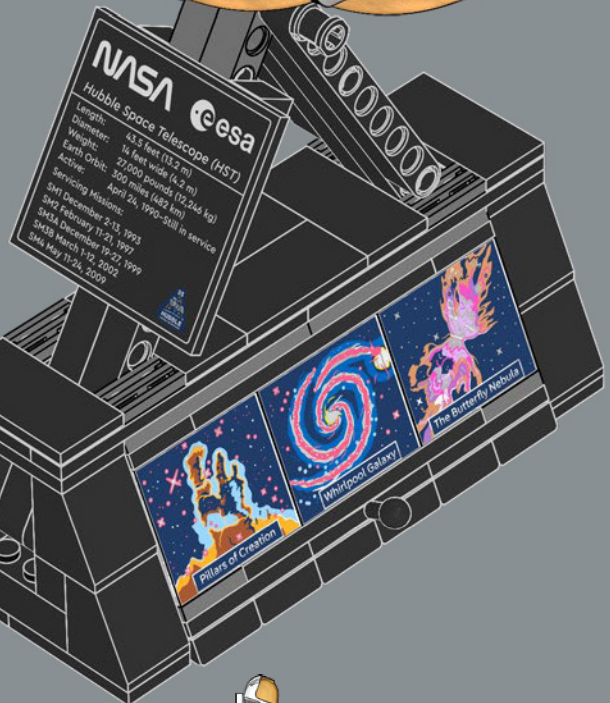
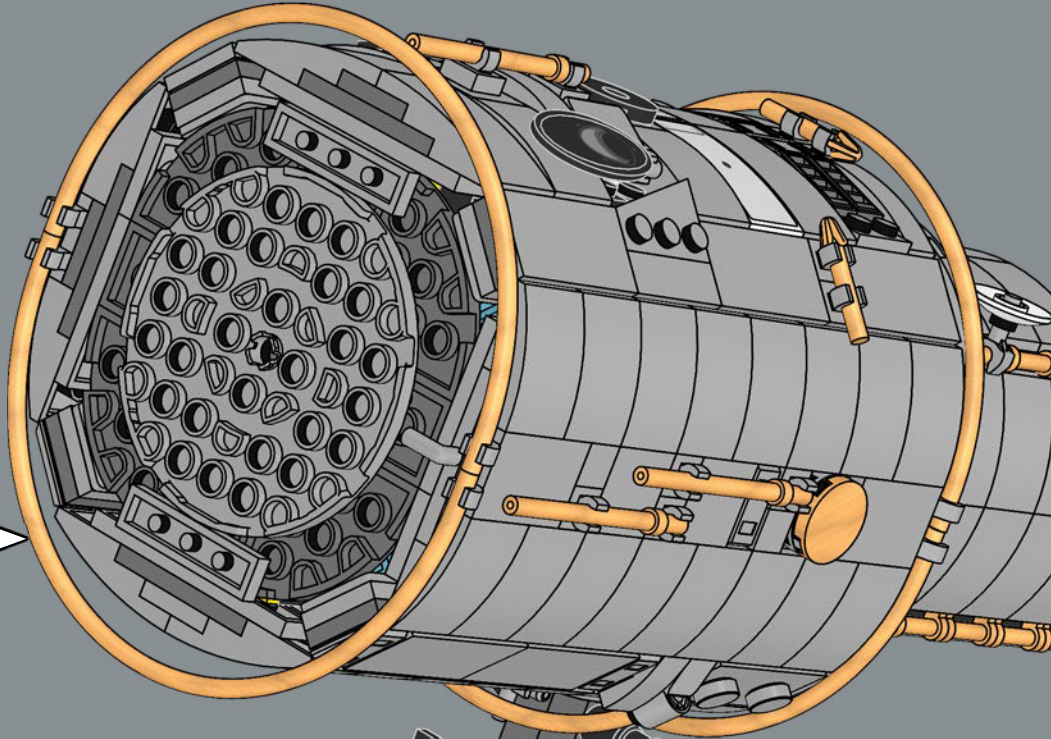


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306

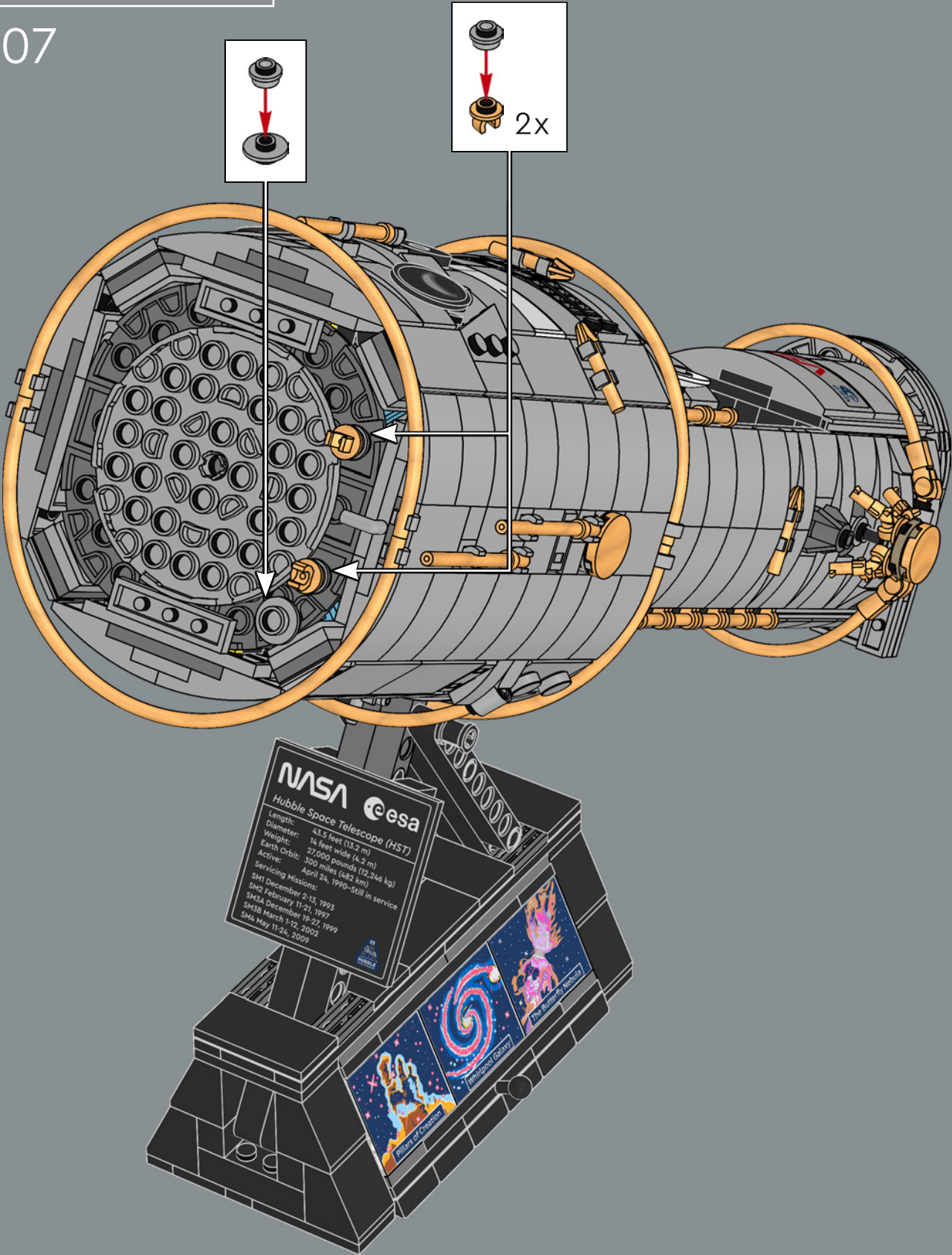


3x

2x

1x

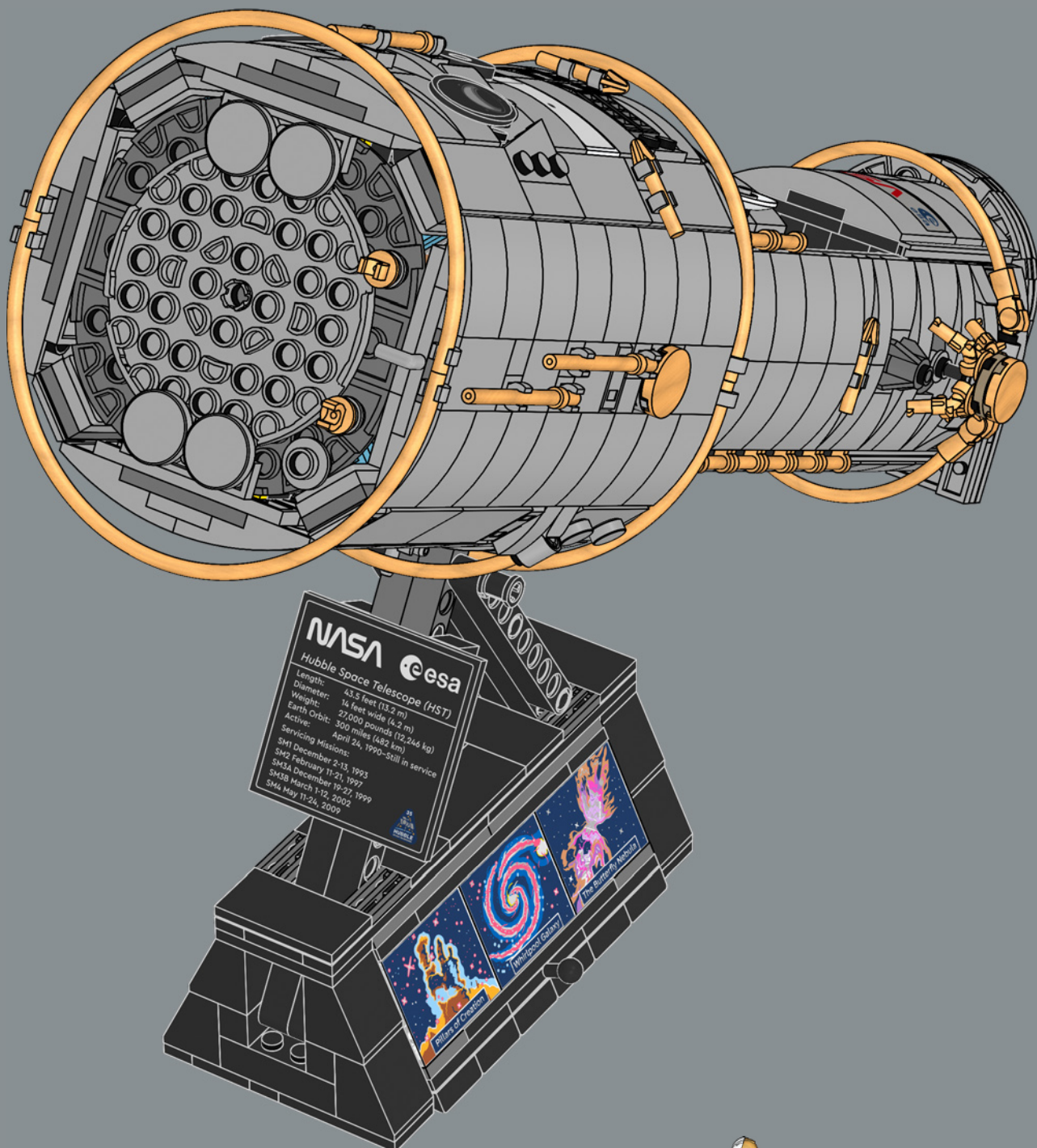
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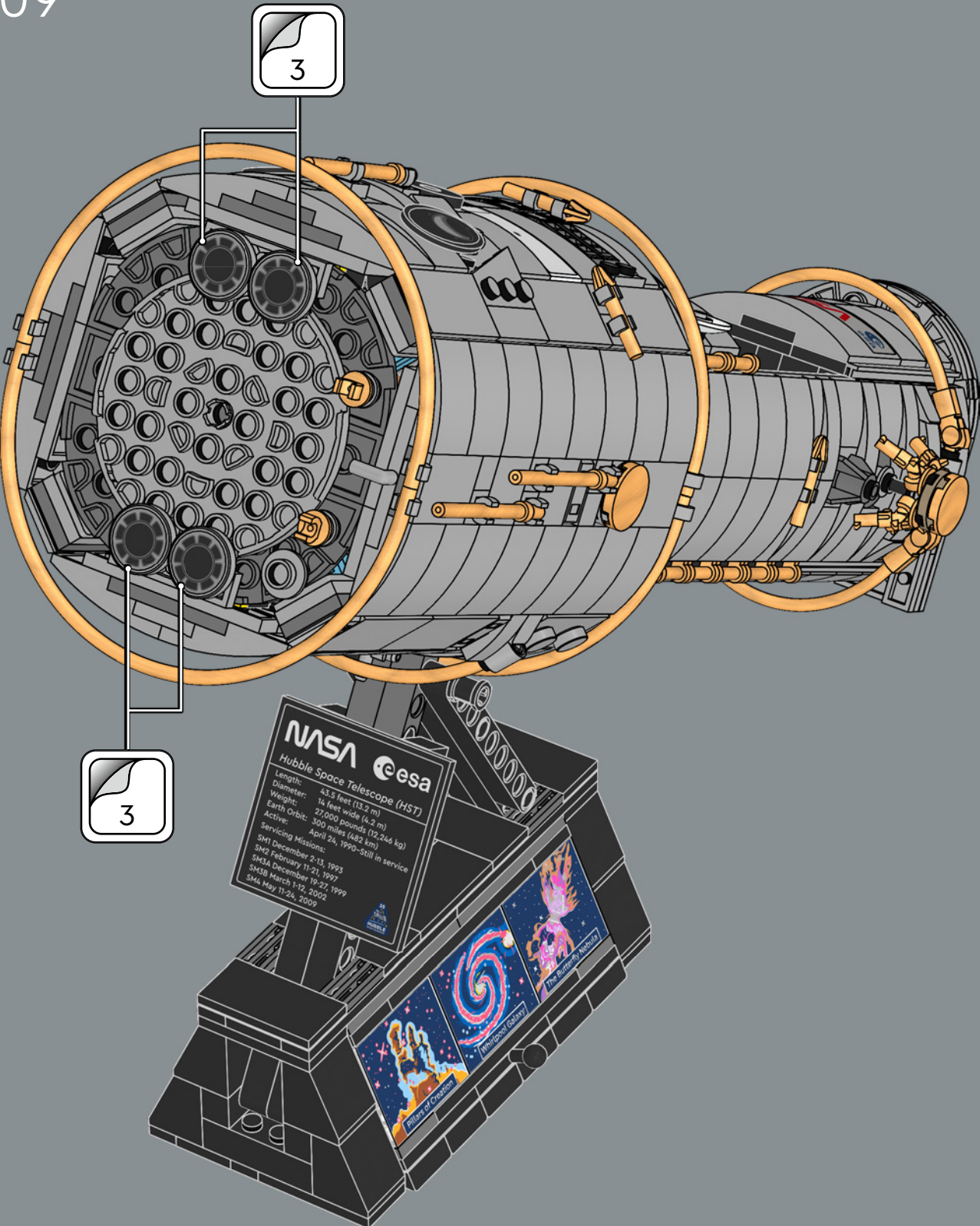


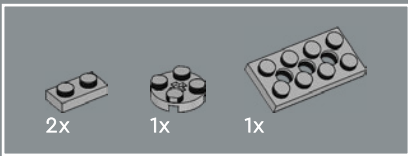


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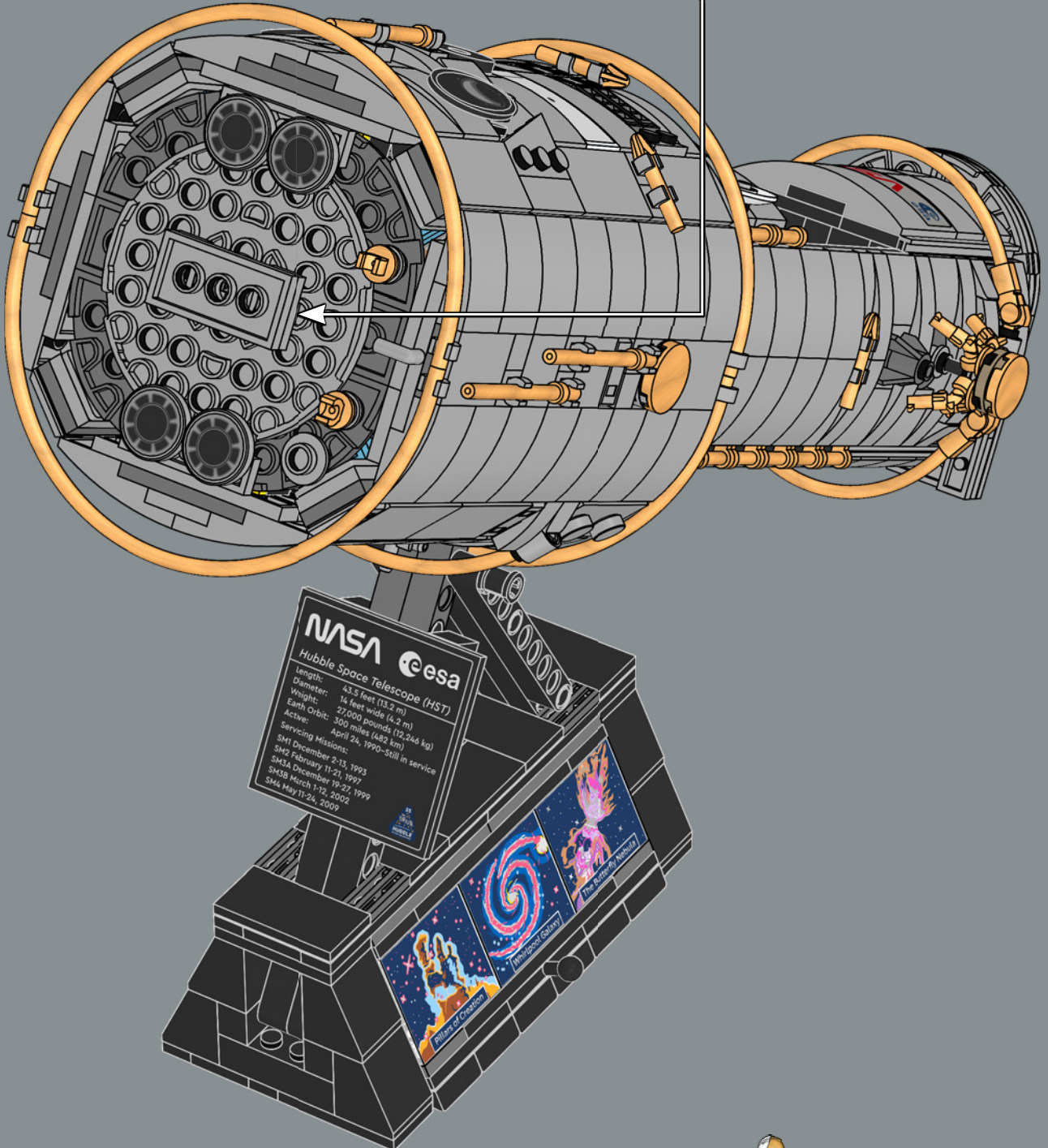
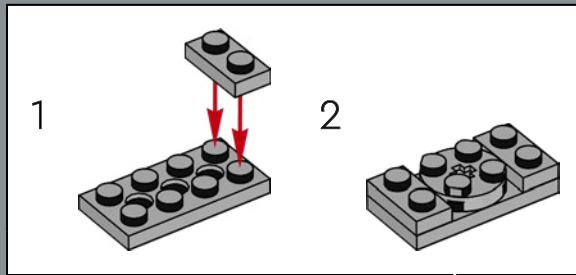
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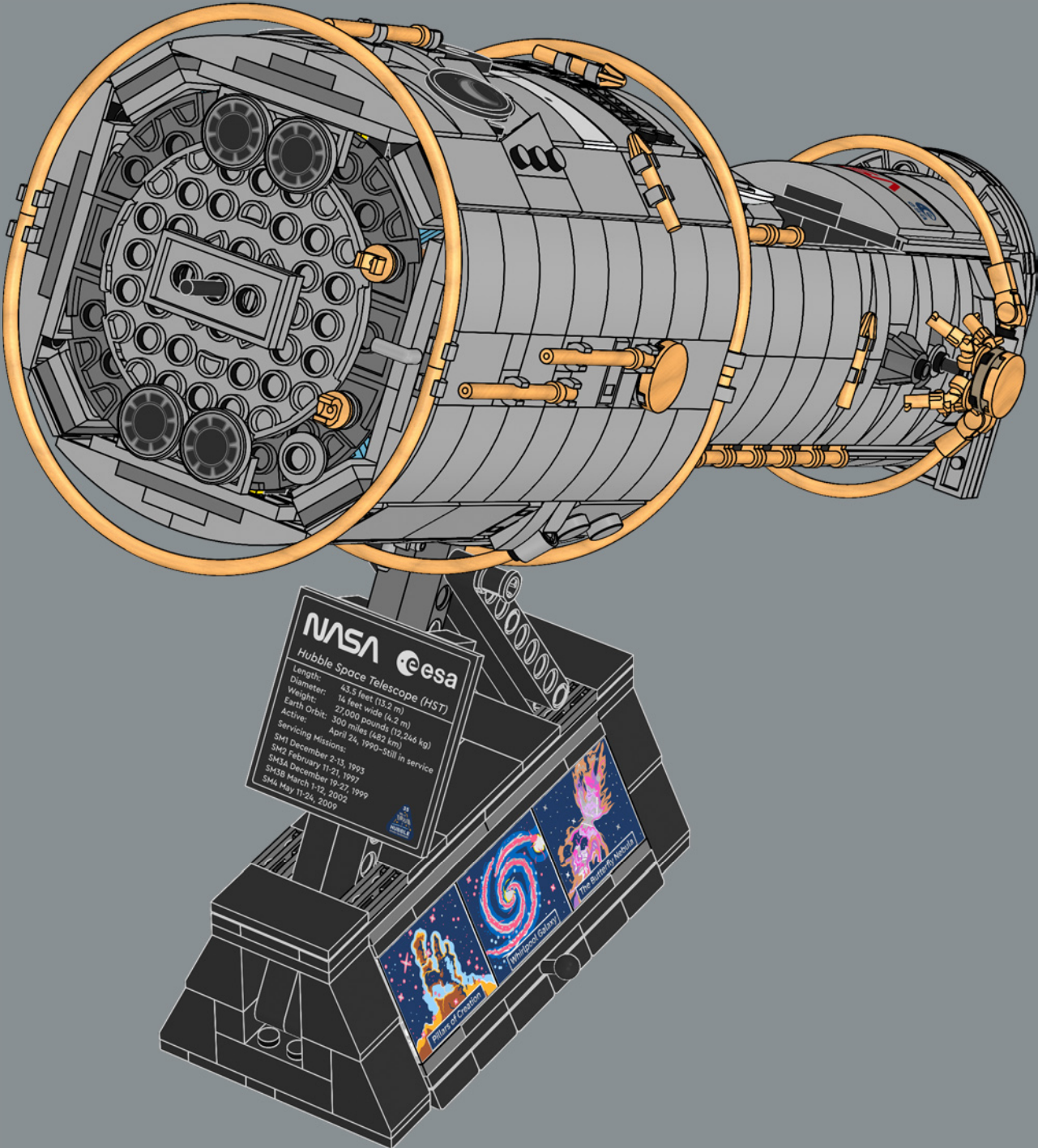


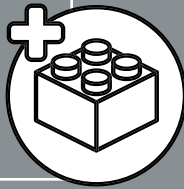
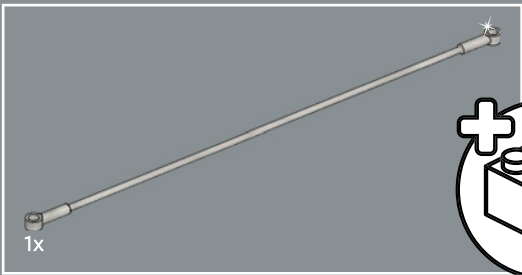
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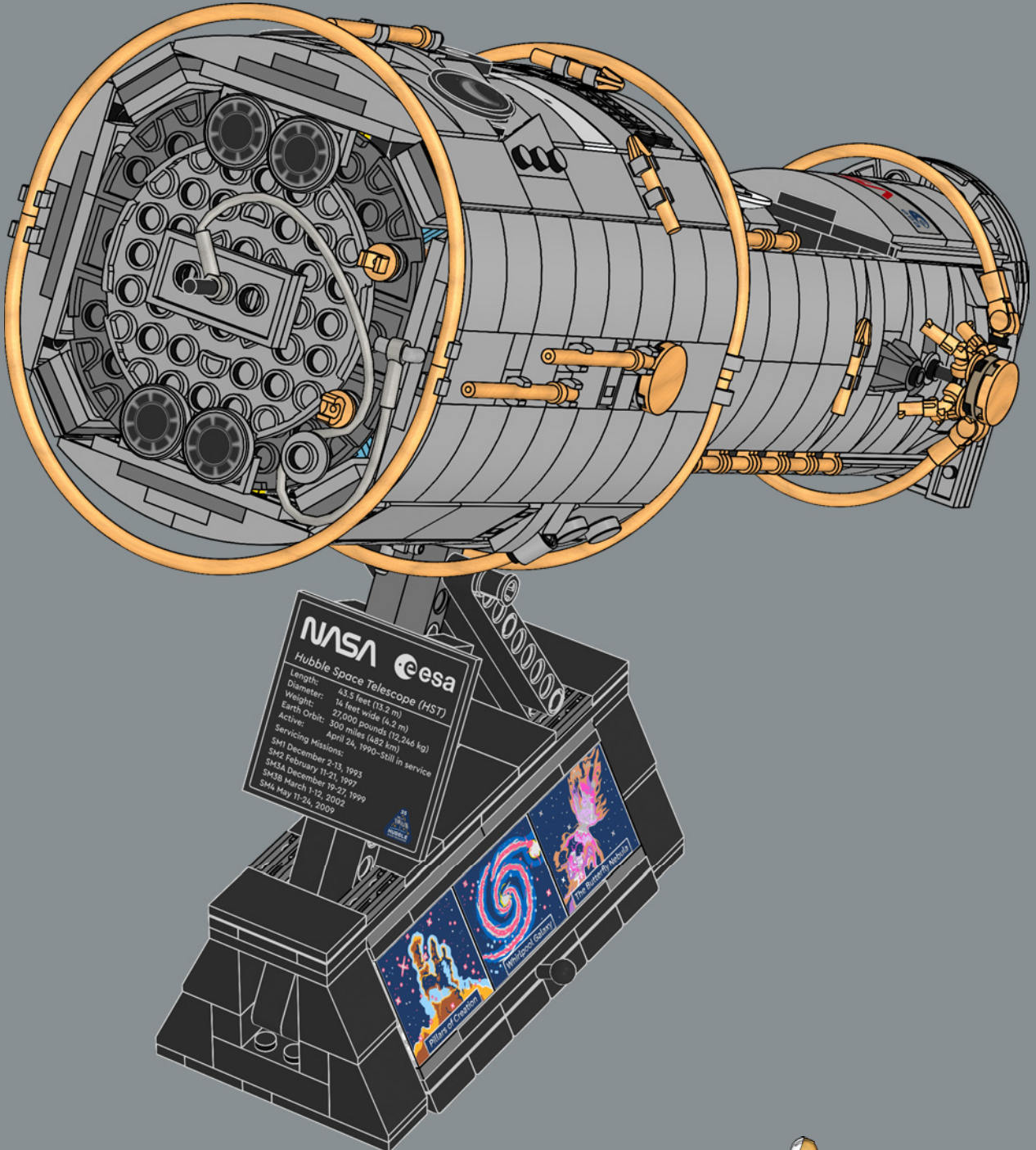


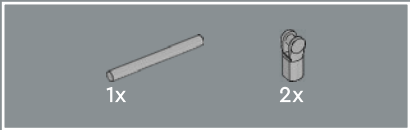
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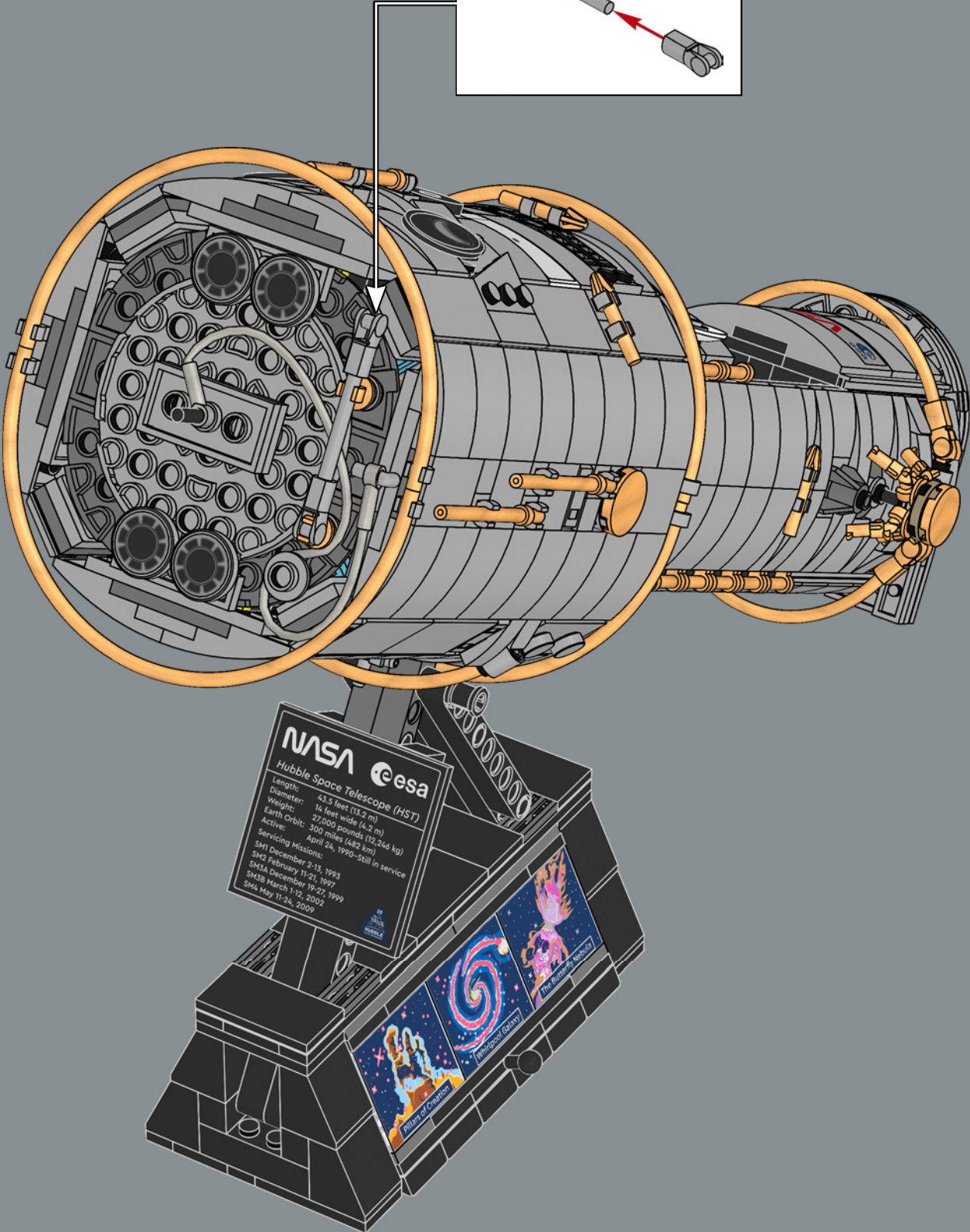
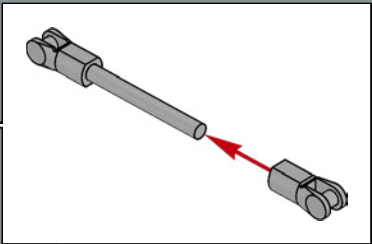


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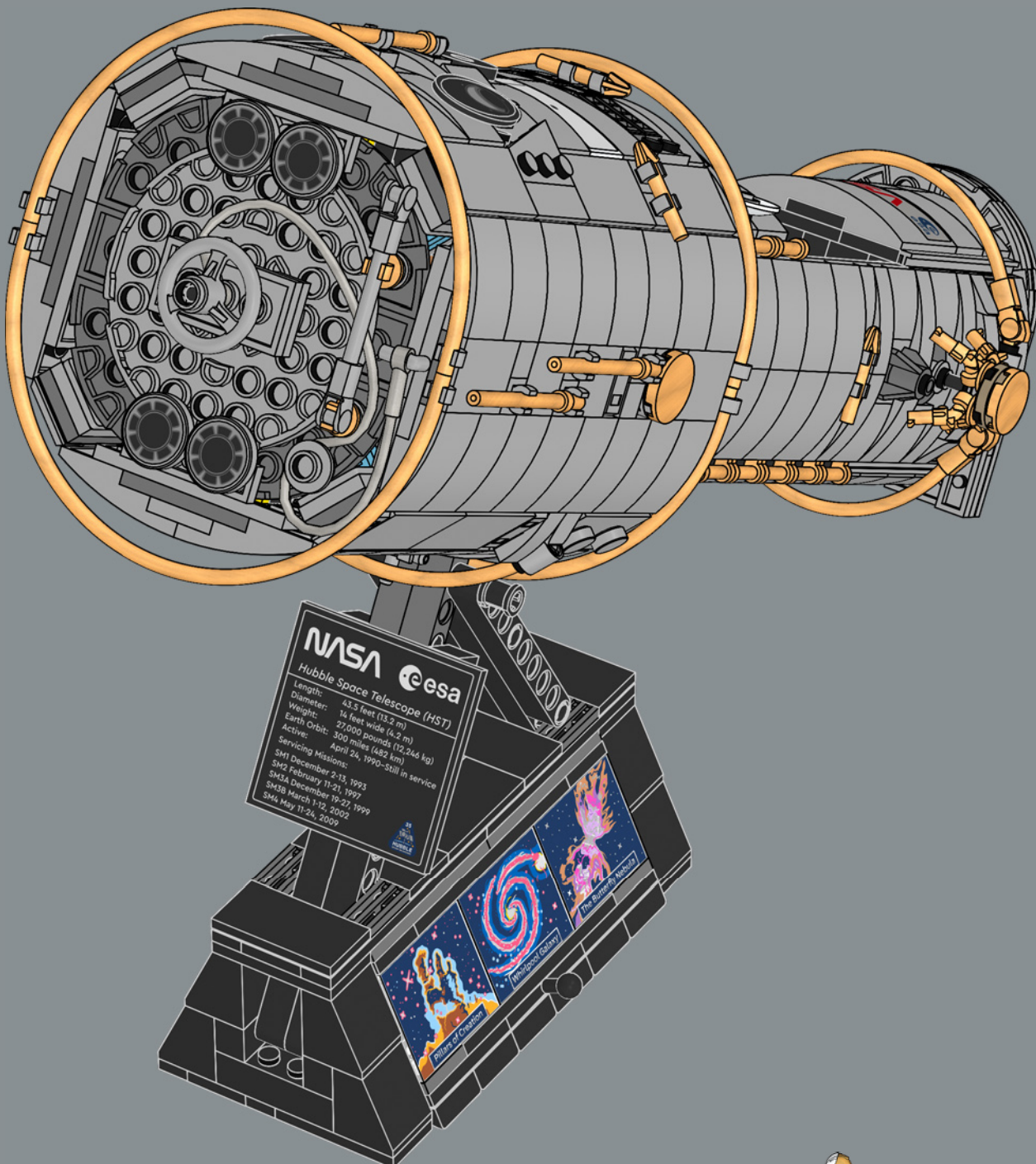
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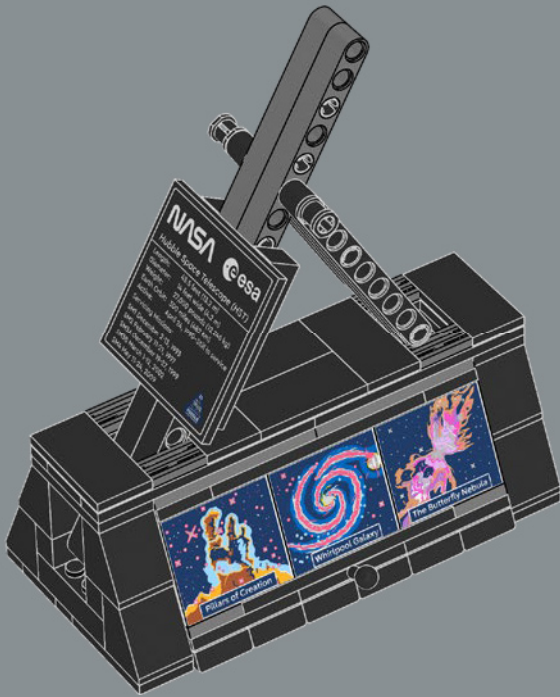
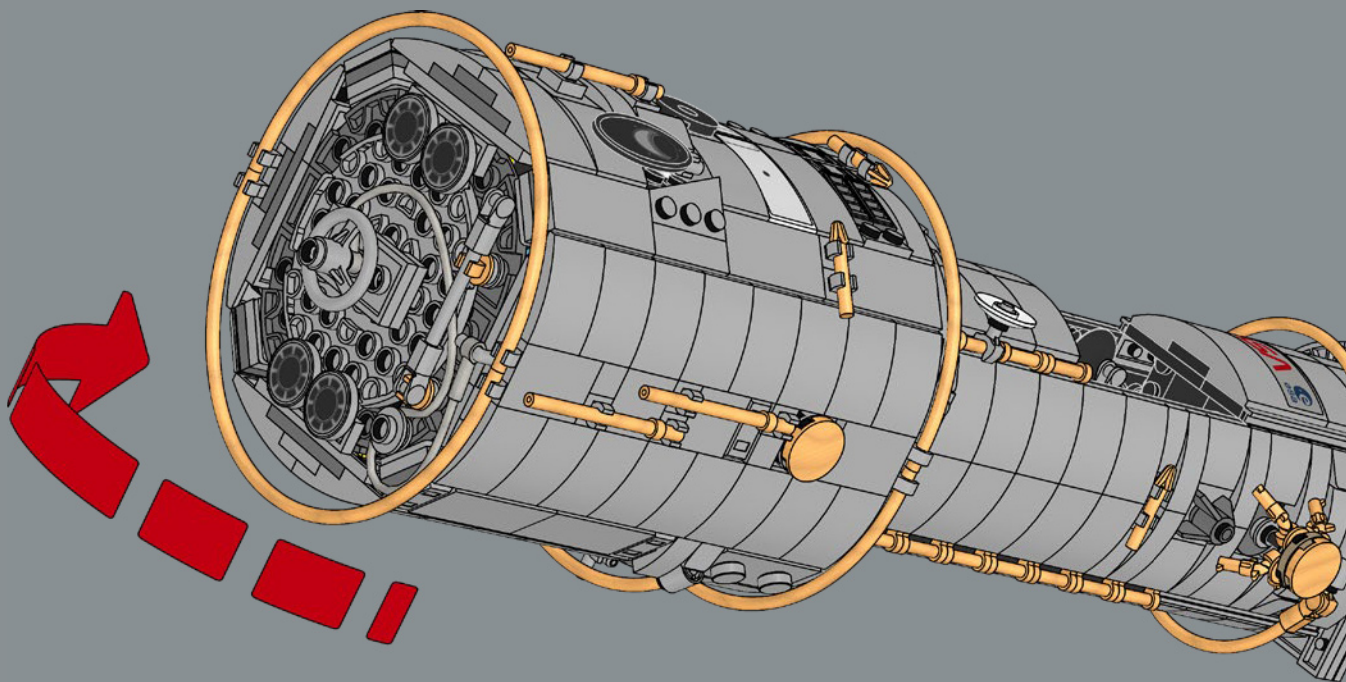


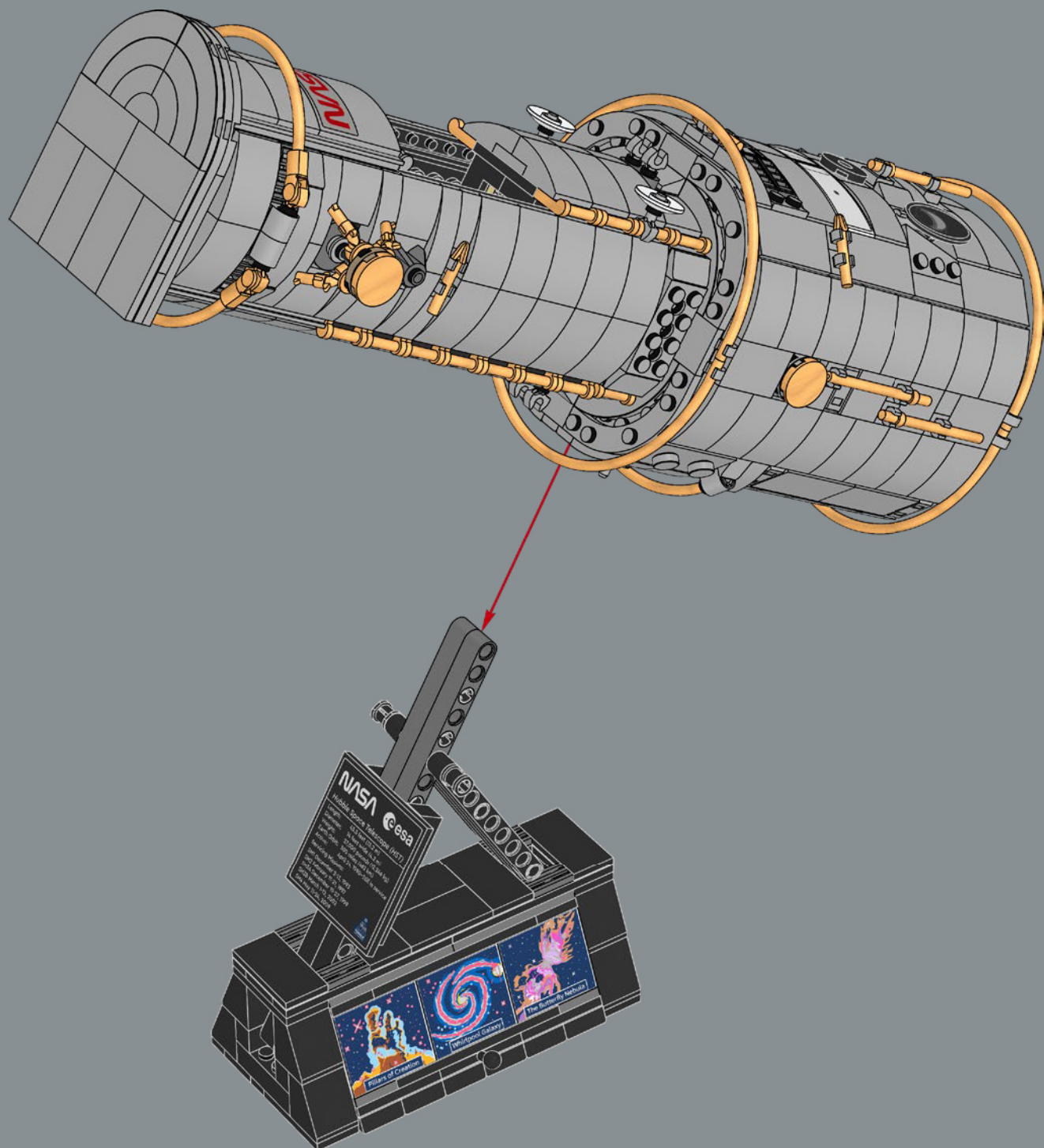


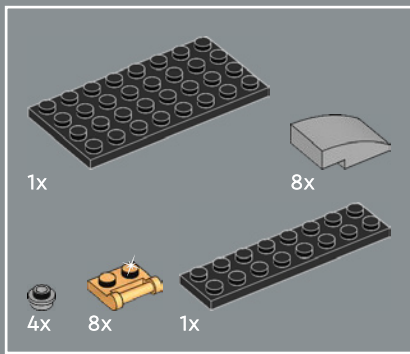
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314



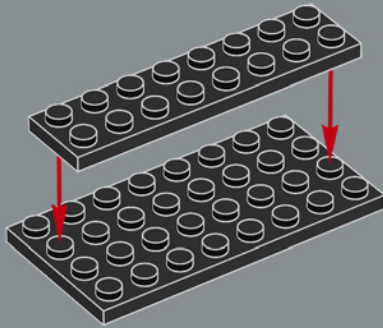




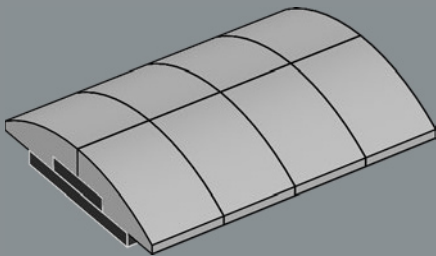


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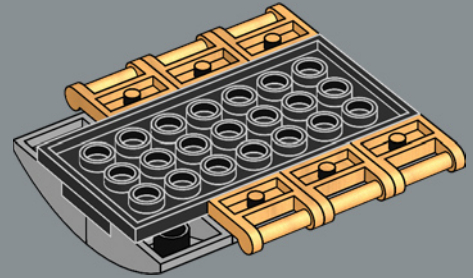
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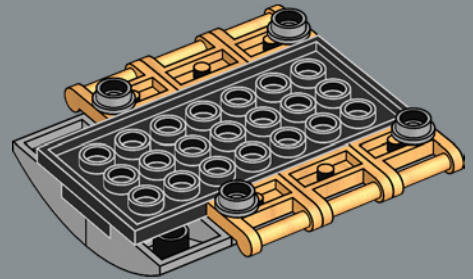
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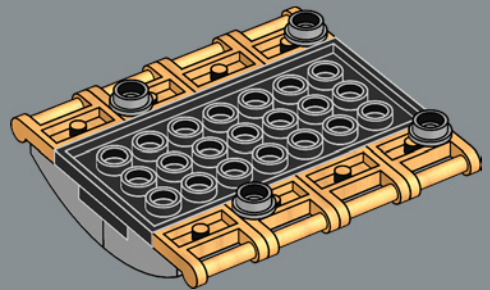
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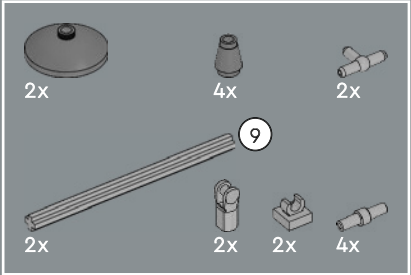
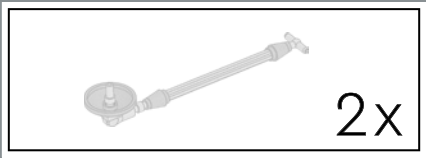


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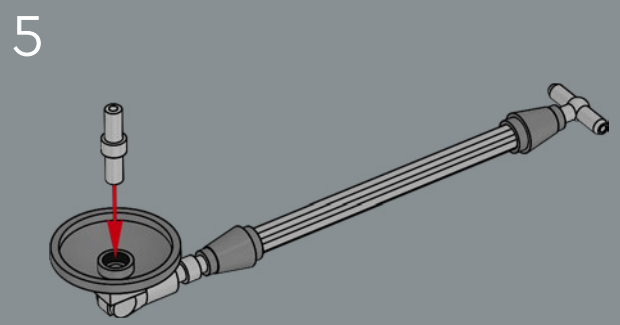
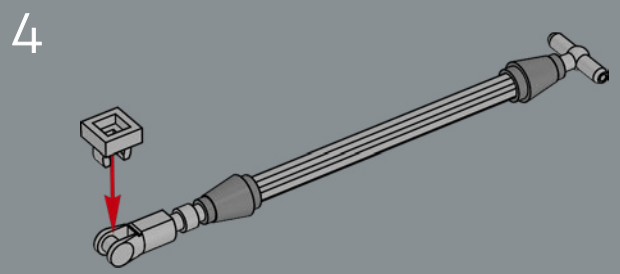
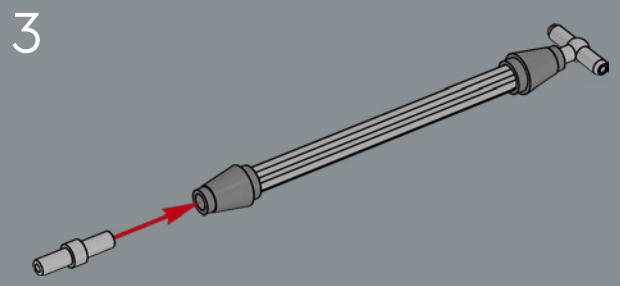
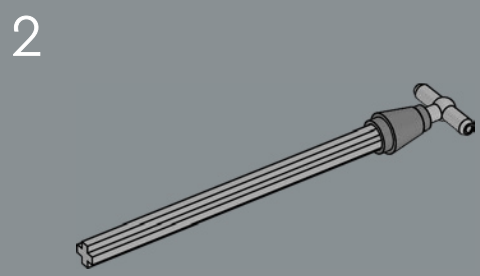
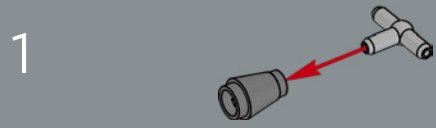


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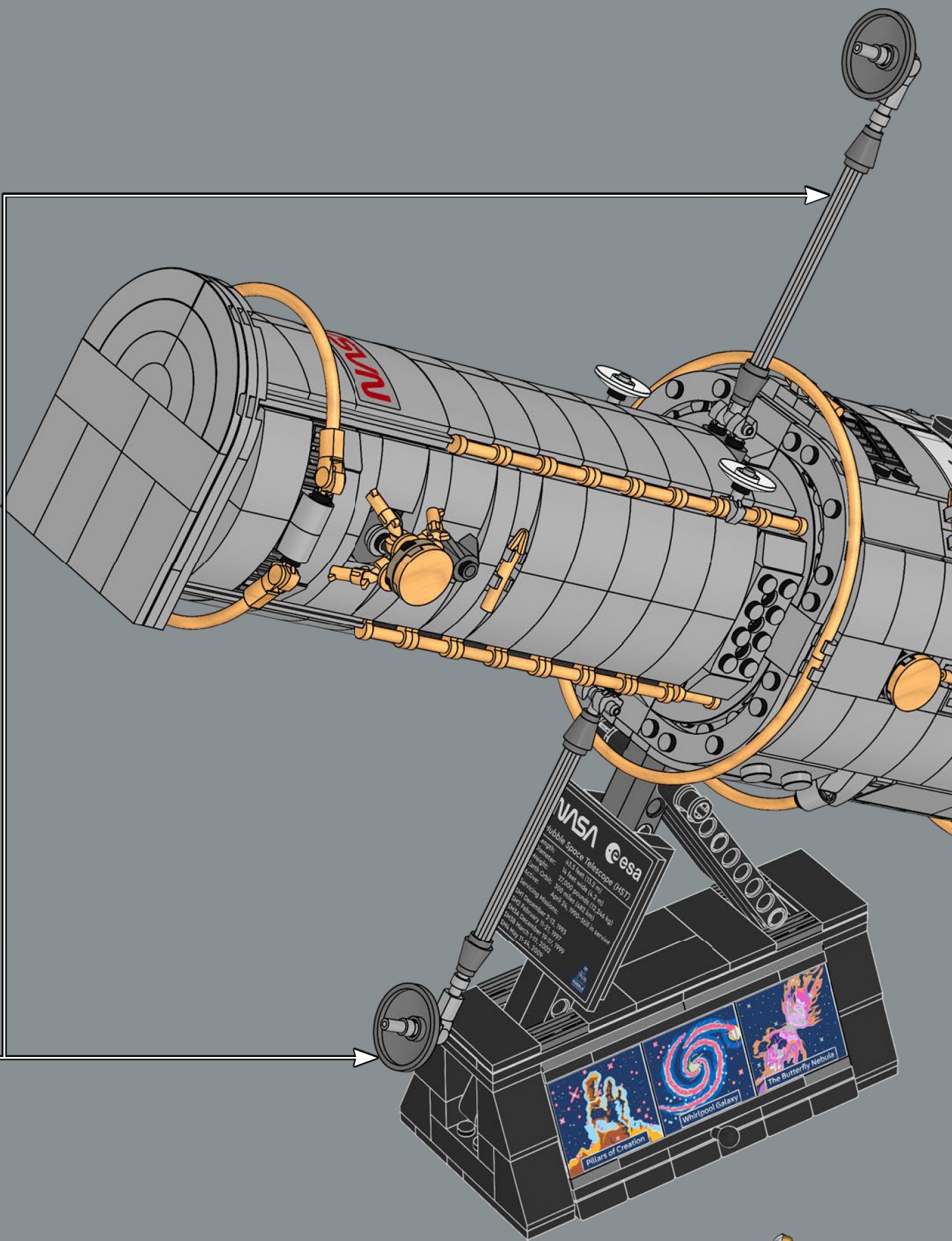


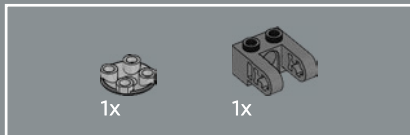
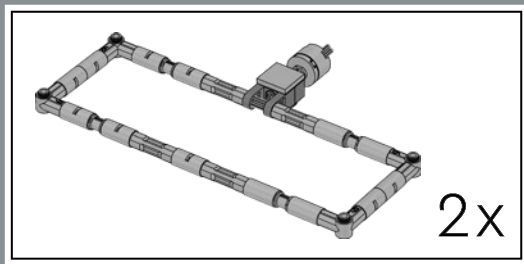
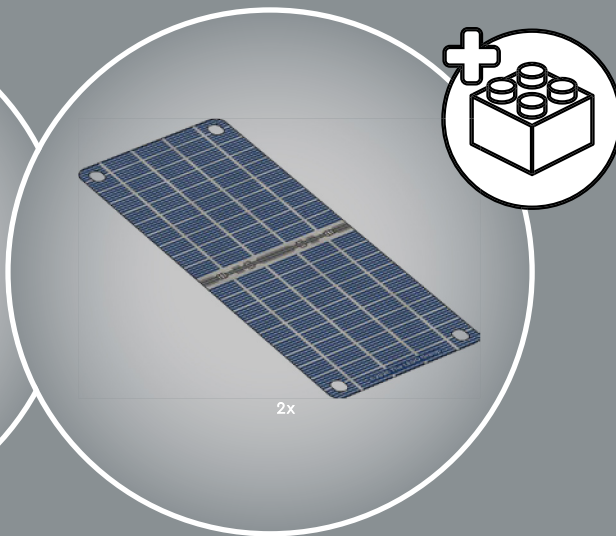
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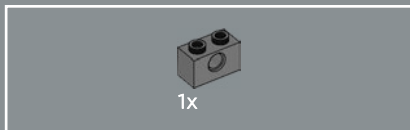
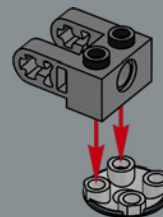
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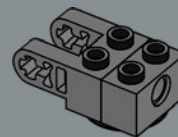


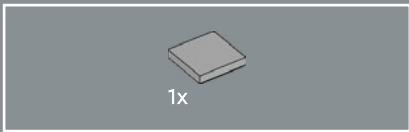


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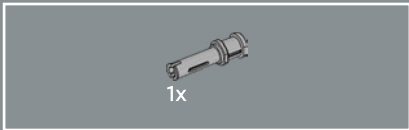
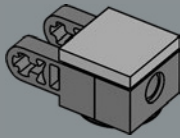


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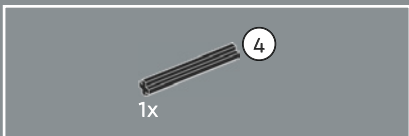
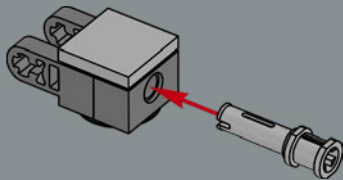




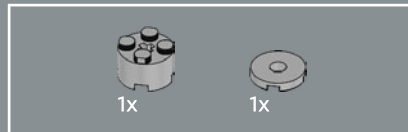
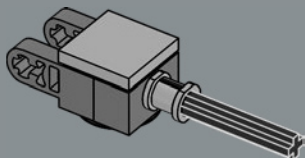
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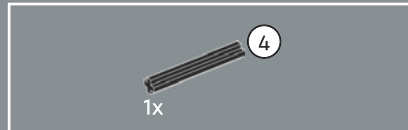
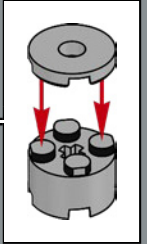
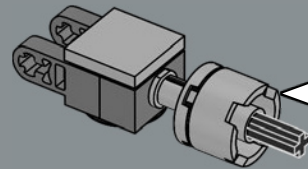
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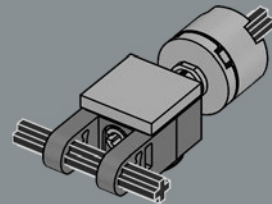
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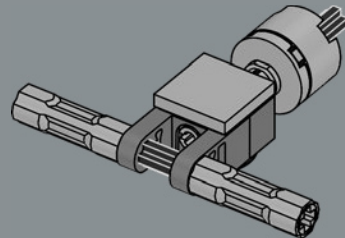
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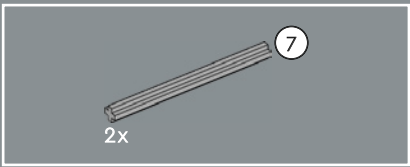


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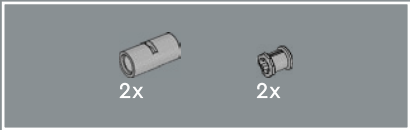
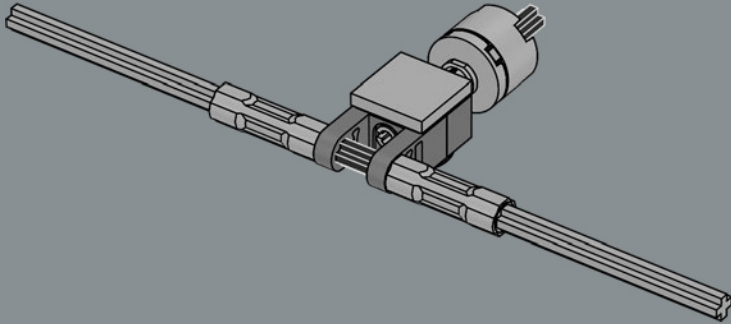


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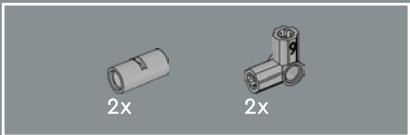
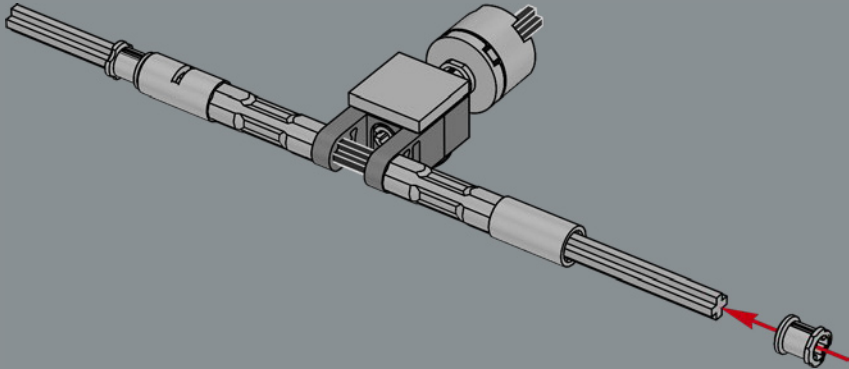




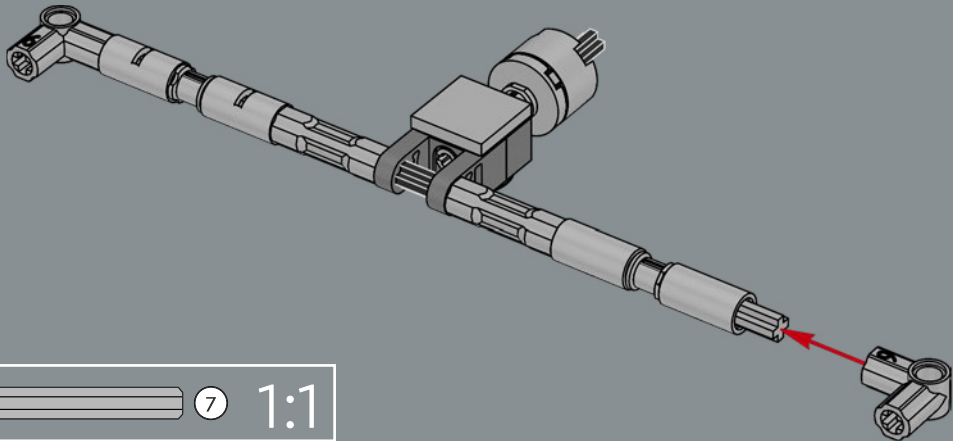
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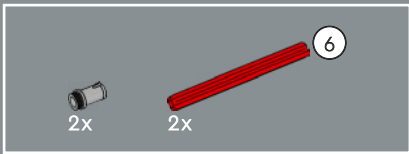


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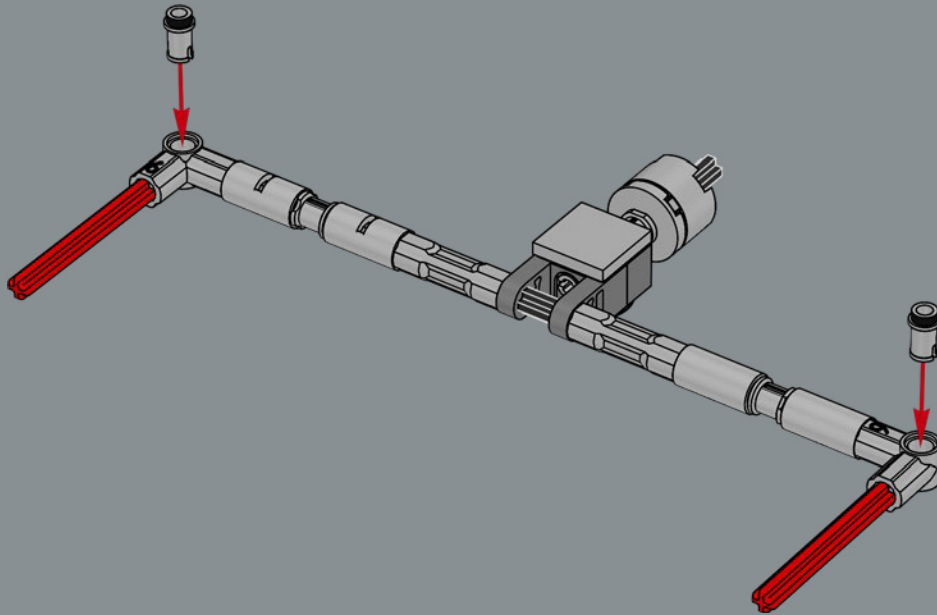


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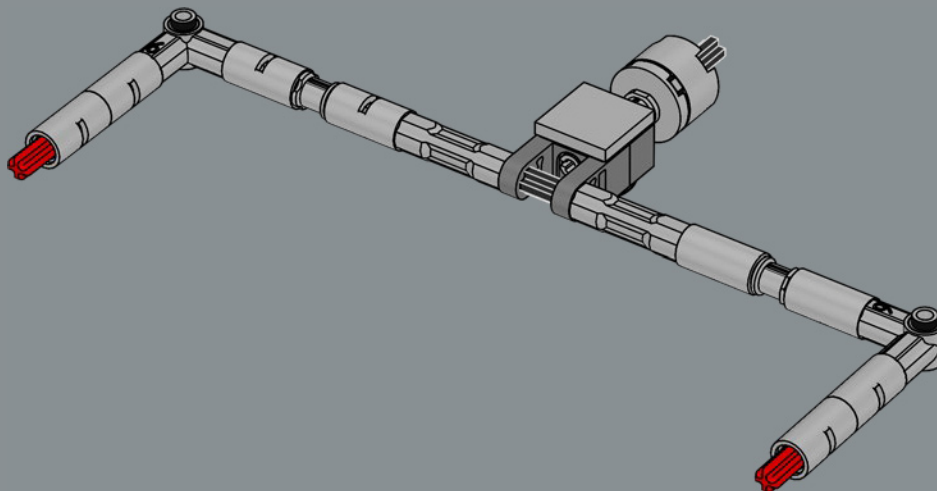


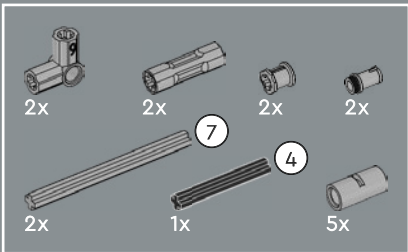
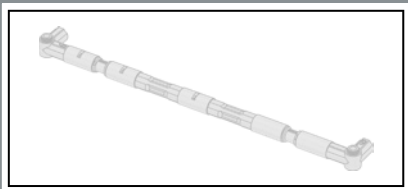


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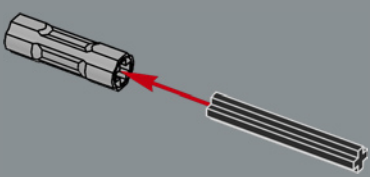
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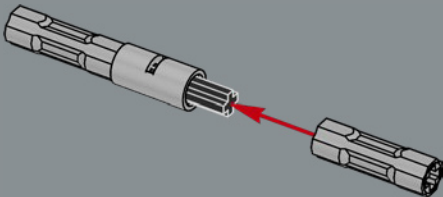


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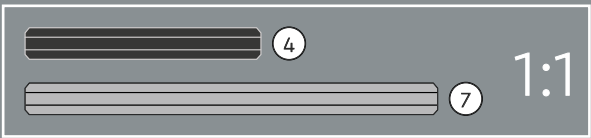
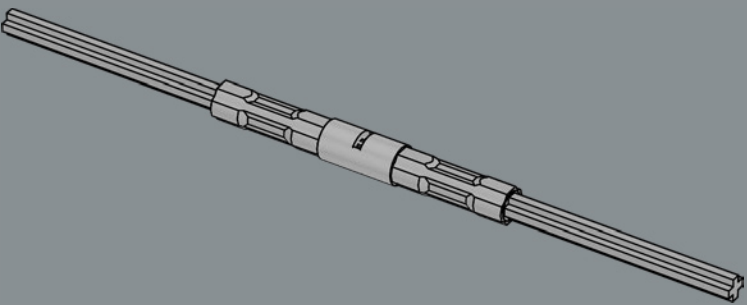
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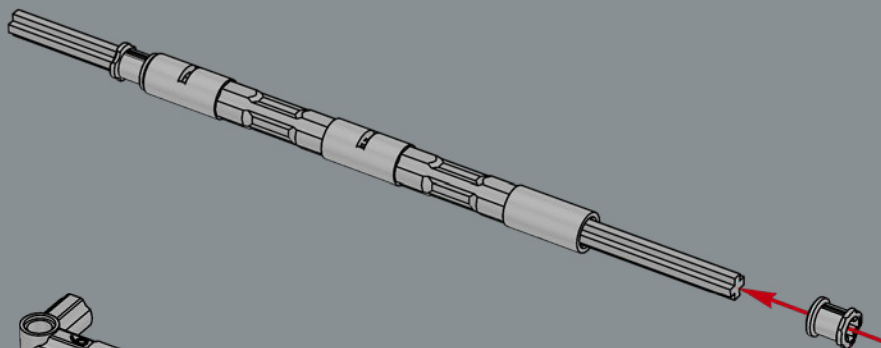
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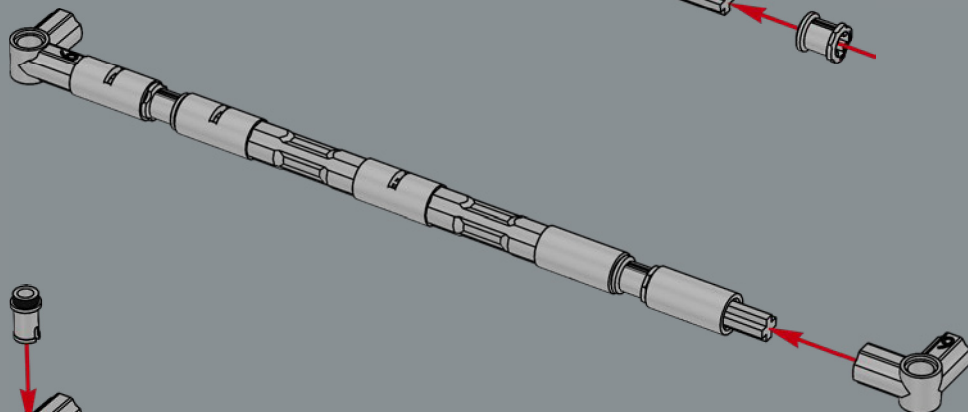
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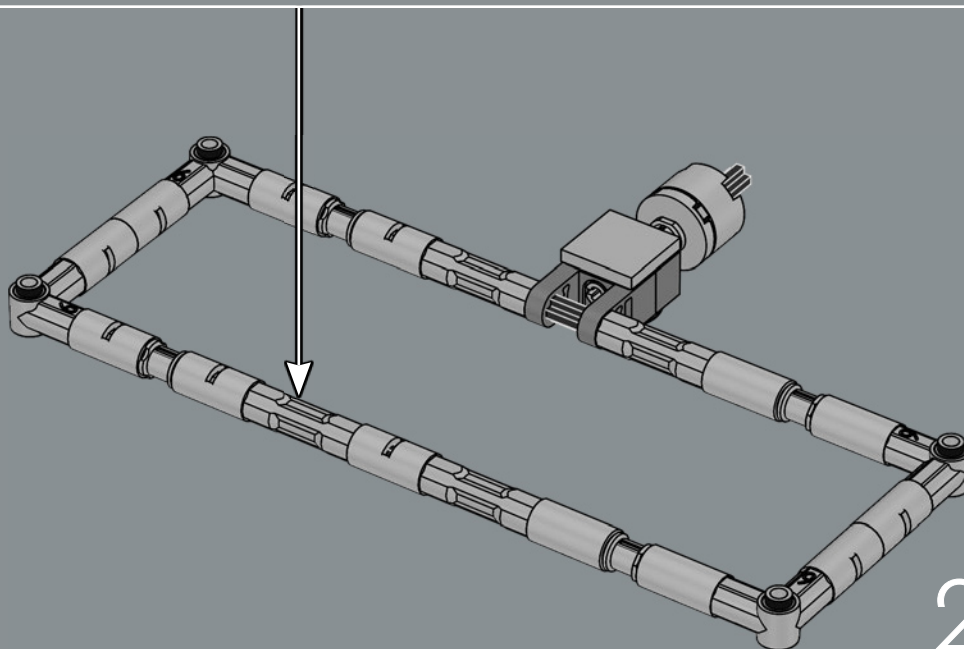
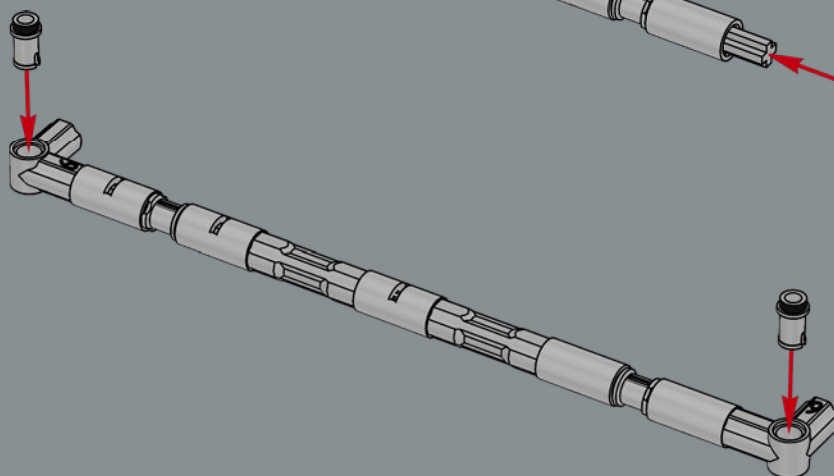
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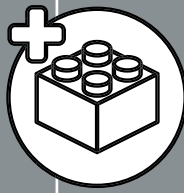
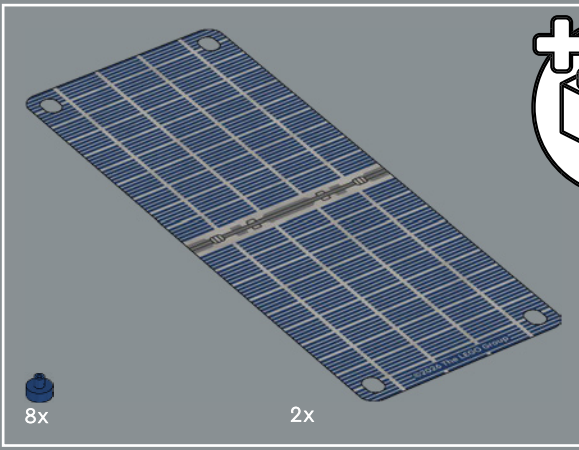


6



2x

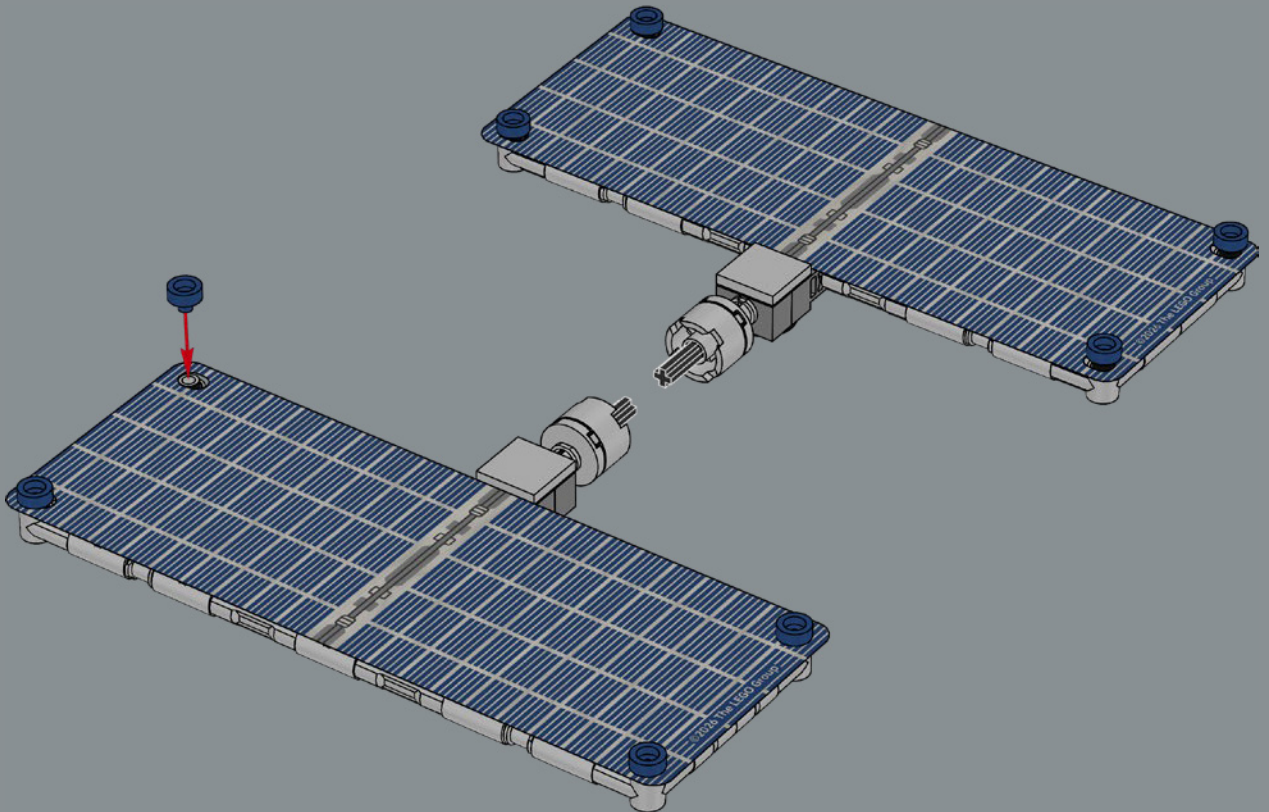


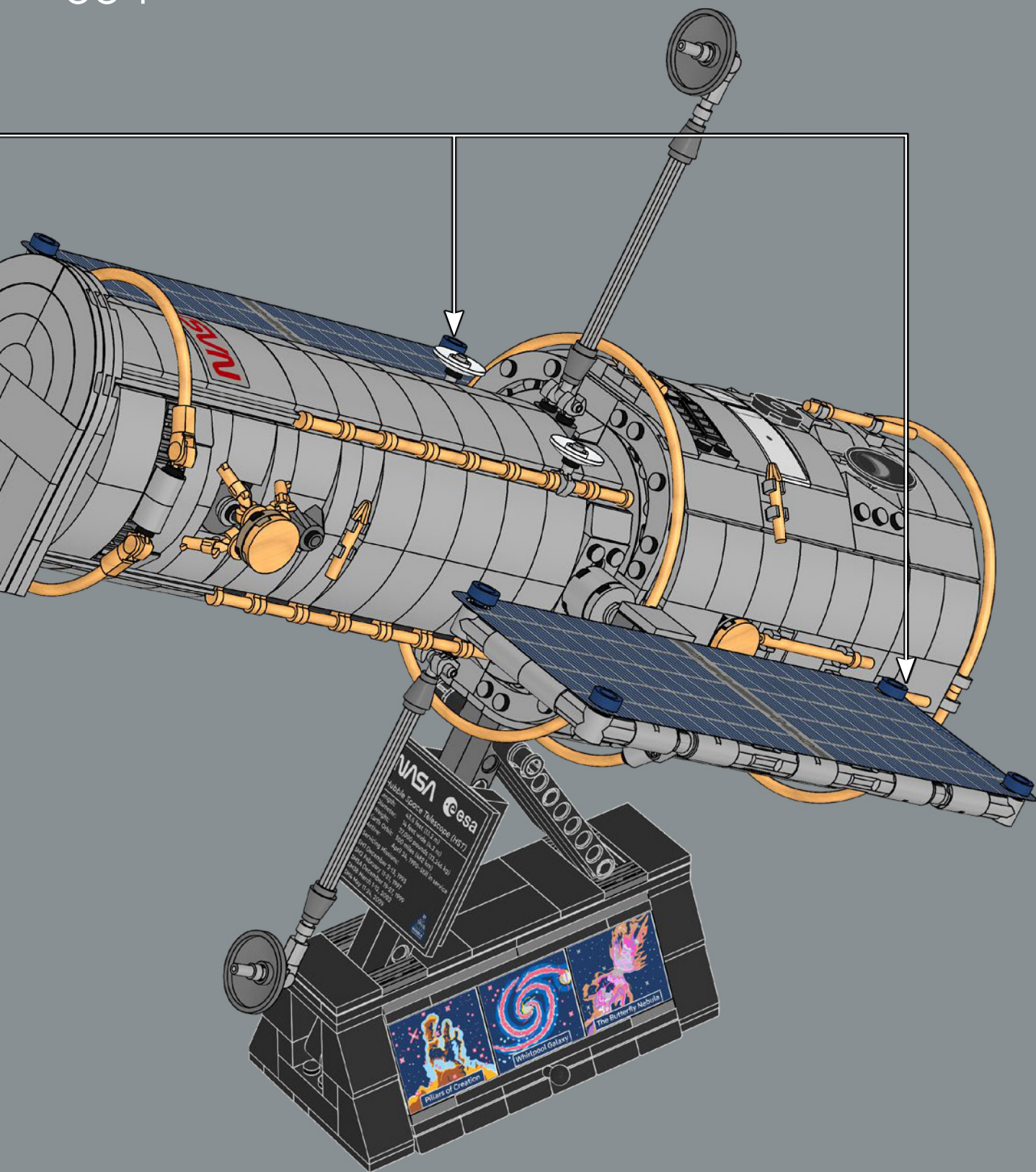


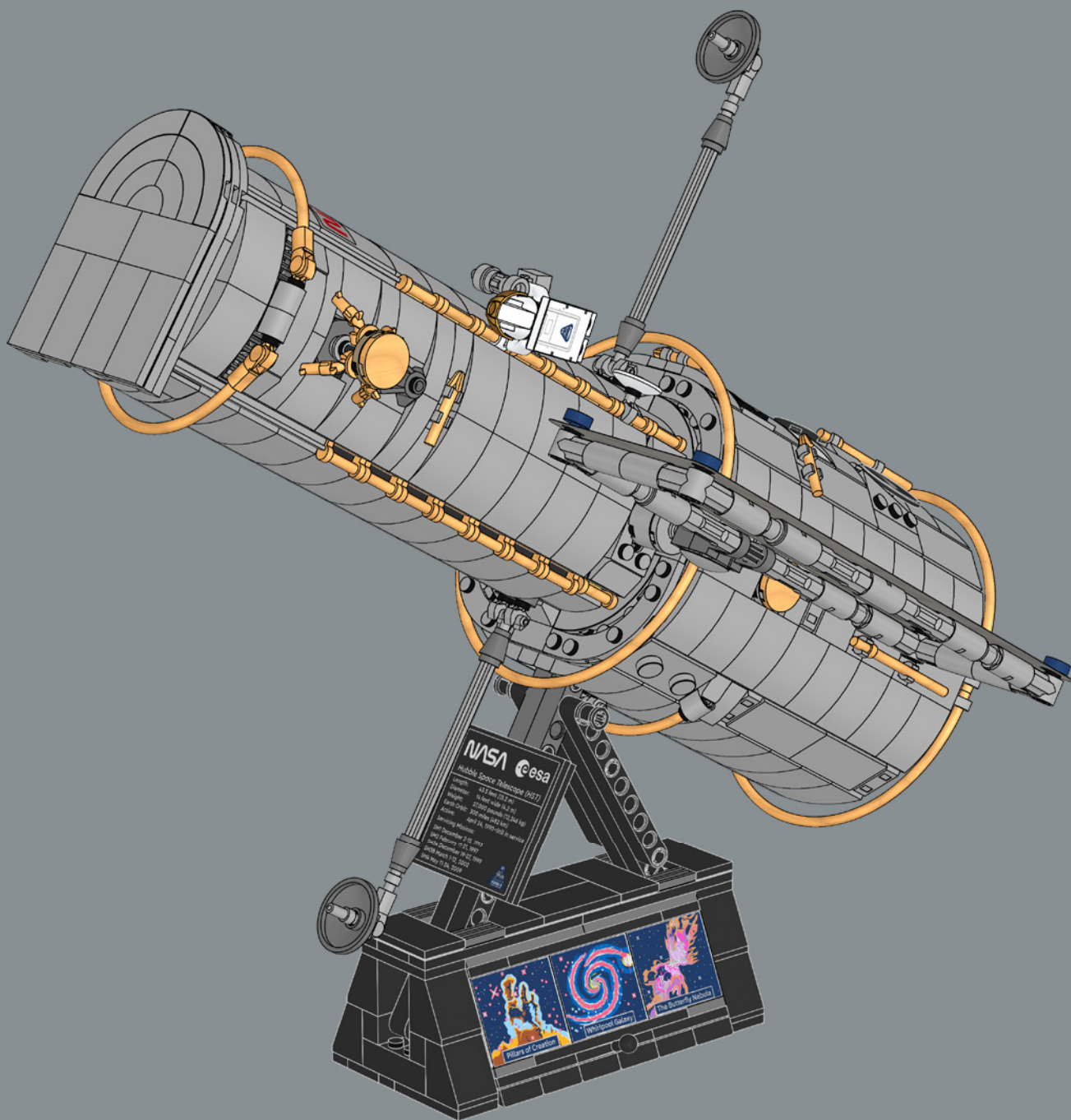
Los paneles solares del Hubble se cambiaron dos veces. Para este modelo, hemos elegido la versión más reciente, instalada durante la SM3B en 2002.



333







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

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

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

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

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

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

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

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3x 6383177



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