



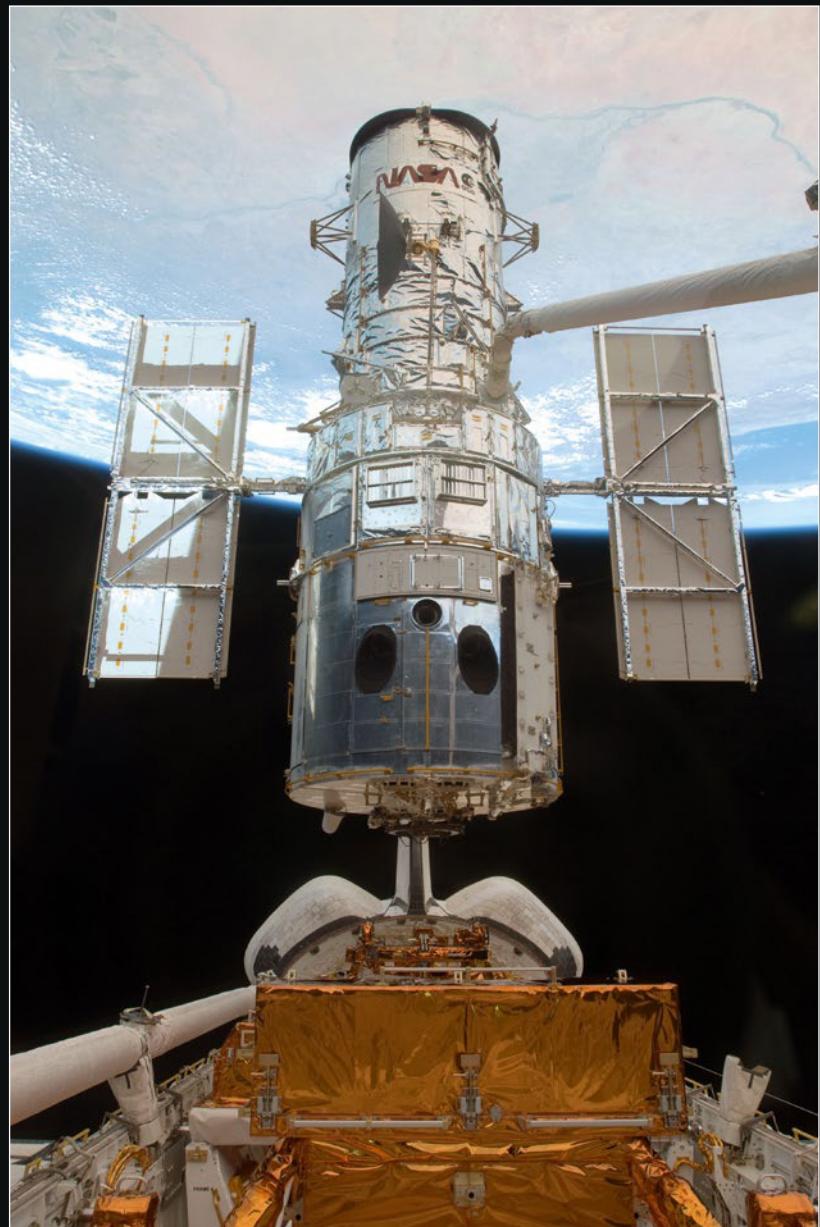
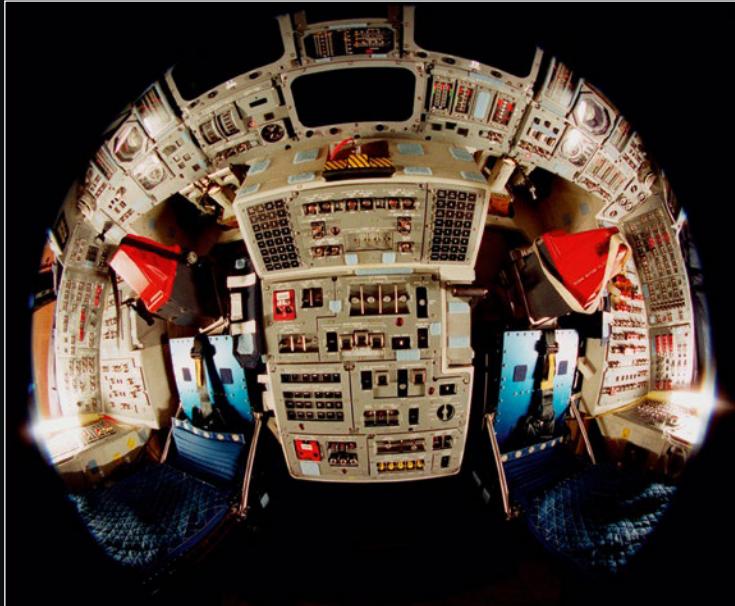


## UN ICONO DE LOS VUELOS ESPACIALES

Columbia, Challenger, Discovery, Atlantis y Endeavour. Así se llamaban los cinco orbitadores de los transbordadores espaciales que formaban la flota creada por la NASA en su programa Sistema de Transporte Espacial (STS, por sus siglas en inglés). En conjunto, realizaron 135 misiones y transportaron al espacio a 355 personas. El Discovery tiene el récord de misiones y pasajeros, y ha viajado más lejos y más alto que los demás orbitadores. También le correspondió al Discovery lanzar y desplegar el telescopio espacial Hubble en abril de 1990, encargo que recibió en la misión STS-31. En 2021, año en el que se conmemora el 40 aniversario del Programa de Transbordadores Espaciales, aprovechamos la oportunidad para reencontrarnos con esta famosa misión.

## LA MISIÓN

El lanzamiento y despliegue del telescopio espacial Hubble en abril de 1990 representó el avance más significativo en el campo de la astronomía desde el telescopio de Galileo. Fue el primer gran telescopio óptico puesto en órbita en el espacio, la *cumbre* por excelencia. Por encima y más allá de la distorsión atmosférica, las nubes de lluvia y la contaminación lumínica de la Tierra, el Hubble tenía una vista panorámica del universo completamente despejada. Los científicos han usado el Hubble para observar las estrellas y las galaxias más distantes, así como los planetas de nuestro sistema solar.



## IMPRESIONES DEL EQUIPO DE DISEÑO

*El transbordador espacial es uno de los vehículos más complejos que se hayan construido; por ese motivo, convertirlo en un set LEGO® fue una tarea abrumadora. Teníamos que crear un exterior liso y un interior con capacidad para contener la carga útil, pero el principal desafío fue equiparlo con un tren de aterrizaje funcional. Intentar conectar el tren de aterrizaje principal y el frontal sin sacrificar espacio en la bodega de carga ni comprometer la estructura del modelo fue un verdadero rompecabezas! Es fácil dejarse impresionar por la compleja ingeniería y la potencia pura de estos vehículos, pero, para mí, si hay algo fascinante en los vuelos espaciales es el componente humano. Por eso mi parte favorita de este modelo son los minúsculos asientos azules que ocuparon 5 seres humanos en esta misión especial. De pequeño, pasé horas construyendo mis propias versiones del módulo lunar y del orbitador Discovery con ladrillos LEGO. Imagina qué emocionante y qué privilegio fue que me pidieran participar en este proyecto.*

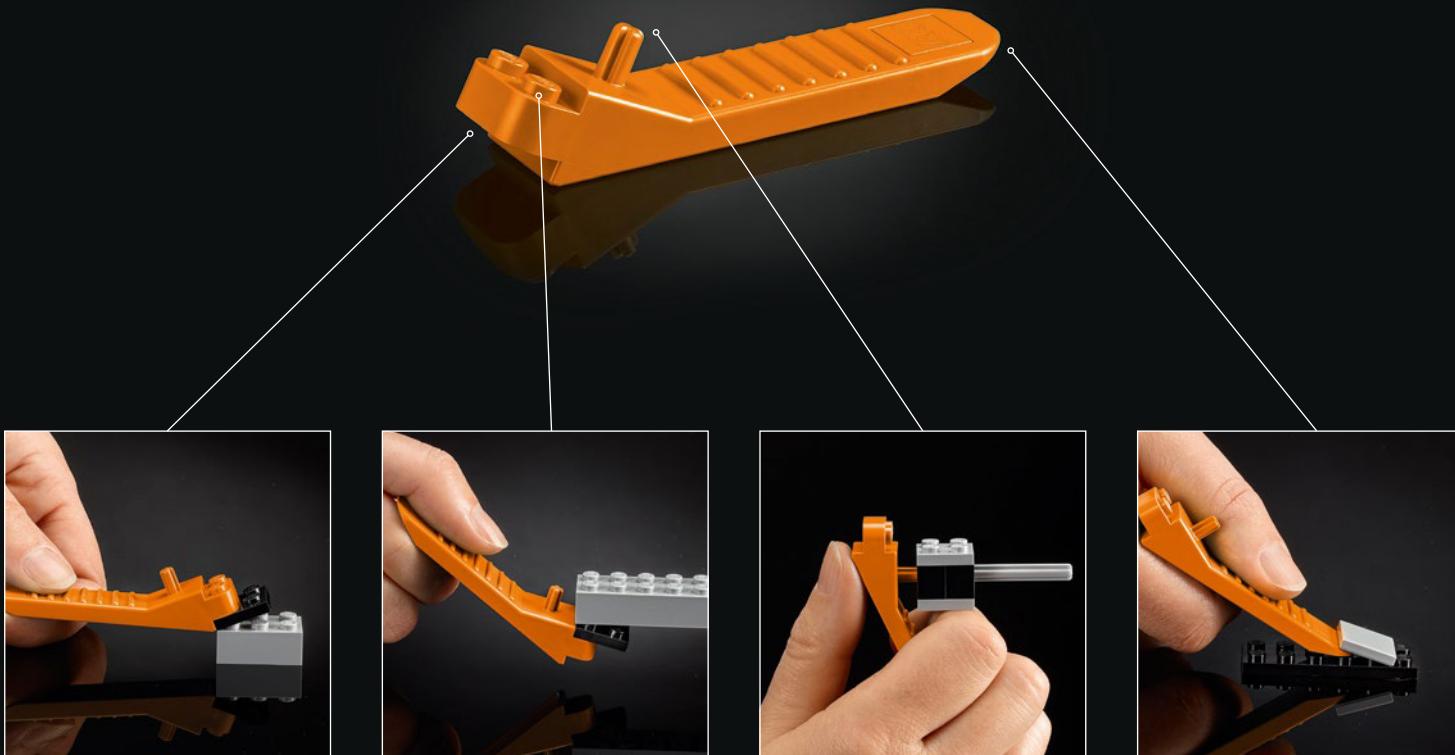
Milan Madge, diseñador de LEGO®



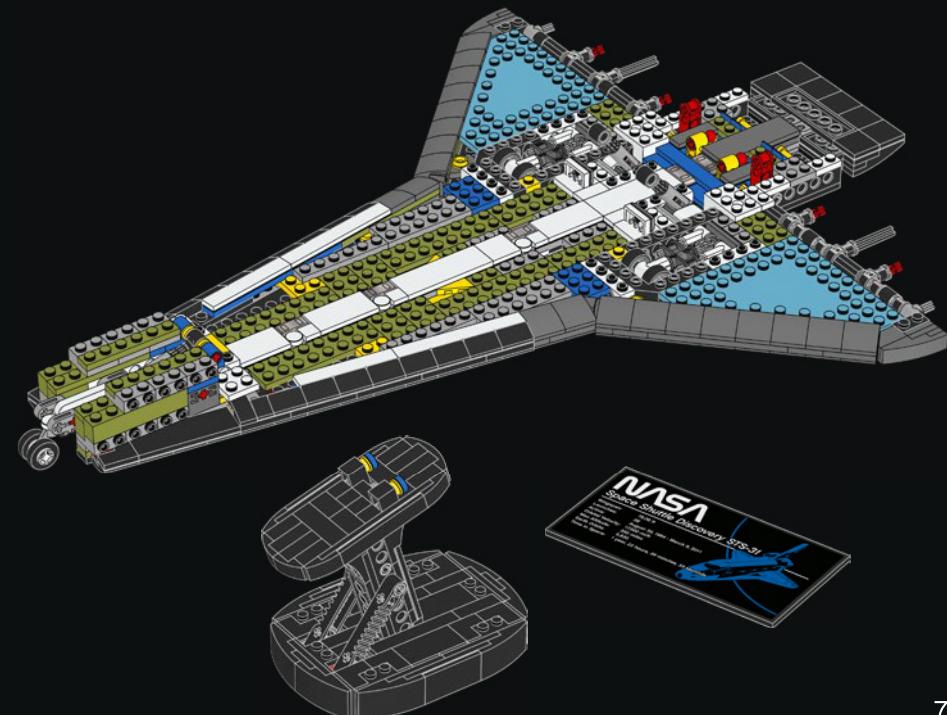
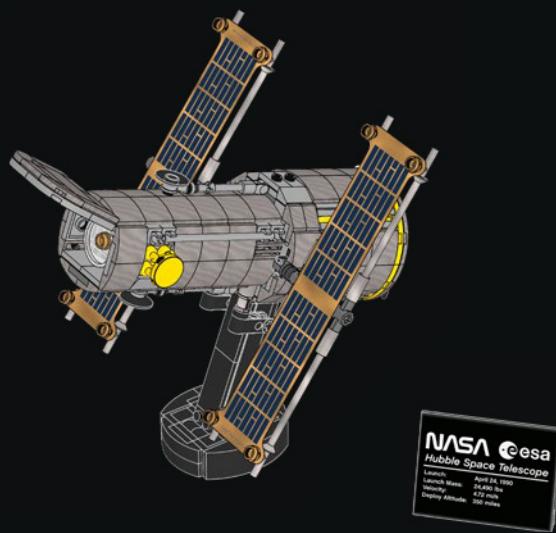
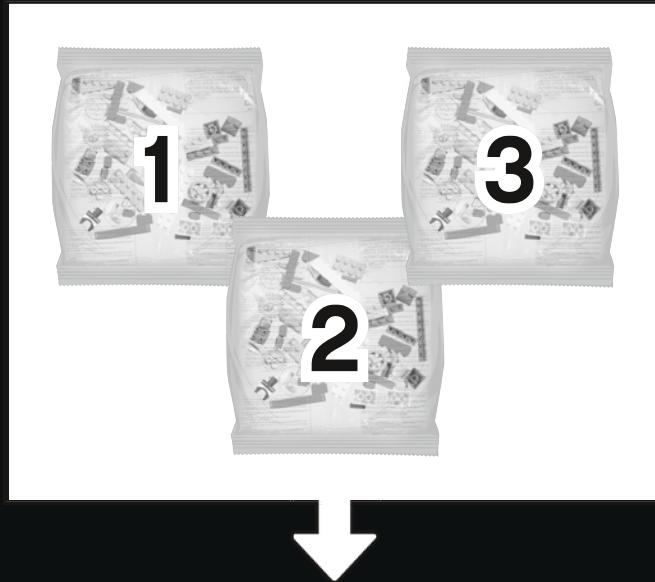


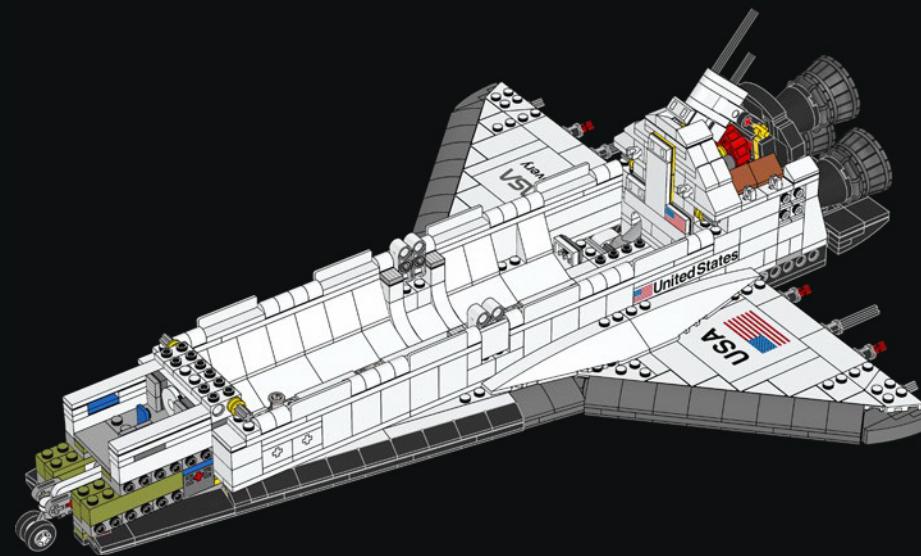
## FUTURAS INICIATIVAS

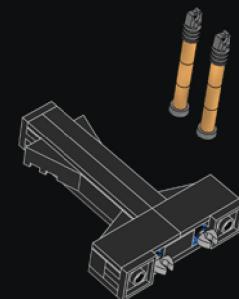
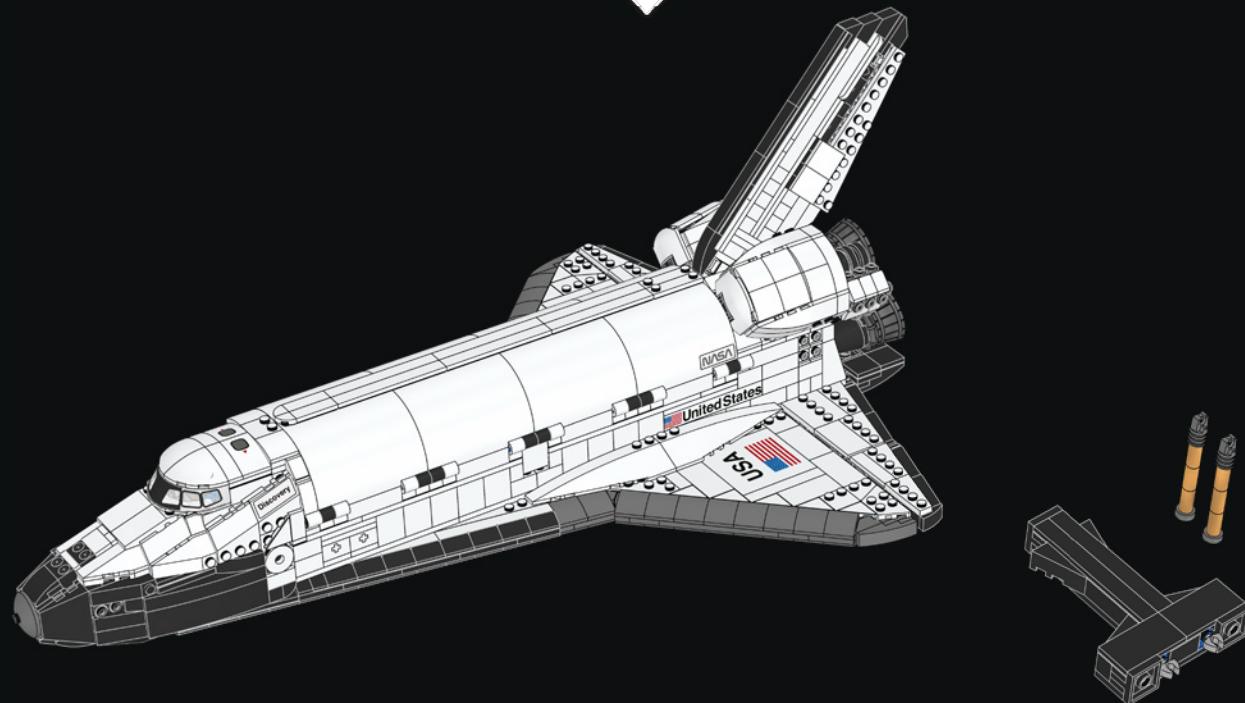
Desde la retirada del transbordador espacial en 2011, la NASA ha establecido alianzas público-privadas con las empresas Boeing y SpaceX para desarrollar y operar una nueva generación de naves espaciales y sistemas de lanzamiento capaces de transportar a tripulaciones a la órbita terrestre baja y a la Estación Espacial Internacional. Al alentar a las empresas comerciales a proporcionar servicios de transporte de personas hacia y desde la órbita terrestre baja, la NASA puede enfocarse en ampliar sus operaciones a la construcción de naves espaciales y cohetes para misiones a la Luna y Marte, el siguiente *gran paso*.



[LEGO.com/brickseparator](http://LEGO.com/brickseparator)







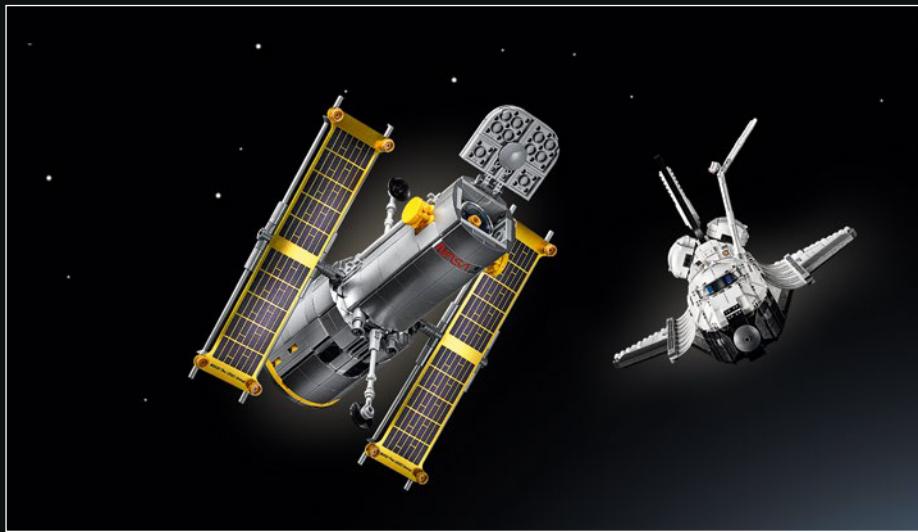
## TELESCOPIO ESPACIAL HUBBLE

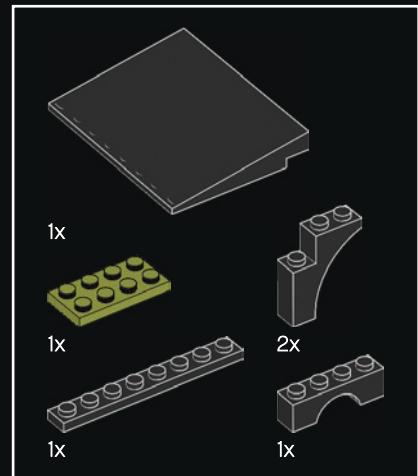
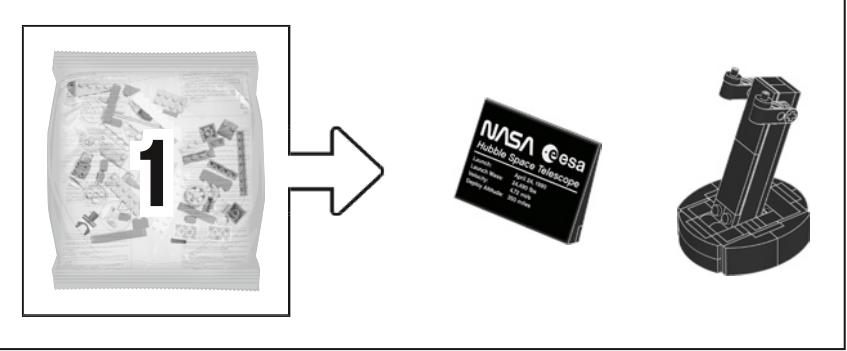
El telescopio espacial Hubble fue producto de la colaboración entre la NASA y su socio europeo, la Agencia Espacial Europea (ESA, por sus siglas en inglés). Desde su estratégica posición a aproximadamente 550 km sobre la Tierra, el telescopio de 13,2 m de longitud y 4,2 m de anchura puede detectar luz con unos ojos que superan ahora en más de 20 veces la definición de los mejores telescopios instalados en la superficie terrestre.



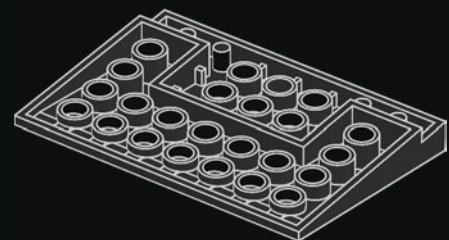
## EL PRIMER GRAN OBSERVATORIO EN EL ESPACIO

El Hubble se proyectó para pasar al menos 15 años explorando los confines más lejanos y apenas visibles del cosmos. Gracias a las cinco misiones de mantenimiento del transbordador espacial, que tuvieron lugar entre 1993 y 2009, ha rebasado con creces ese objetivo: lleva funcionando y observando el universo más de 30 años. Durante el tiempo que ha permanecido en órbita, el telescopio ha realizado más de 1,4 millones de observaciones y los astrónomos han usado esos datos para publicar más de 17.000 investigaciones científicas sobre una amplia gama de temas.

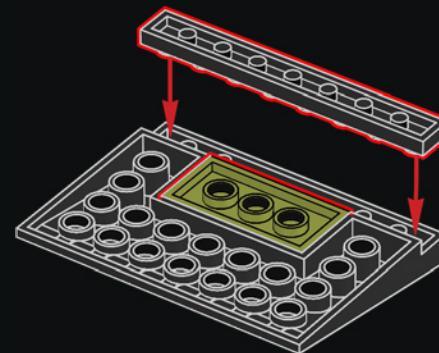




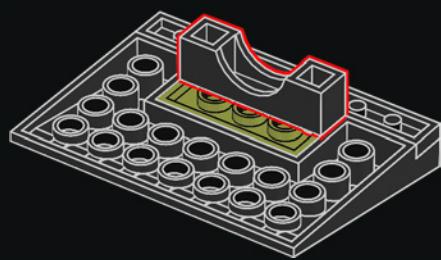
1



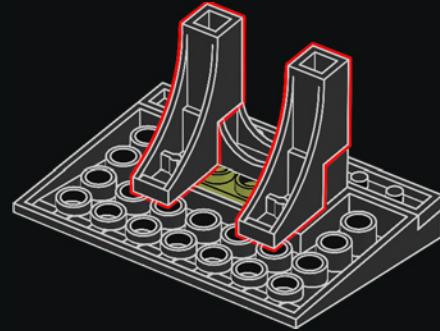
2



3

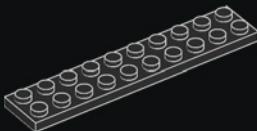


4

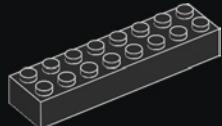
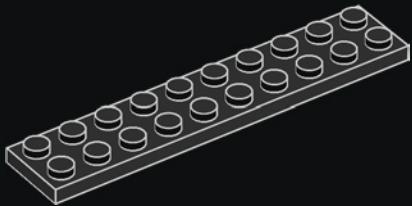


5



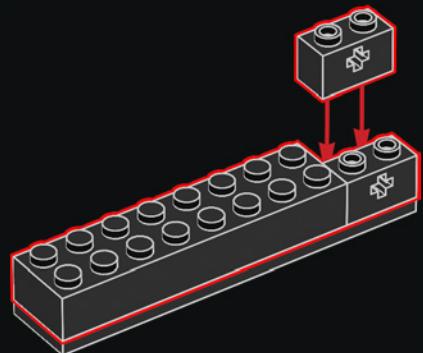


1



2x

2

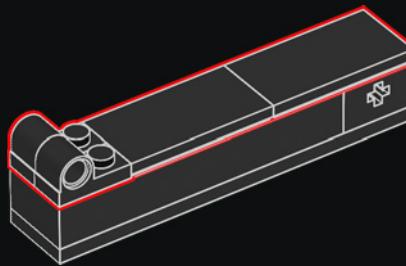


2x

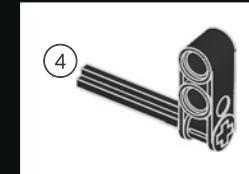


4 1:1

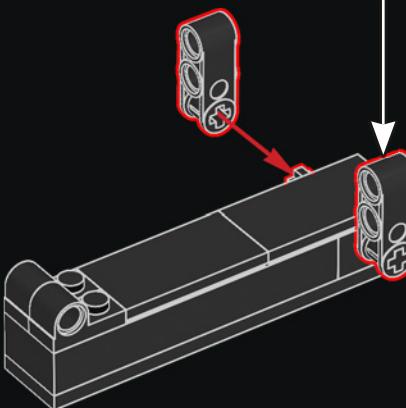
3



1x



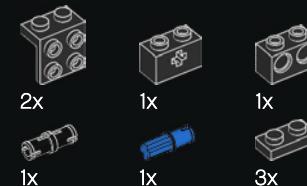
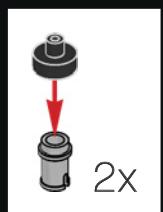
4



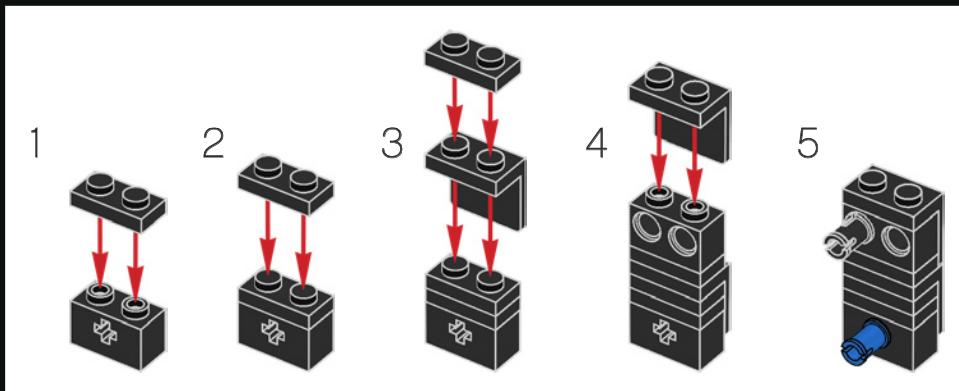
2x

2x

5

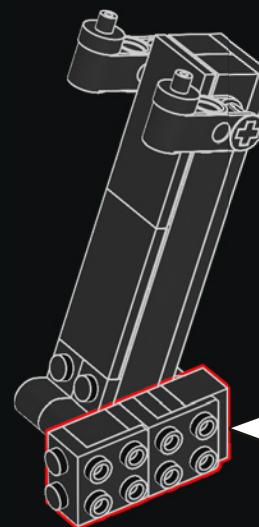
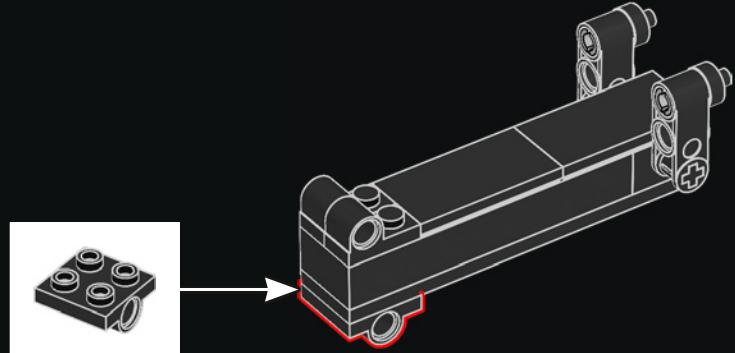


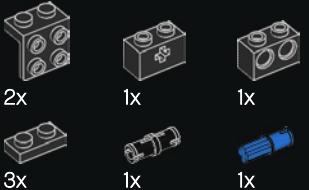
7



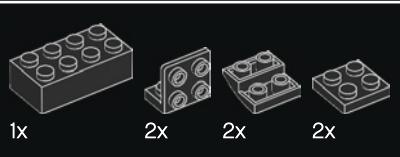
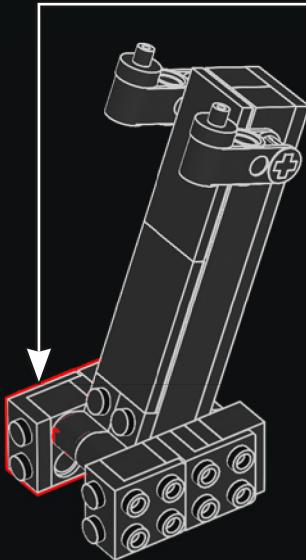
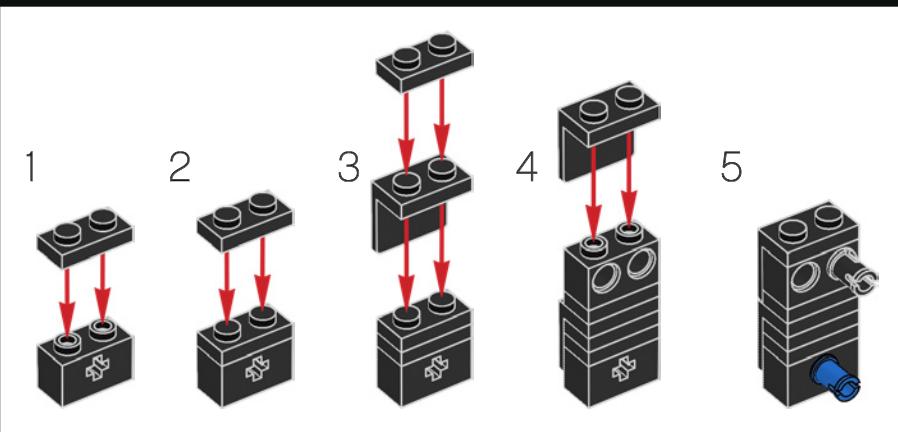
1x

6

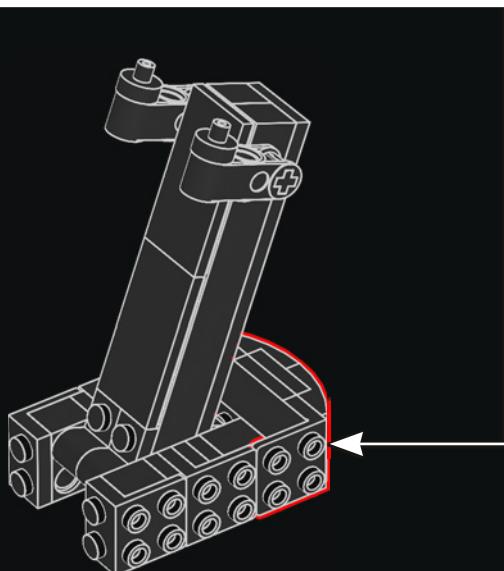
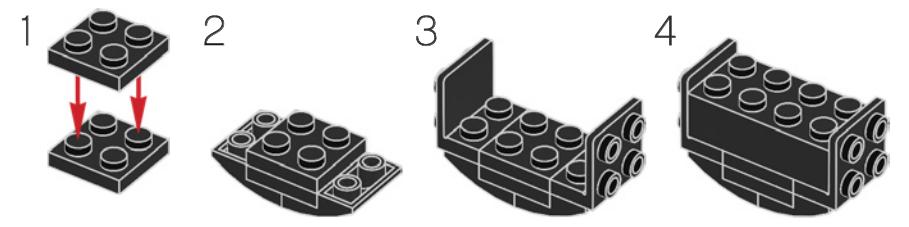




8

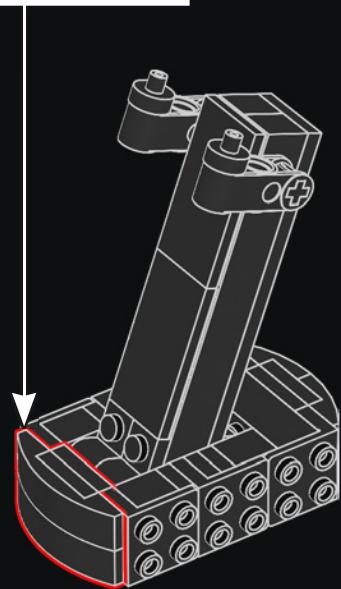
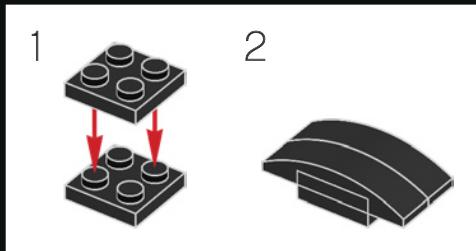


9

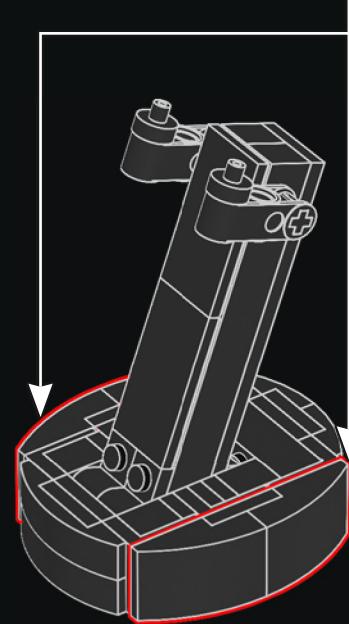
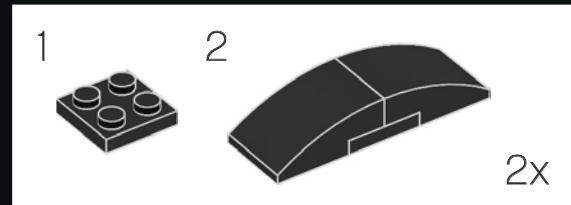




10



11



### ¿LO SABÍAS?

Aunque la idea original del telescopio espacial Hubble se remonta a los años 40 del siglo pasado, transcurrirían décadas dedicadas a la planificación hasta su lanzamiento en 1990.



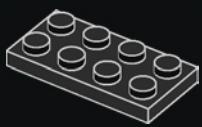
1



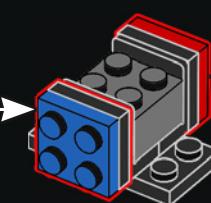
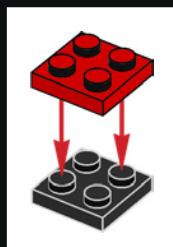
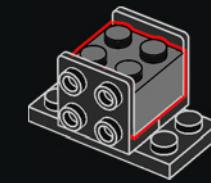
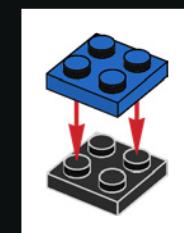
3



2

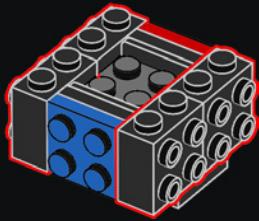


4

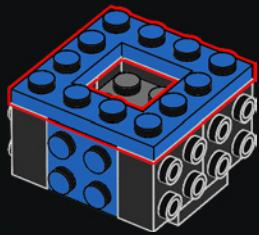




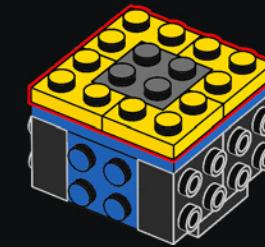
5



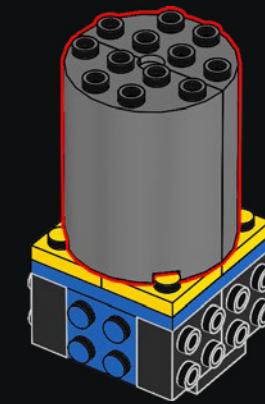
6

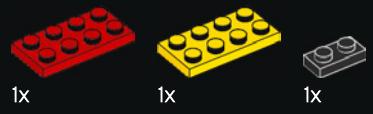


7

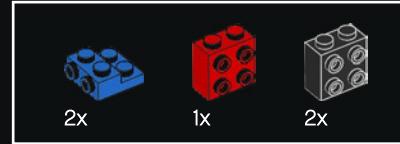
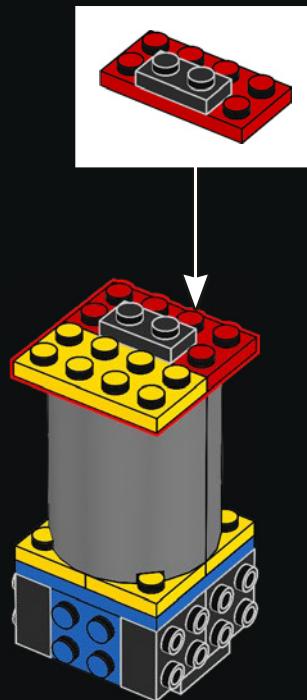


8

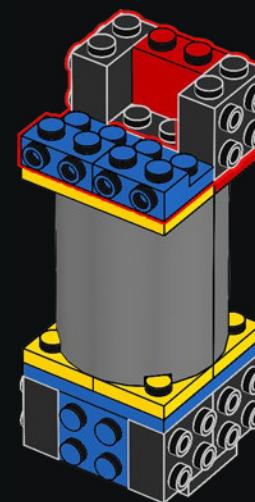




9



10



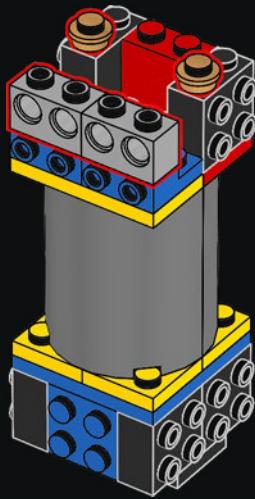


2x



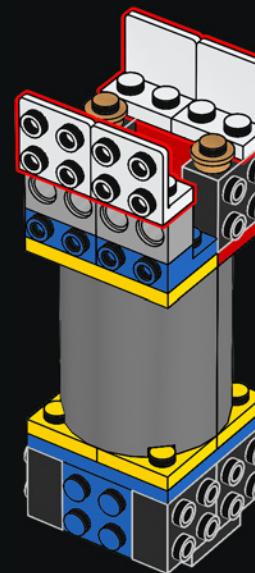
2x

11



4x

12



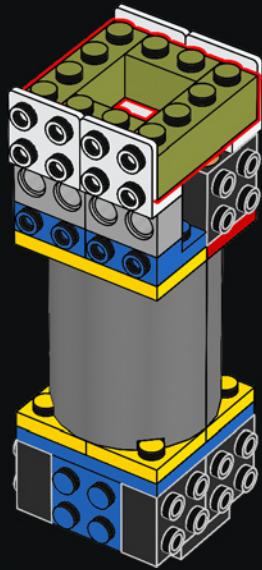


2x



2x

13

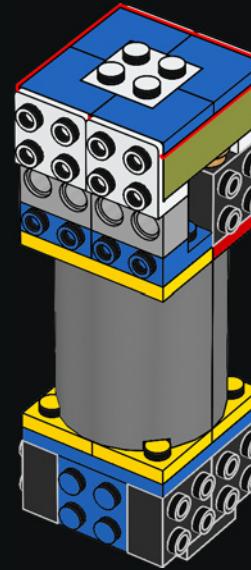


1x



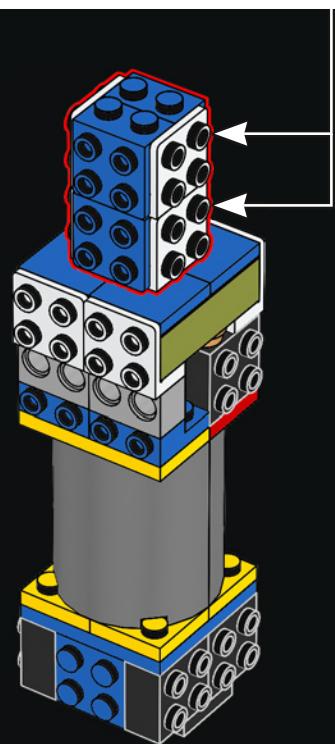
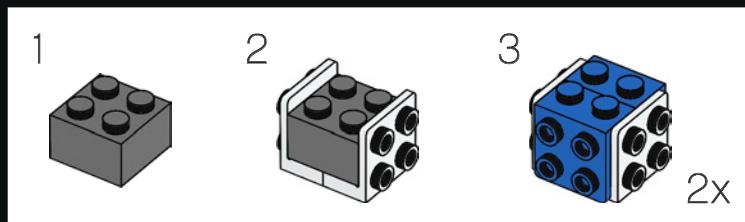
4x

14

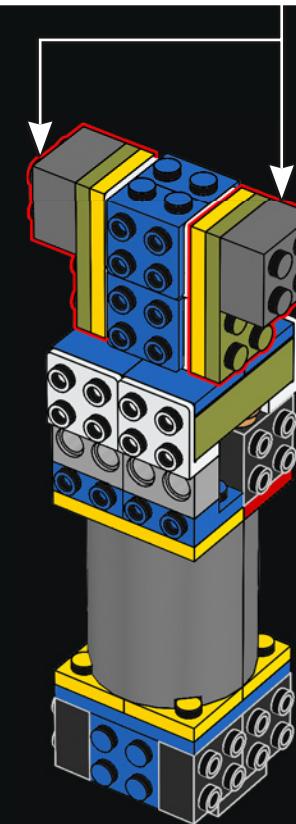
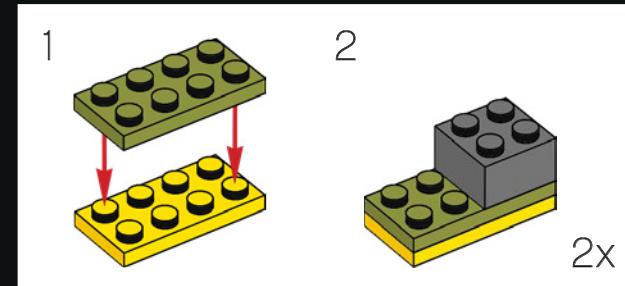


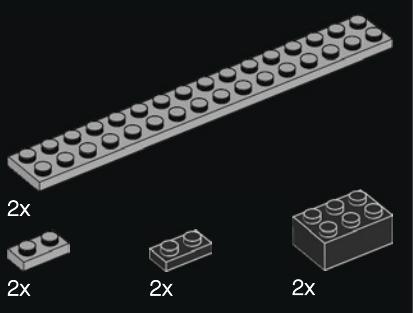


15

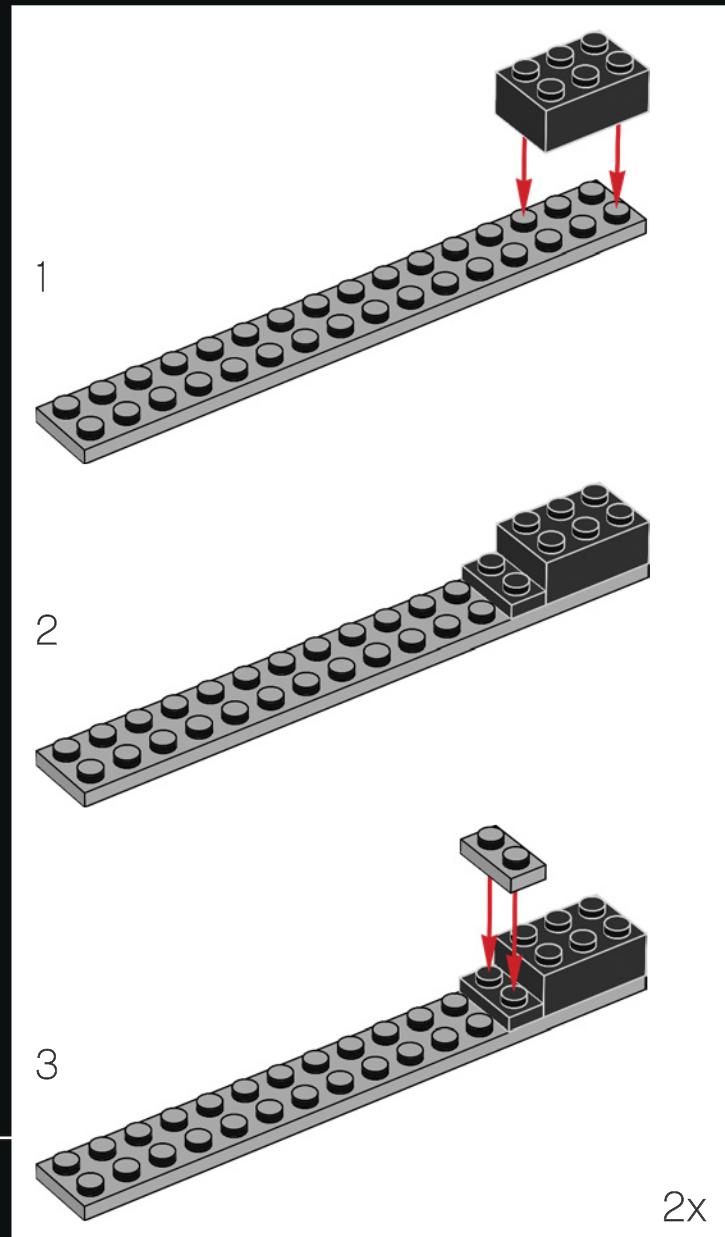
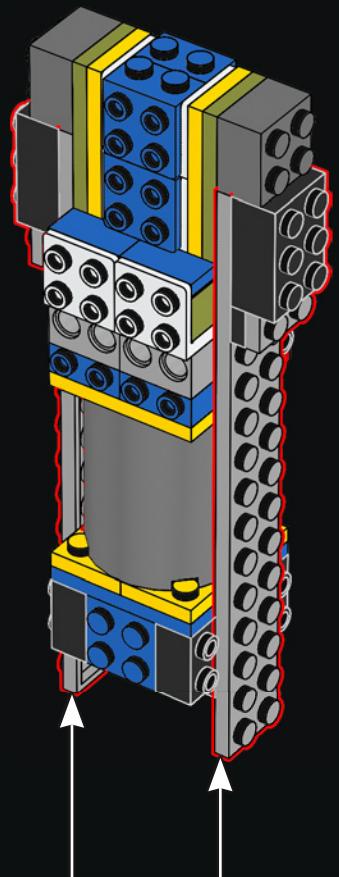


16





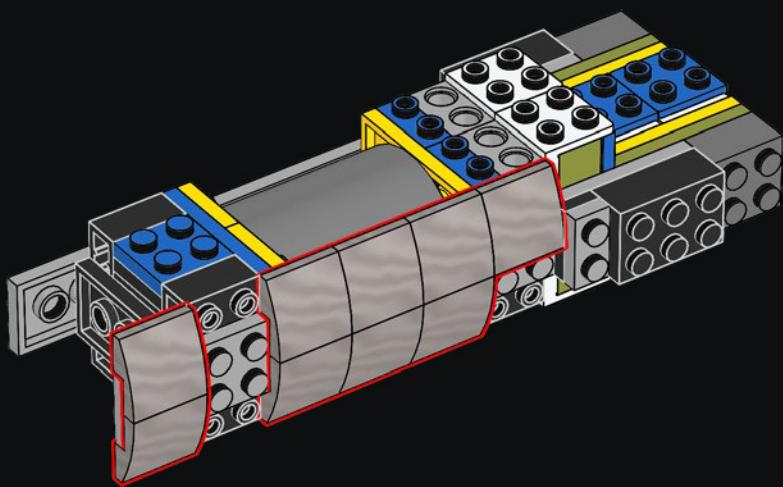
17





9x

18



1x



4x

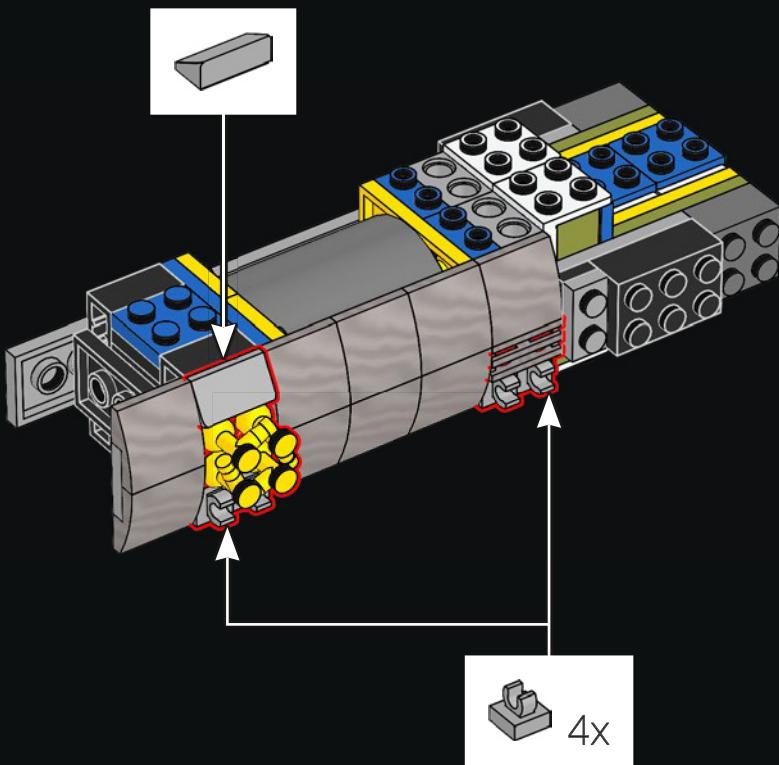


1x



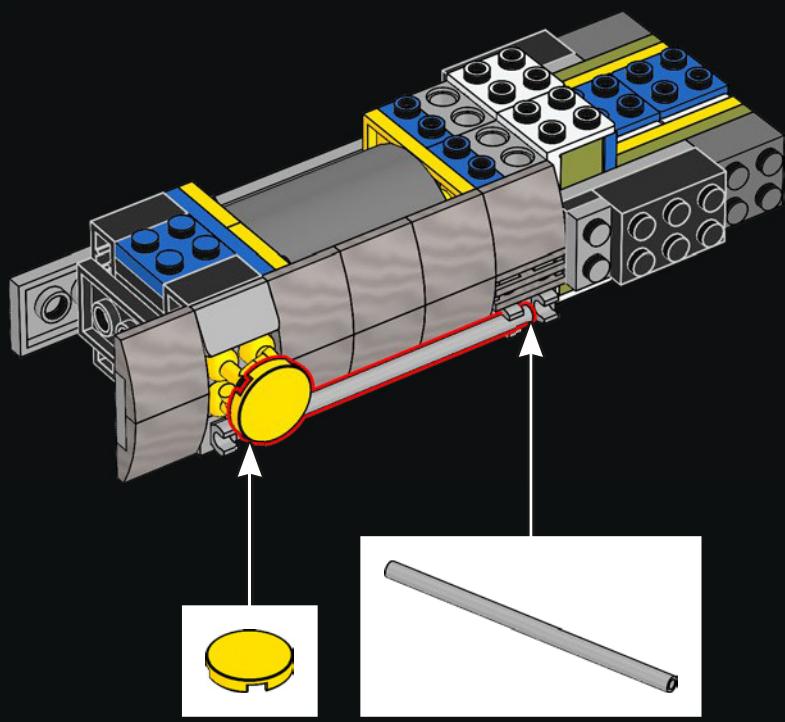
4x

19

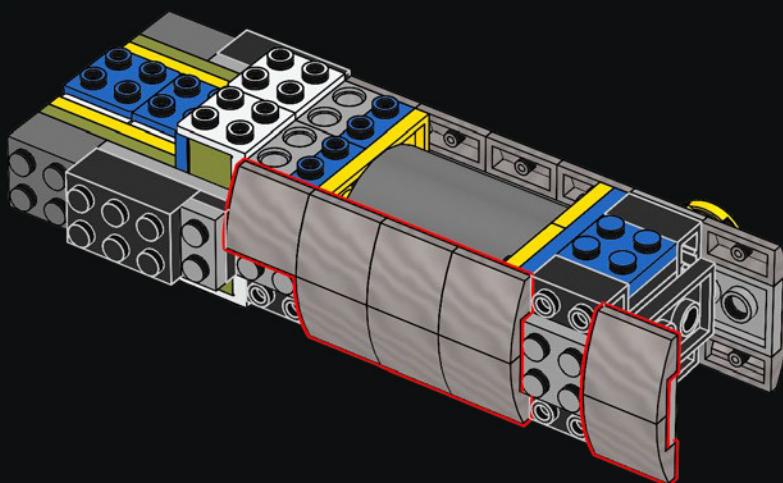




20

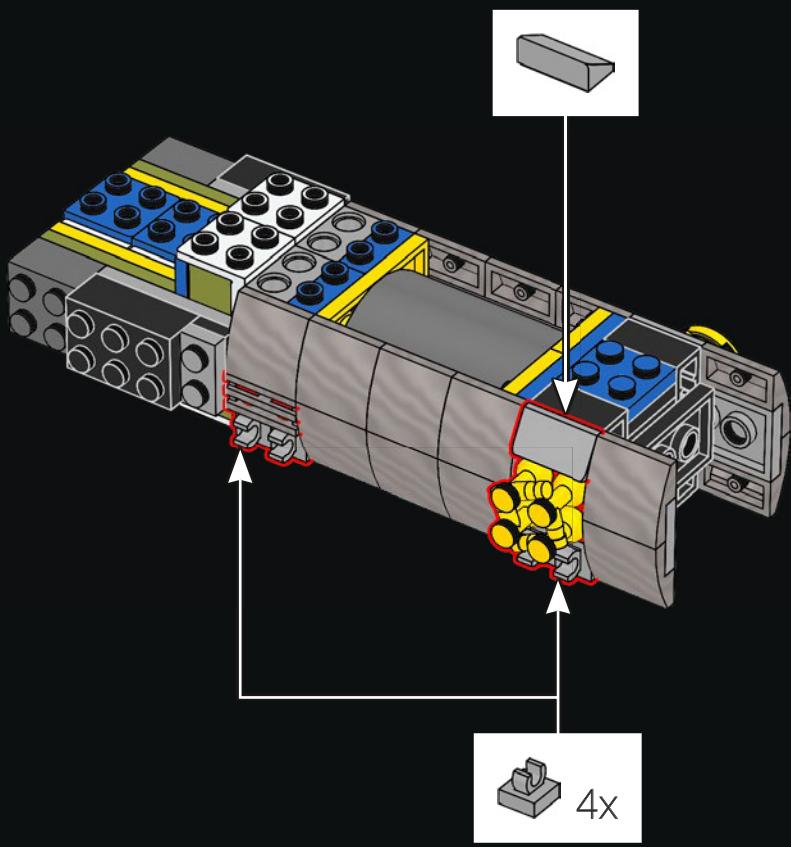


21

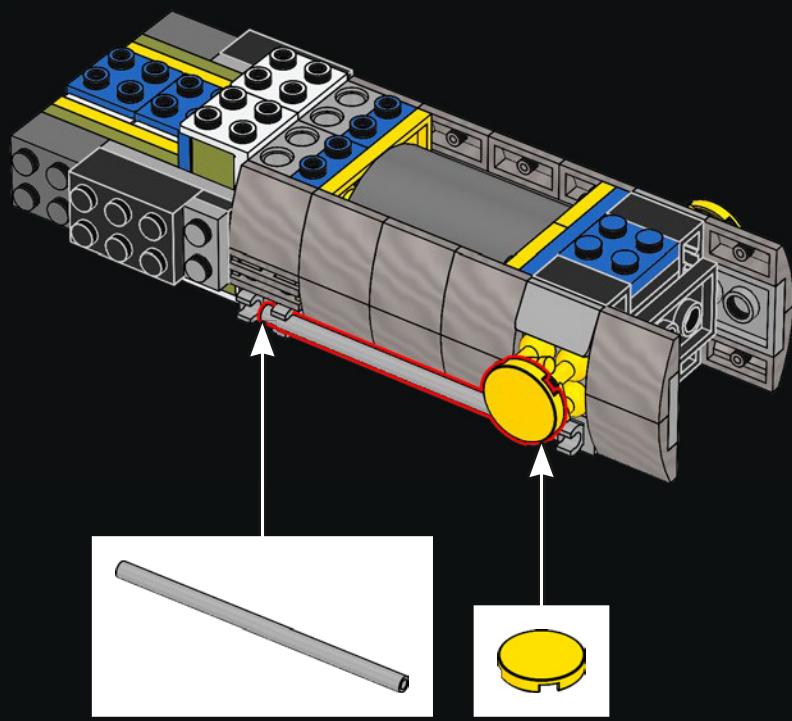


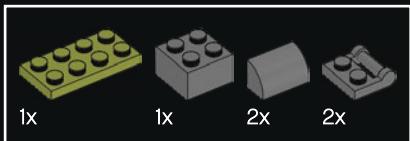


22

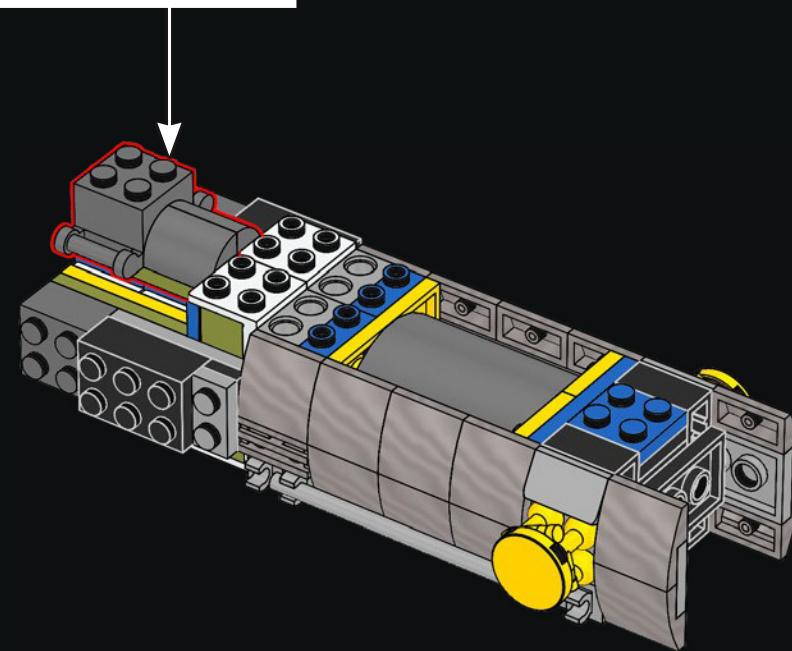
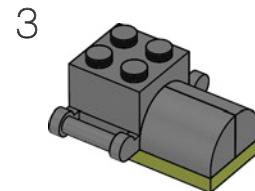
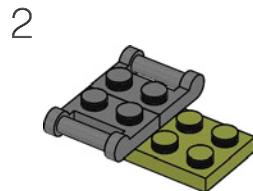
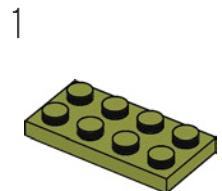


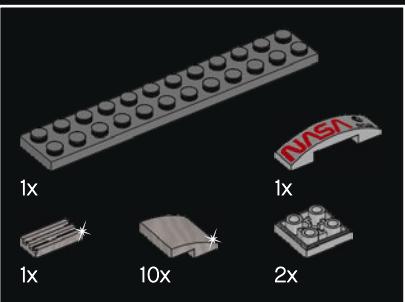
23



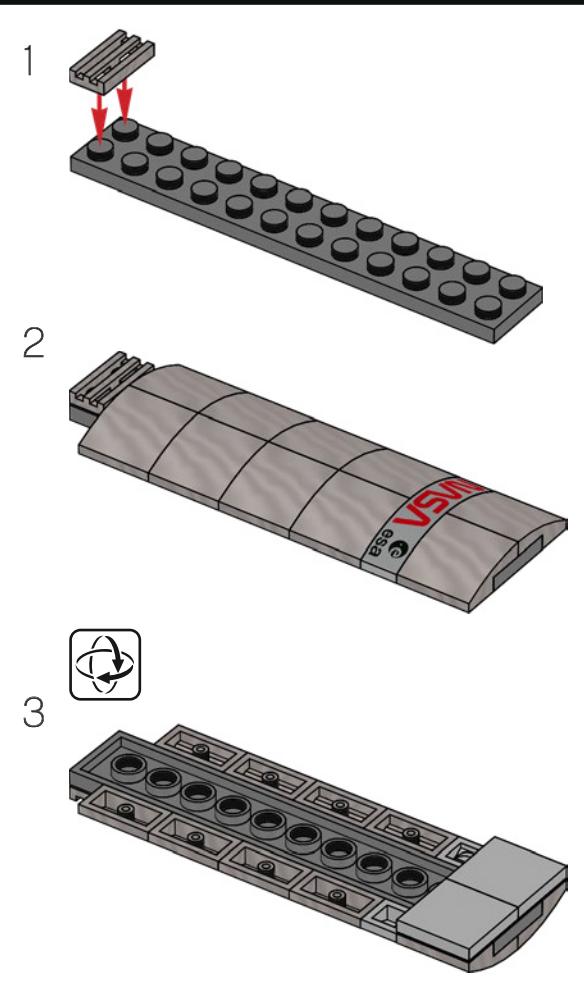
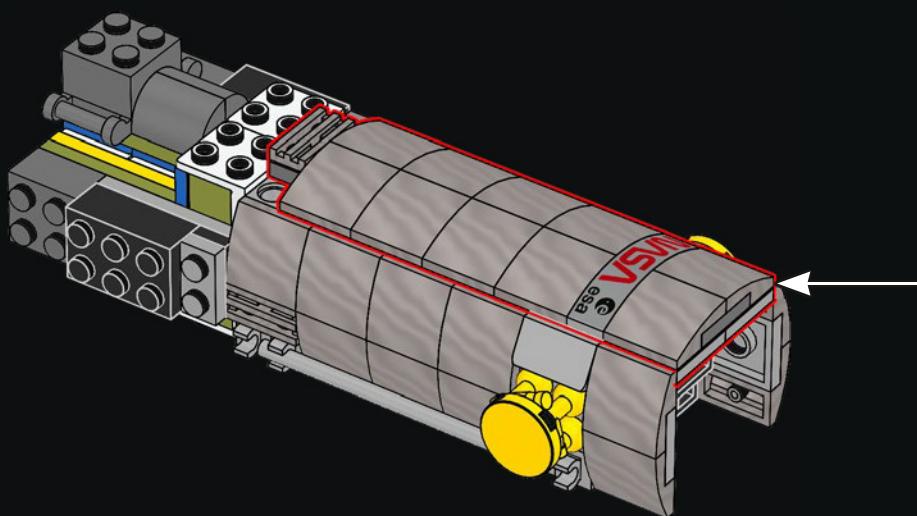


24





25

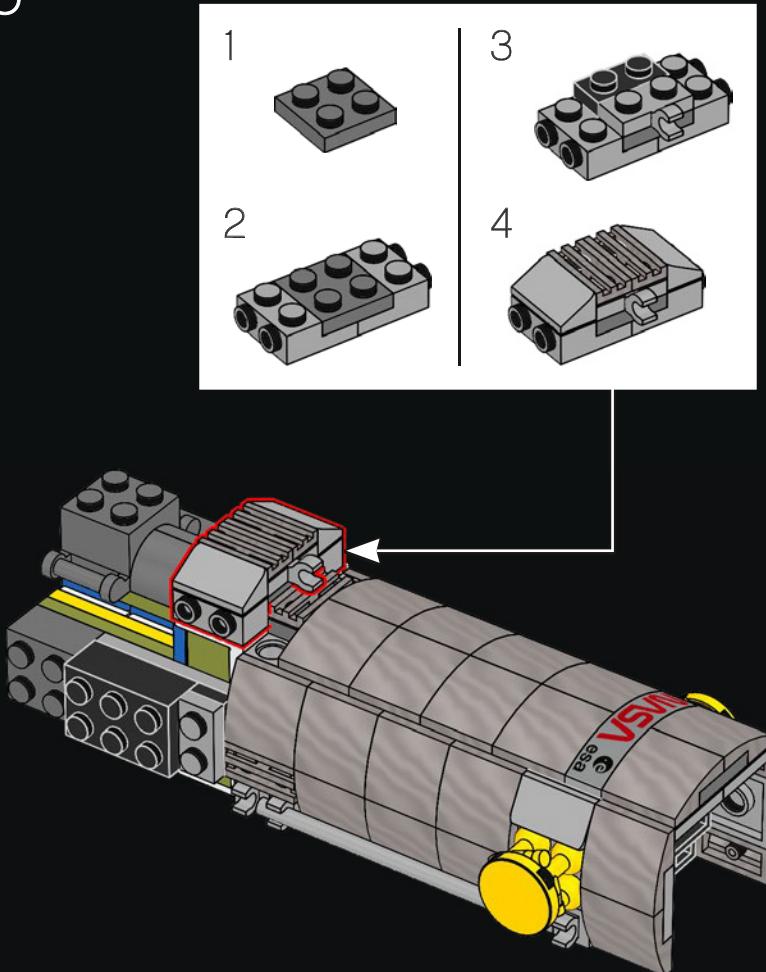


### ¿LO SABÍAS?

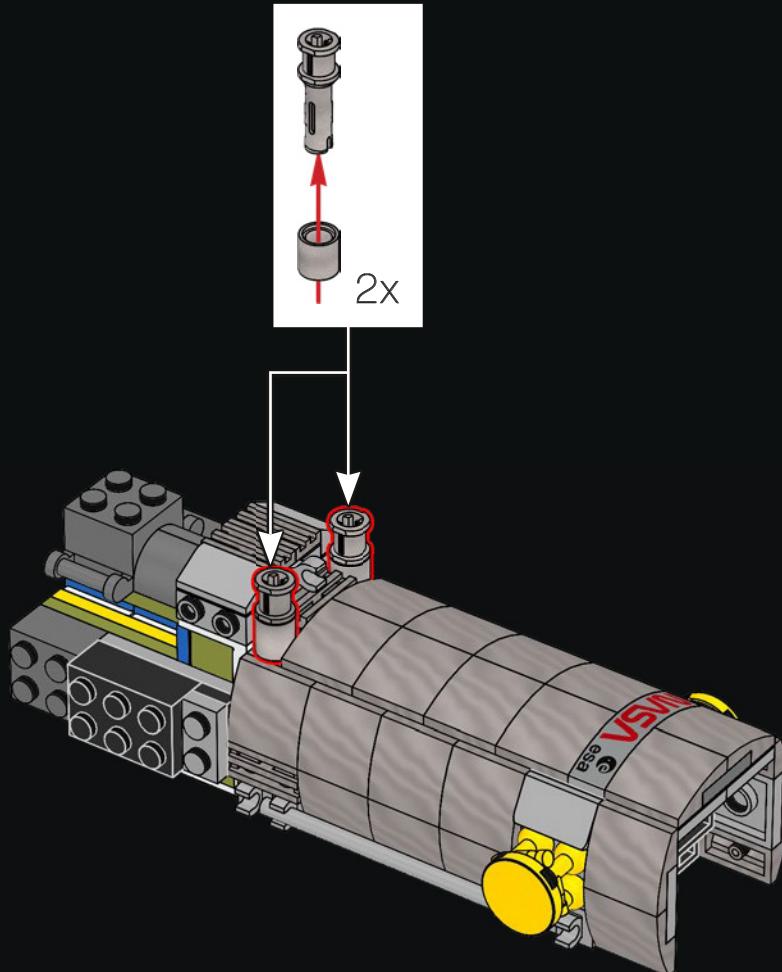
El telescopio espacial se llama así en honor del astrónomo norteamericano Edwin Hubble (1889-1953).

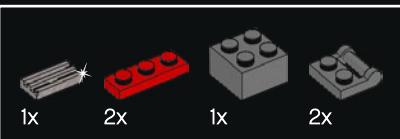


26

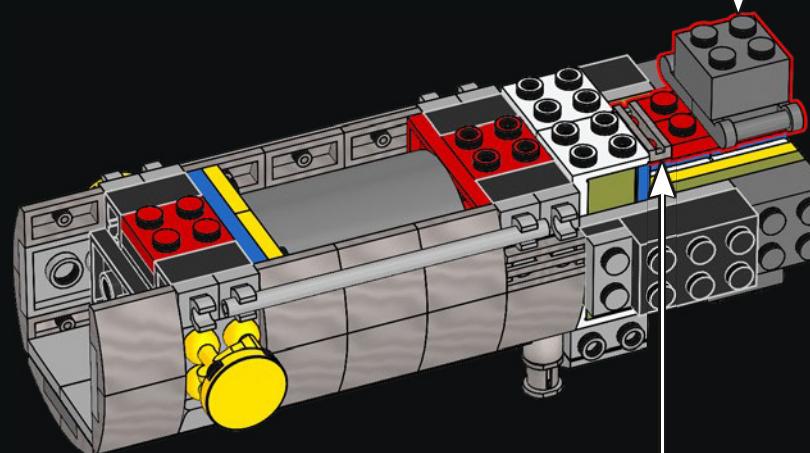
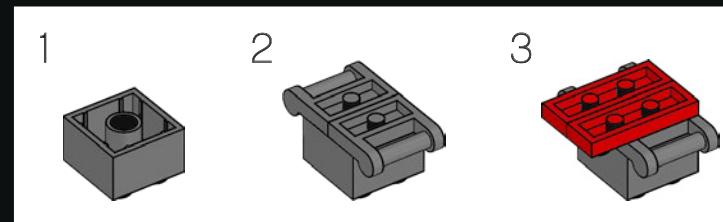


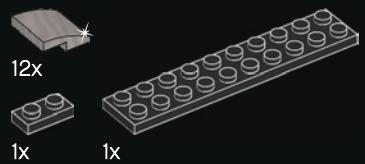
27



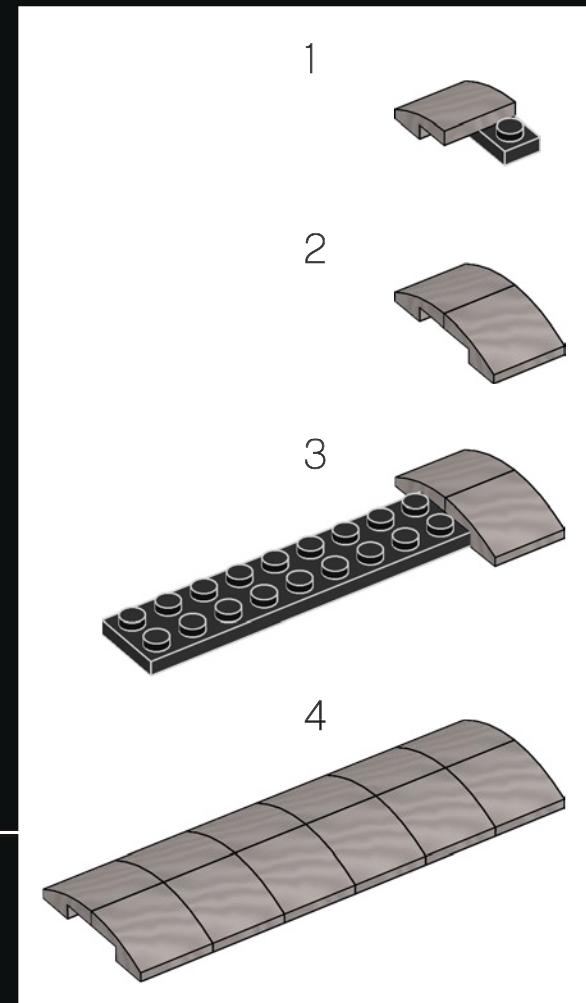
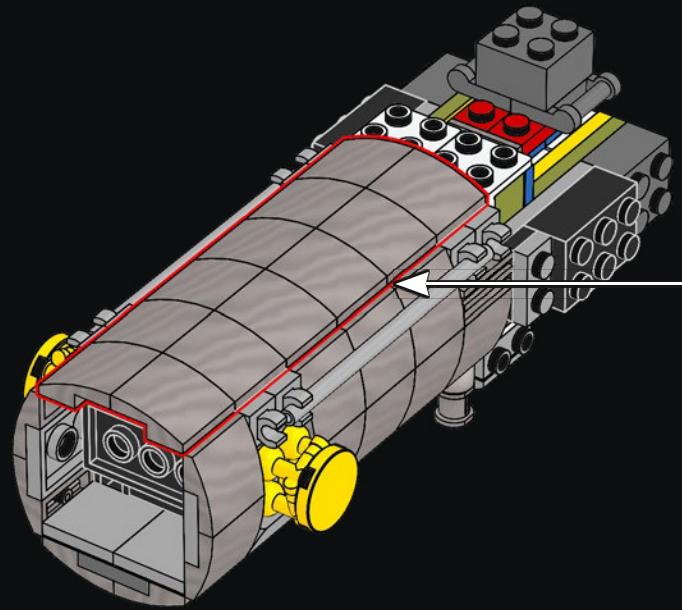


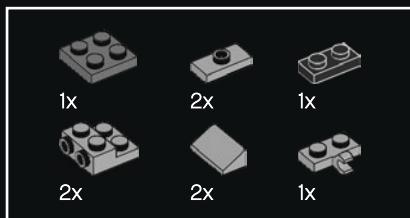
28



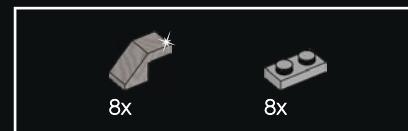
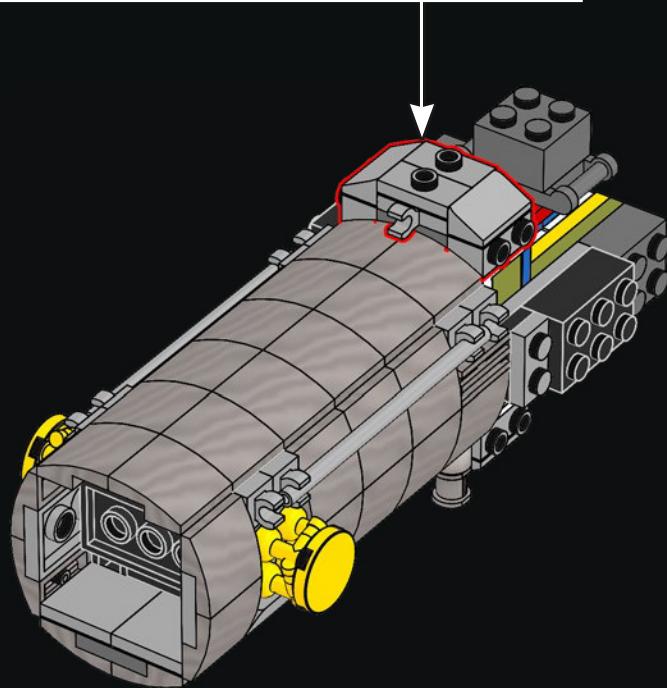
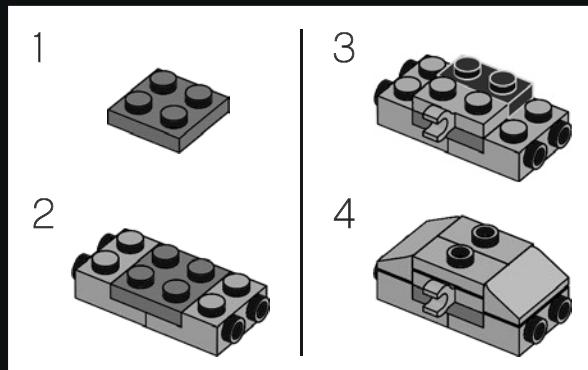


29

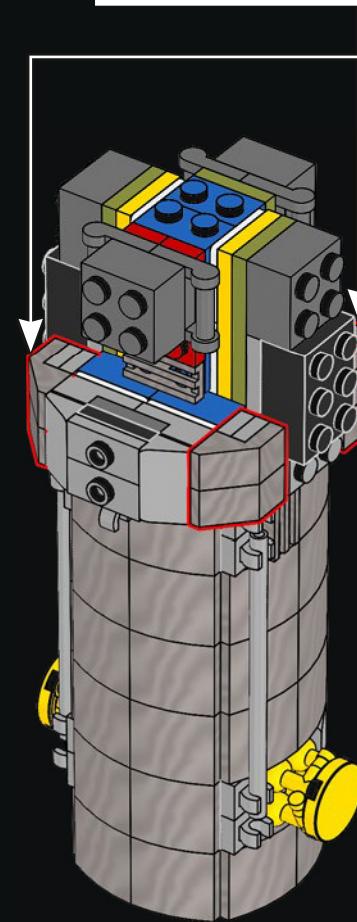
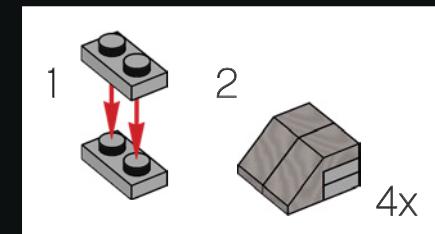




30

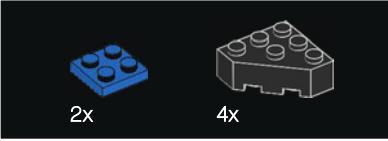
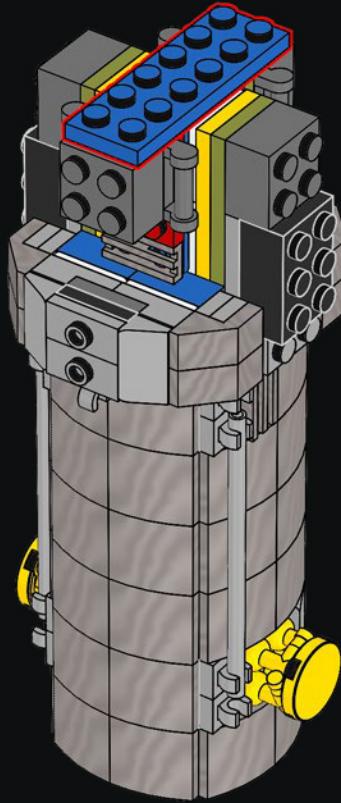


31

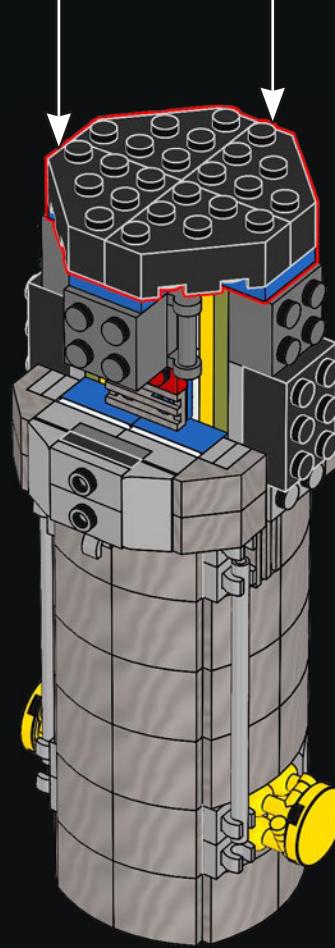
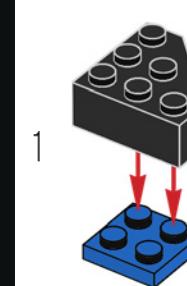




32



33



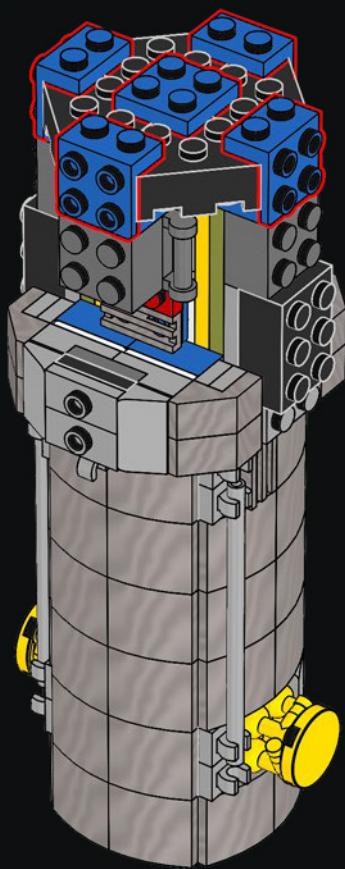


1x



4x

34

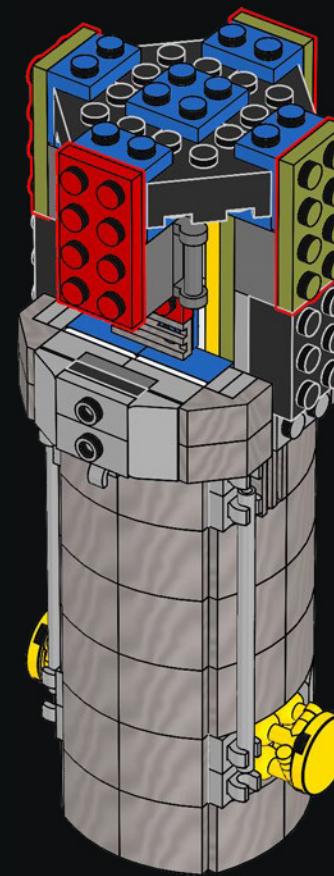


1x



3x

35



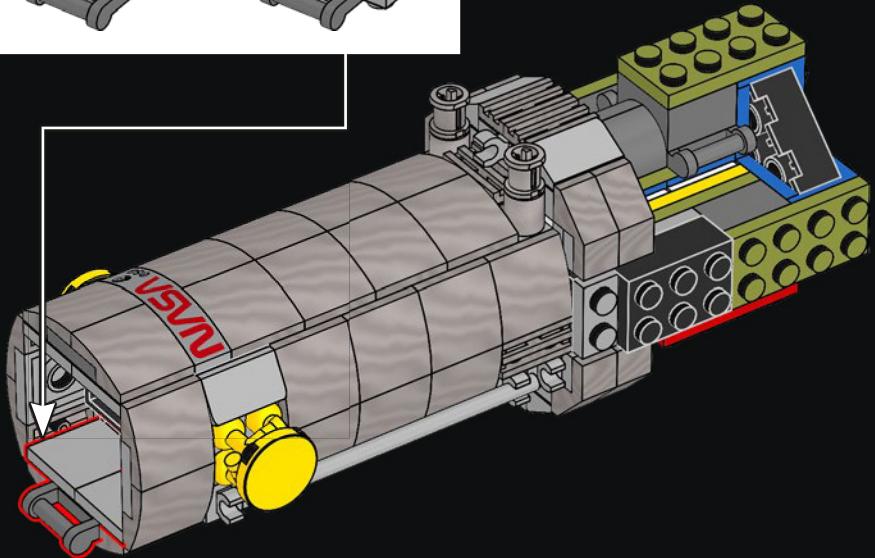
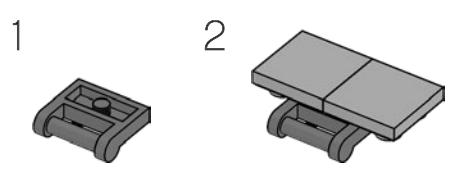


2x



1x

36

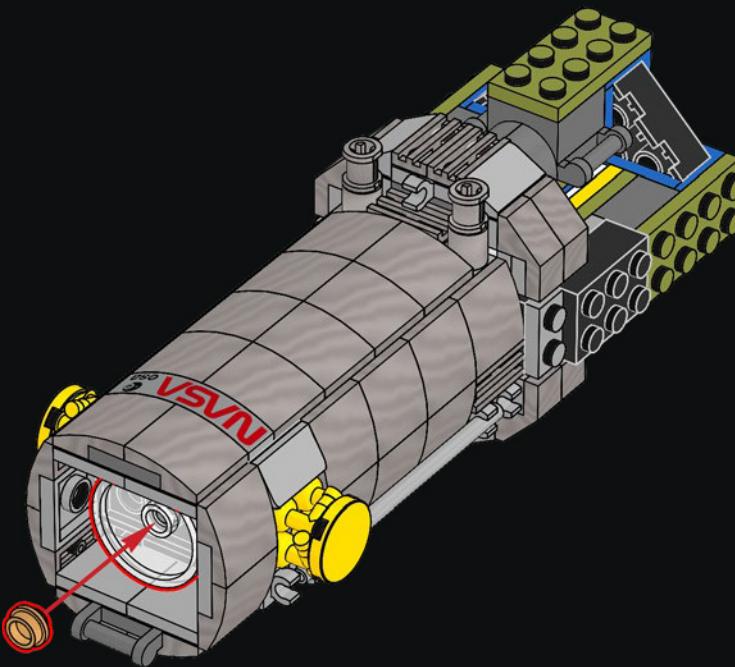


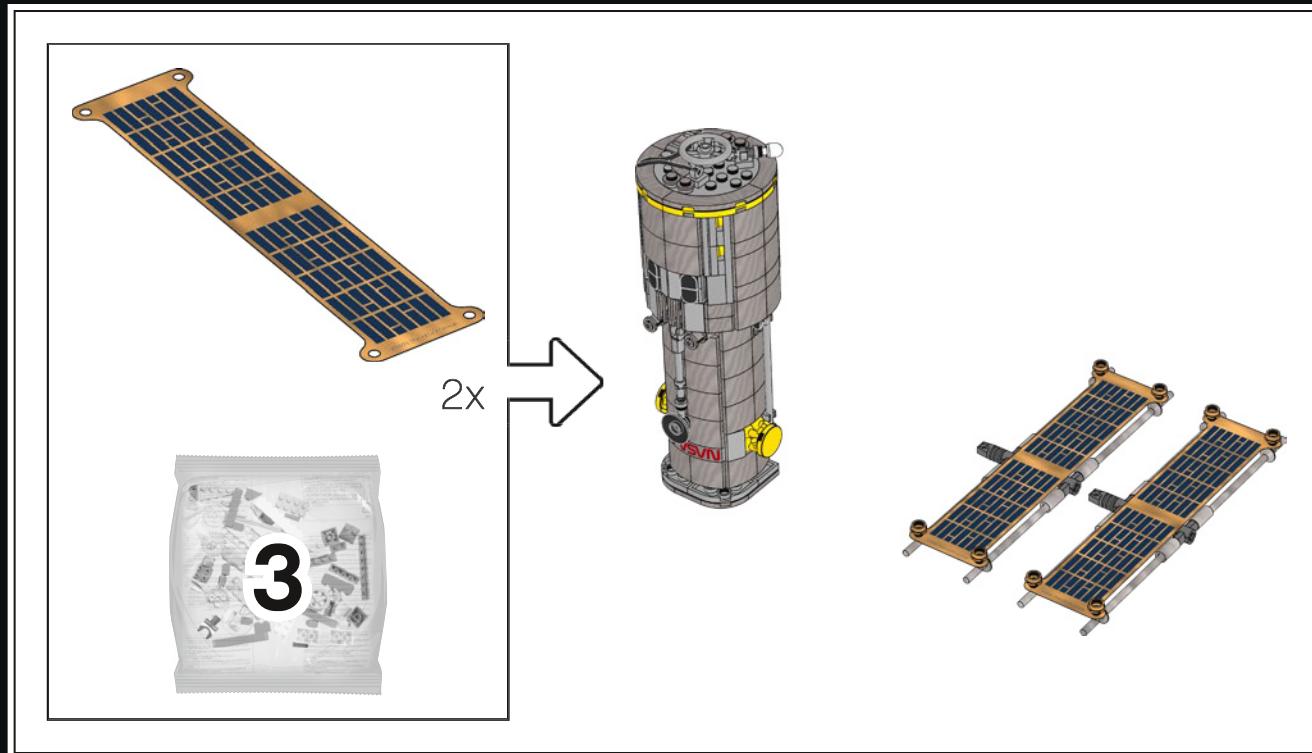
1x

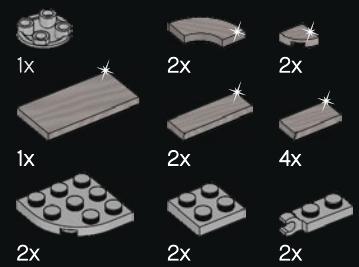


1x

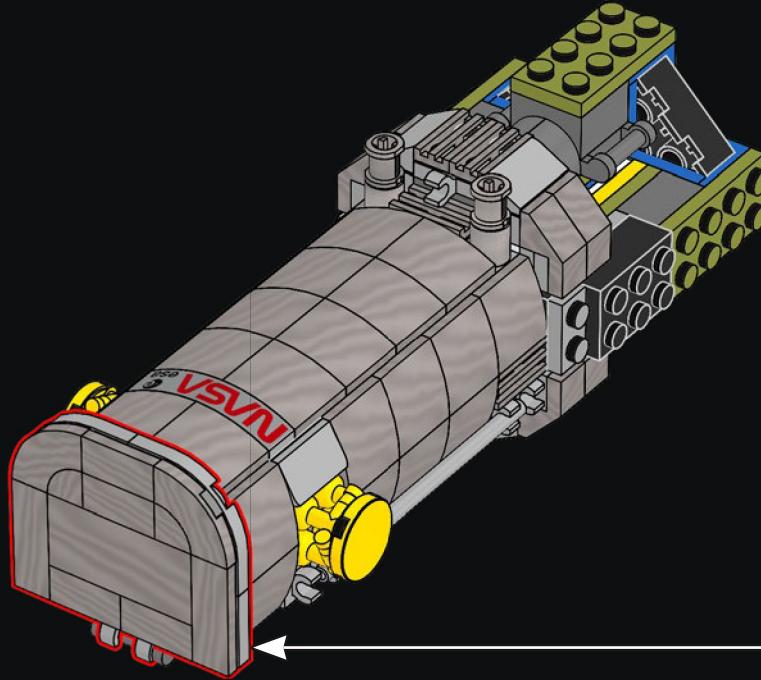
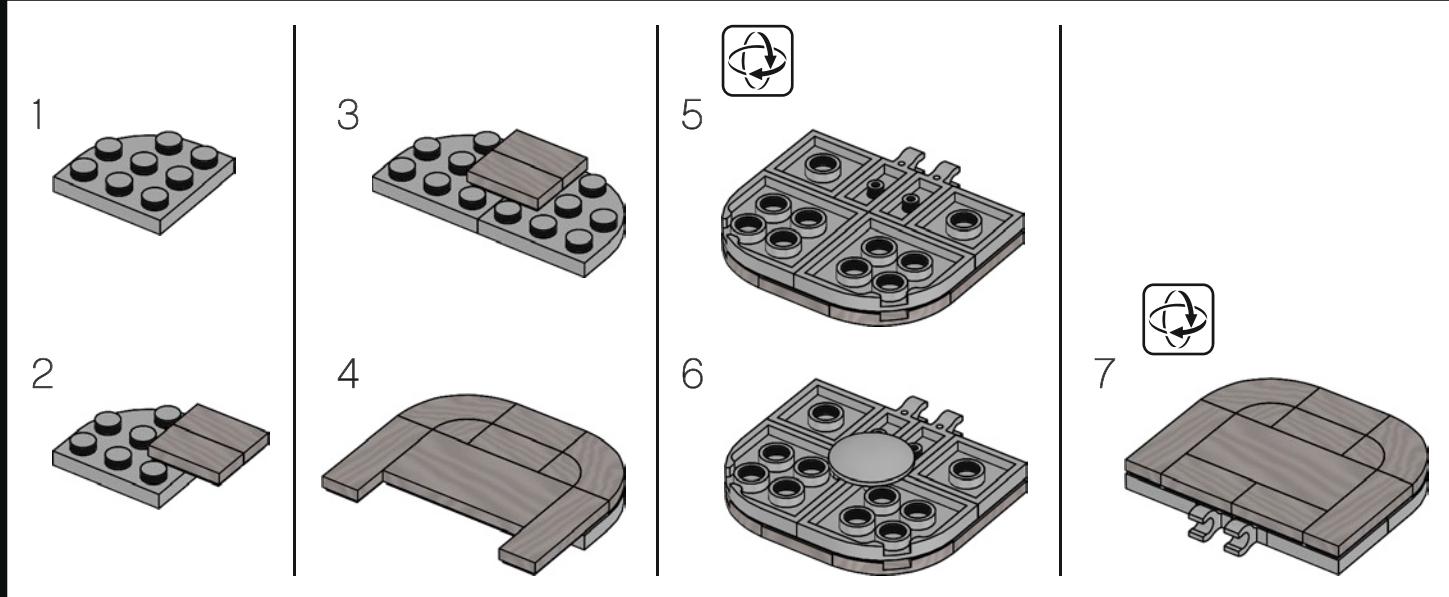
37





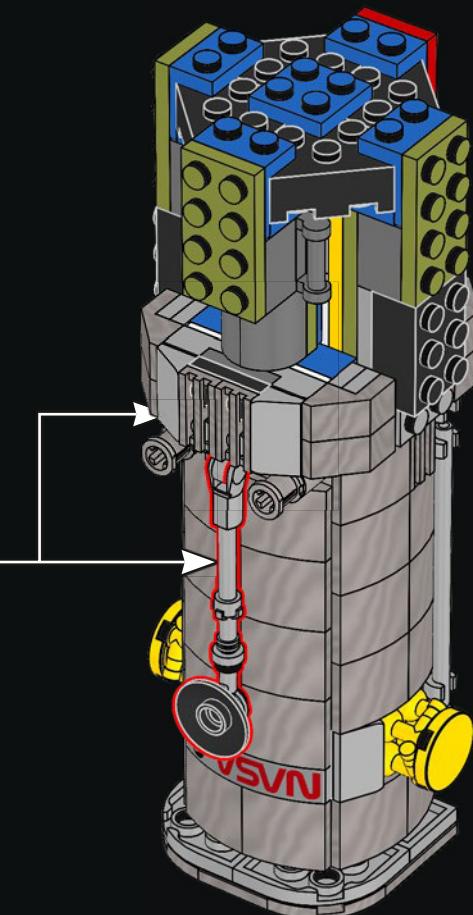
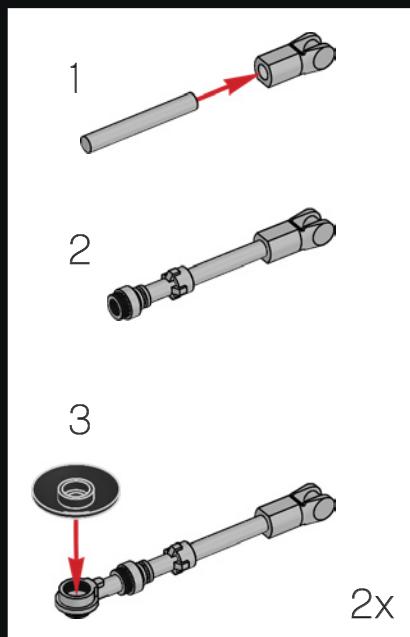


38





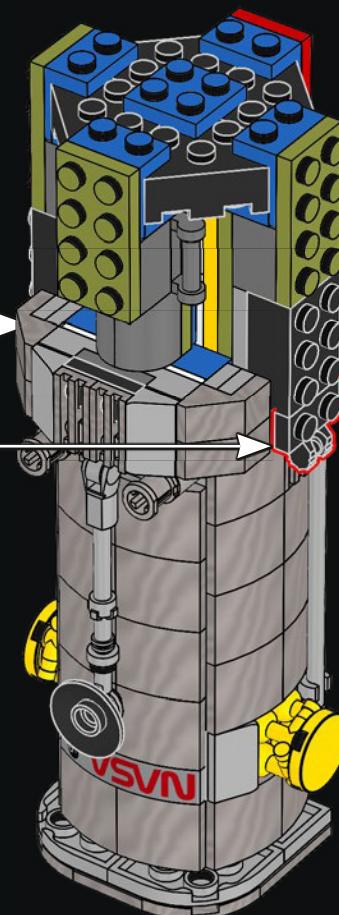
39

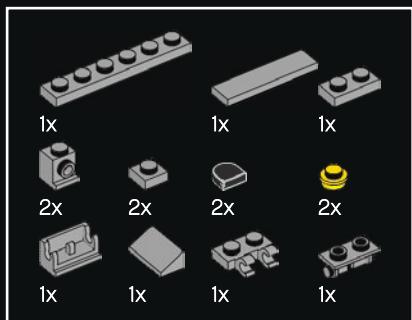


40



2x



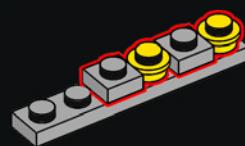


41

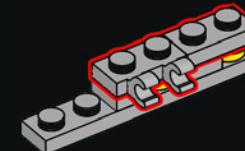
1



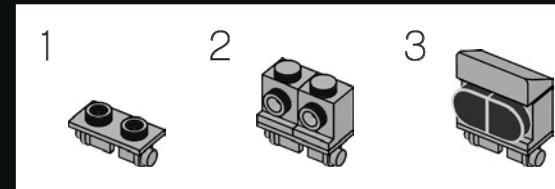
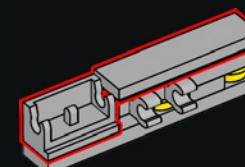
2



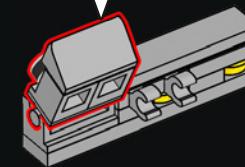
3

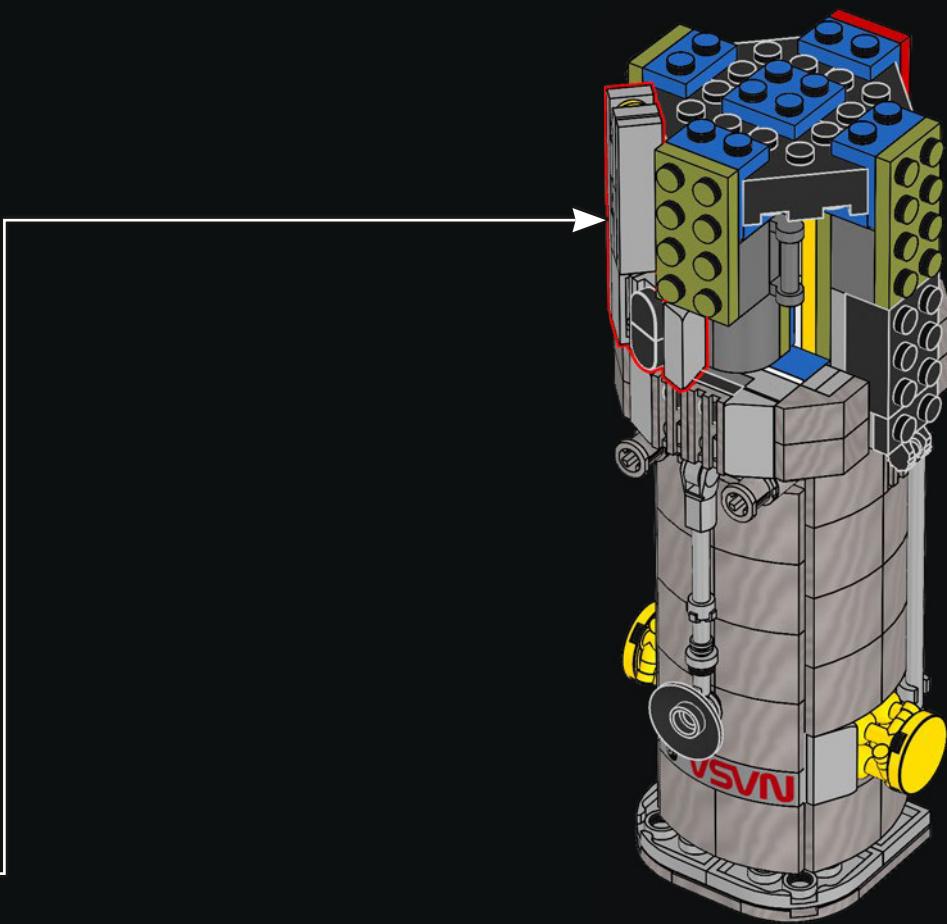


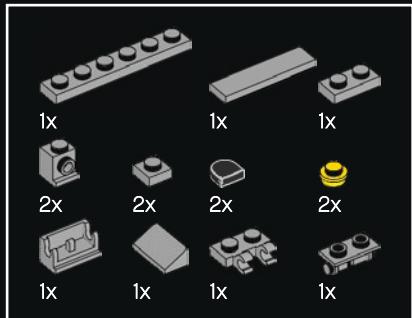
4



5





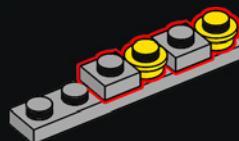


42

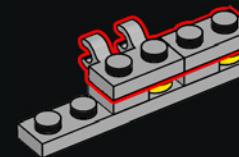
1



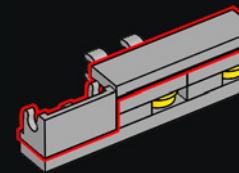
2



3



4



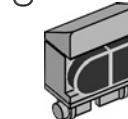
1



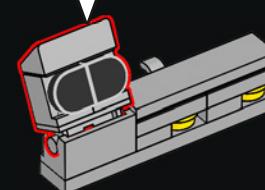
2

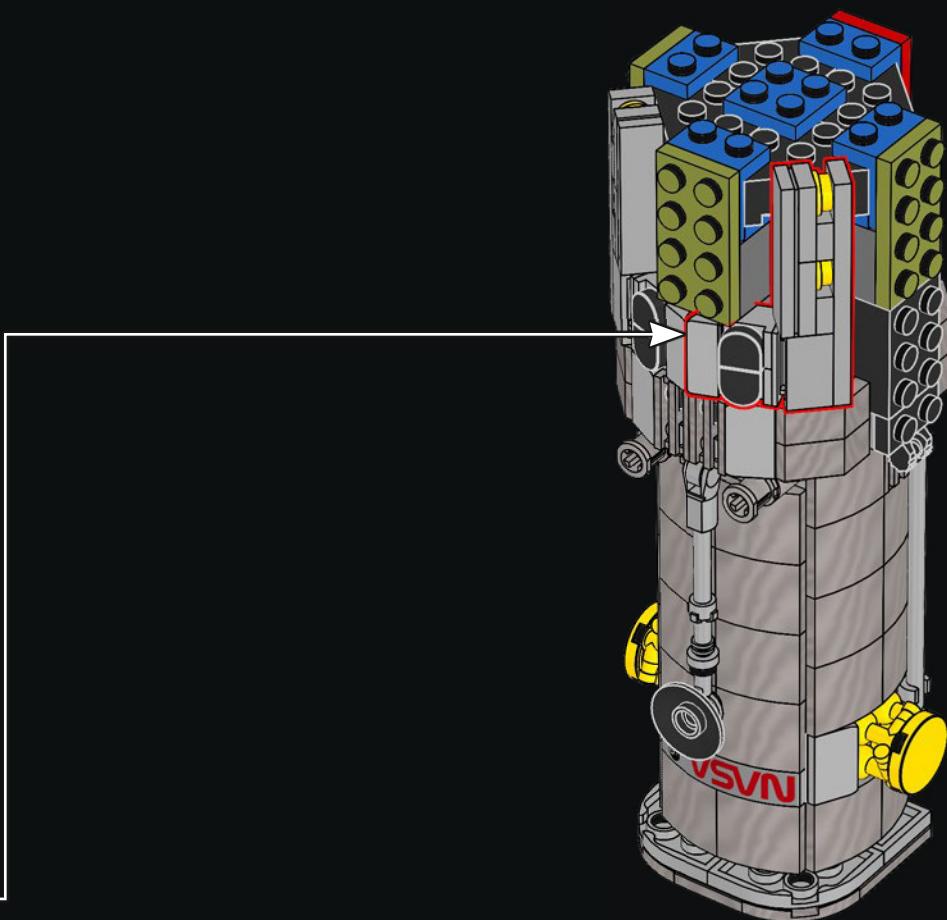


3



5

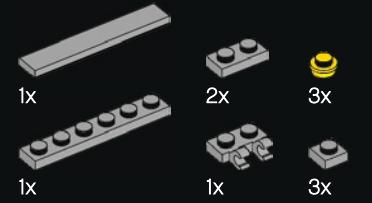
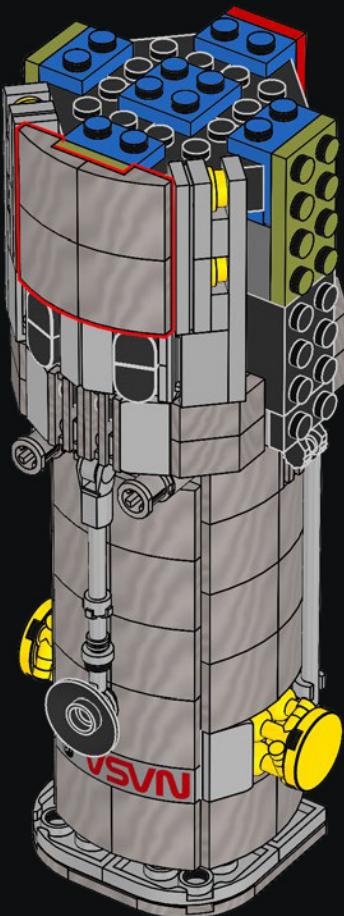




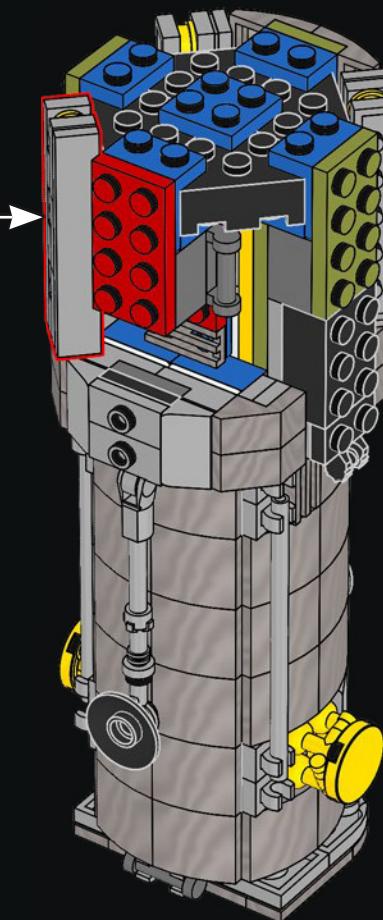
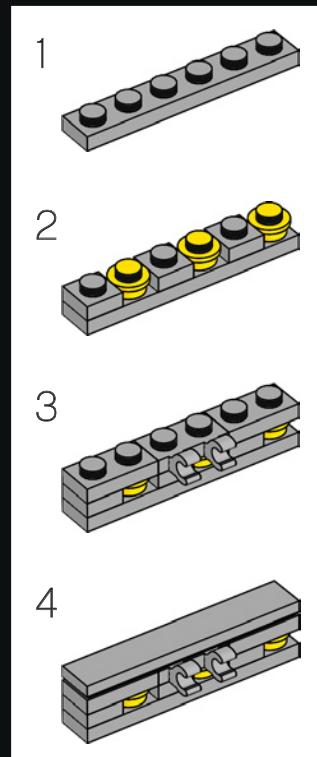


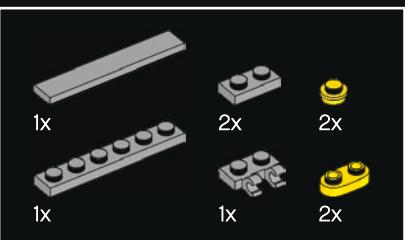
4x

43

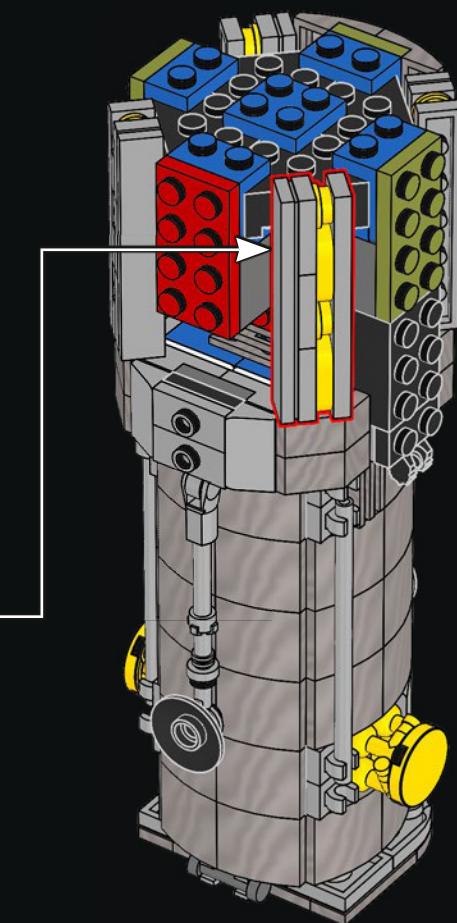
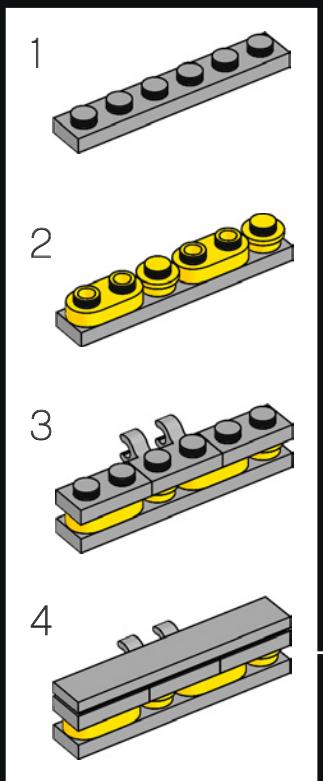


44

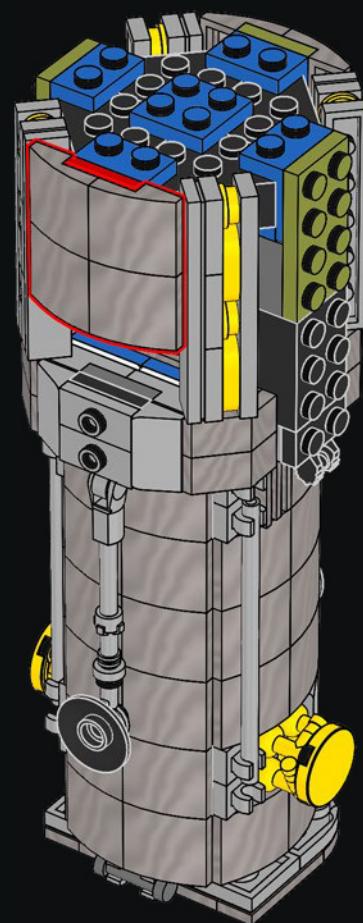




45



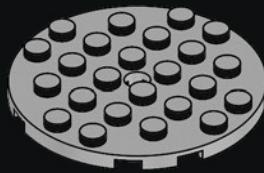
46





47

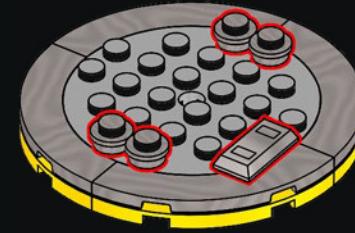
1



2



4

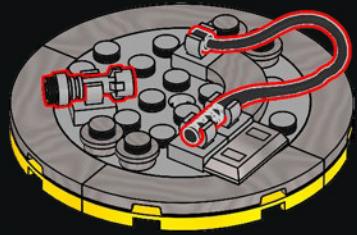


5

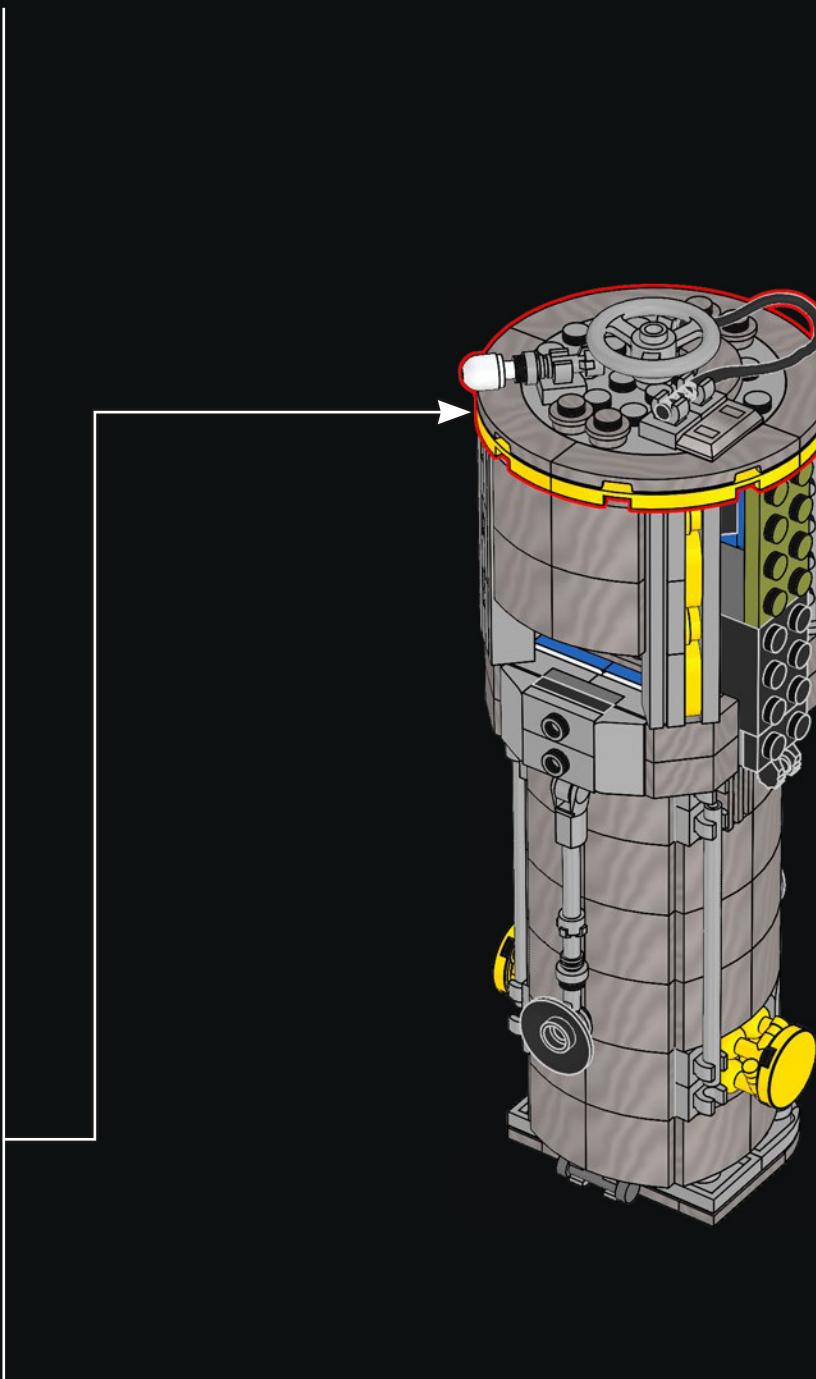
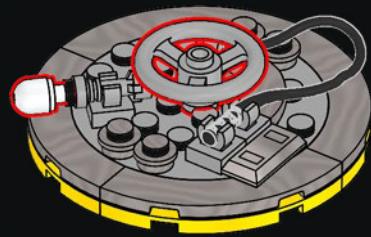


46

6



7



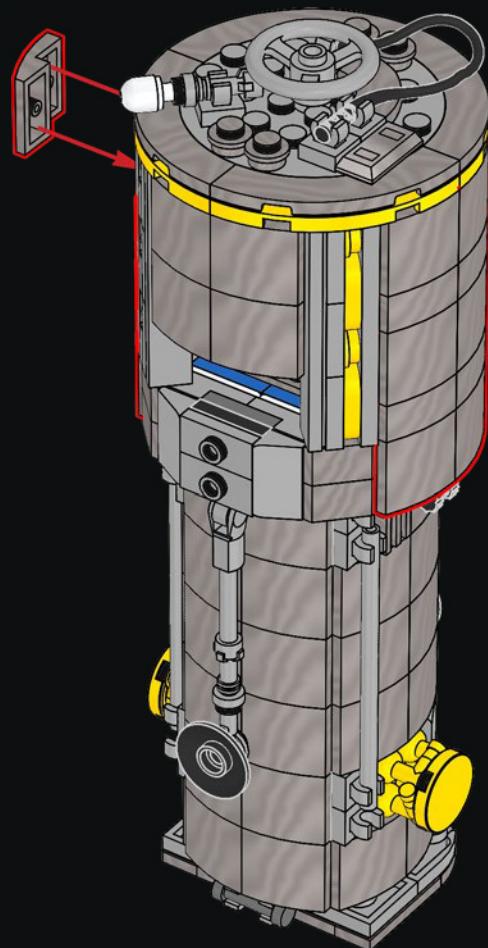


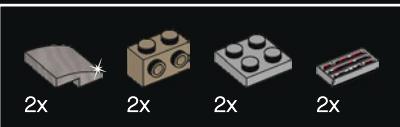
8x



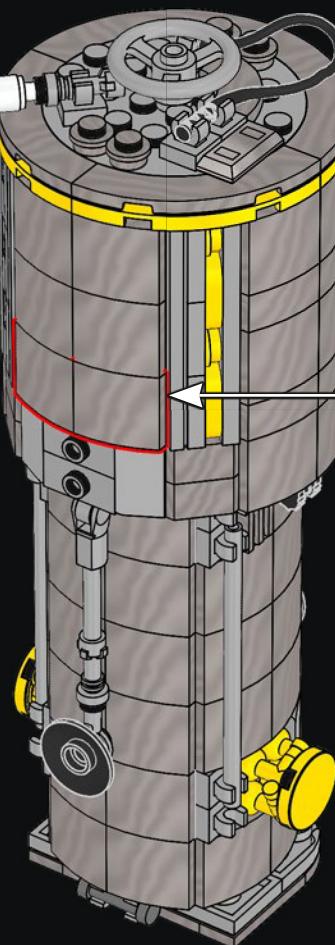
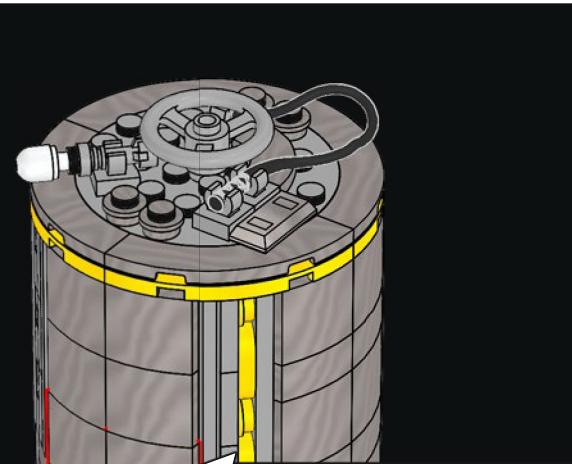
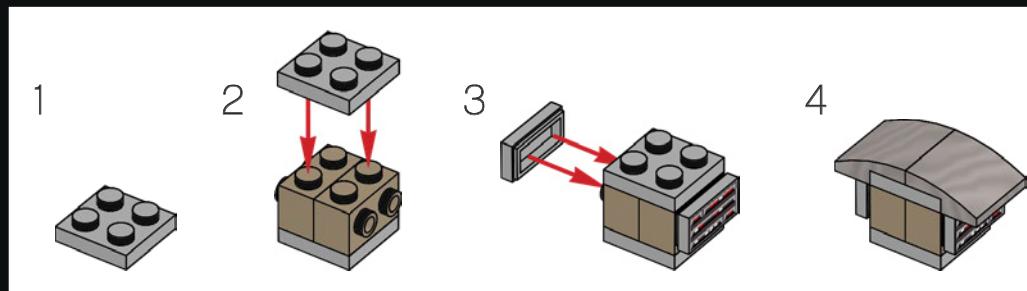
12x

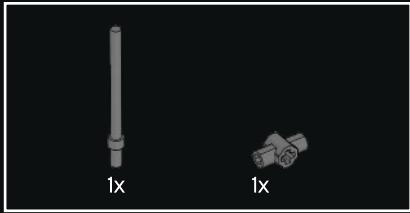
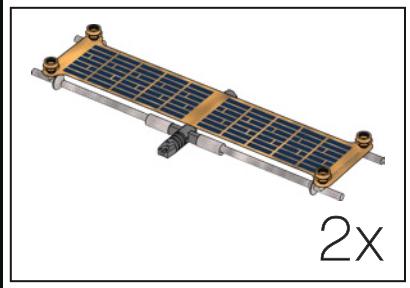
48



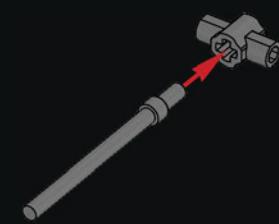


49

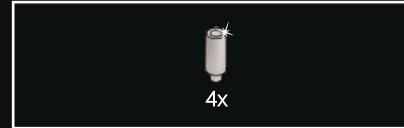
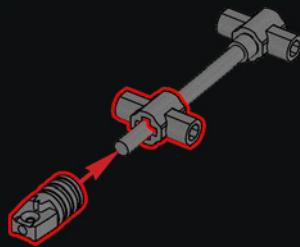




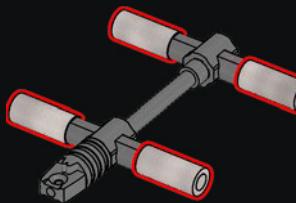
50



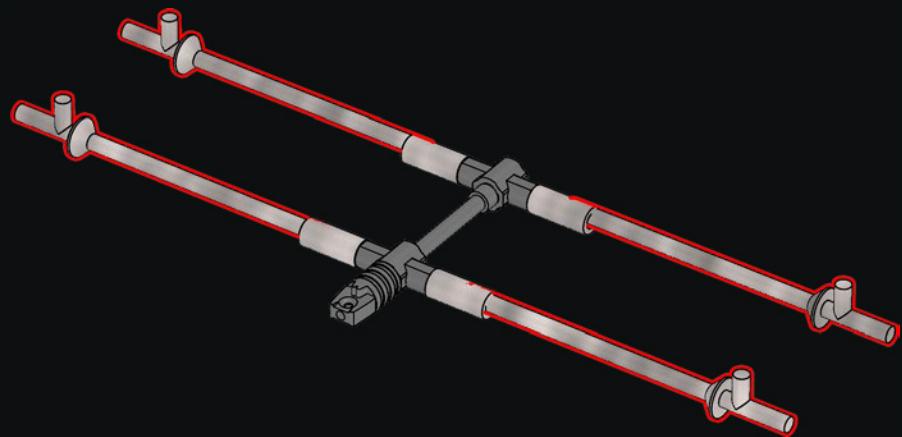
51

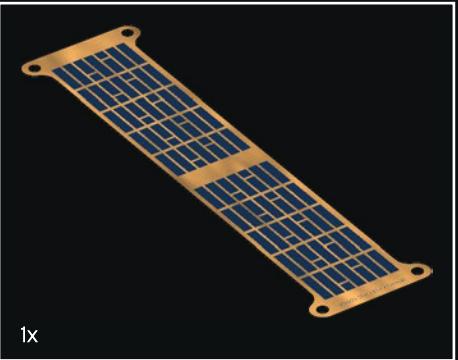


52

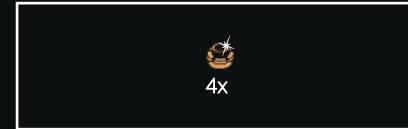
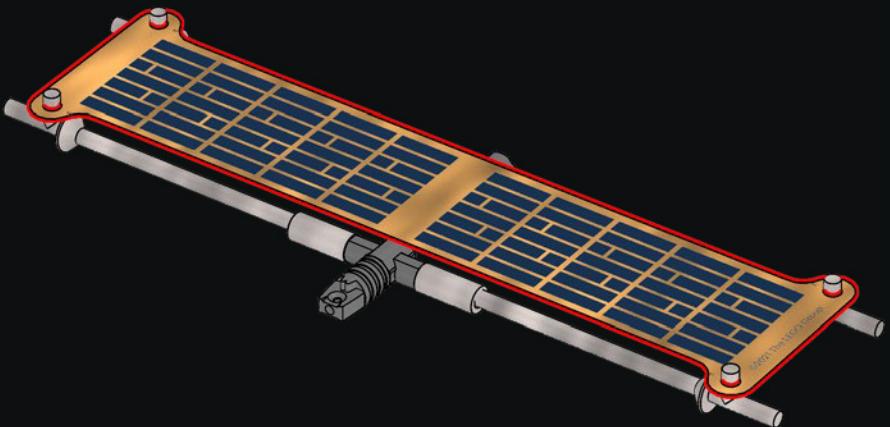


53

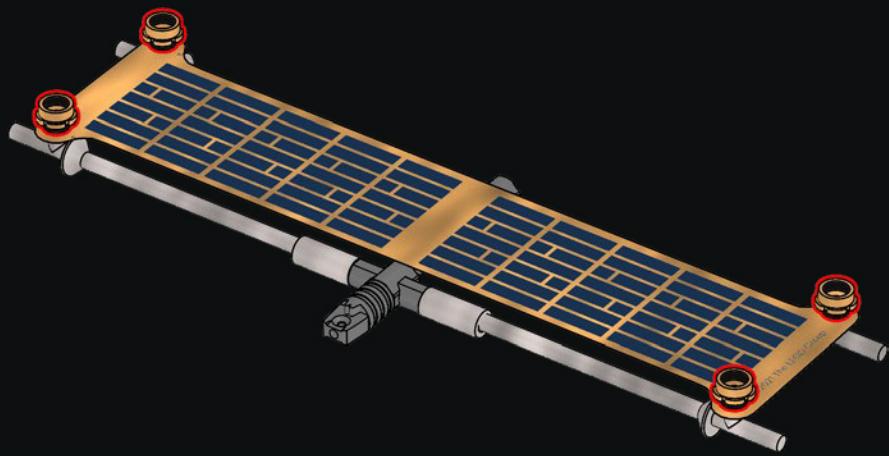




54



55

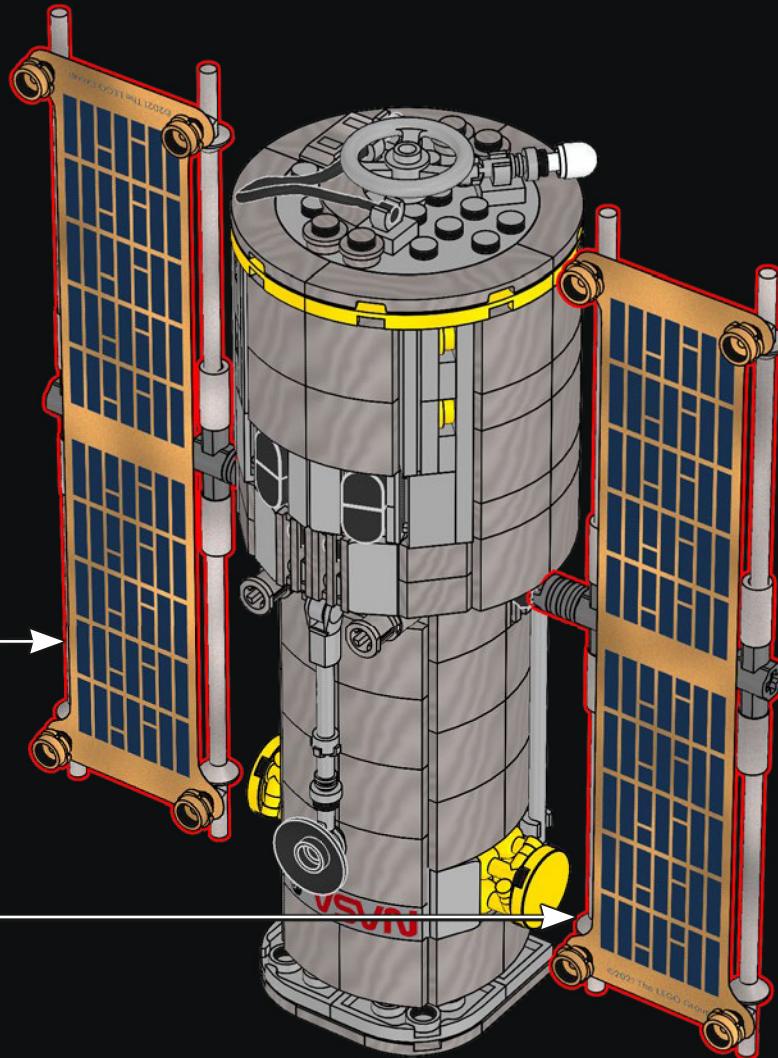


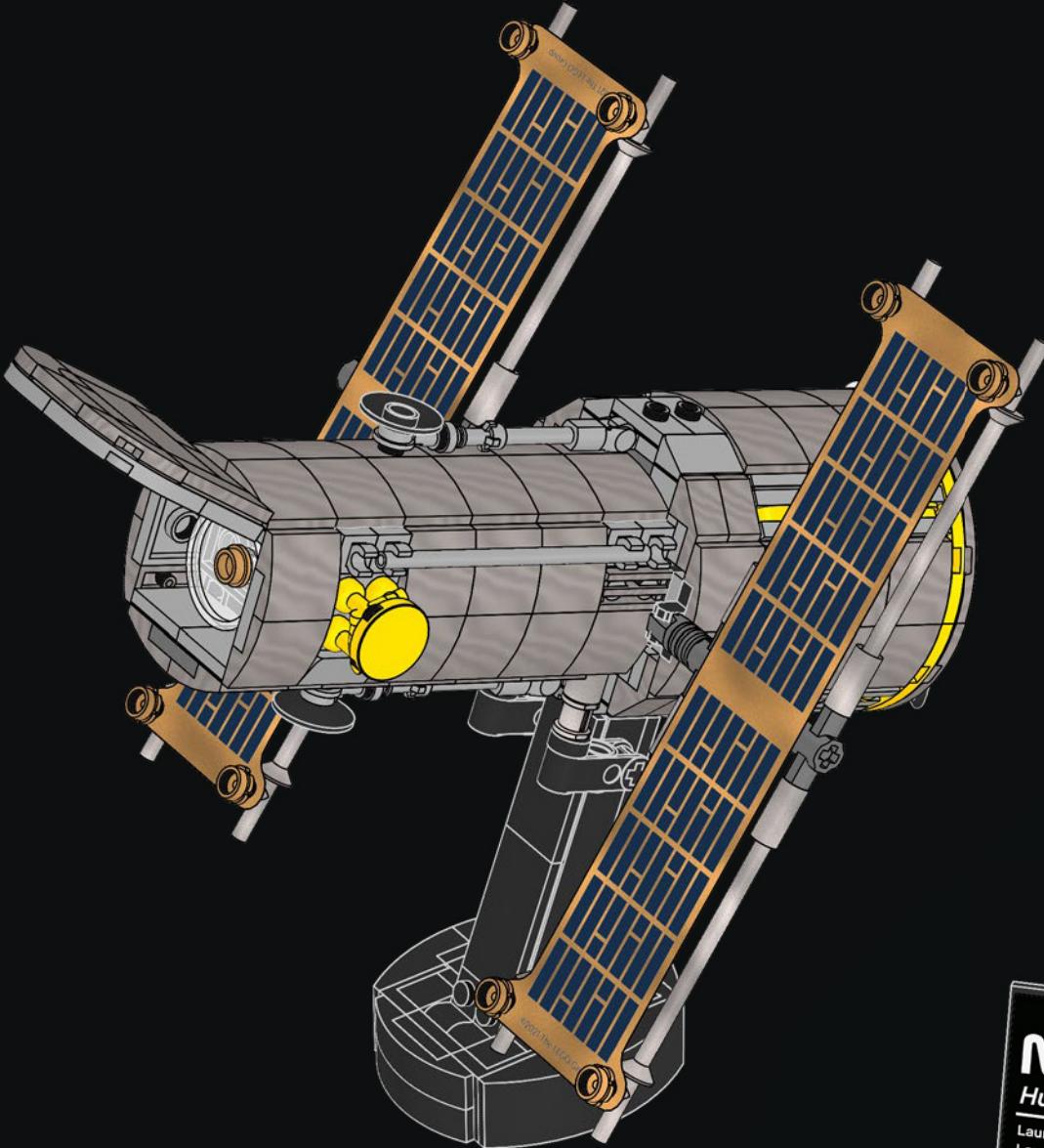
2x

56

## ¿LO SABÍAS?

El telescopio espacial Hubble es responsable de tomar las imágenes de mayor profundidad del universo que se hayan captado, las cuales contienen algunas galaxias a más de 13.000 millones de años luz de distancia.





**NASA**  **esa**  
*Hubble Space Telescope*

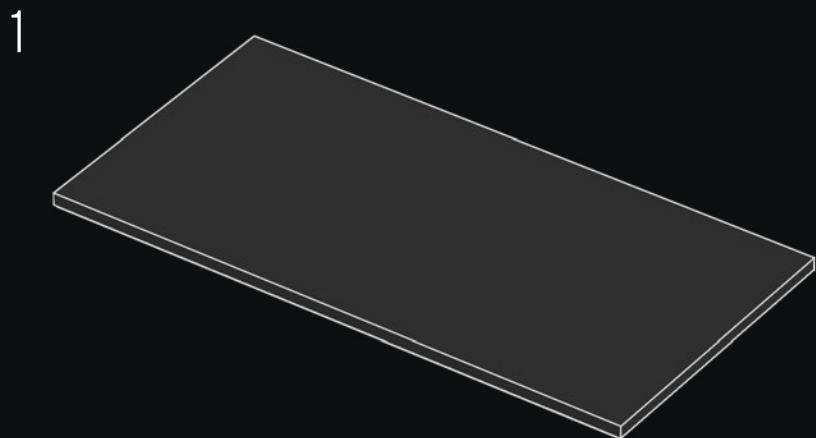
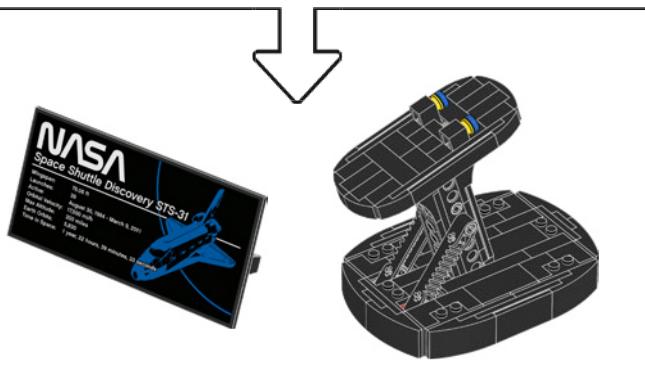
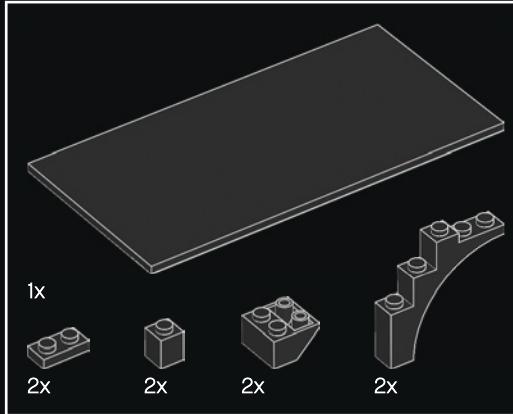
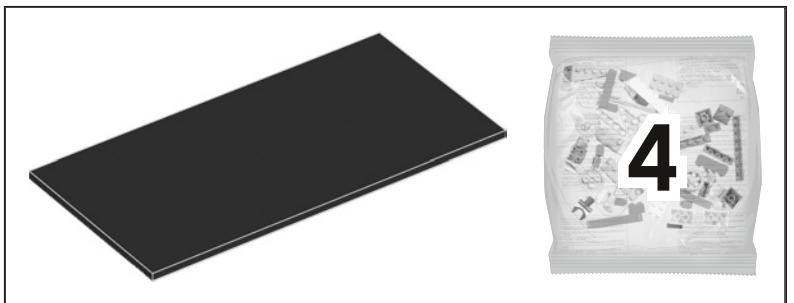
Launch:	April 24, 1990
Launch Mass:	24,490 lbs
Velocity:	4.72 mi/s
Deploy Altitude:	350 miles

## TRANSBORDADOR ESPACIAL DISCOVERY

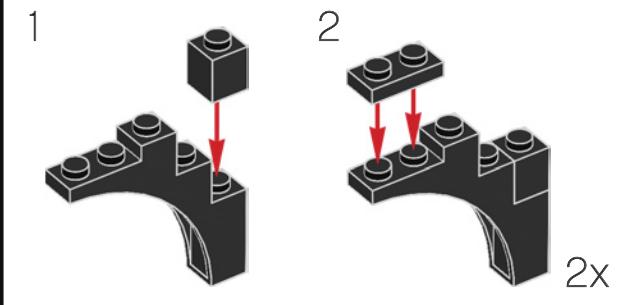
El Programa de Transbordadores Espaciales surge por la necesidad de contar con naves espaciales reutilizables que pudieran transportar y poner en órbita grandes cargas útiles. El Discovery (OV-103) fue el tercer vehículo orbital de la flota de la NASA, a la que se incorporó en noviembre de 1983. Llegó a realizar 39 misiones, recorrió 238 millones de kilómetros, completó 5830 órbitas alrededor de la Tierra y pasó casi 365 días en el espacio a lo largo de sus 27 años de servicio. La misión de 5 días encargada de desplegar el Hubble partió del Centro Espacial Kennedy de la NASA el 24 de abril de 1990. Los diseñadores crearon el telescopio para que se ajustara con precisión a las dimensiones de la bodega de carga del transbordador.



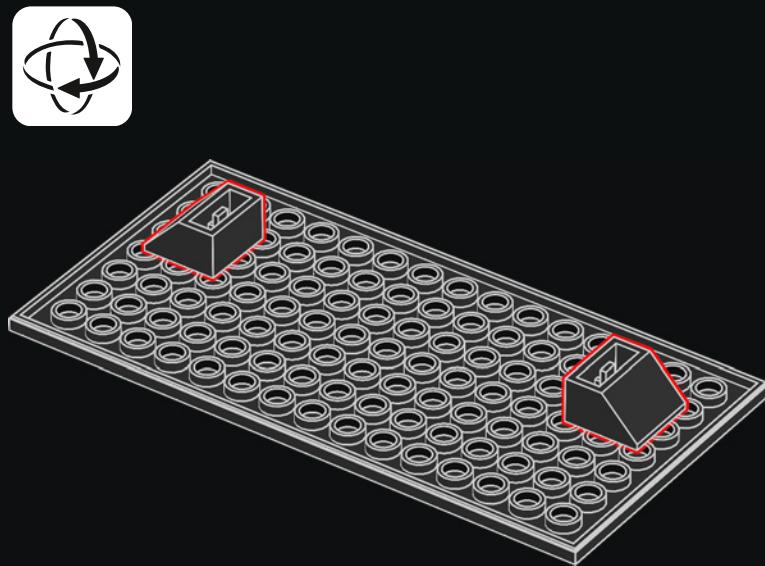




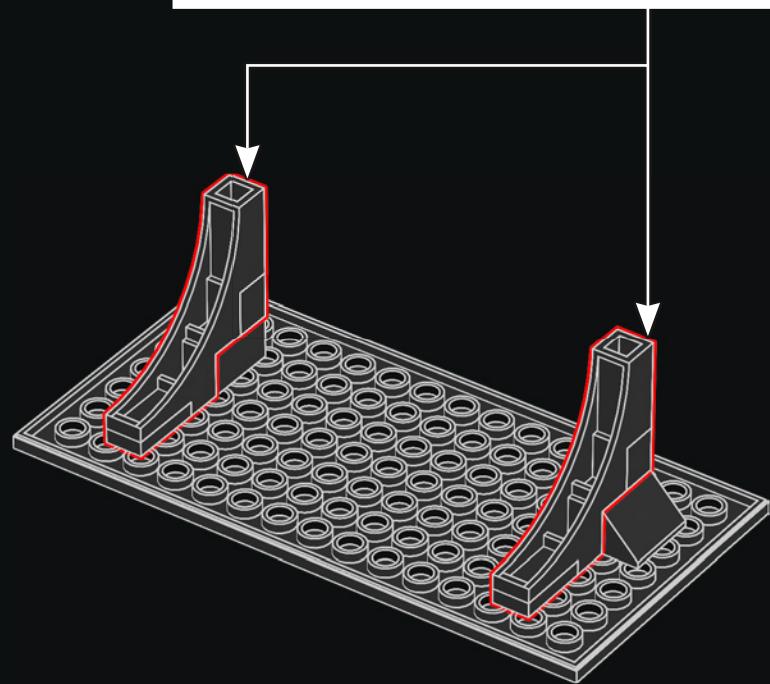
2

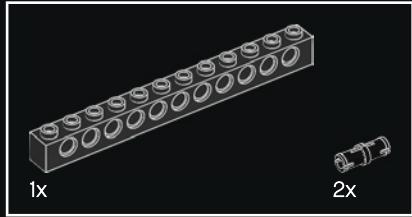
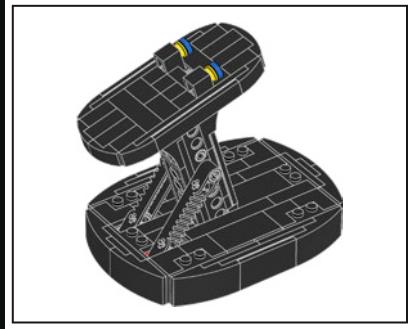


3

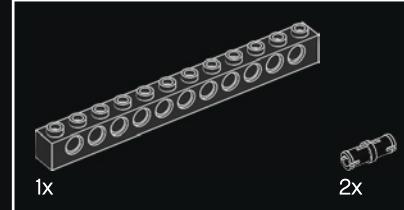
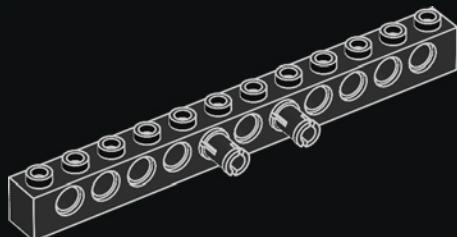


4

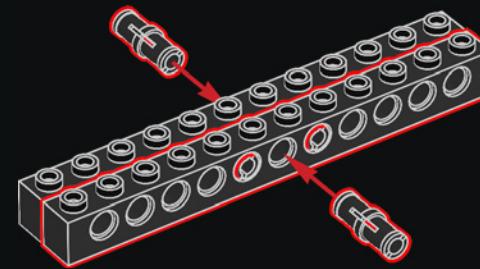




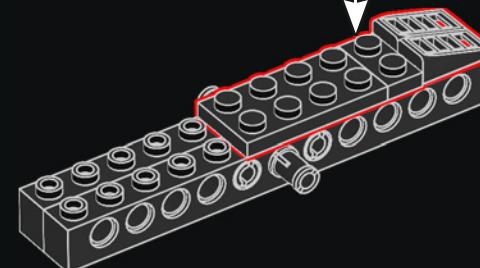
1

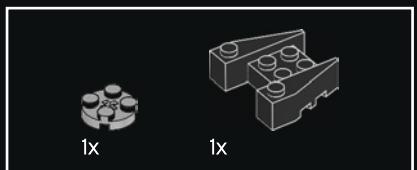


2

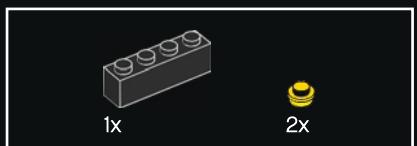
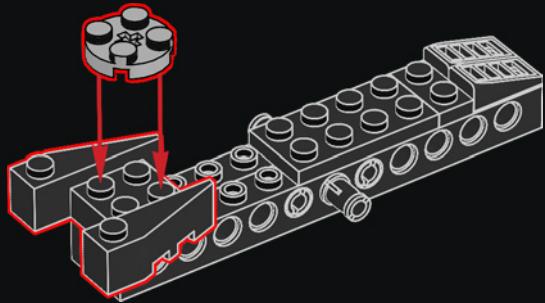


3

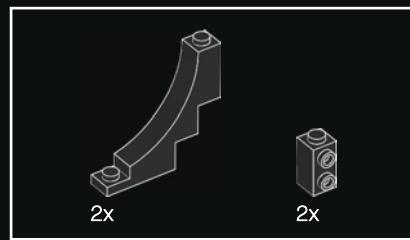
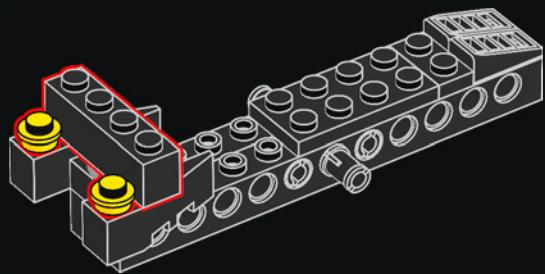




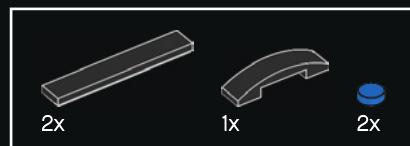
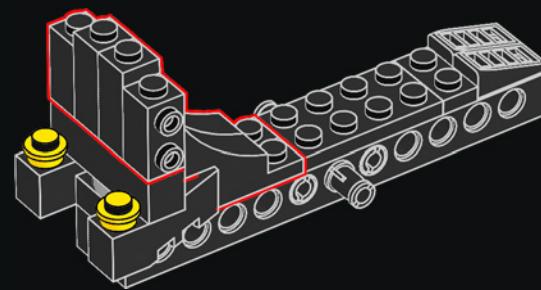
4



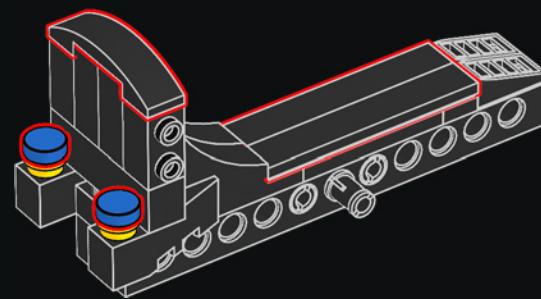
5

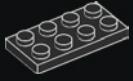


6



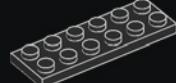
7





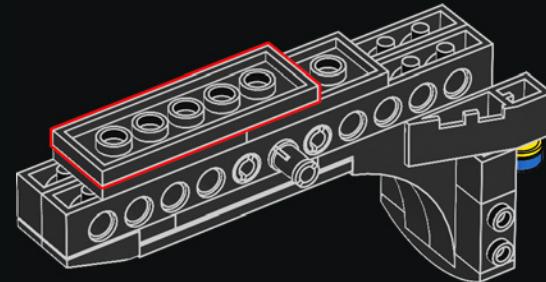
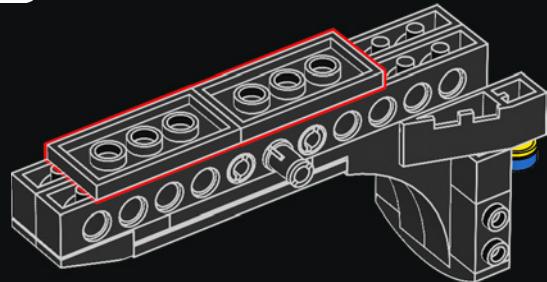
2x

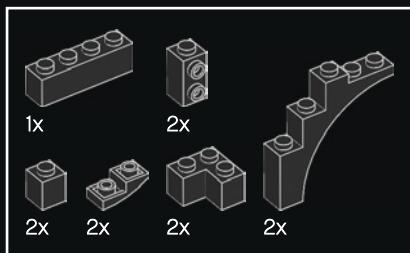
8



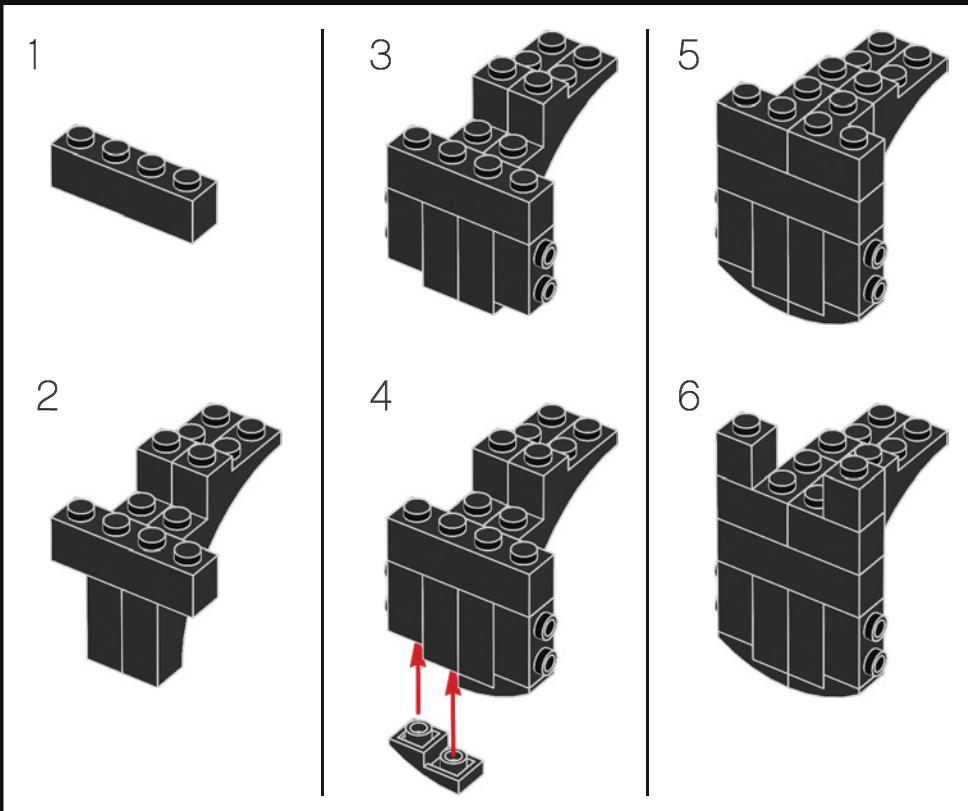
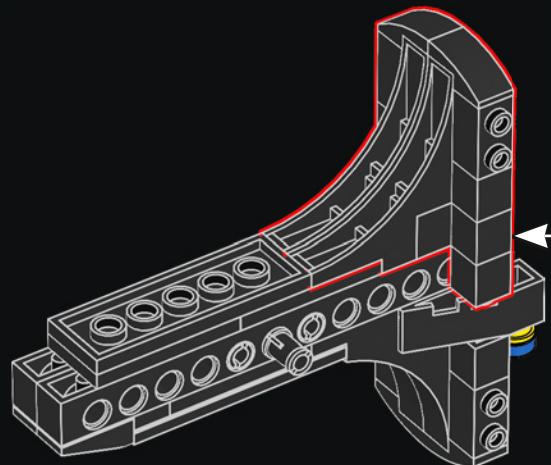
1x

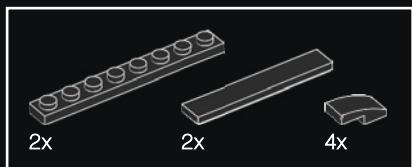
9



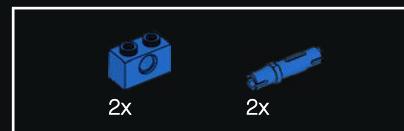
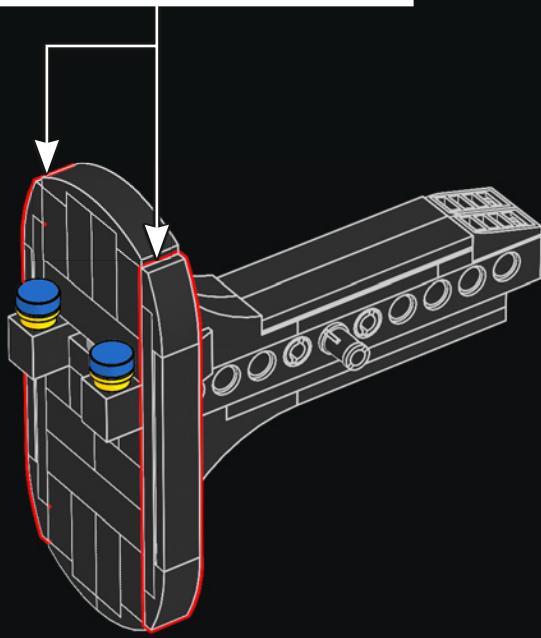
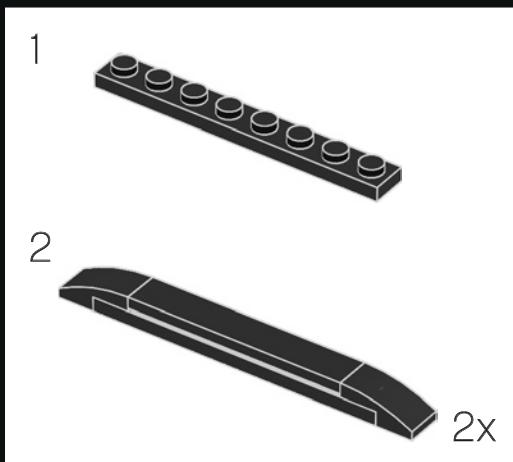


10

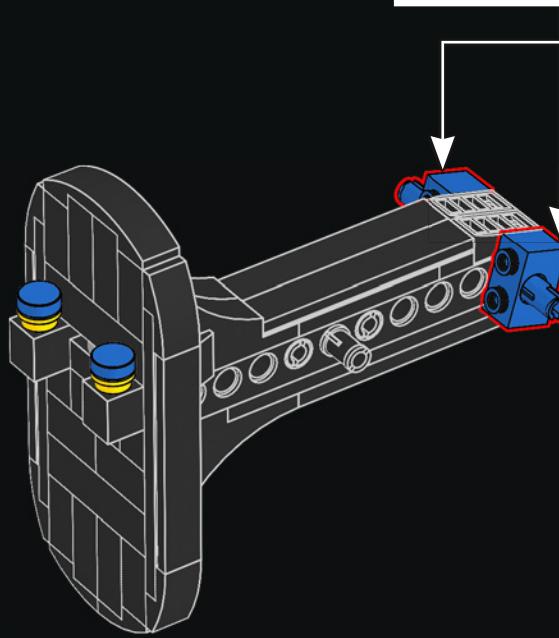
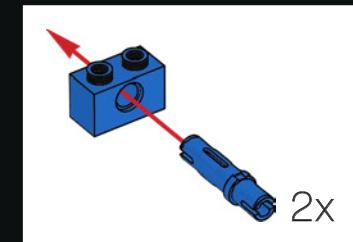


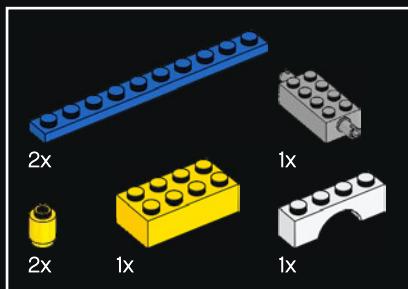


11

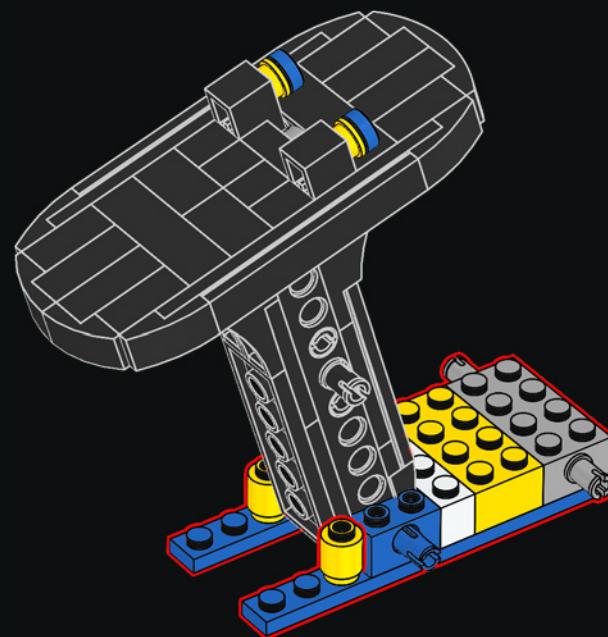
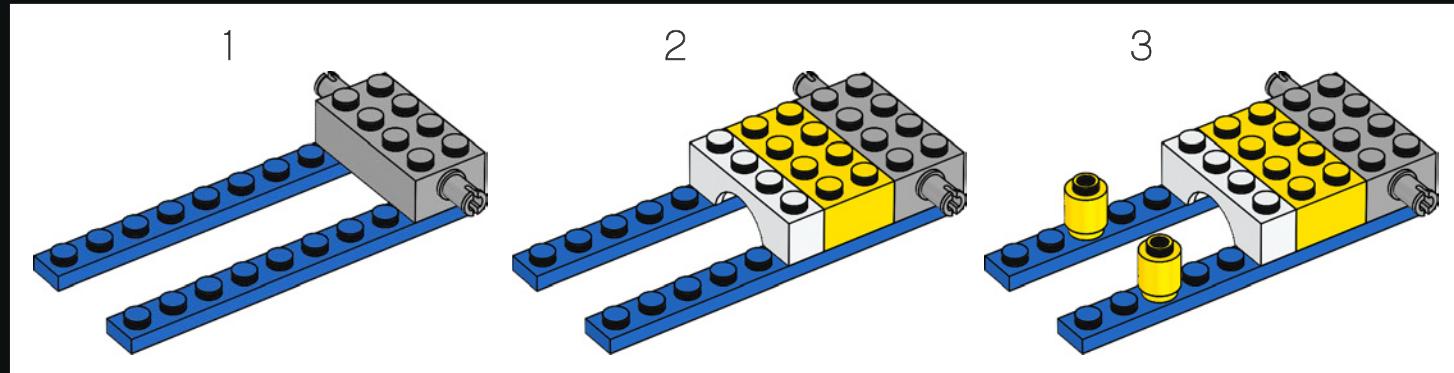


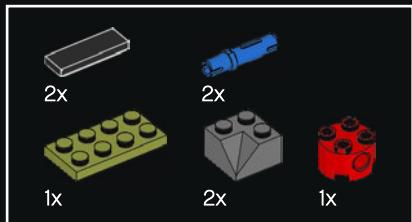
12



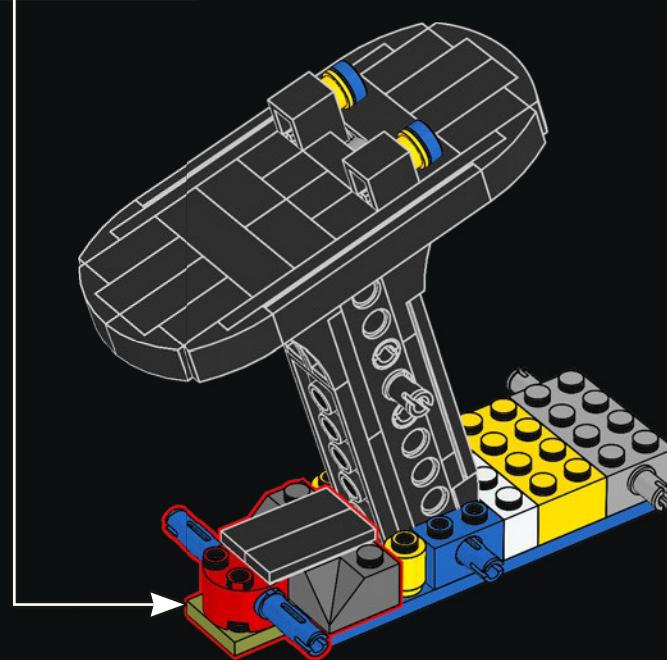
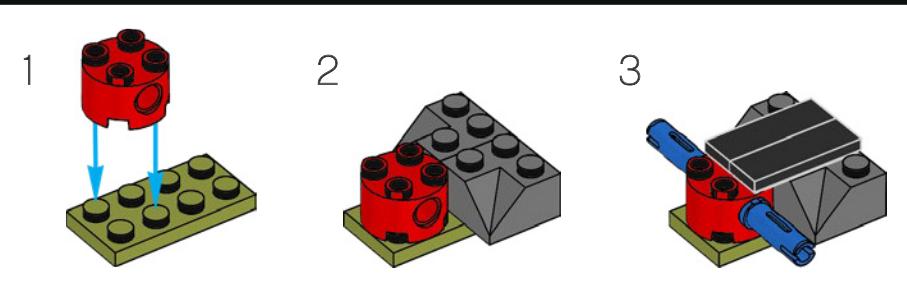


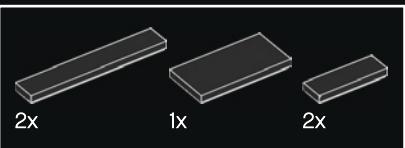
13



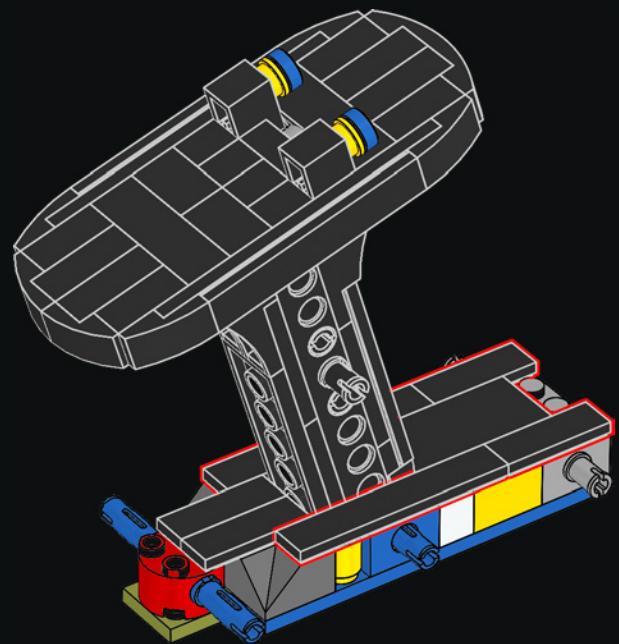


14

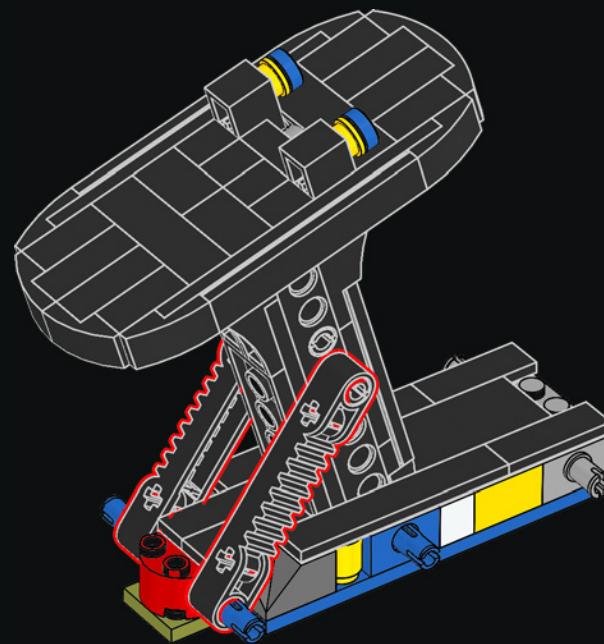




15

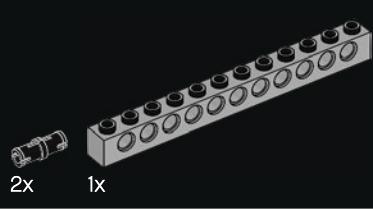


16

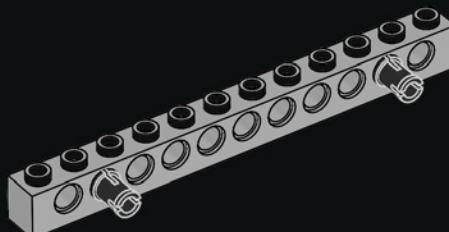




2x

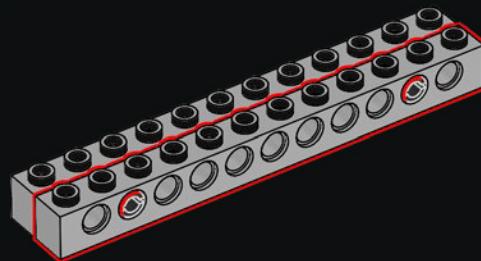


17



1x

18

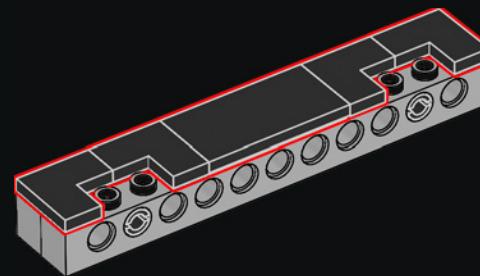


1x



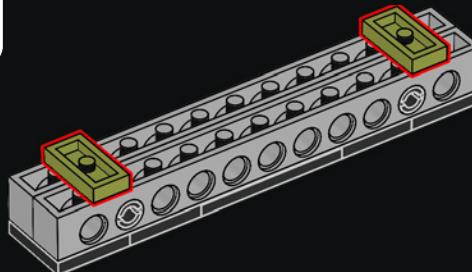
4x

19



2x

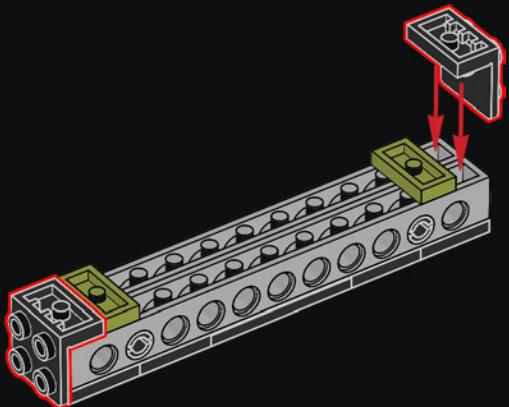
20





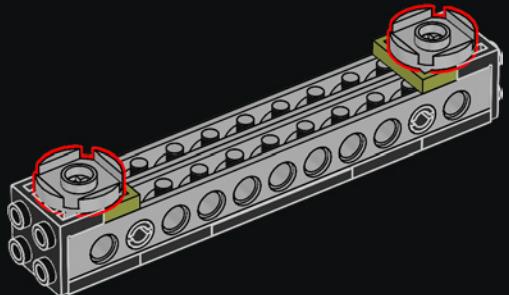
2x

21



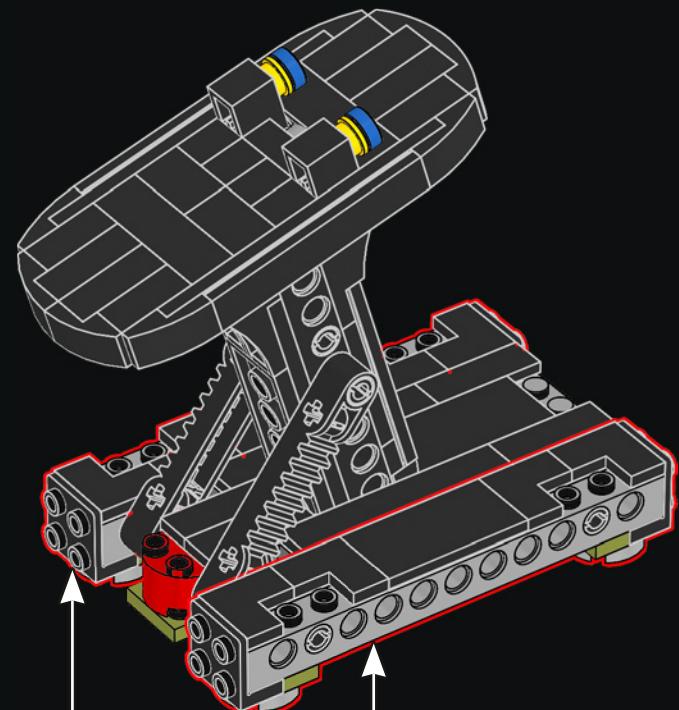
2x

22



2X

23



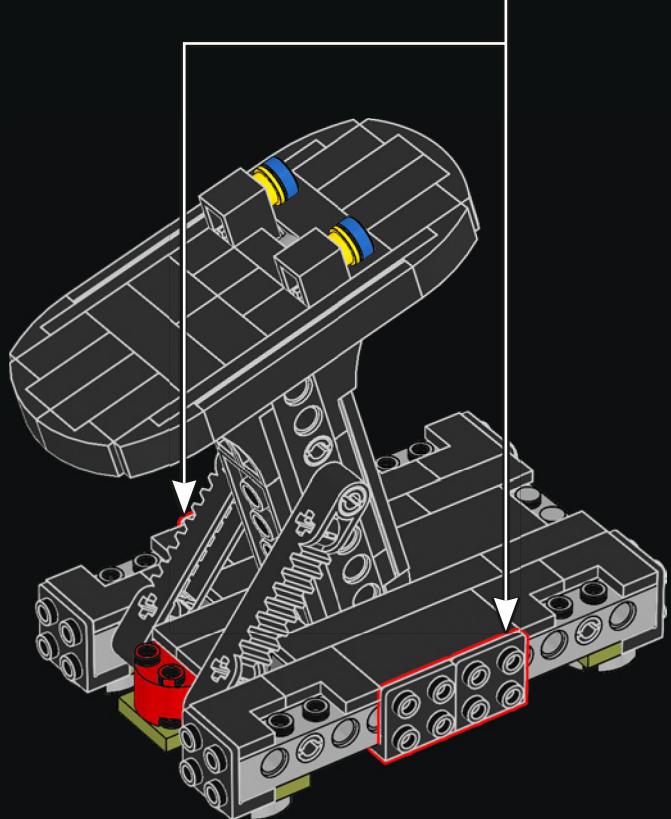


4x

24

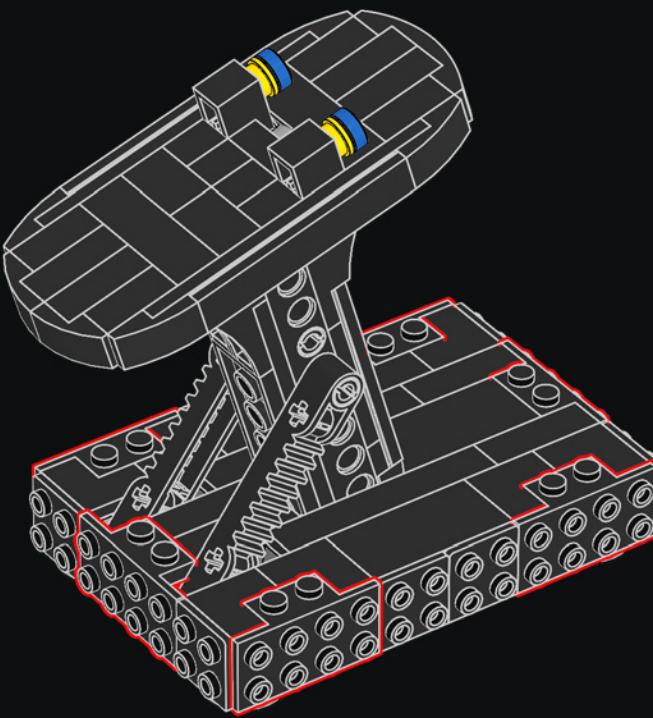


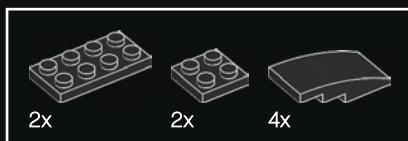
4x



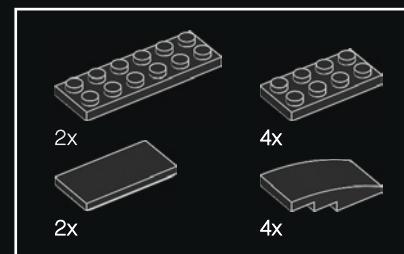
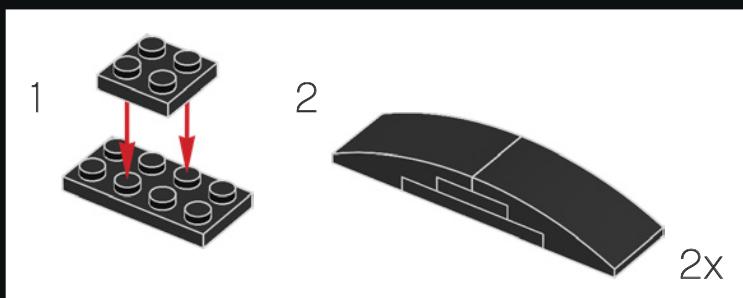
6x

25

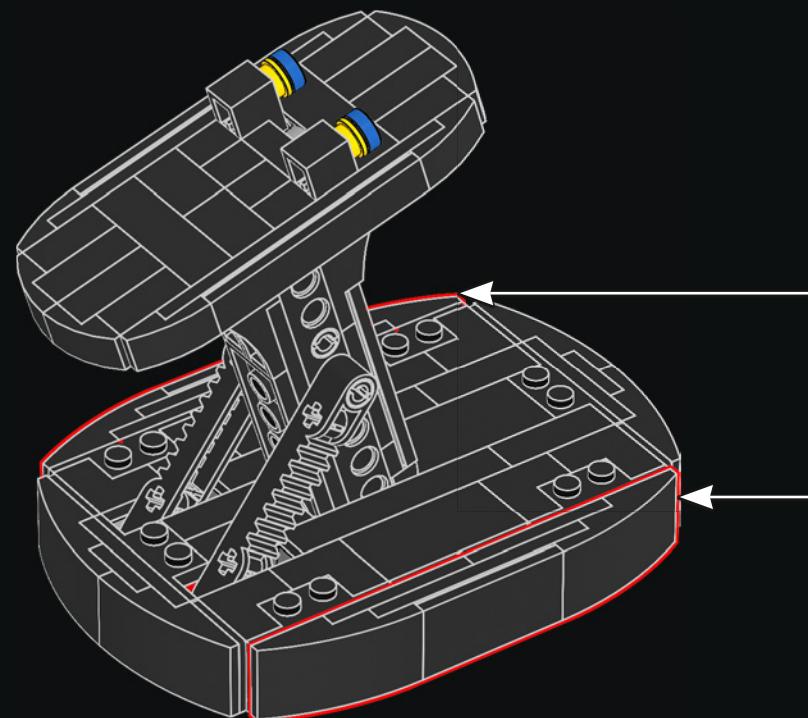
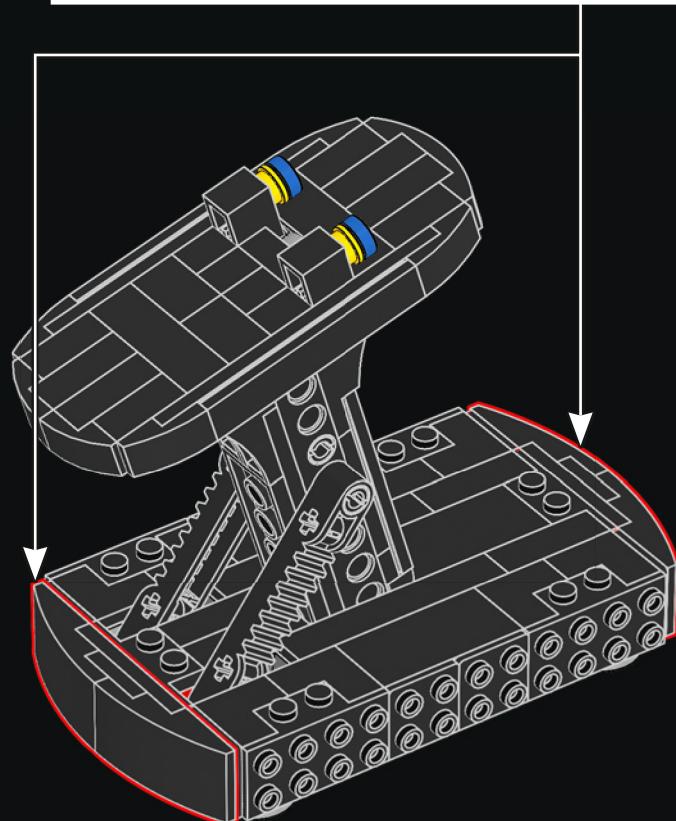
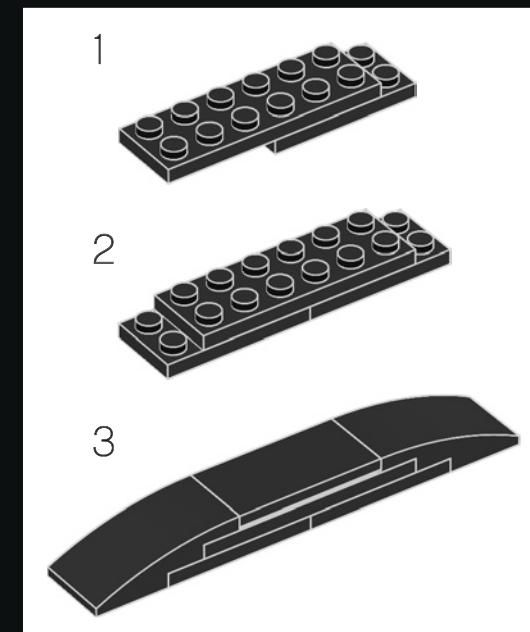


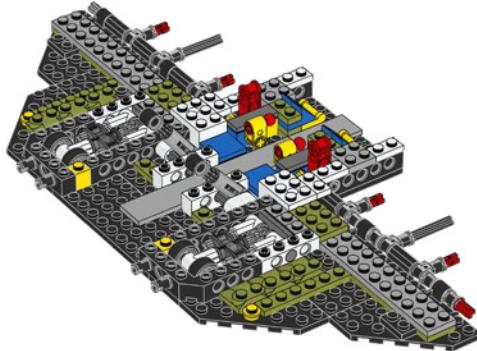


26



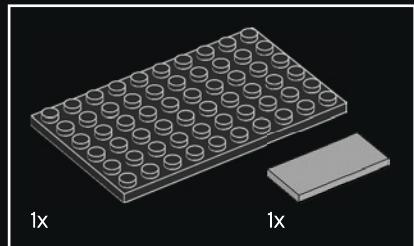
27



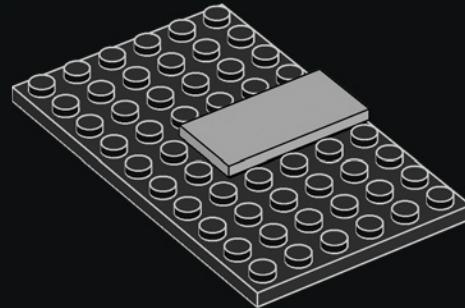


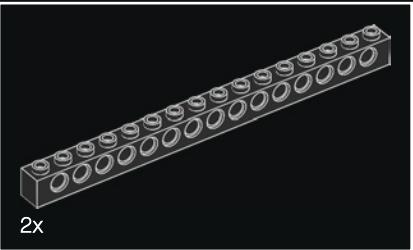
## ¿LO SABÍAS?

El Discovery transportó a 222 personas durante su tiempo de servicio, una cifra que ningún transbordador ha igualado.

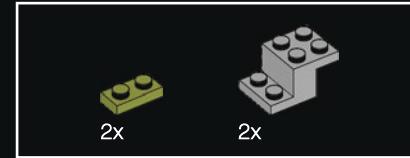


1

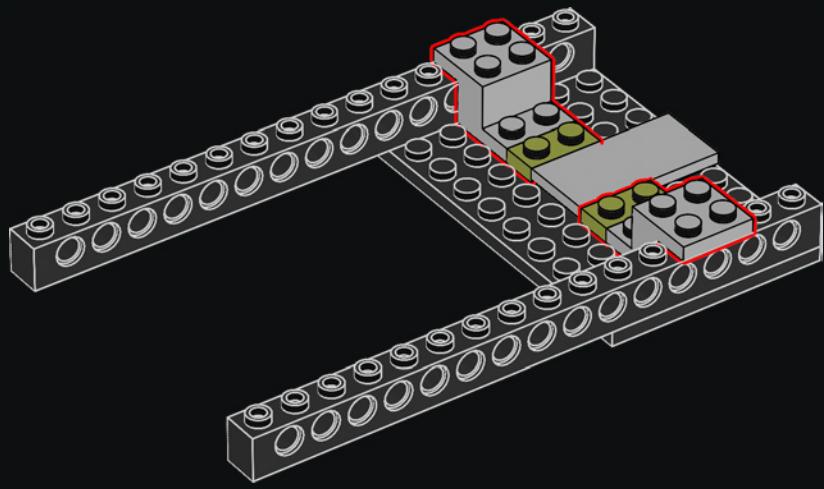
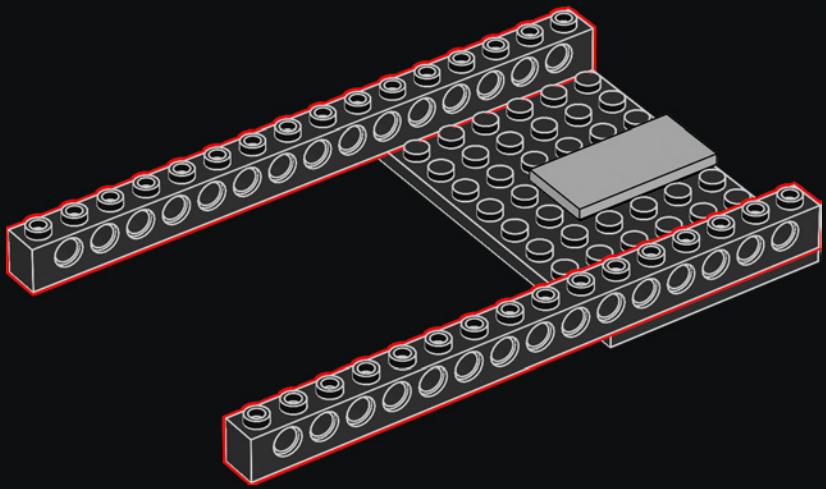




2

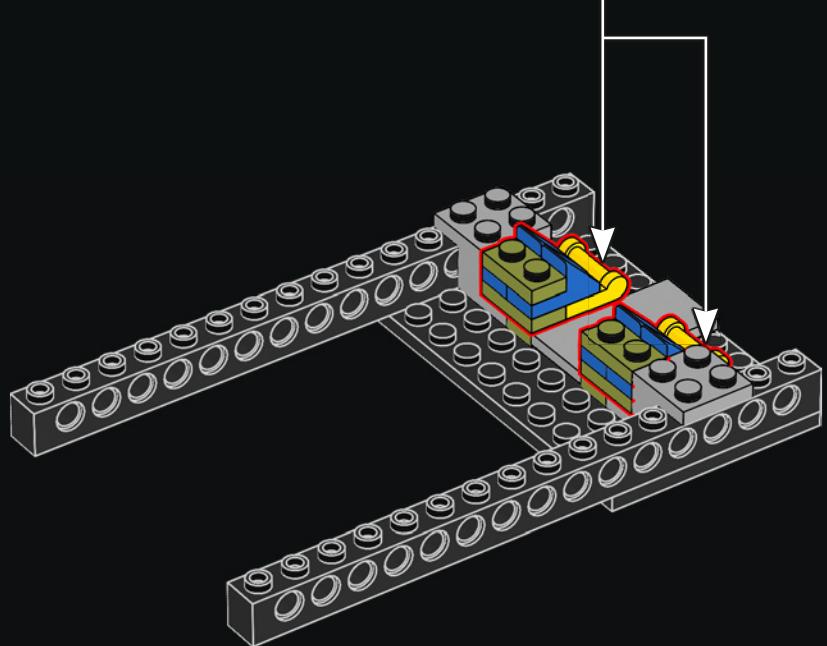
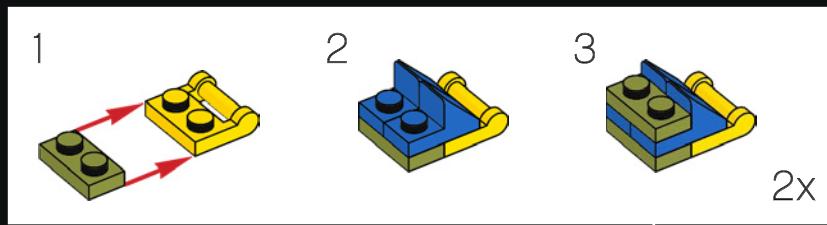


3



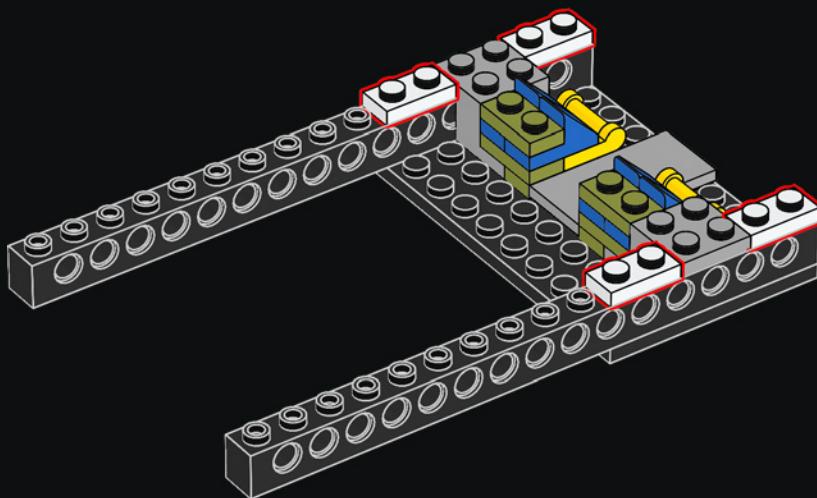


4



4x

5



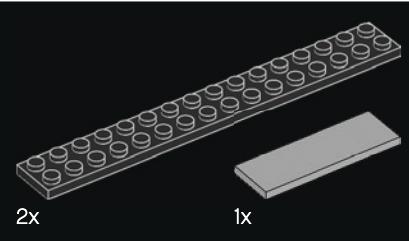
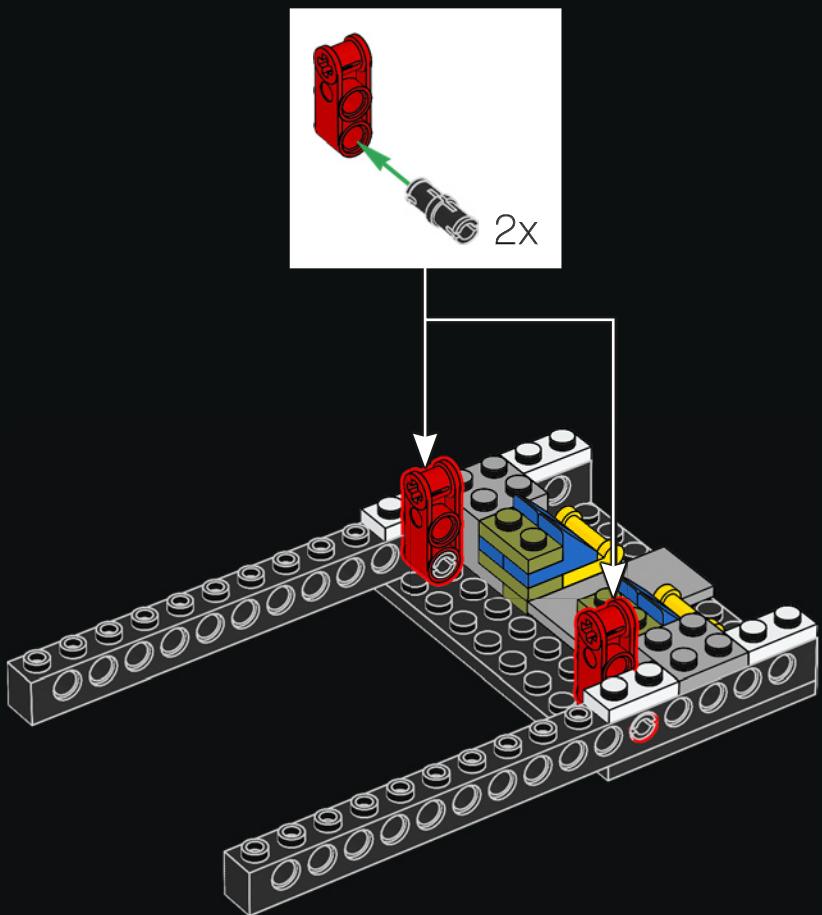


2x

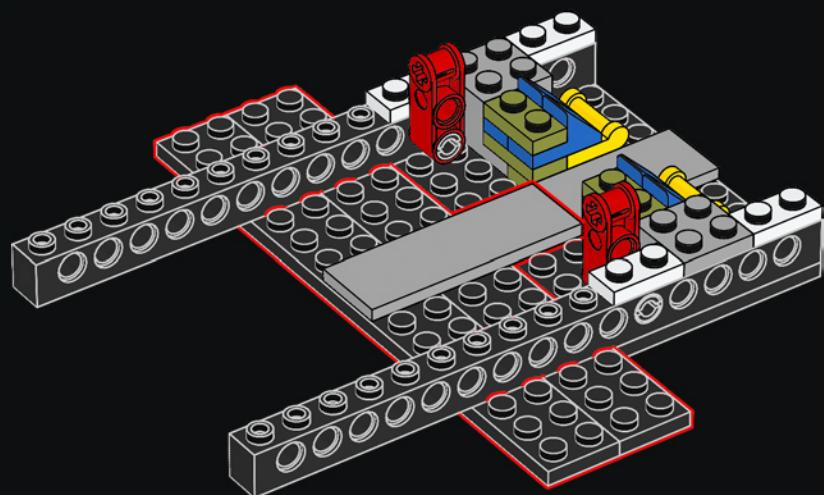


2x

6



7





2x

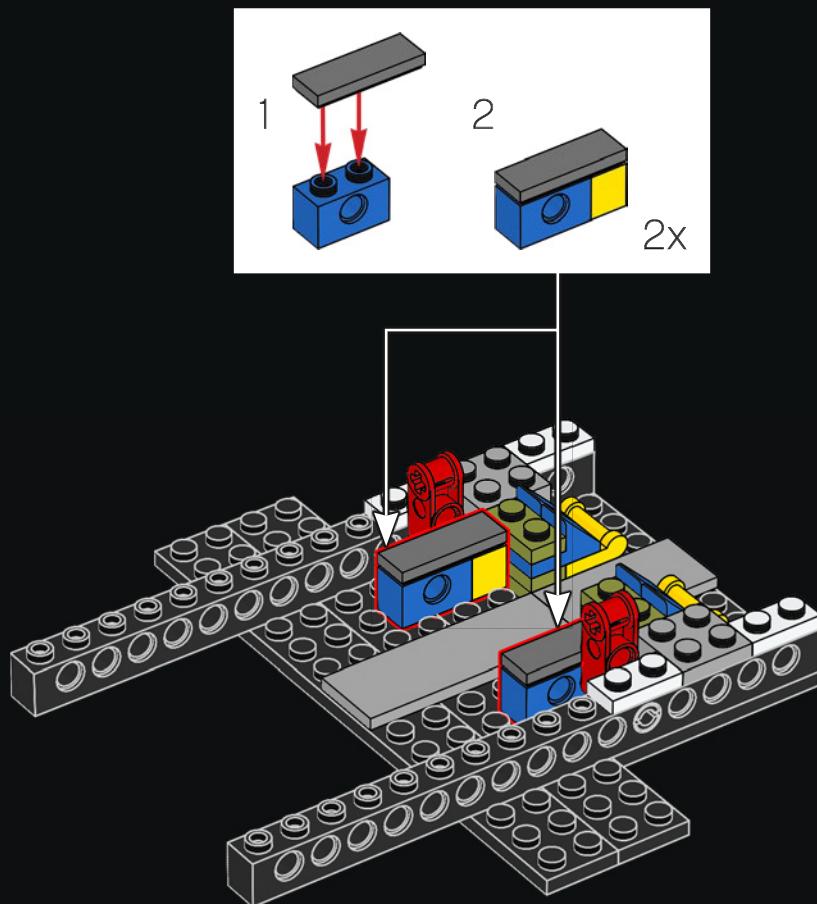


2x



2x

8



5

2x



2x



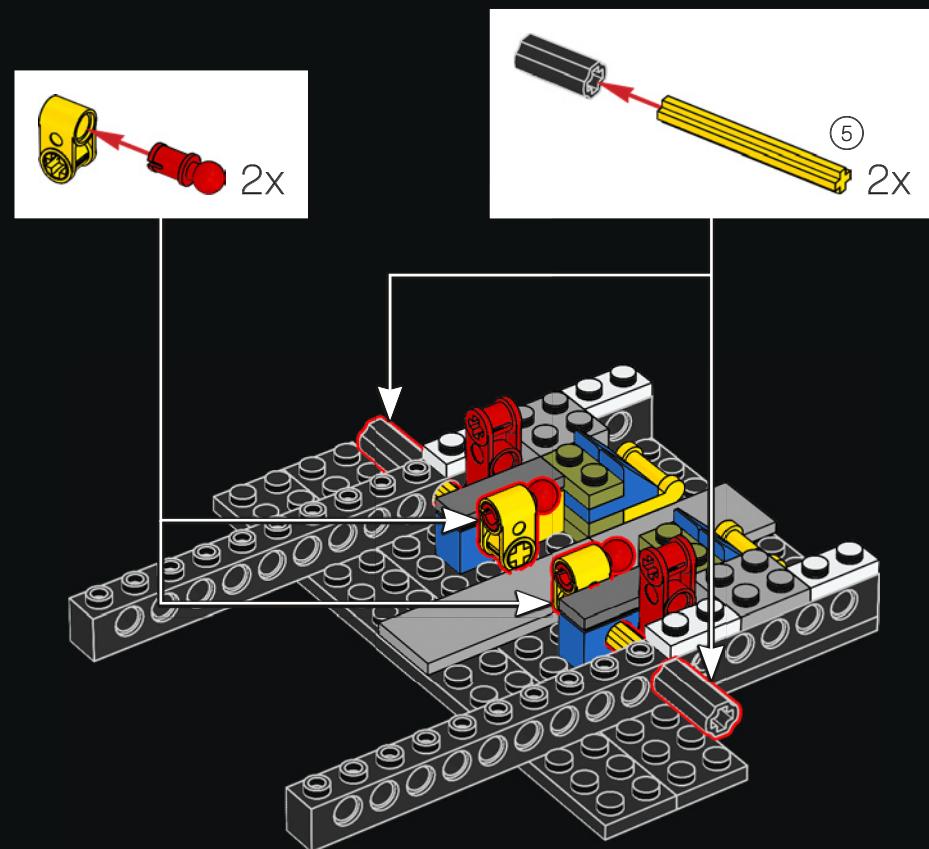
2x



2x

1:1

9



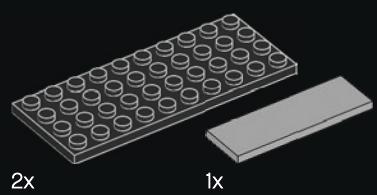
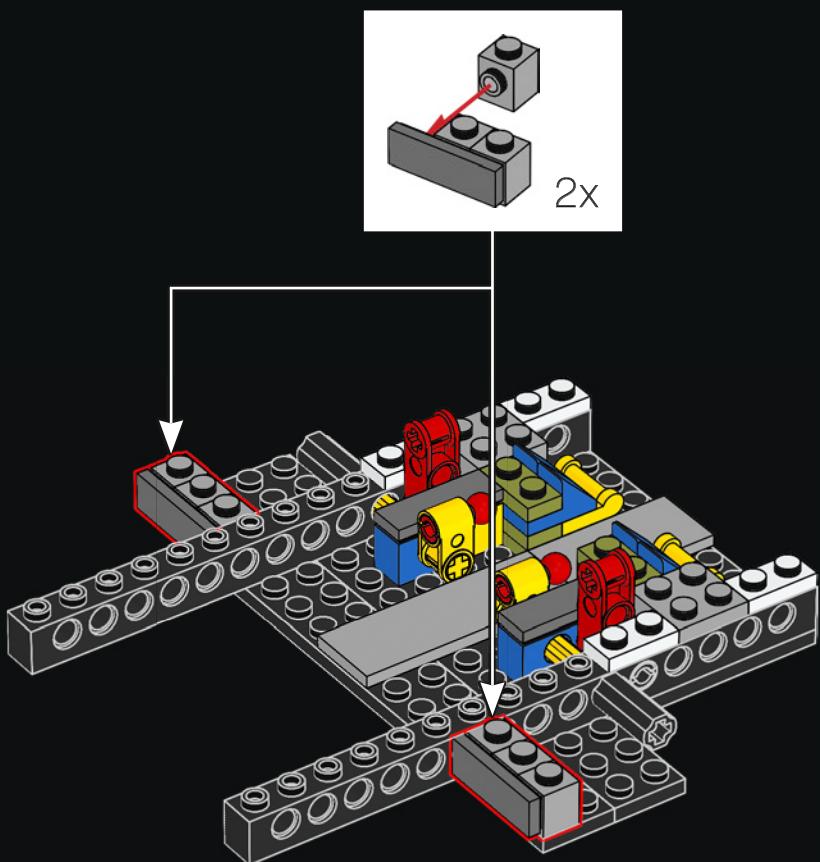


6x

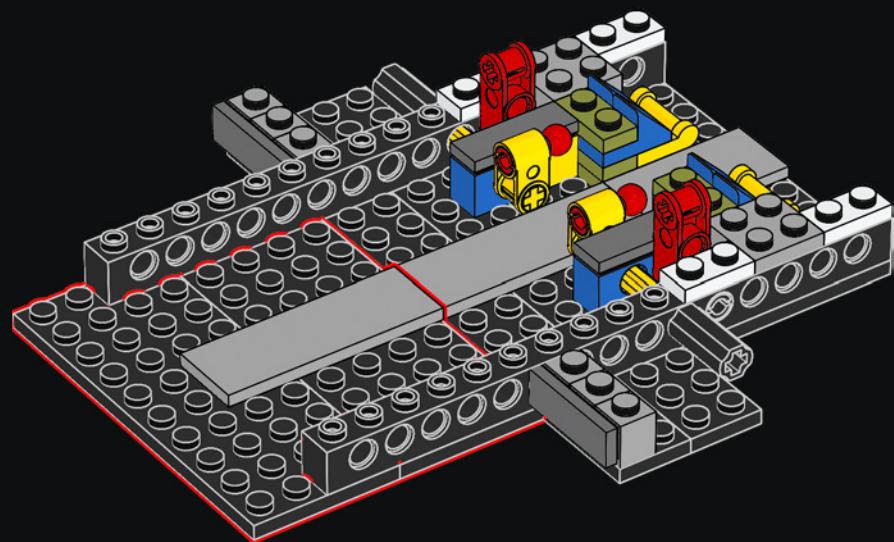


2x

10

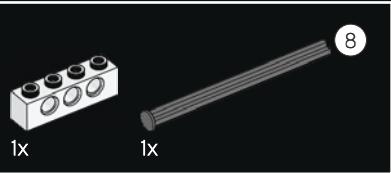


11

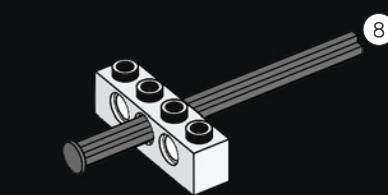




2x



1x

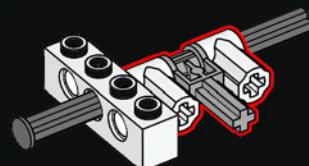


12



1x

2x

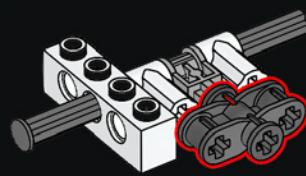


13



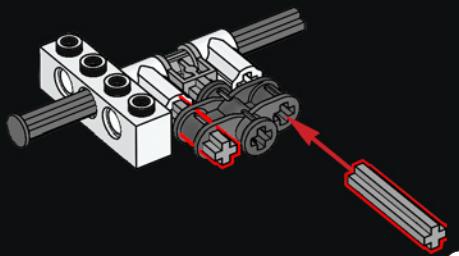
1x

14



2x

15



3

76

1:1

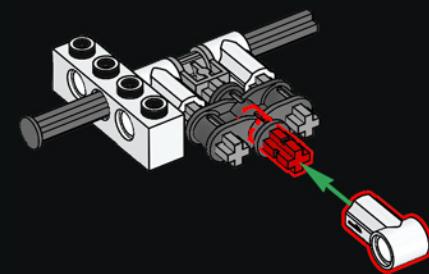


1x



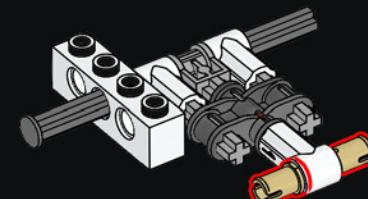
1x

16



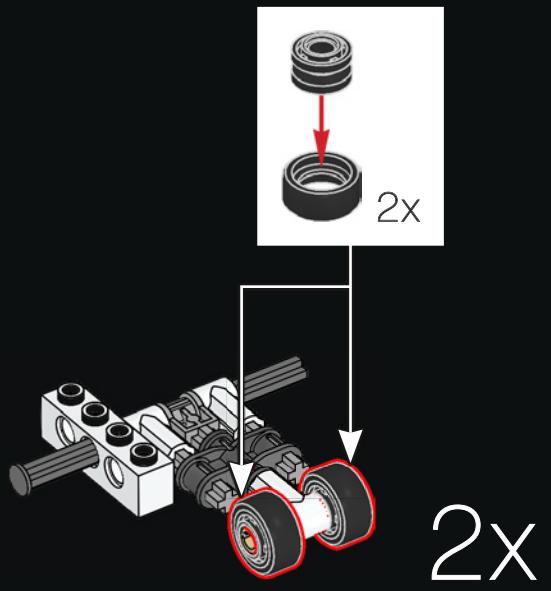
1x

17



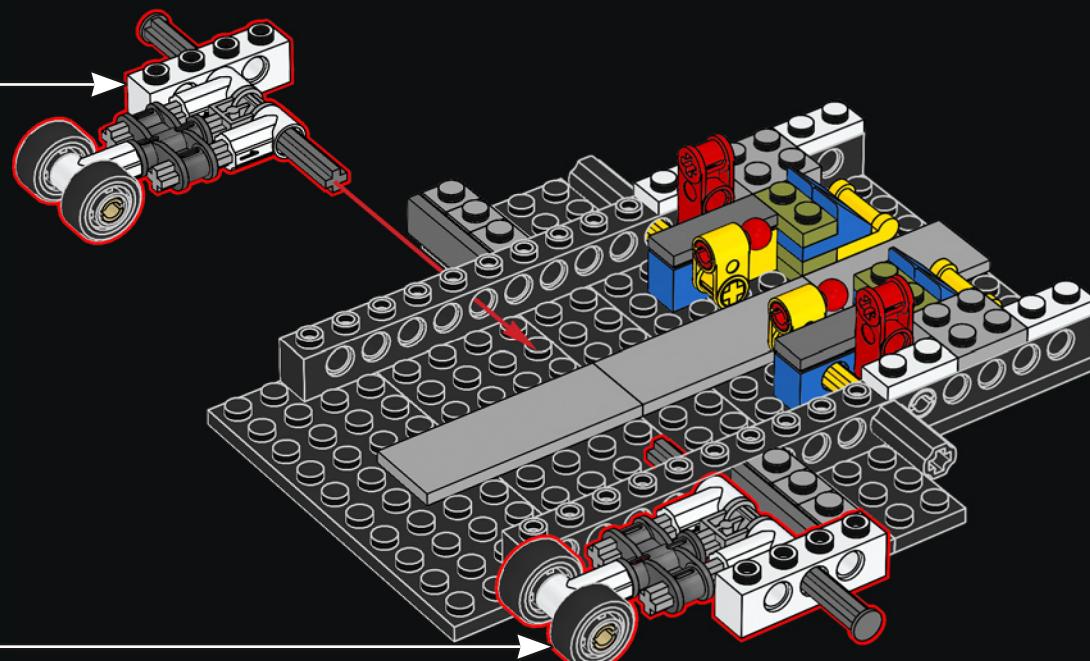


18



2X

19



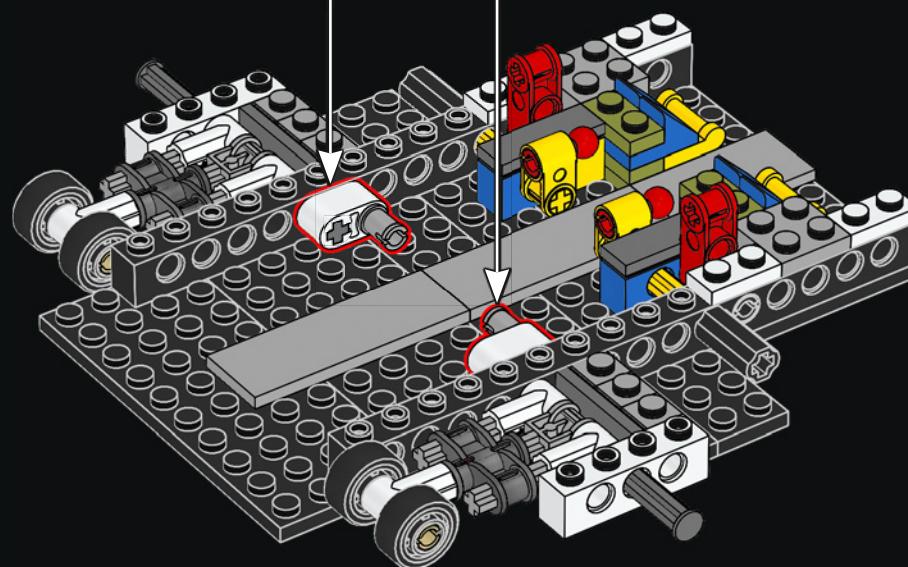
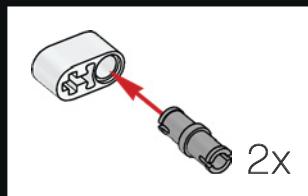


2x



2x

20



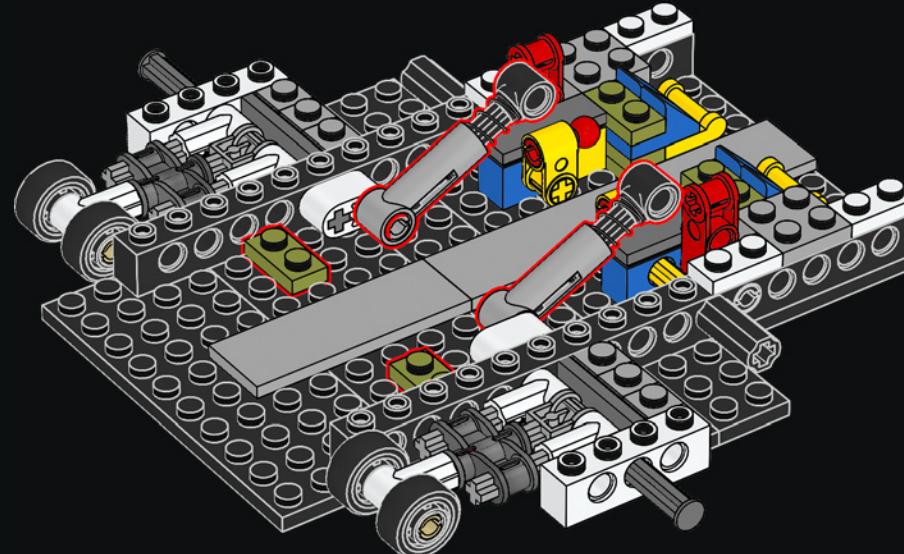


2x



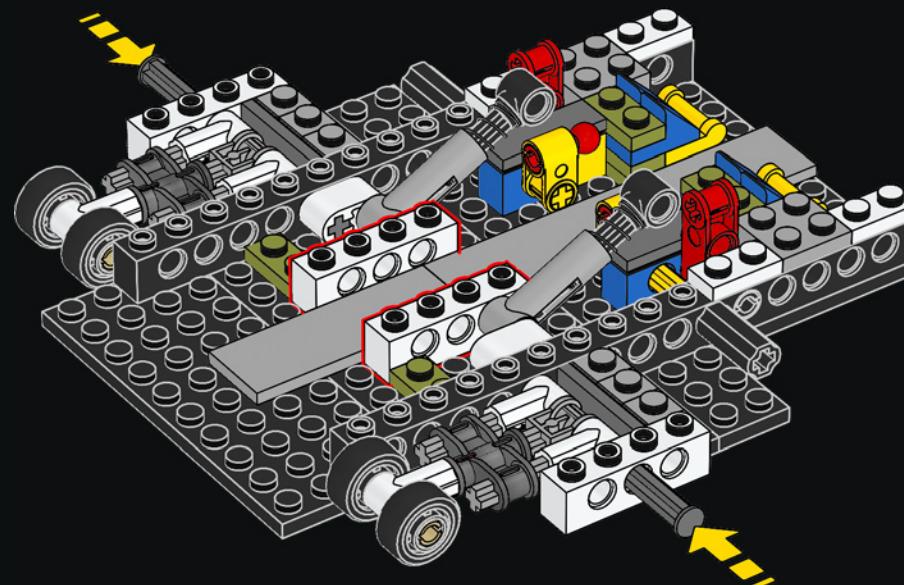
2x

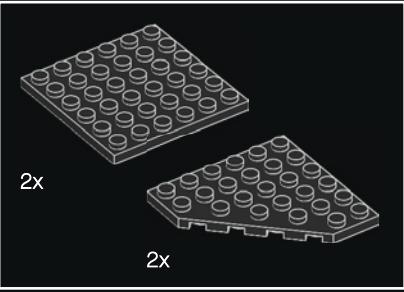
21



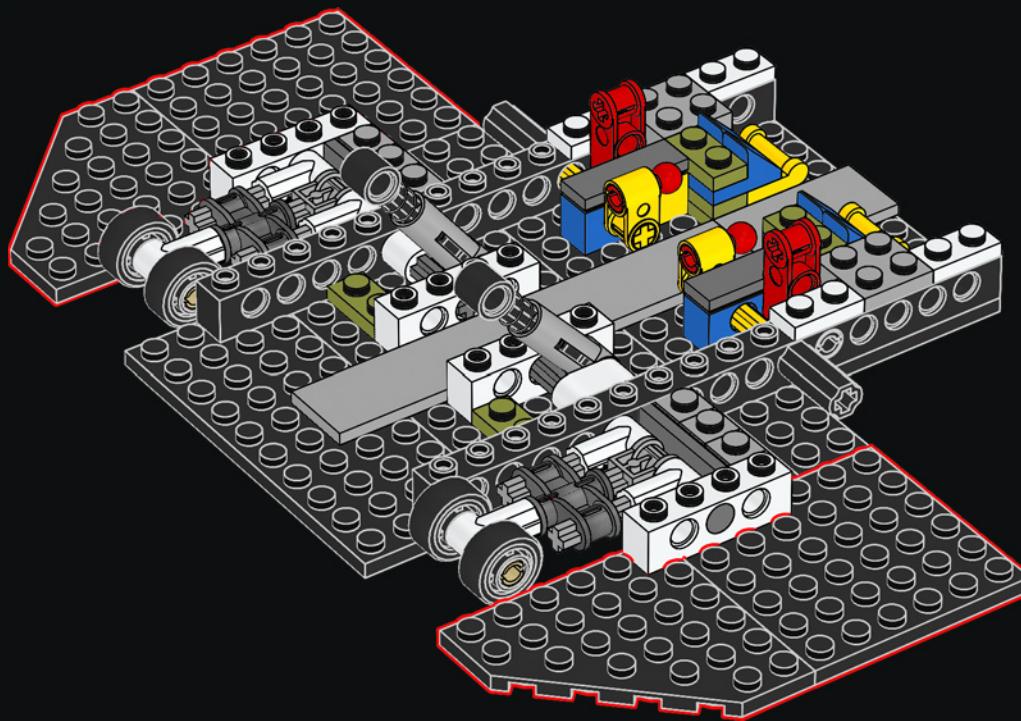
2x

22



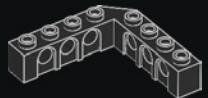


23



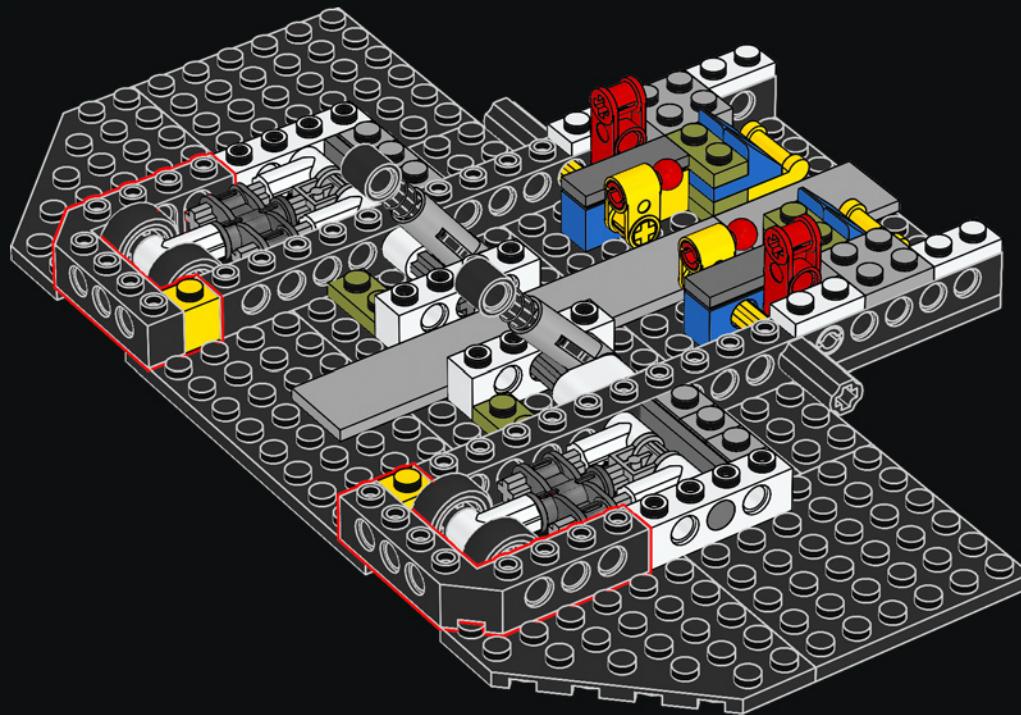


2x



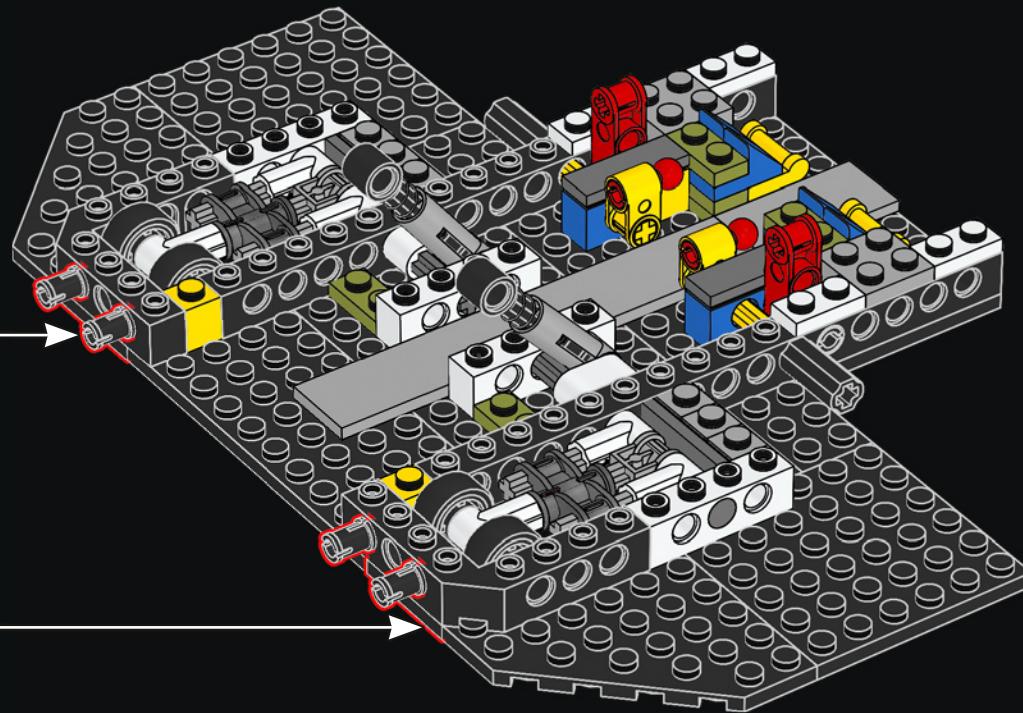
2x

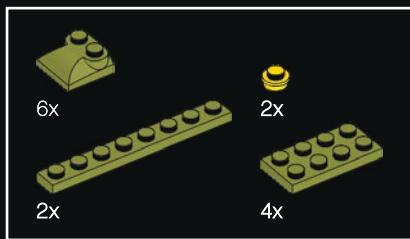
24



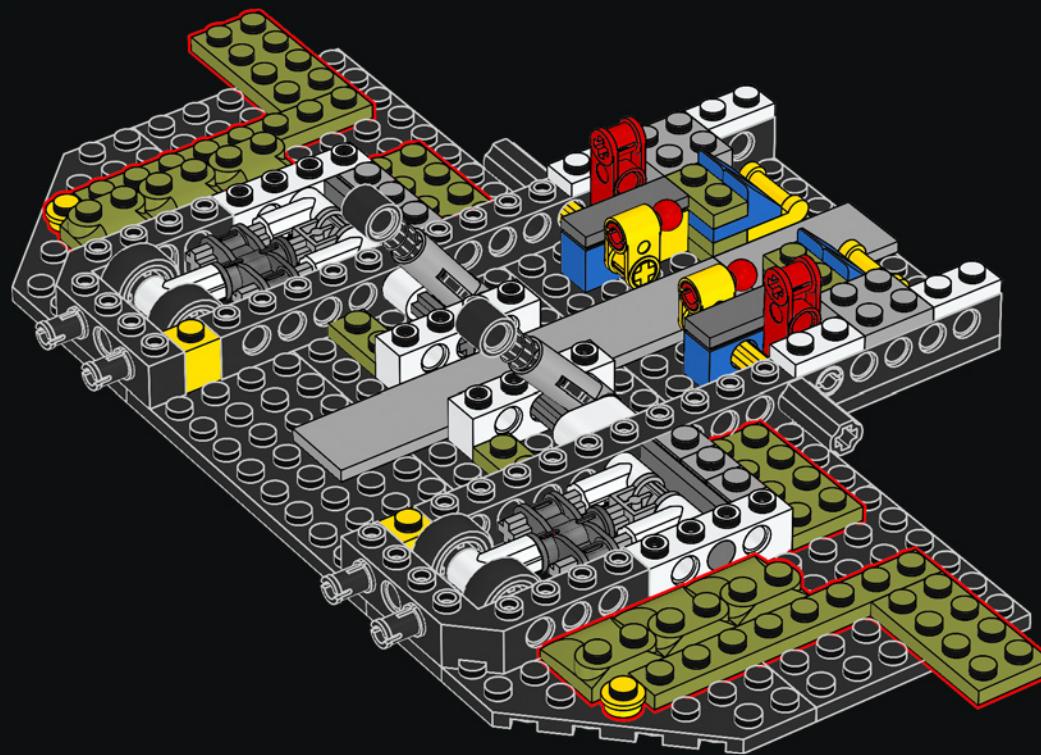


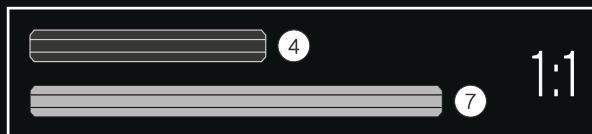
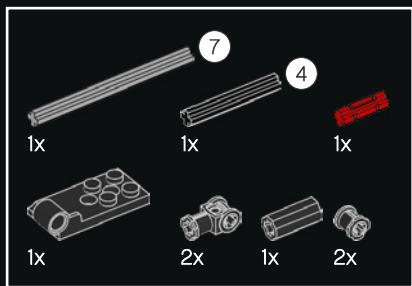
25





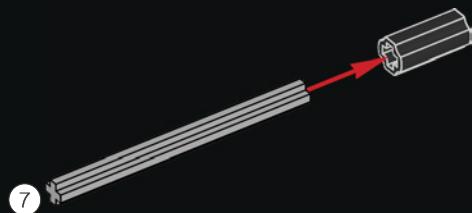
26



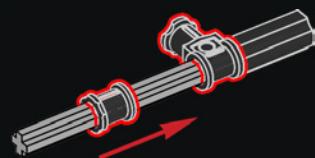


27

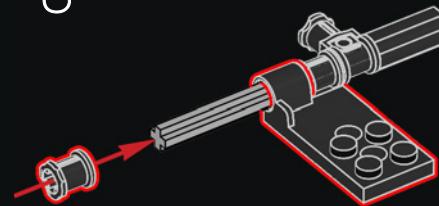
1



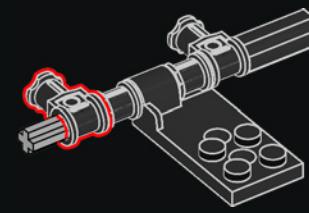
2



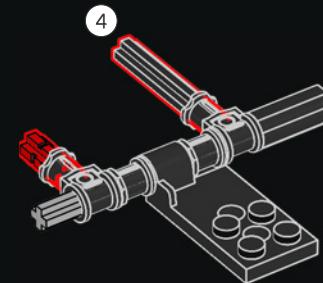
3

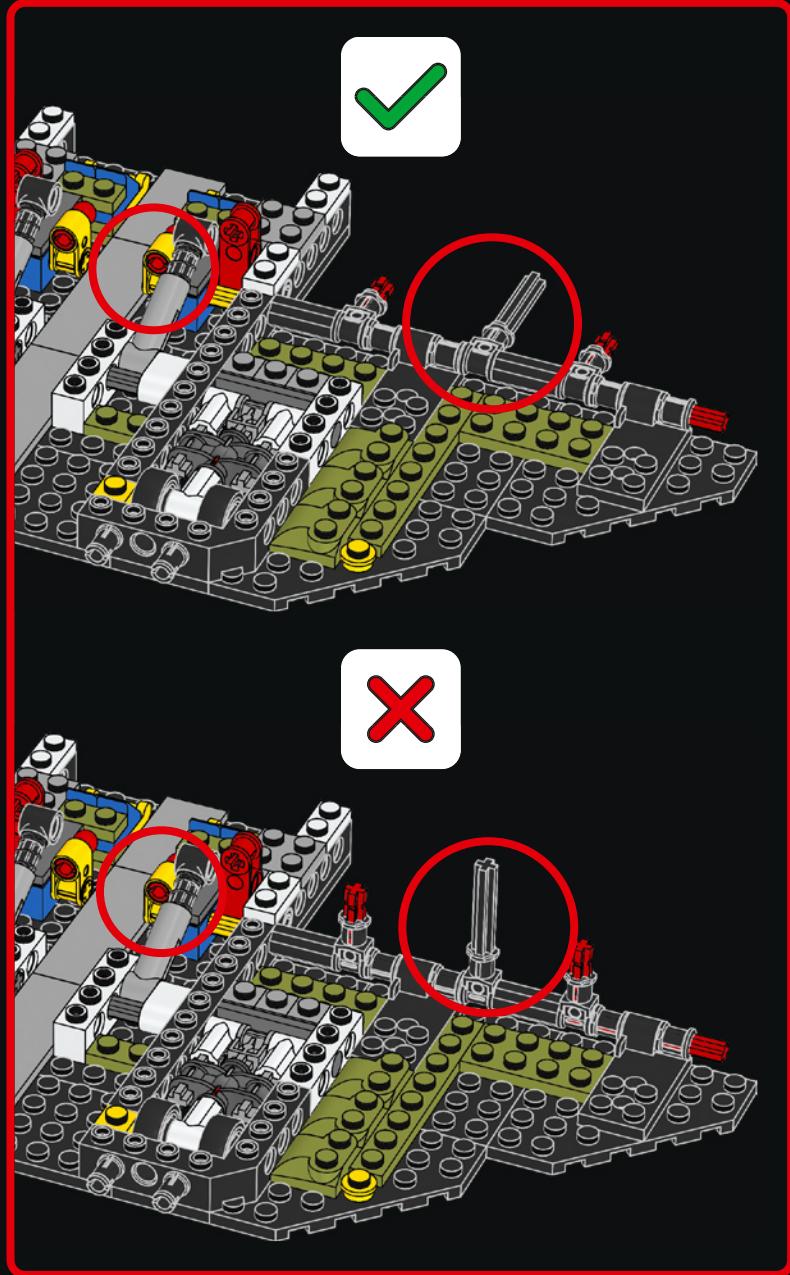
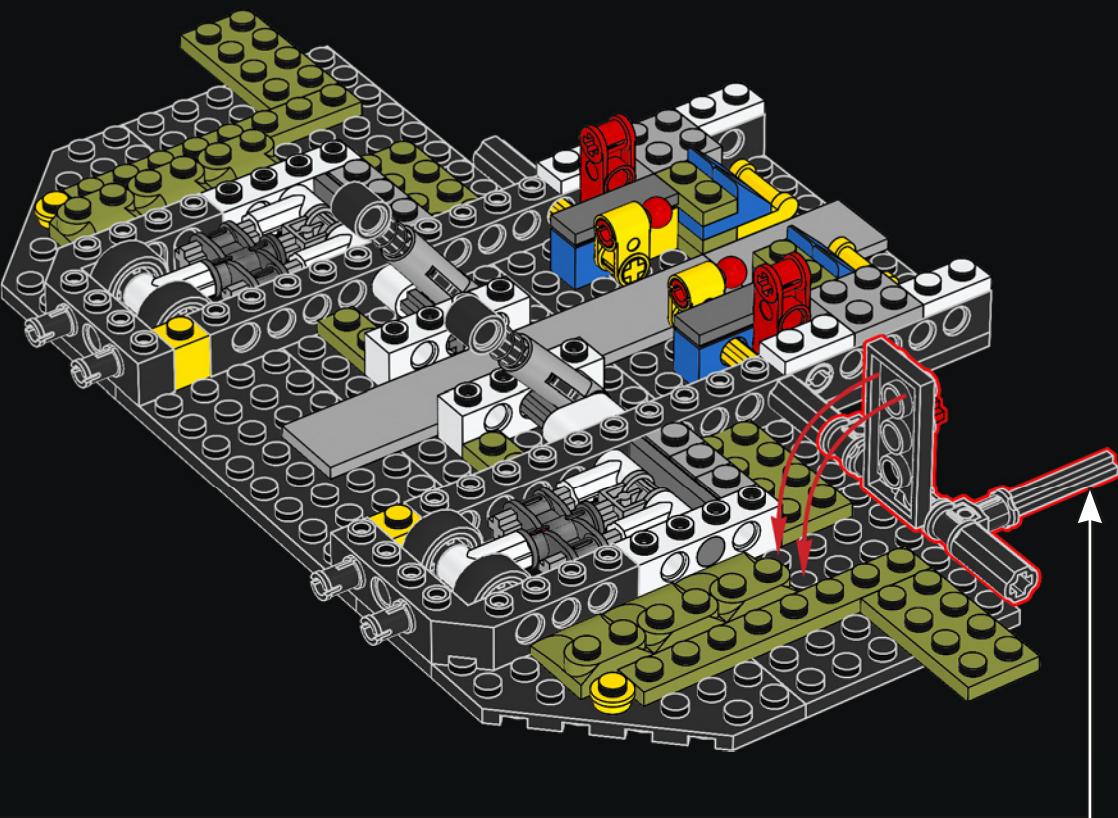


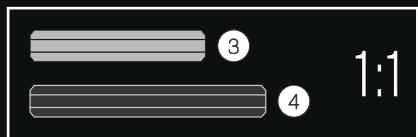
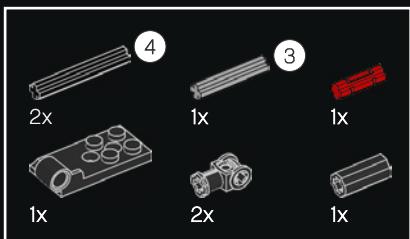
4



5

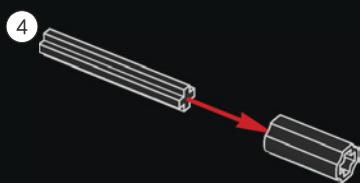




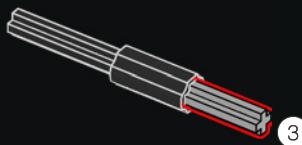


28

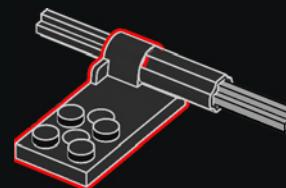
1



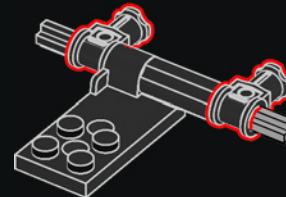
2



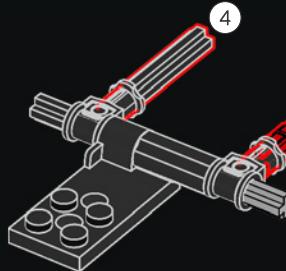
3

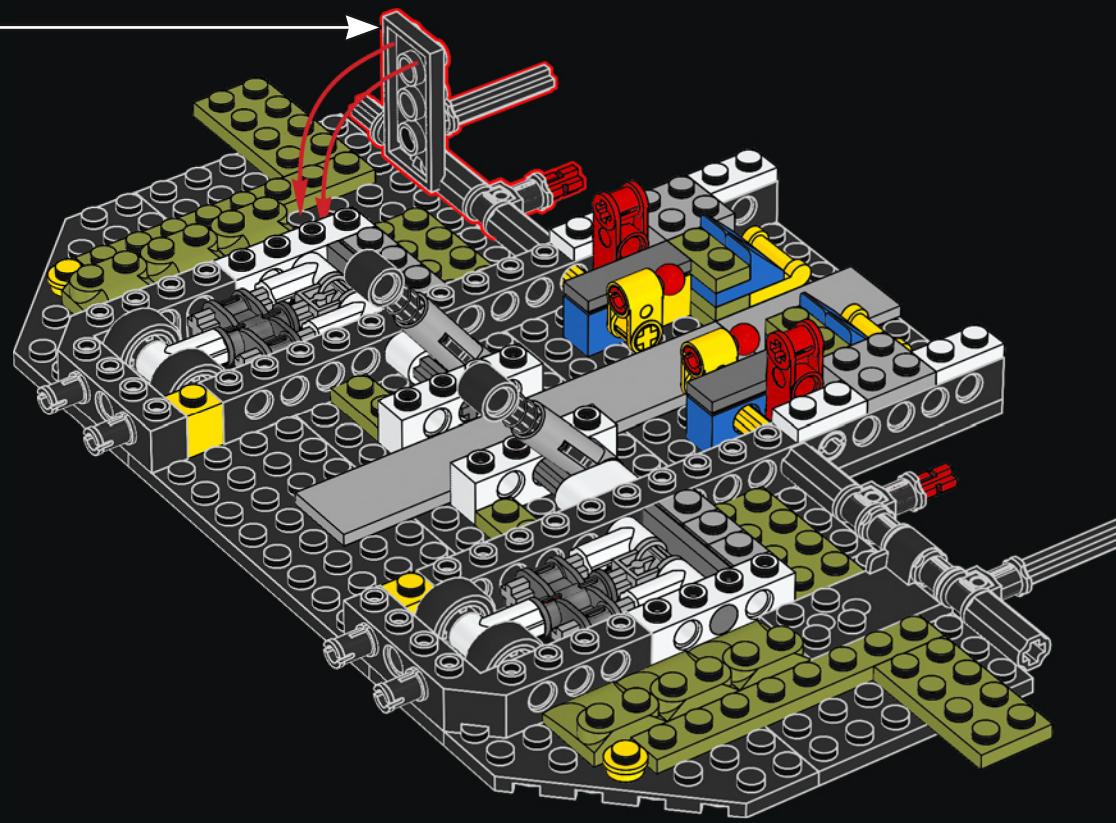


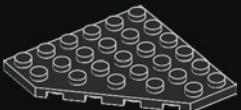
4



5

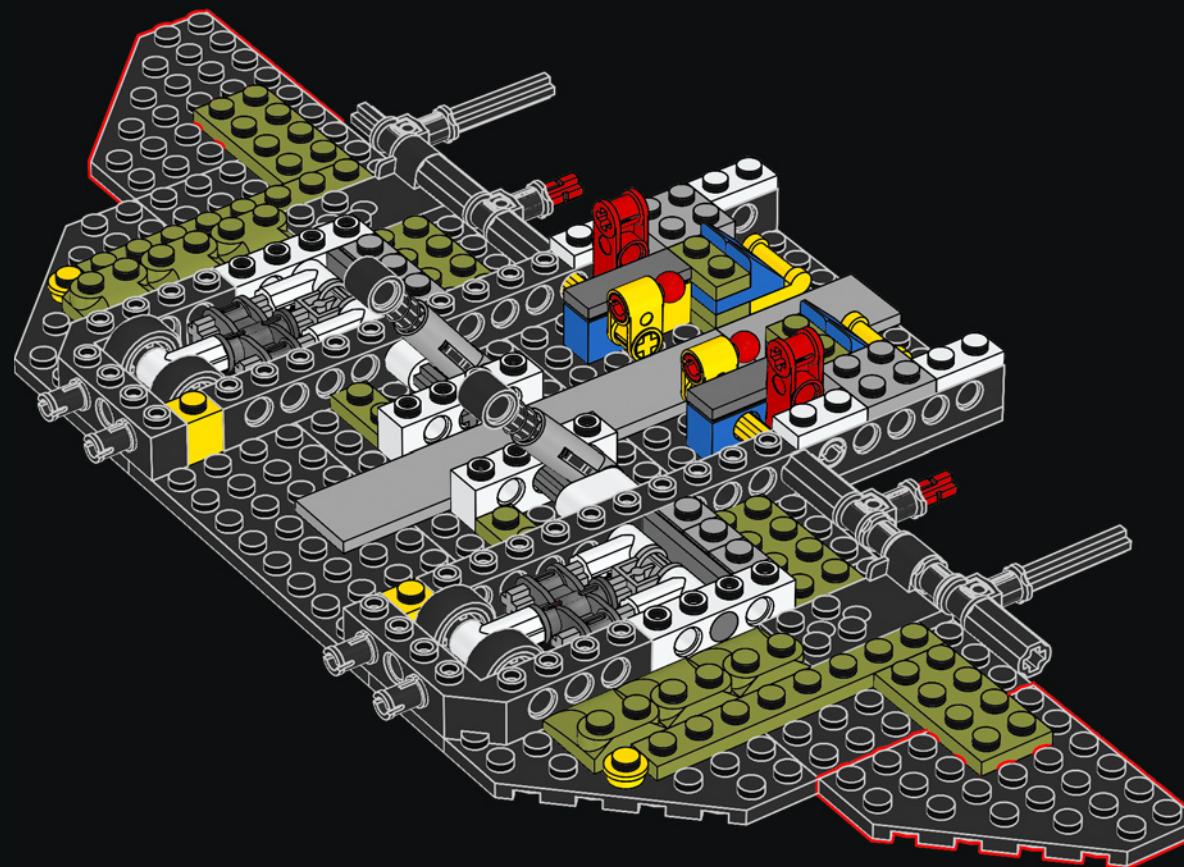


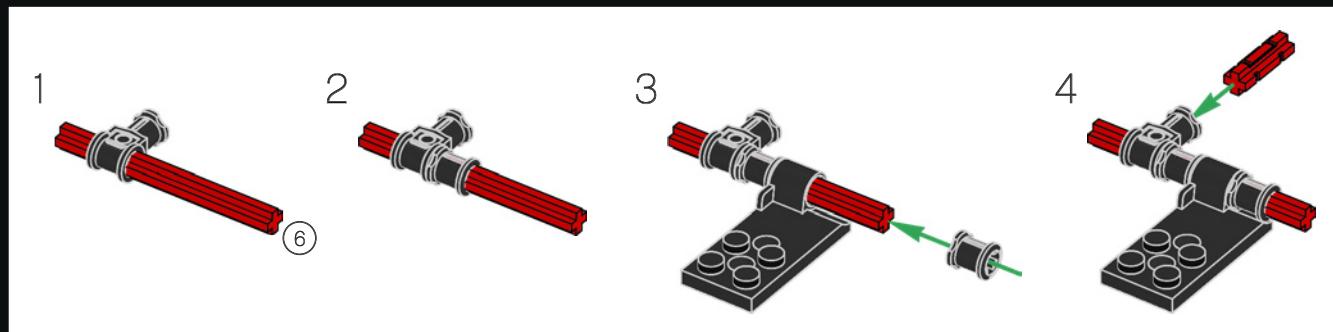
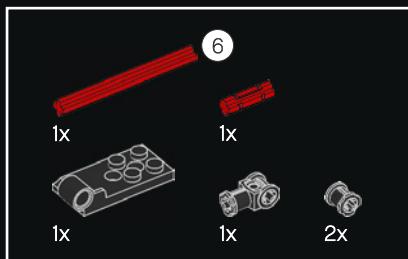




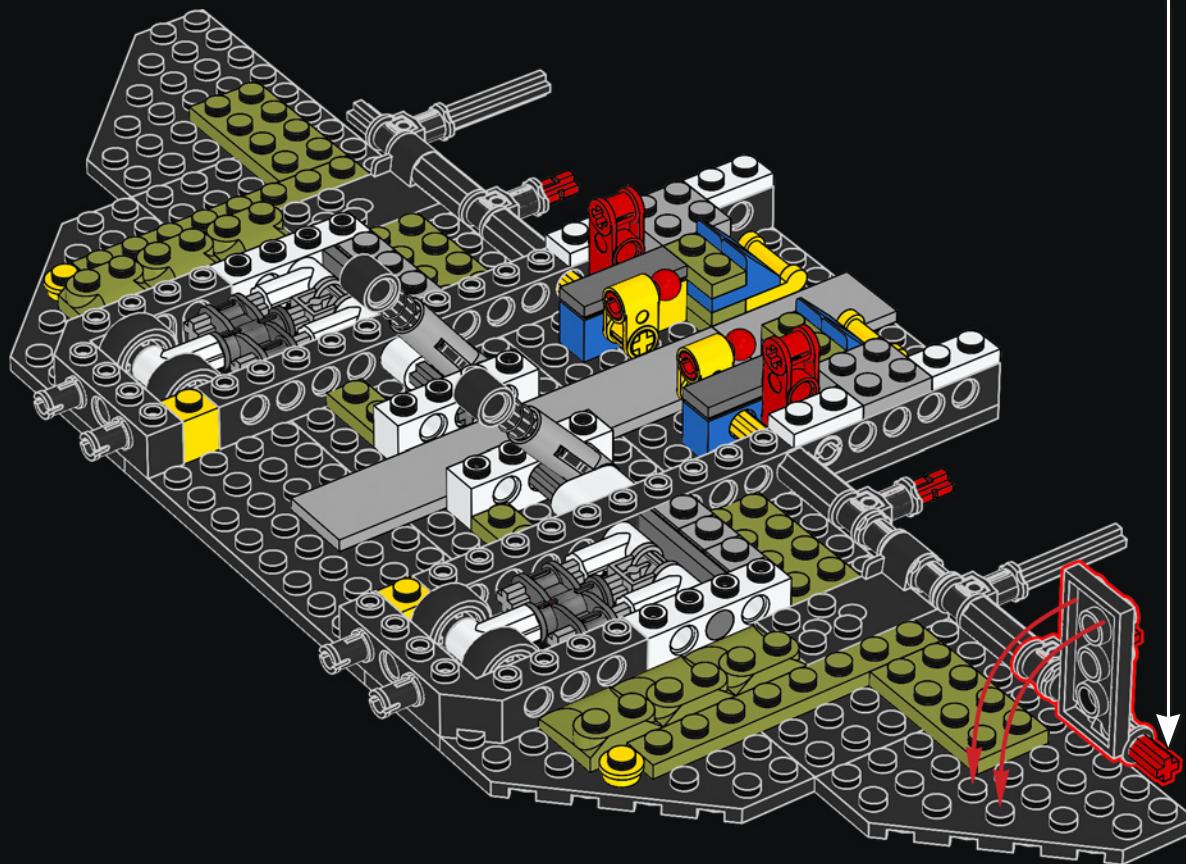
2x

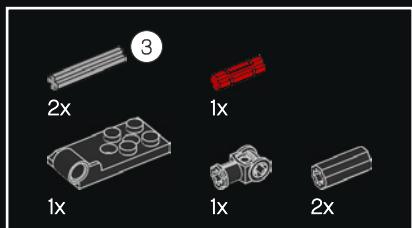
29





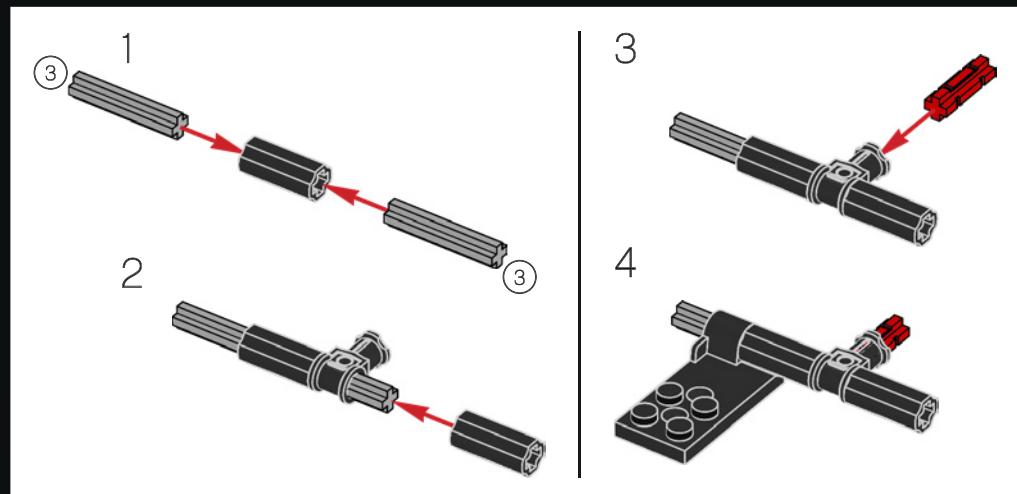
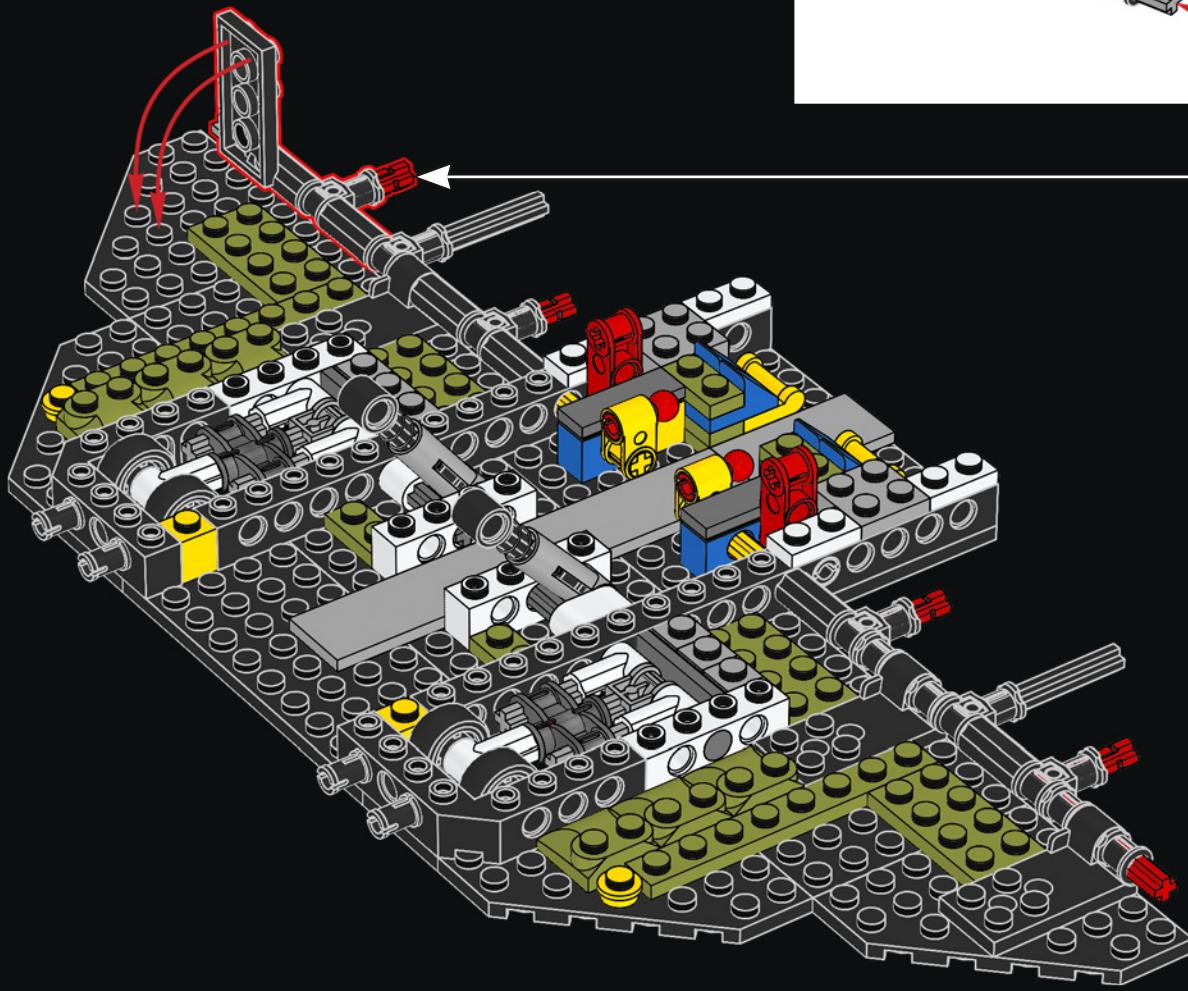
30

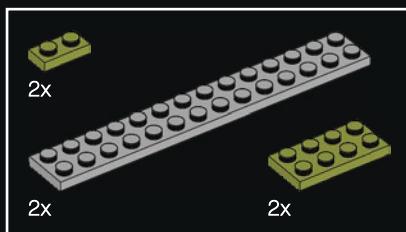




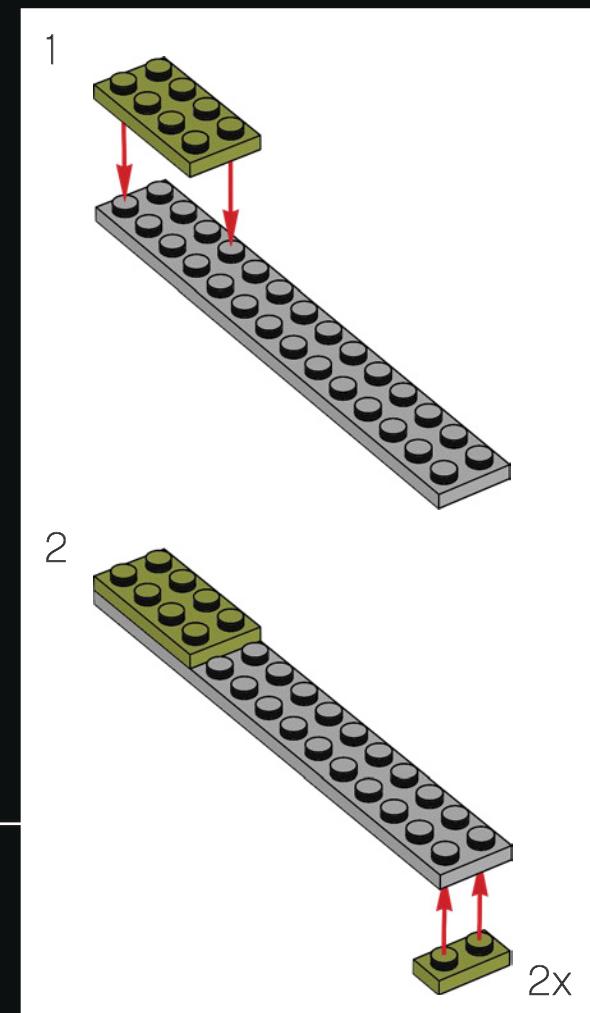
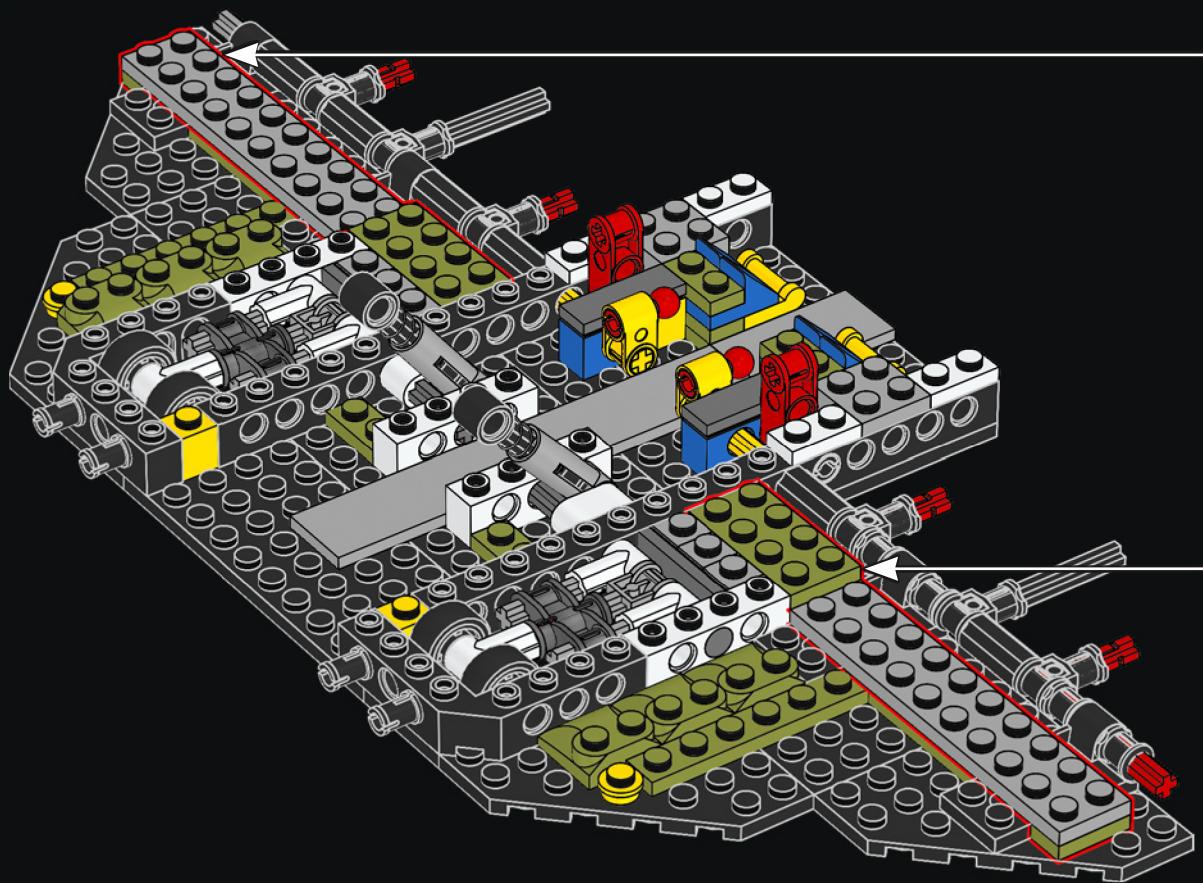
1:1

31



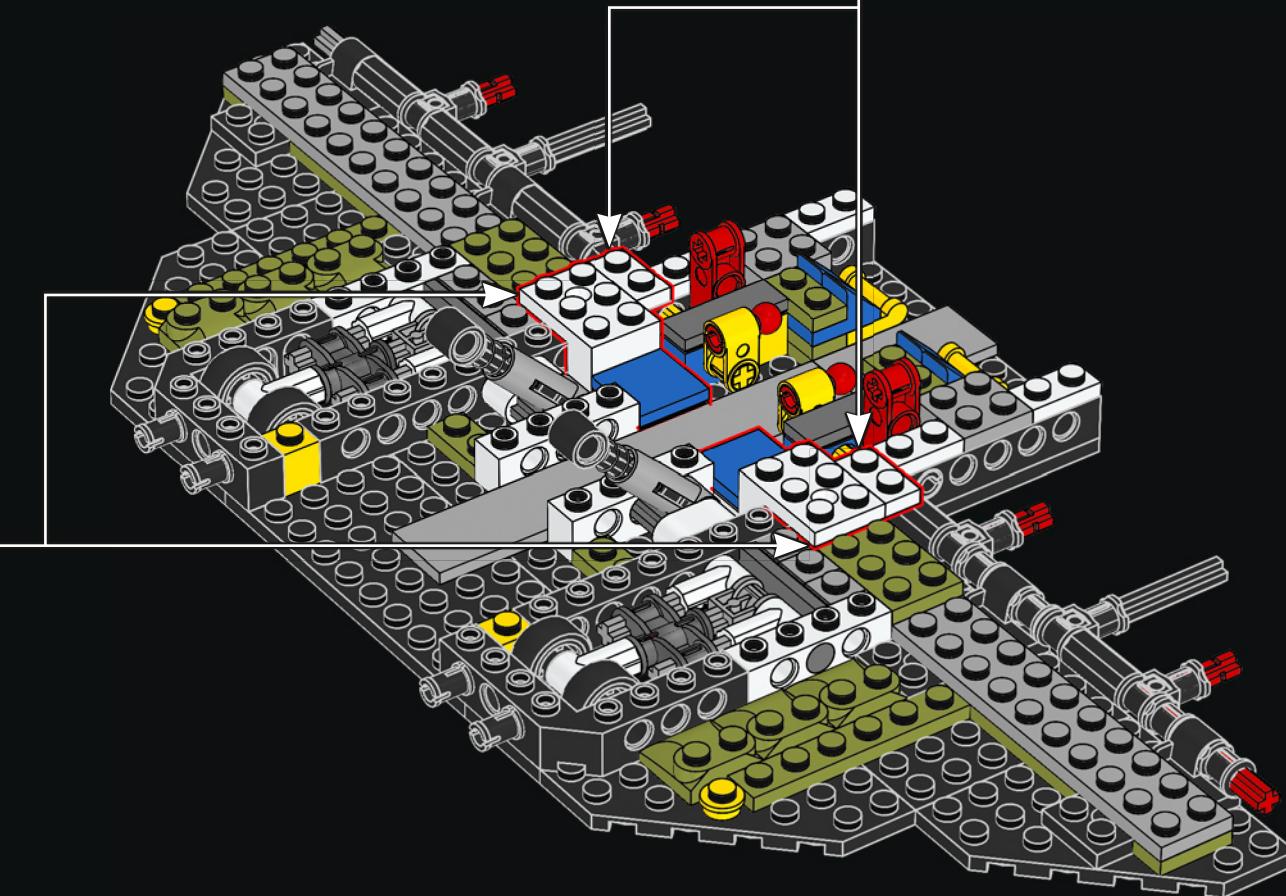
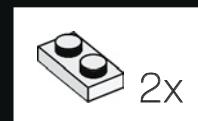
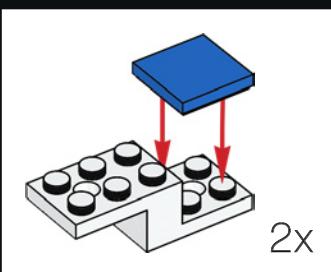


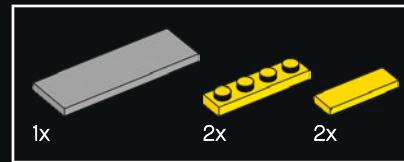
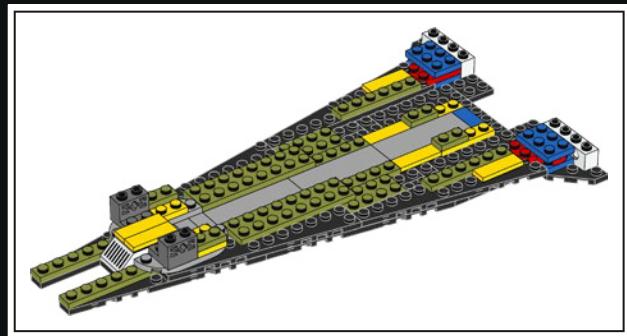
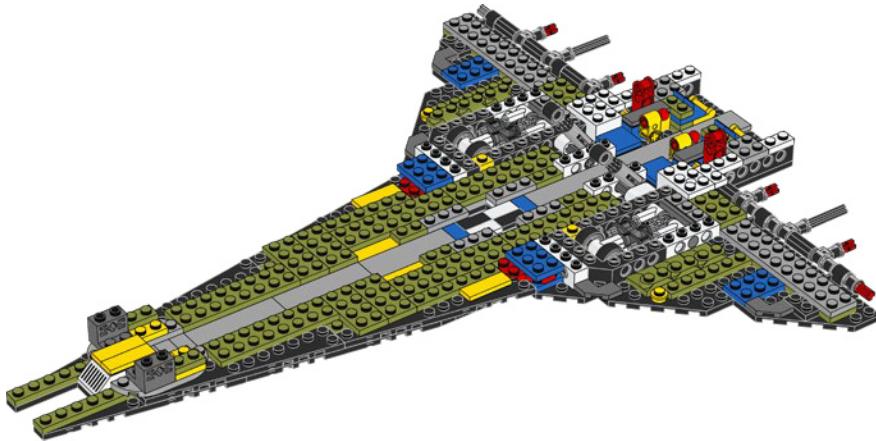
32



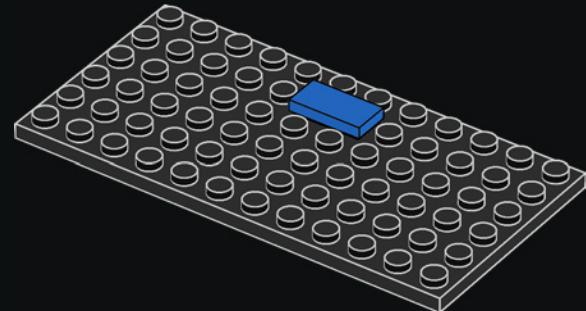
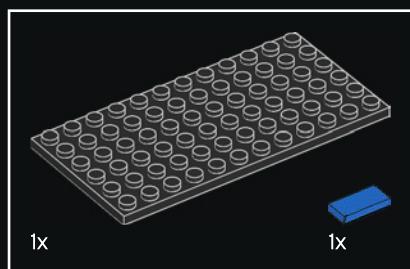


33

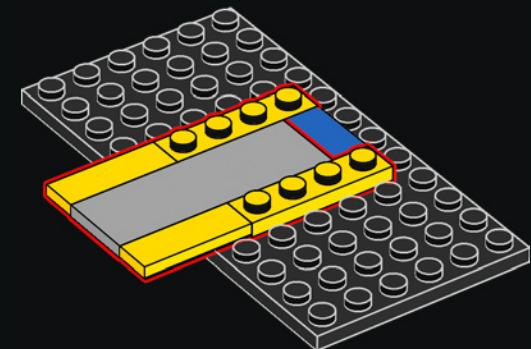


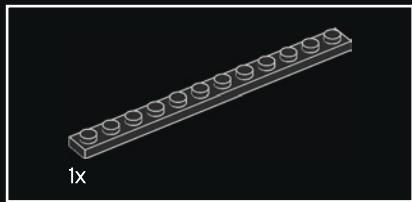


35

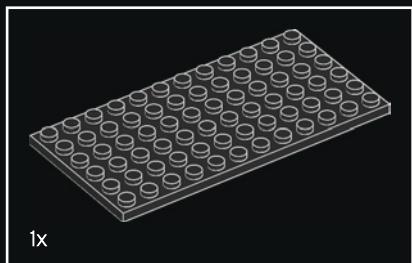
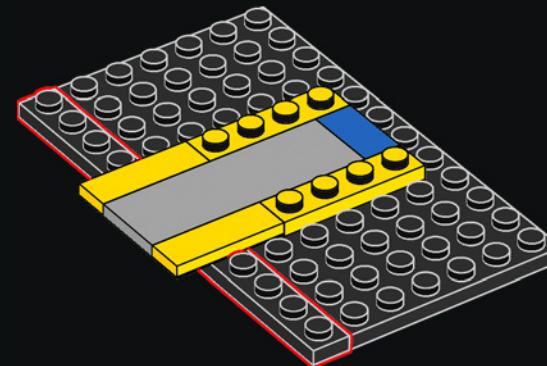


34

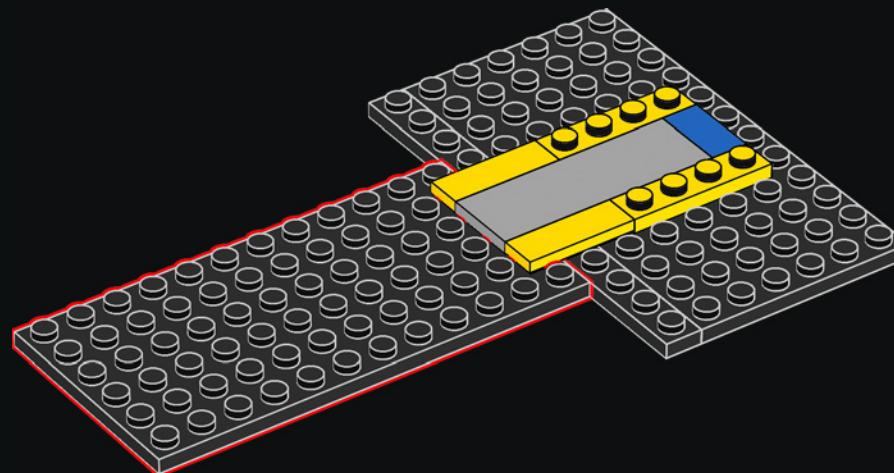


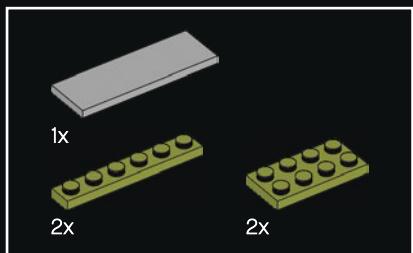


36

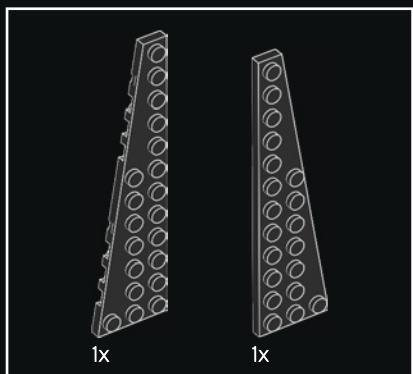
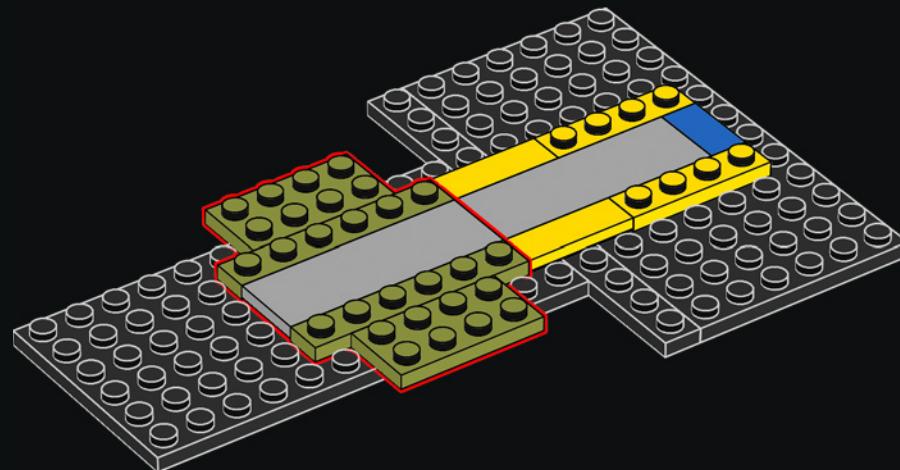


37

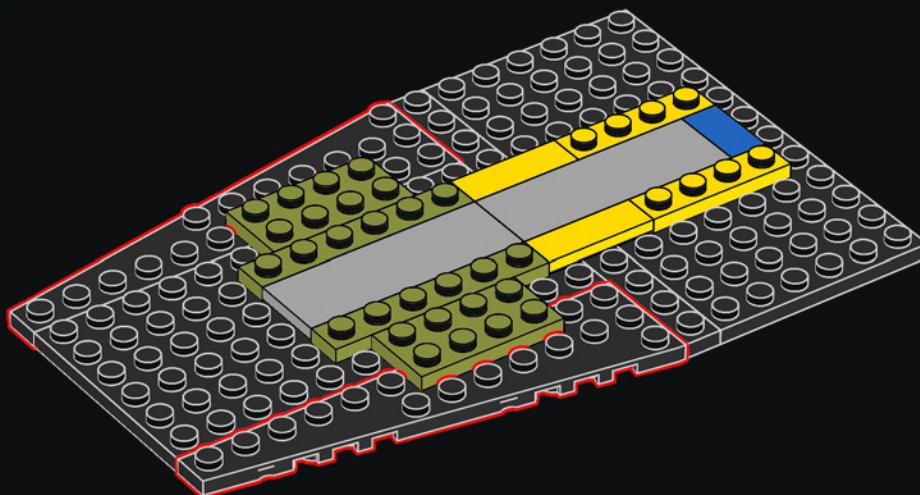


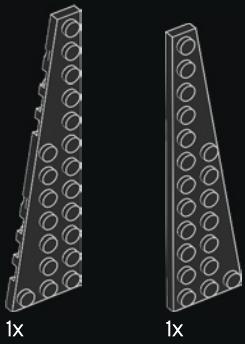


38



39

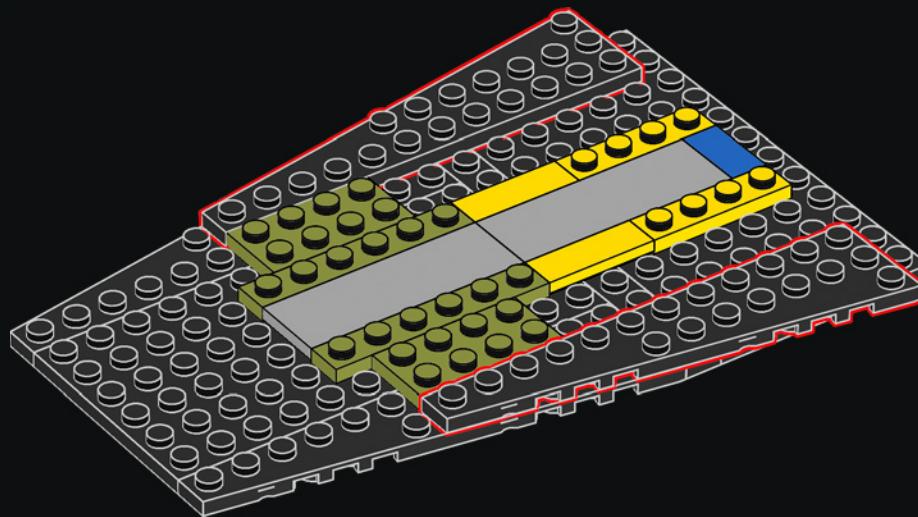


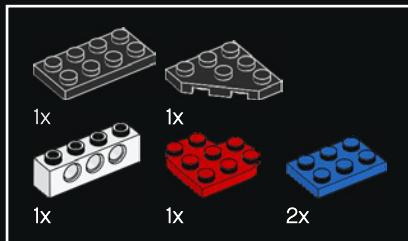


## ¿LO SABÍAS?

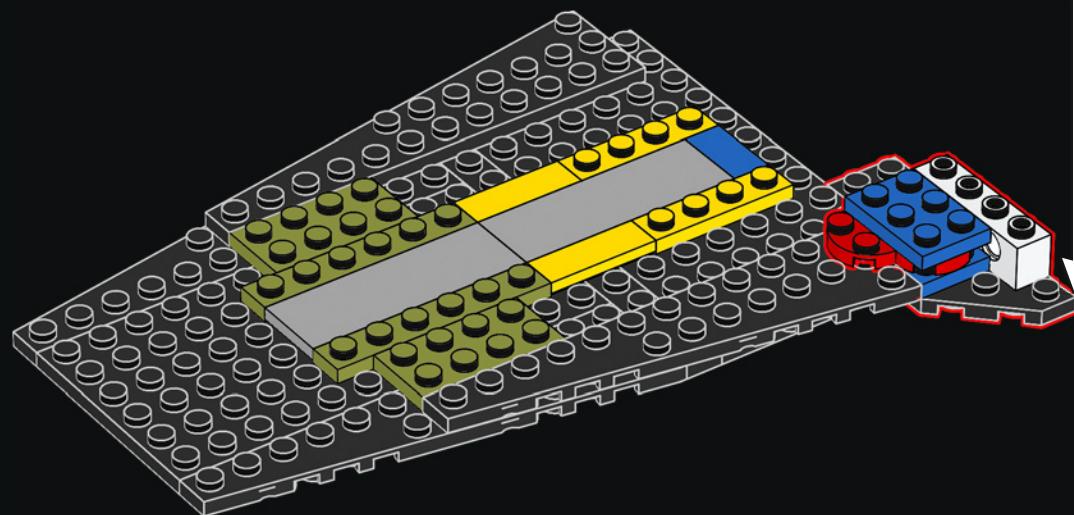
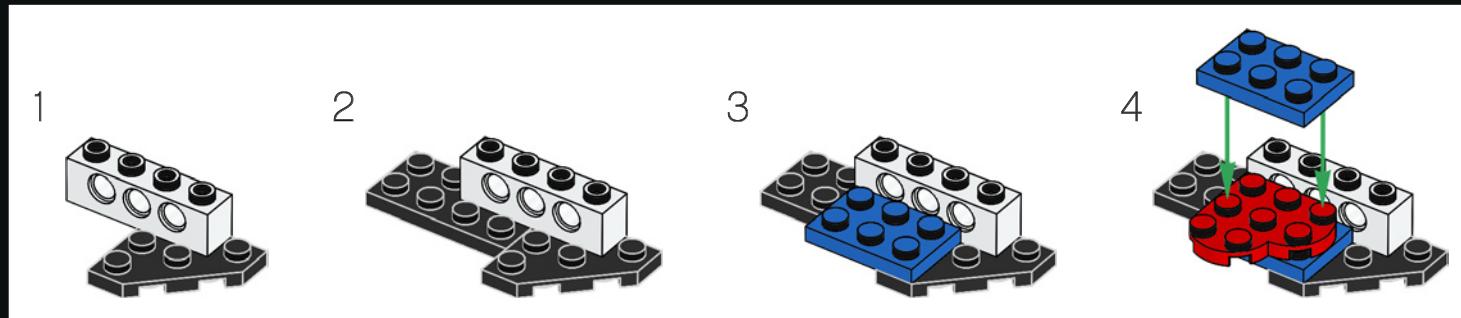
Con una velocidad orbital de 28.158 km/h, la tripulación del transbordador espacial viajaba con suficiente rapidez para ver amanecer o atardecer cada 45 minutos.

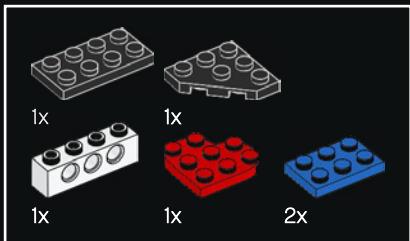
40



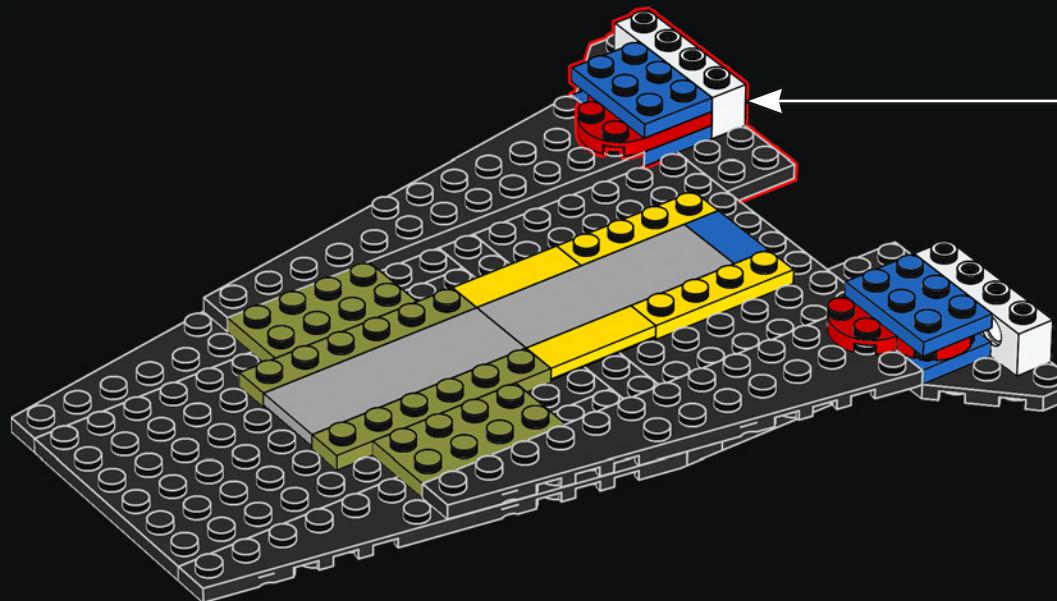
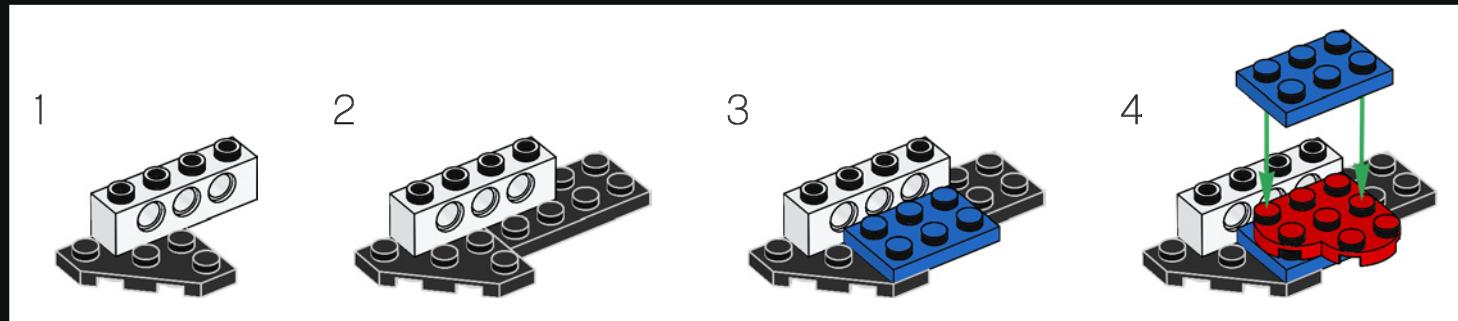


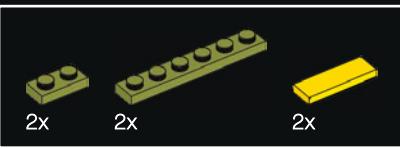
41



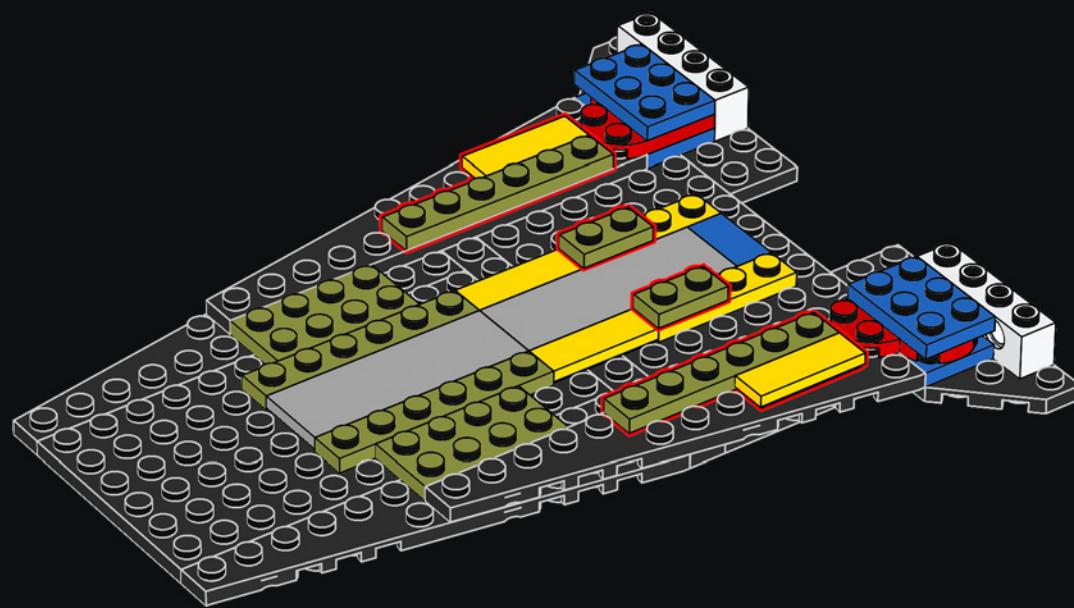


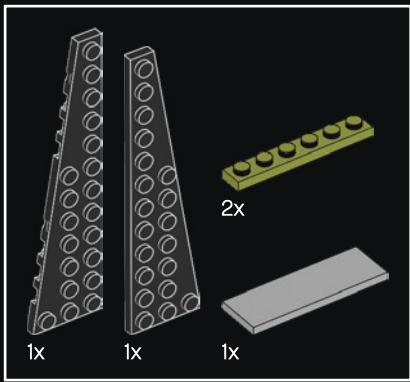
42



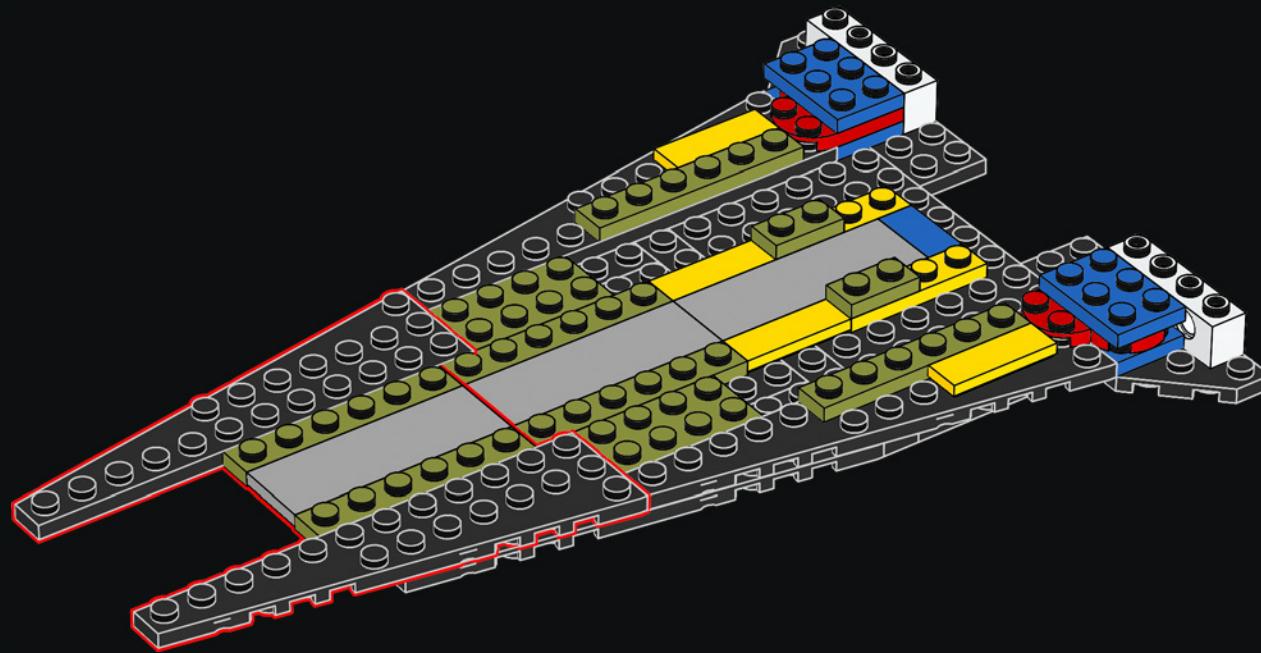


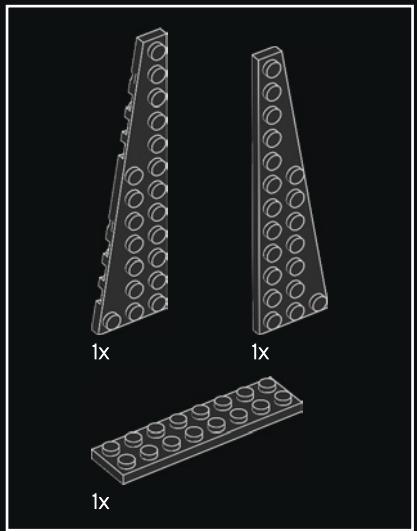
43



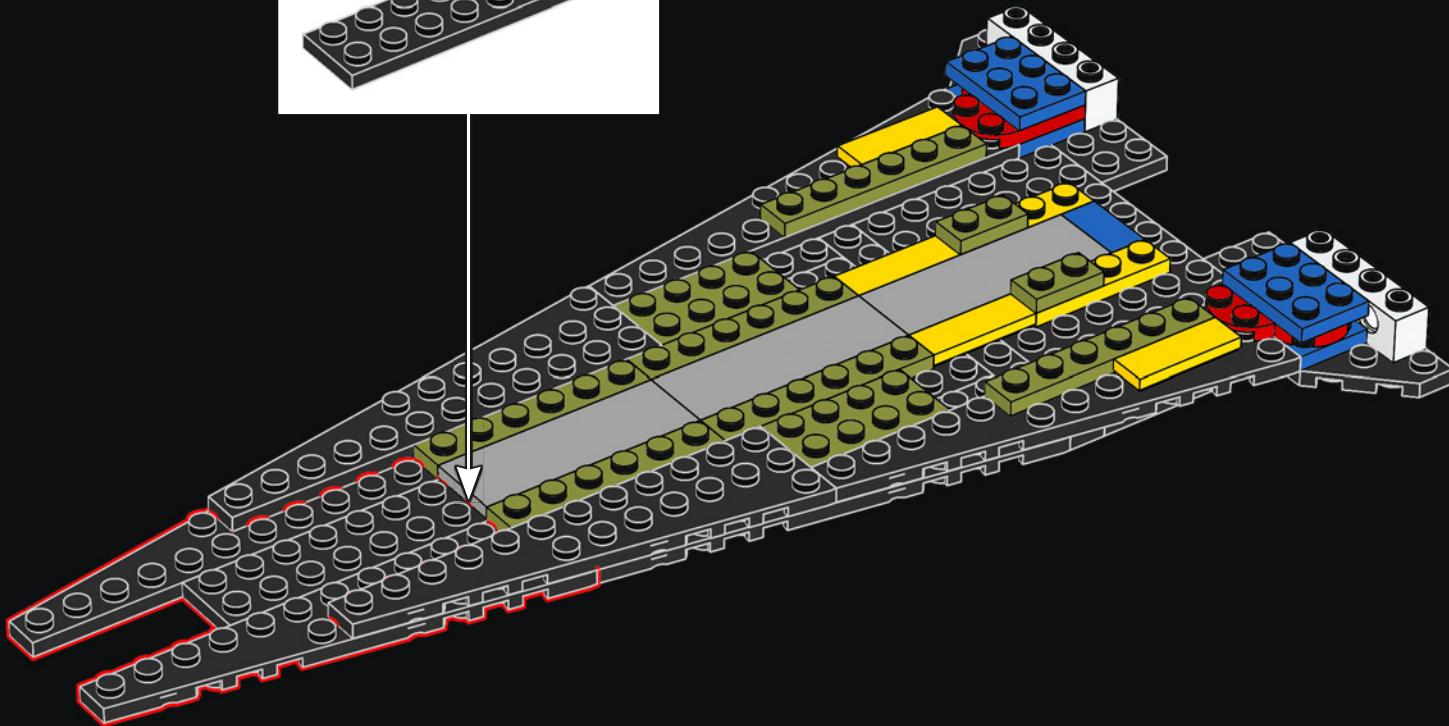
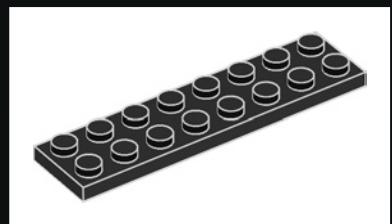


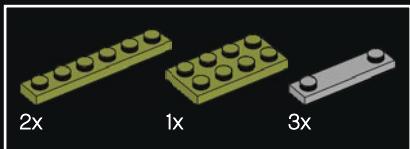
44



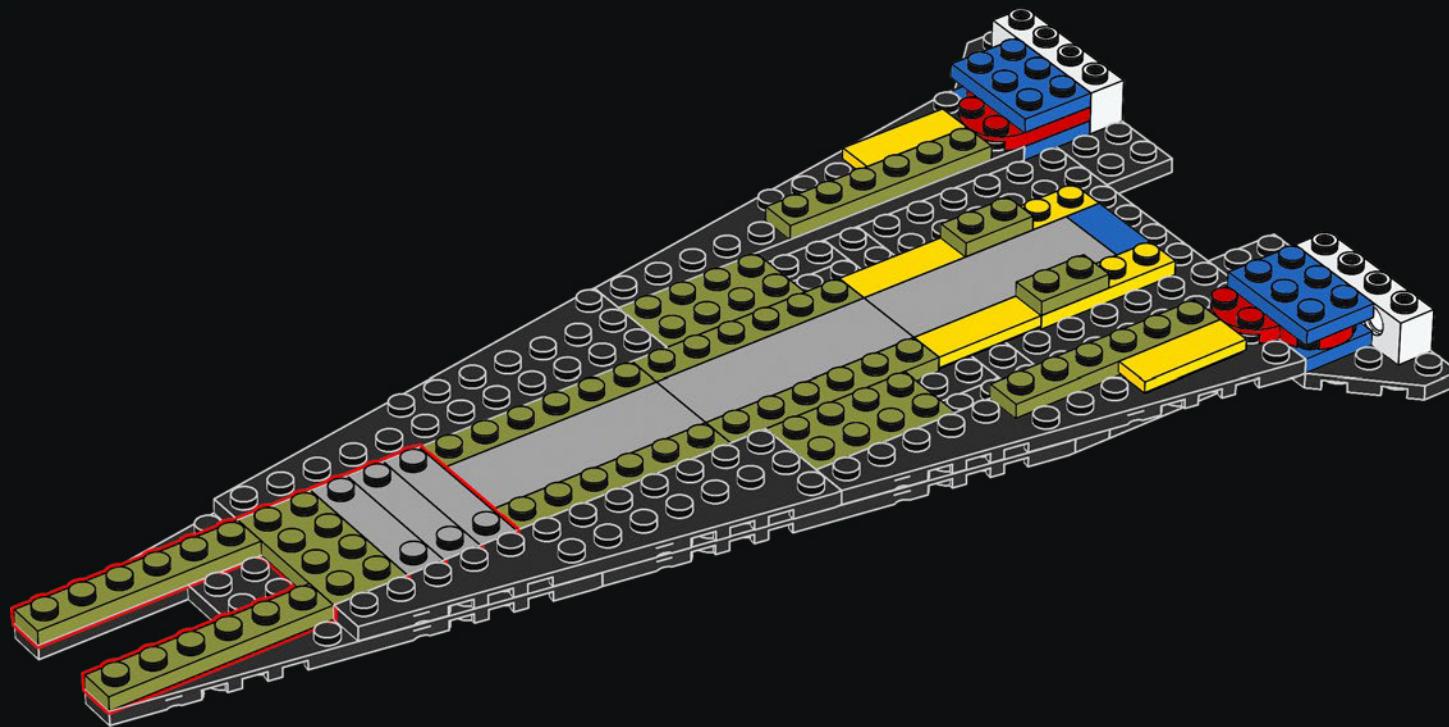


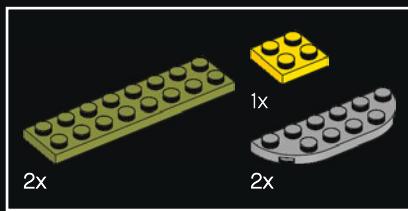
45



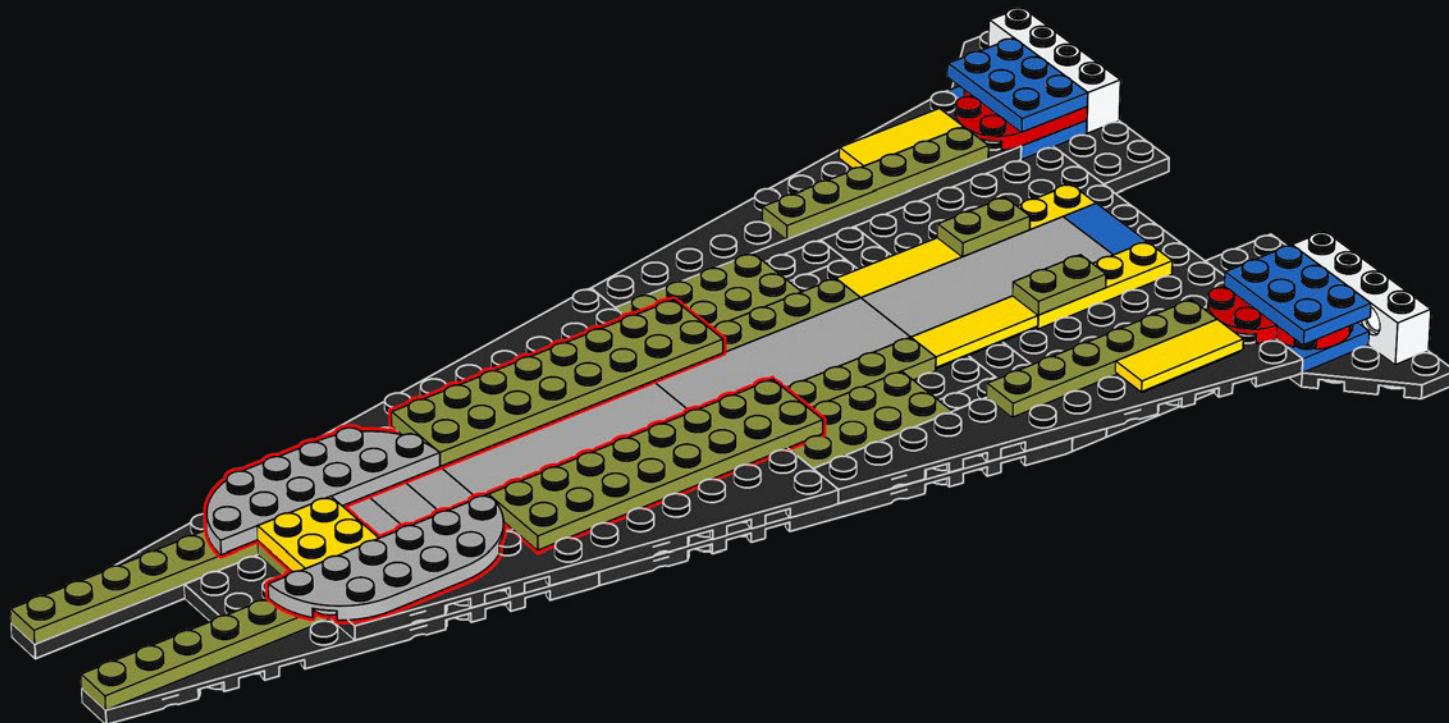


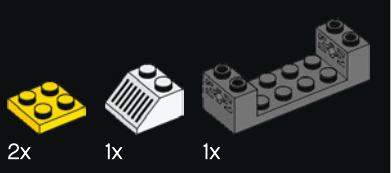
46



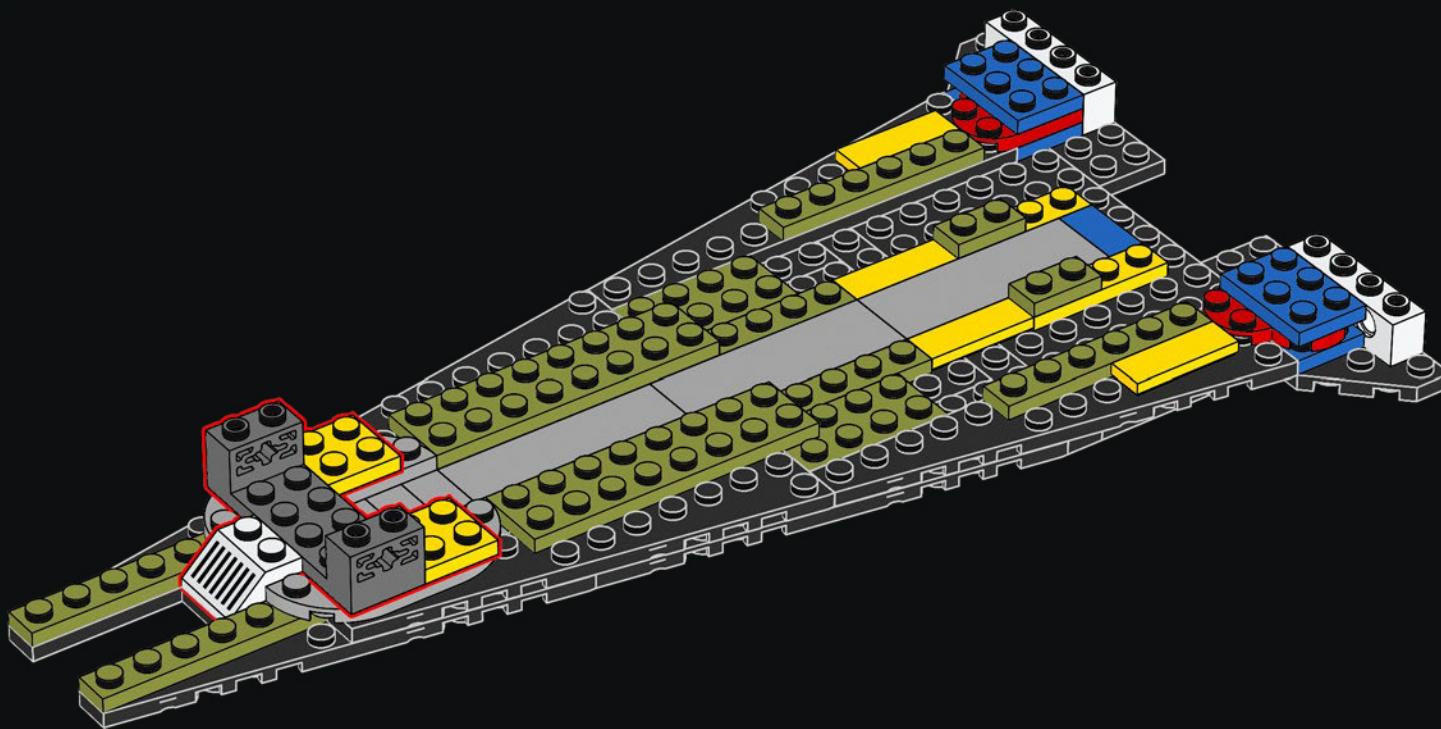


47



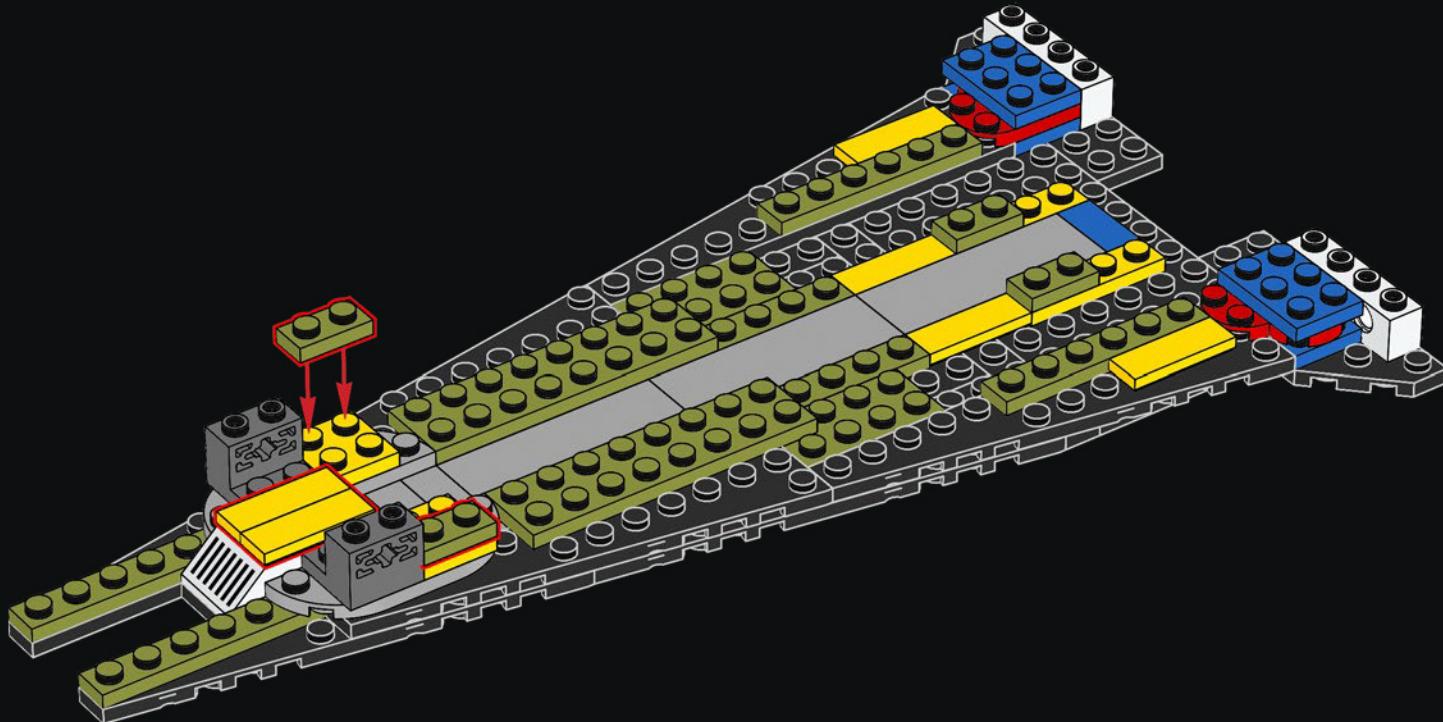


48

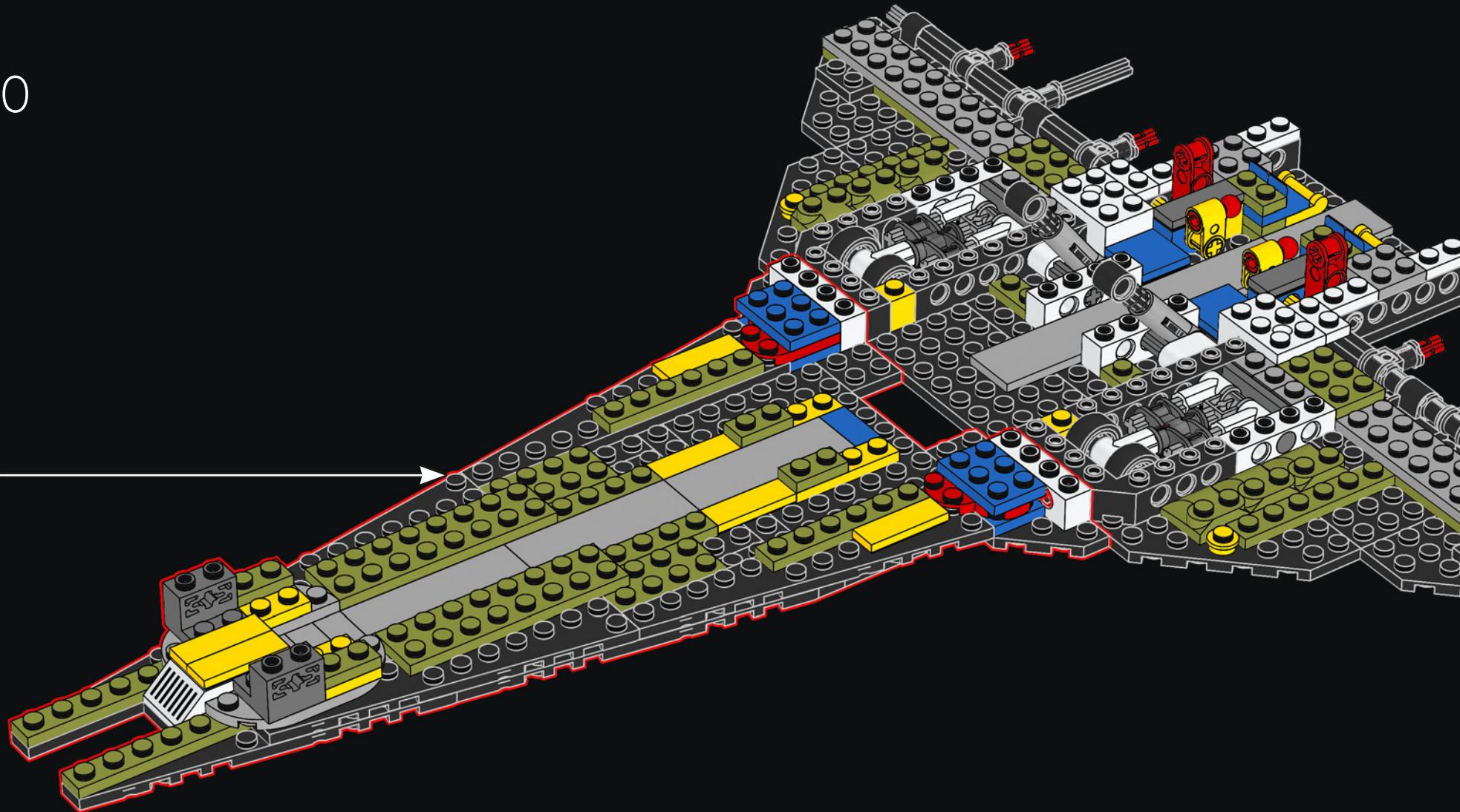


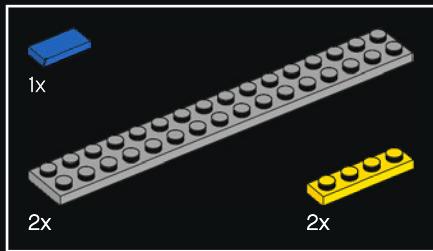


49

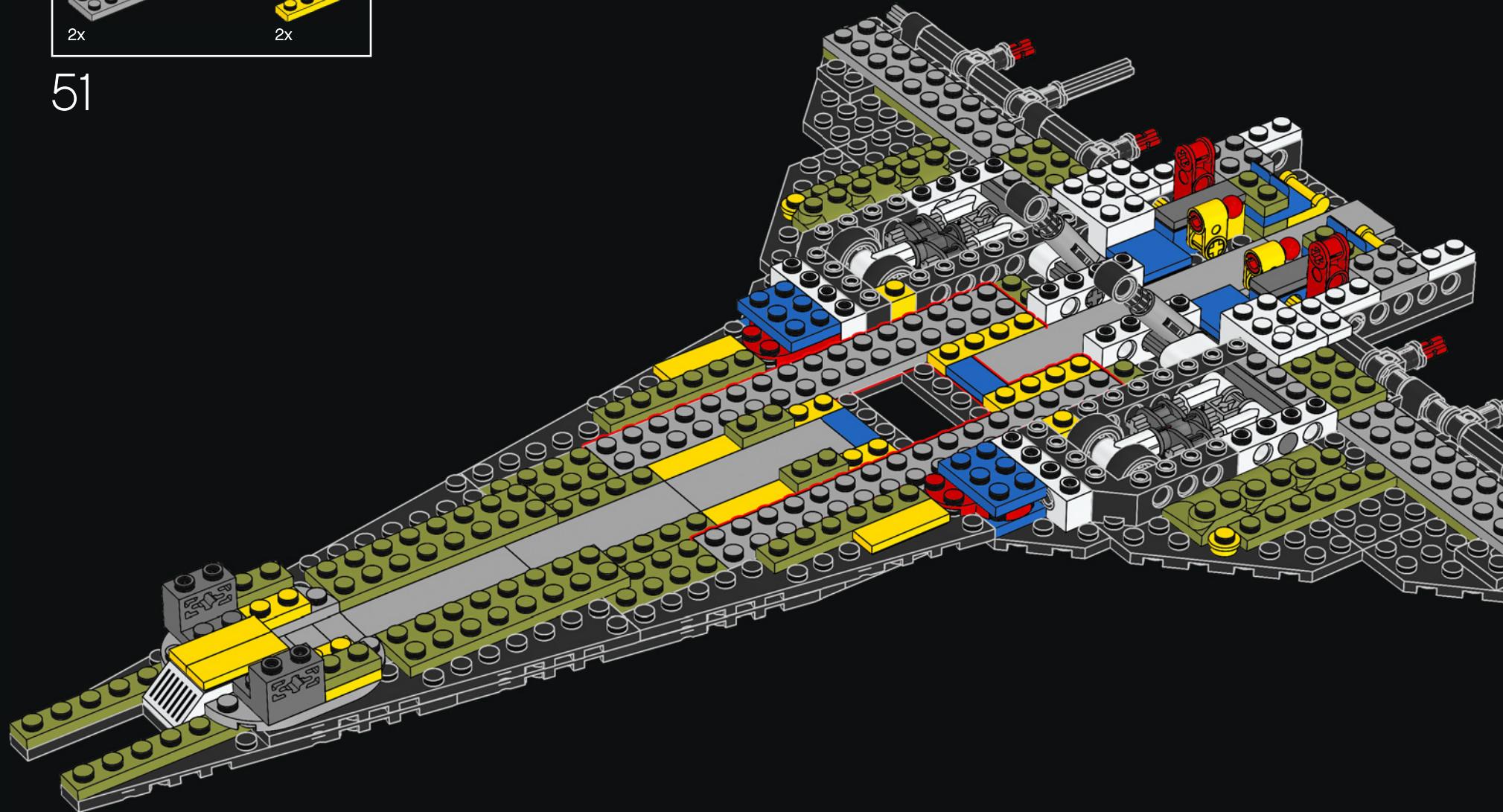


50





51





1x

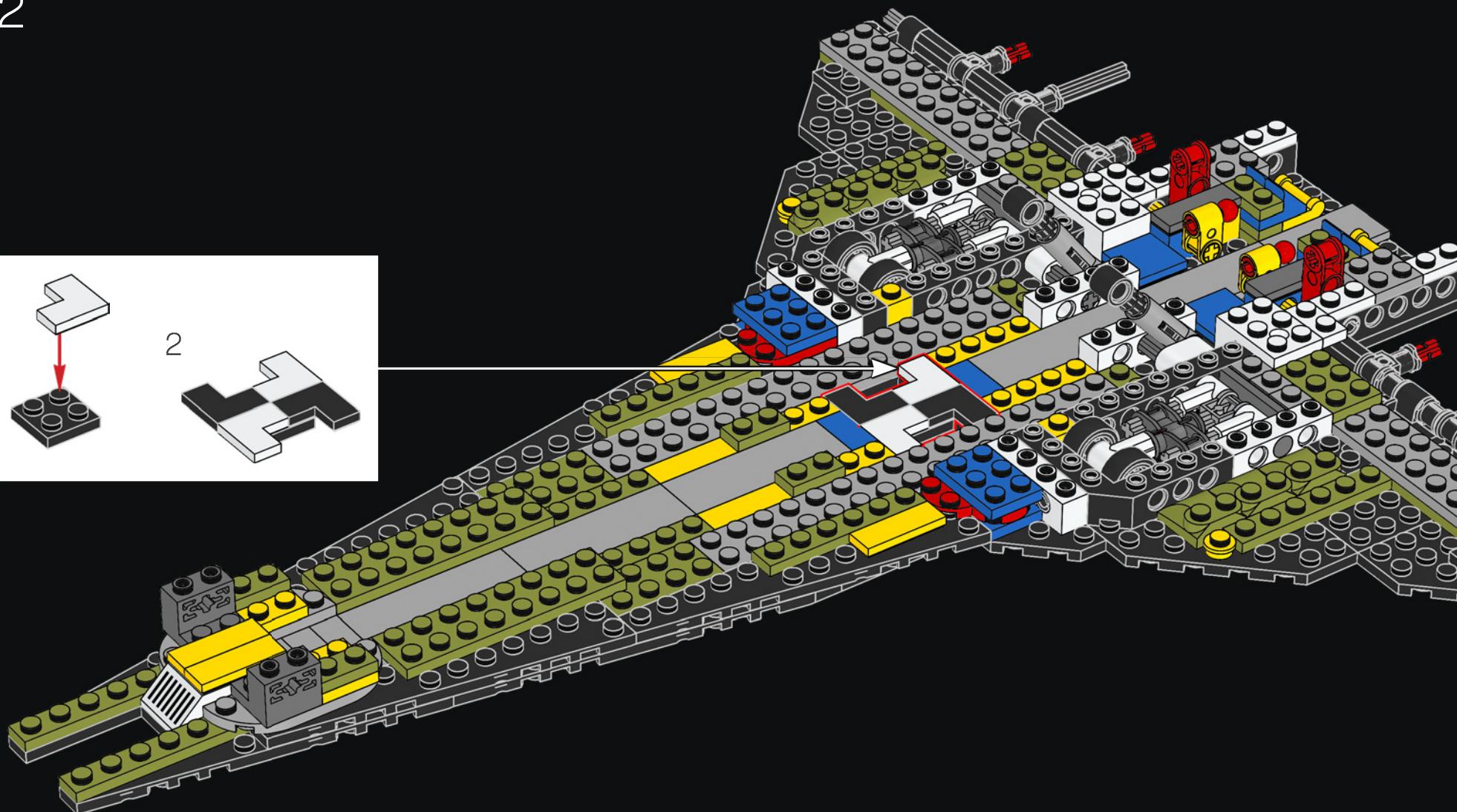
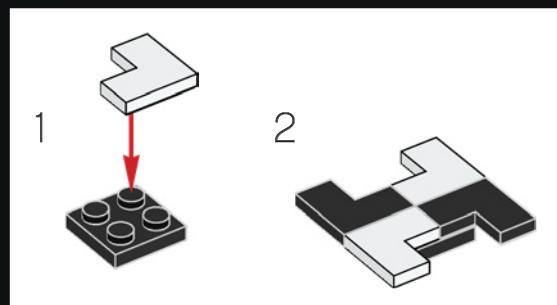


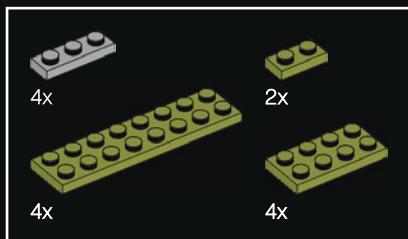
2x



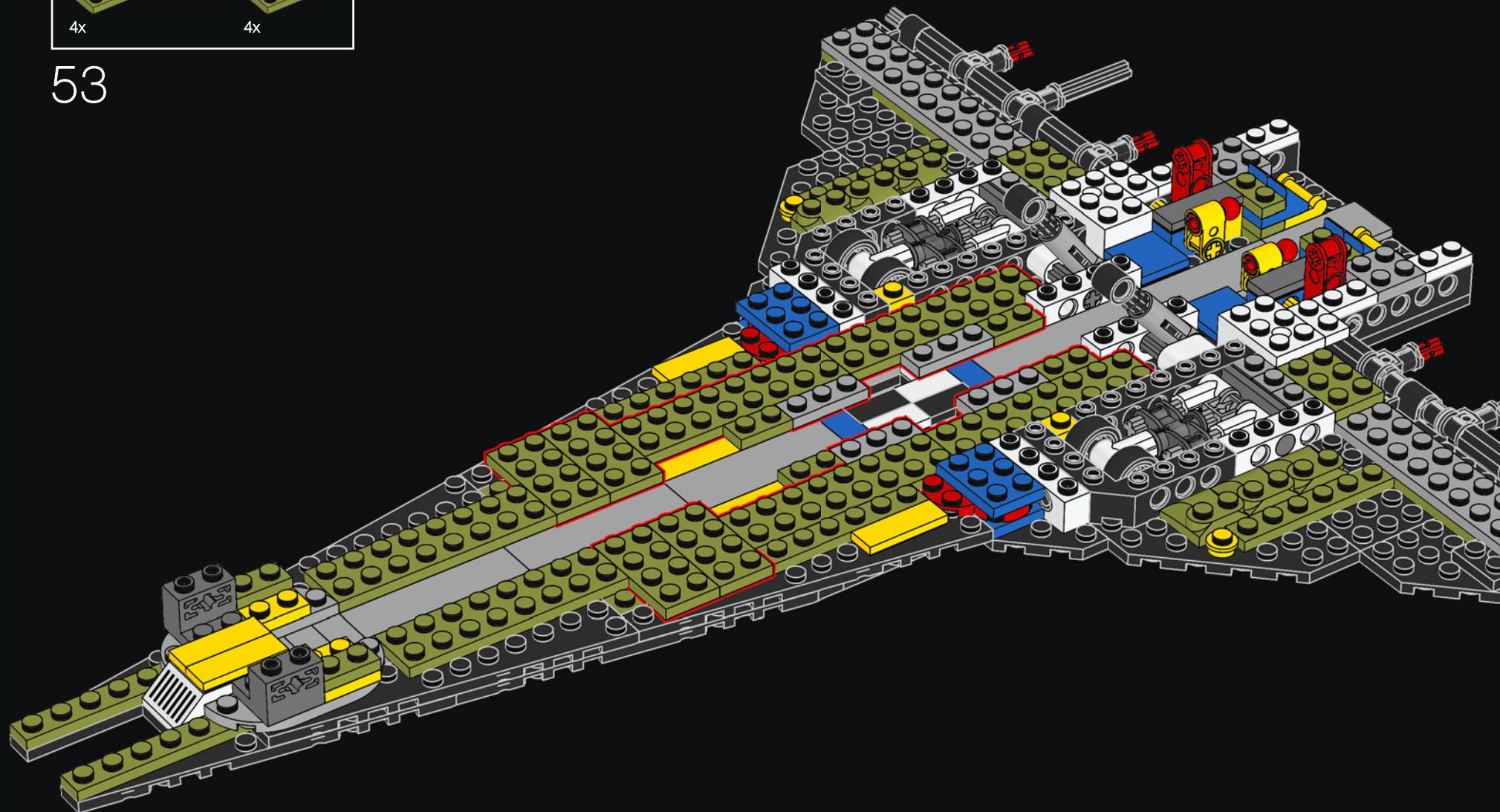
2x

52





53



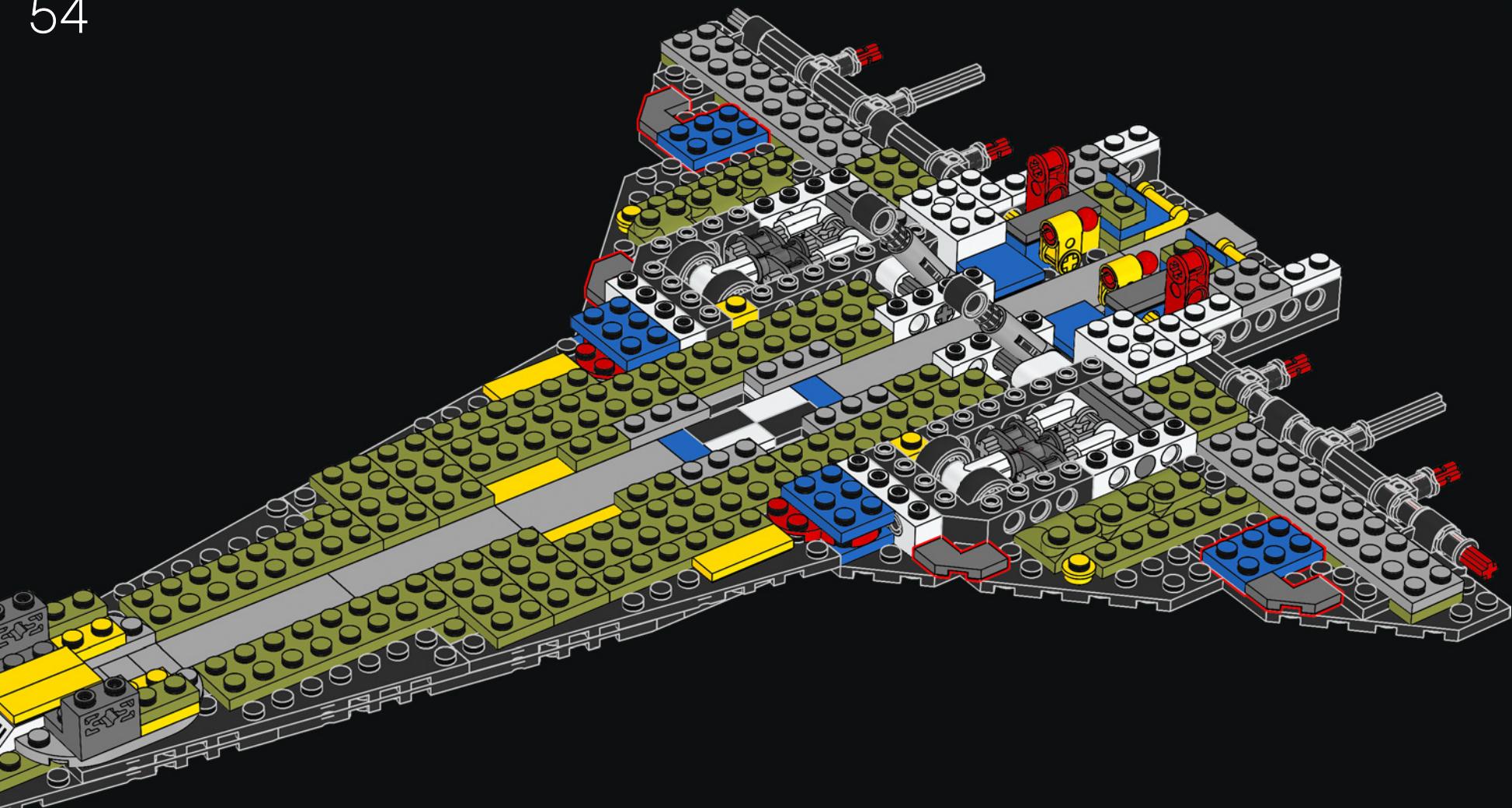


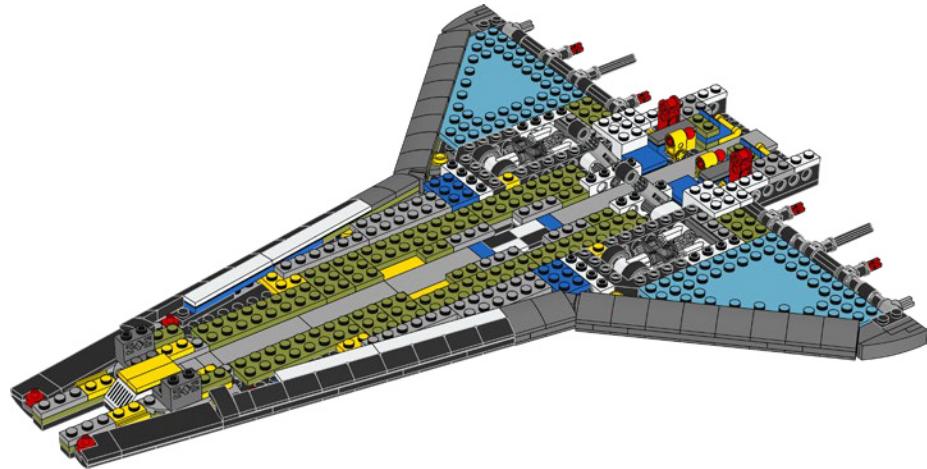
2x



4x

54





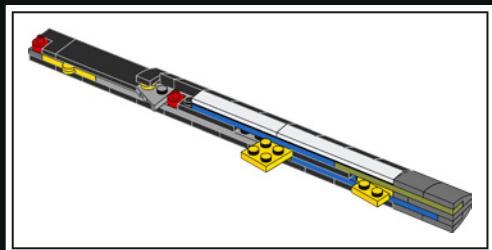
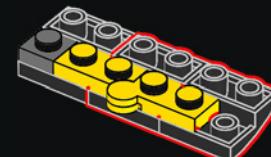
55

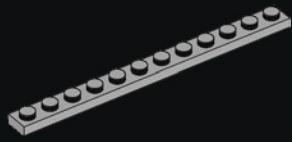


56



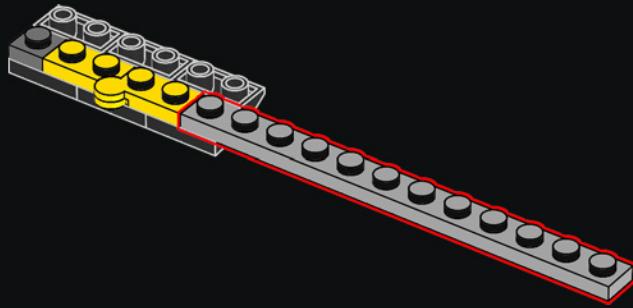
57





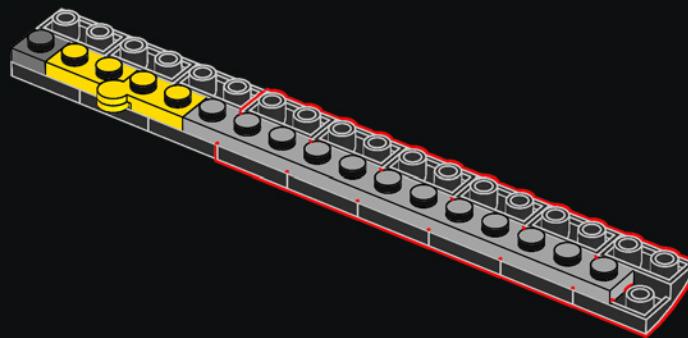
1x

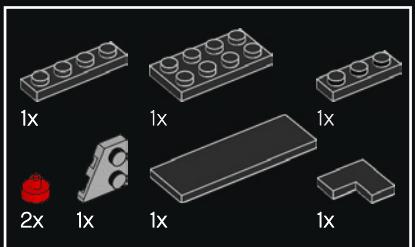
58



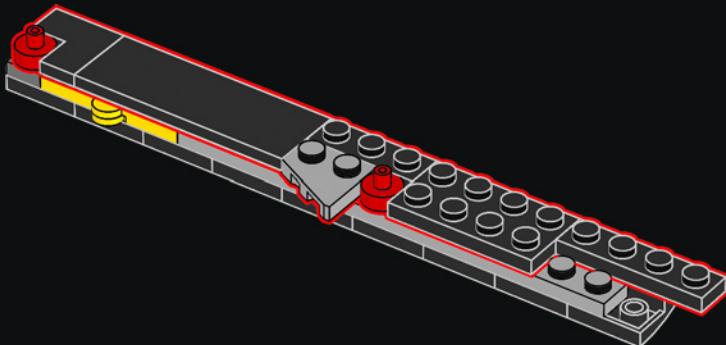
6x

59

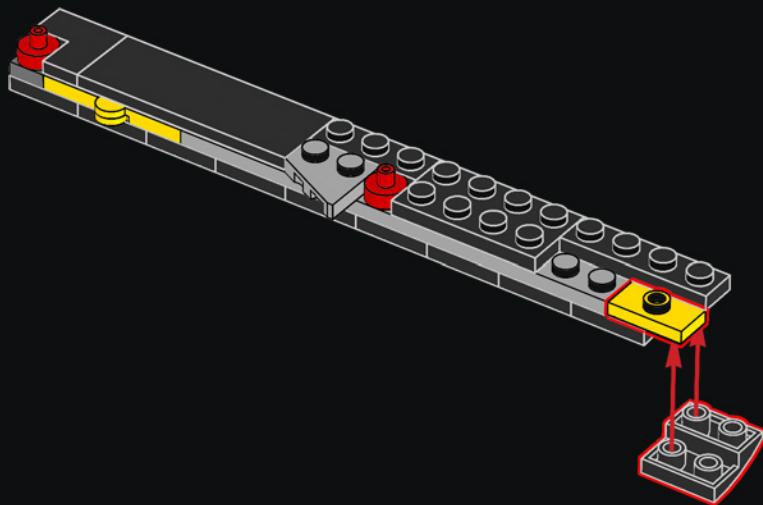


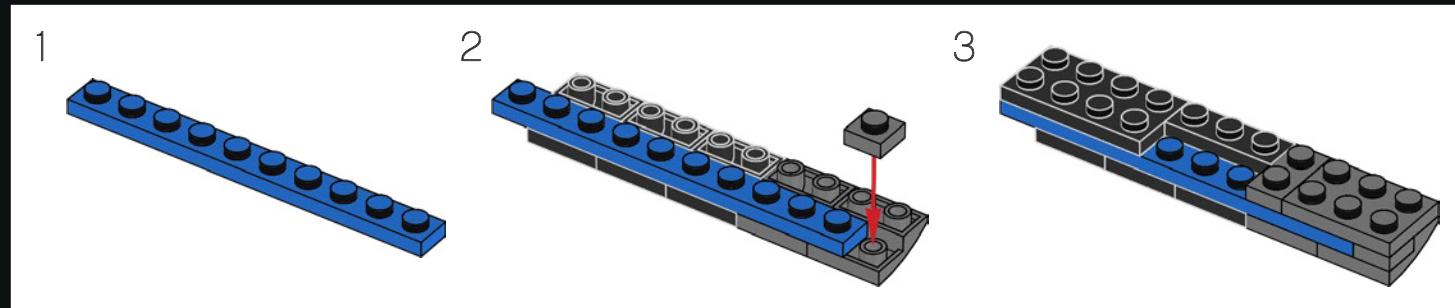
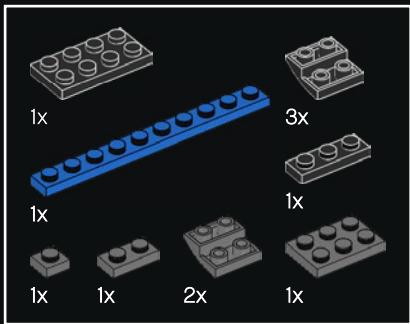


60

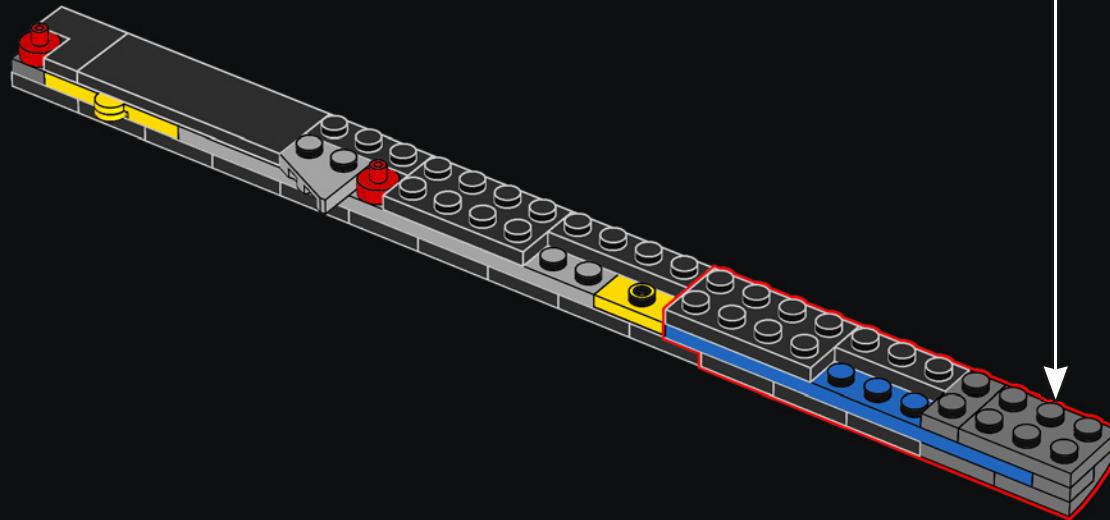


61





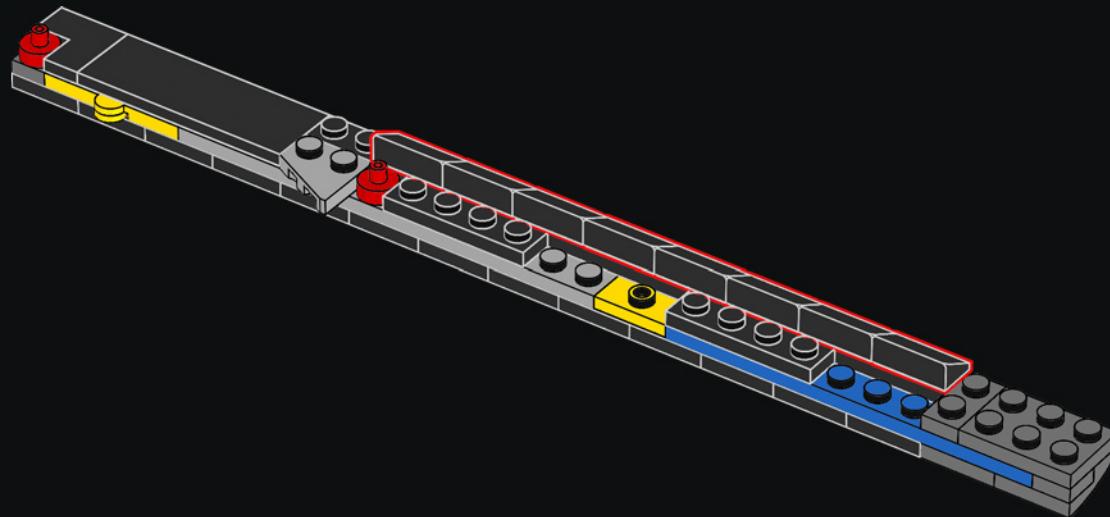
62





8x

63



1x

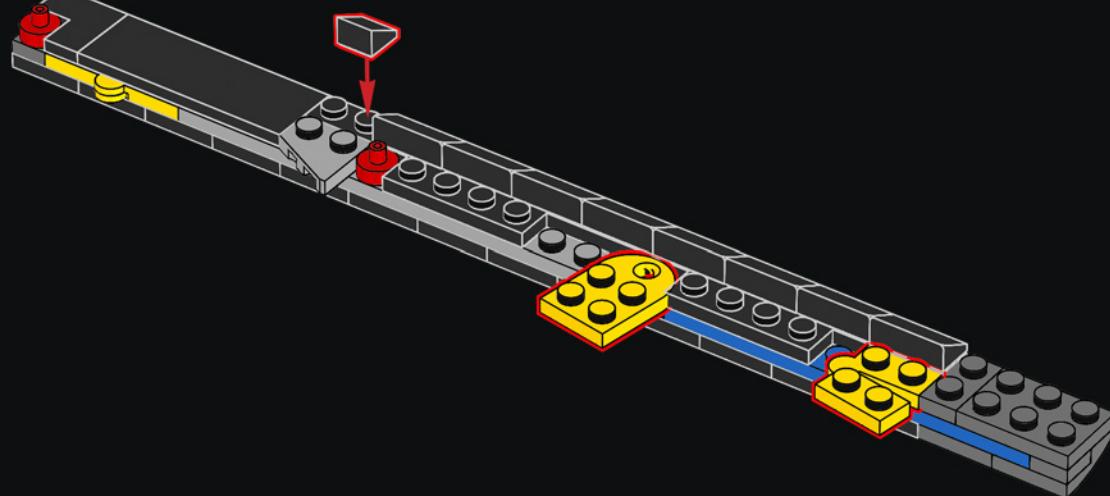


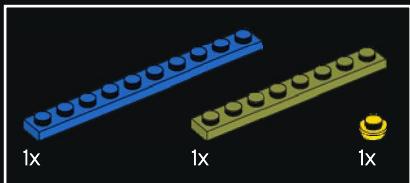
1x



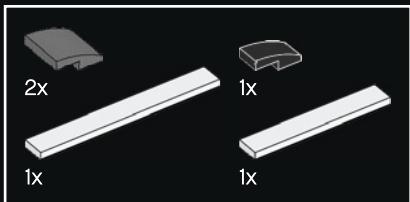
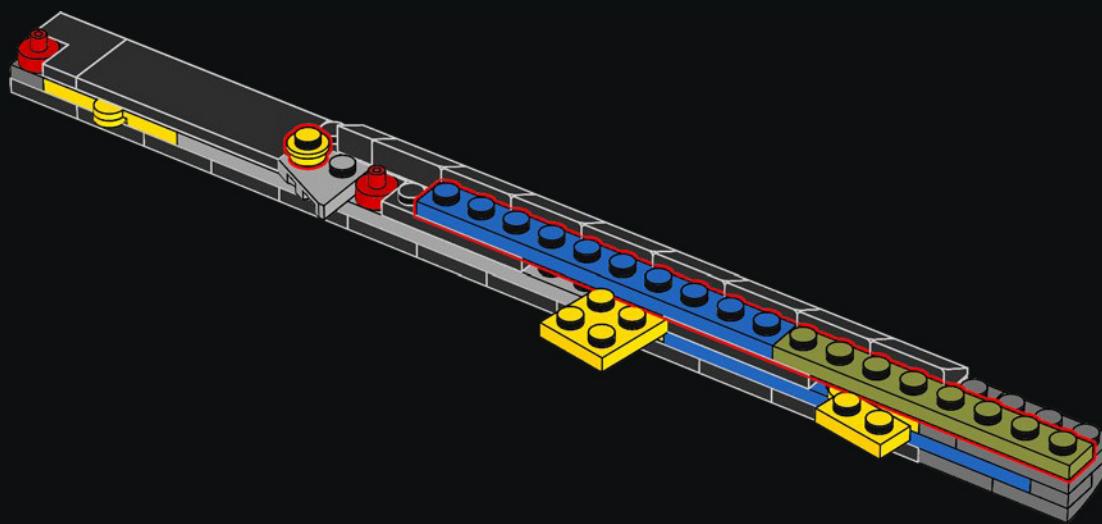
1x

64

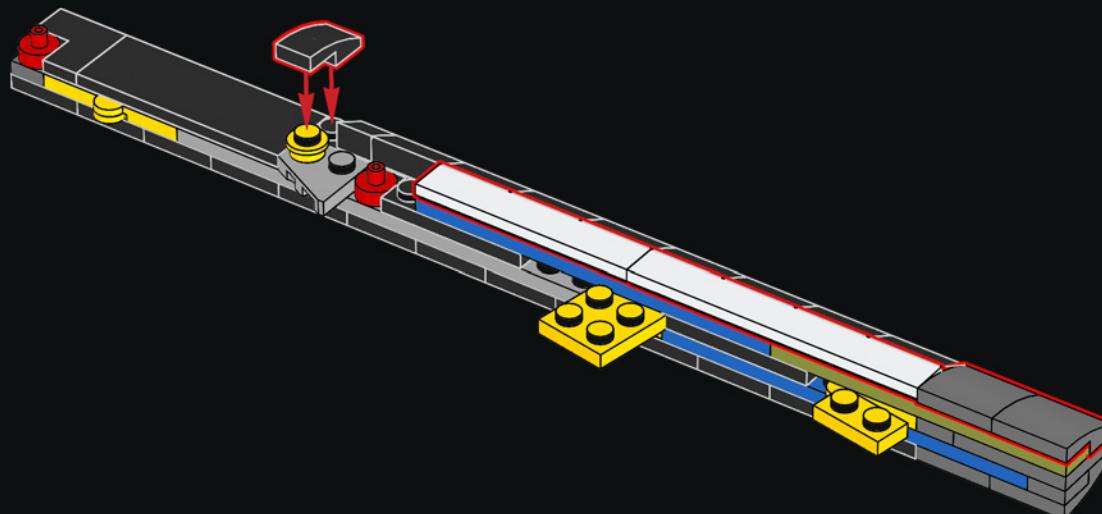




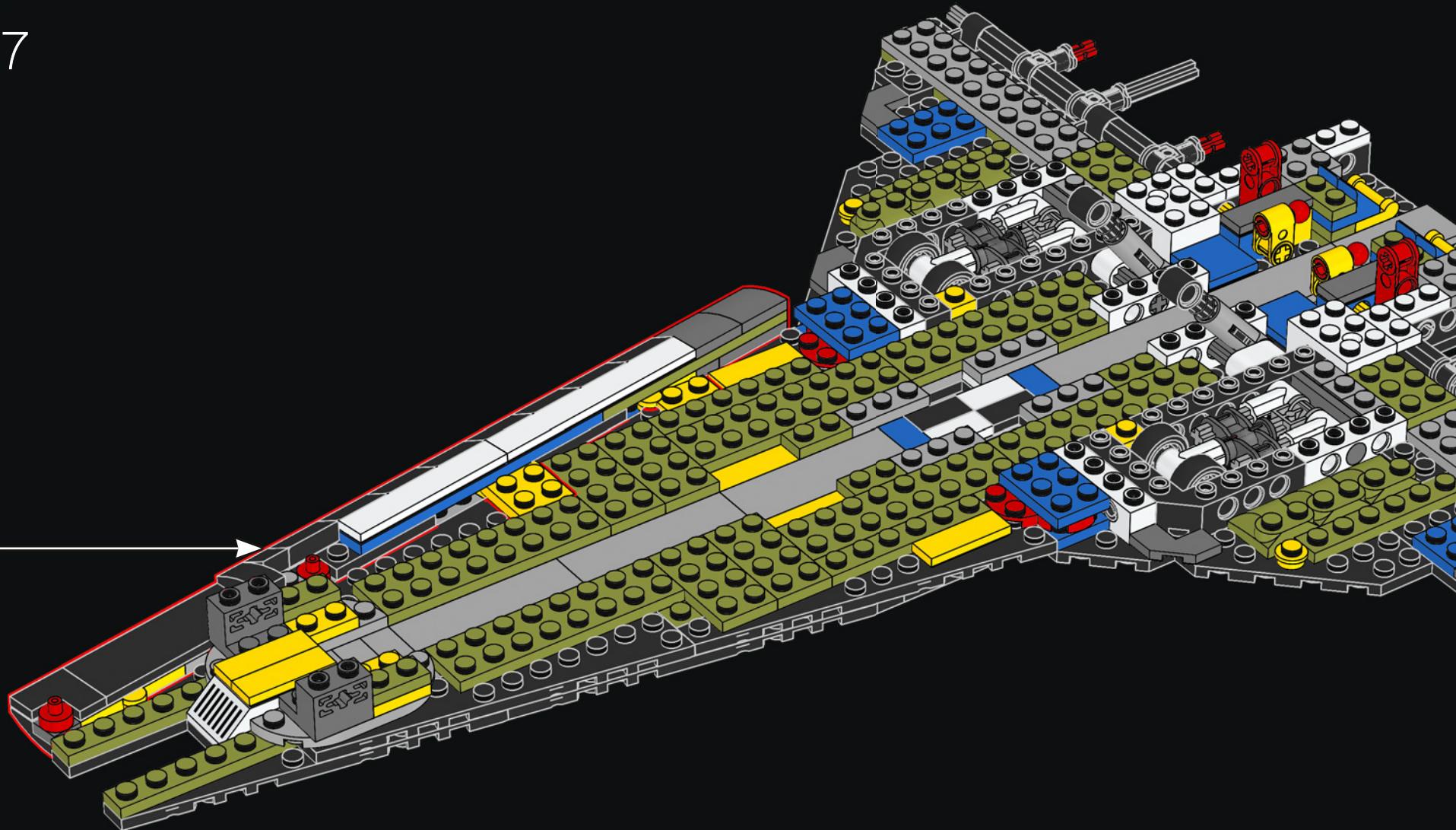
65

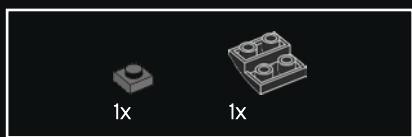
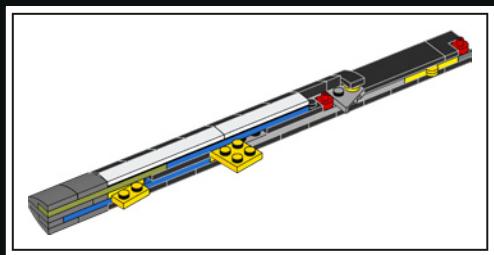


66

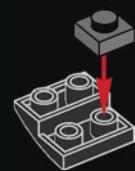


67

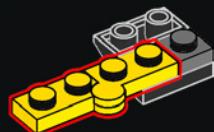




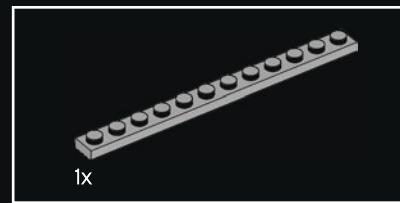
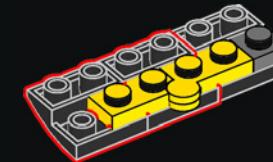
68



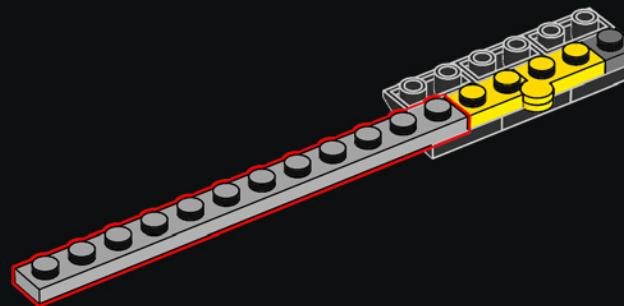
69



70



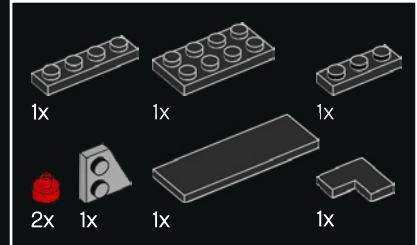
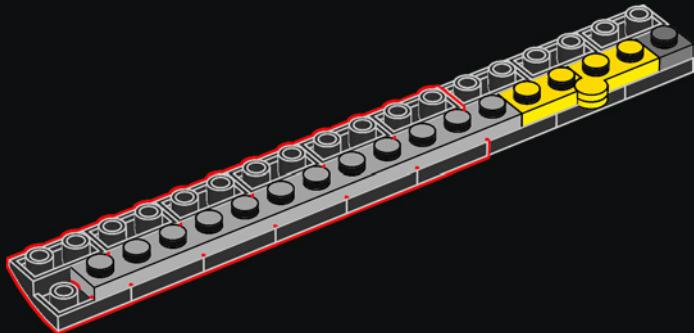
71



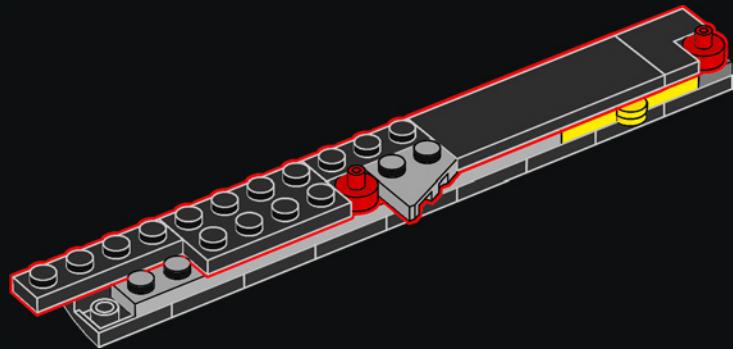


6x

72



73

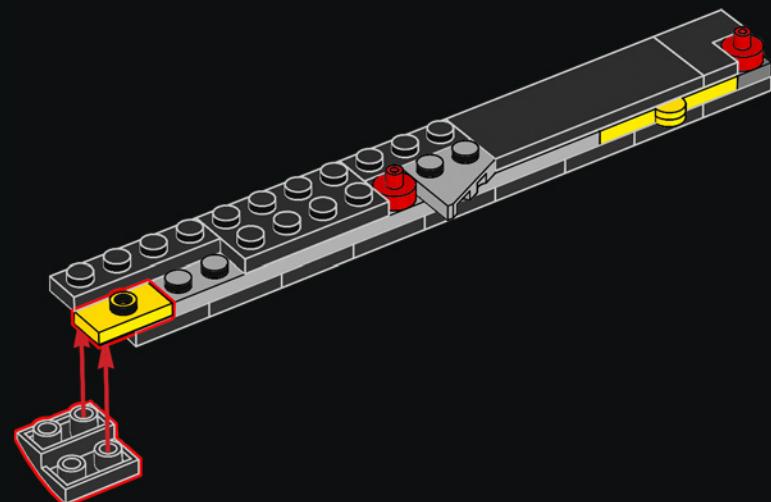


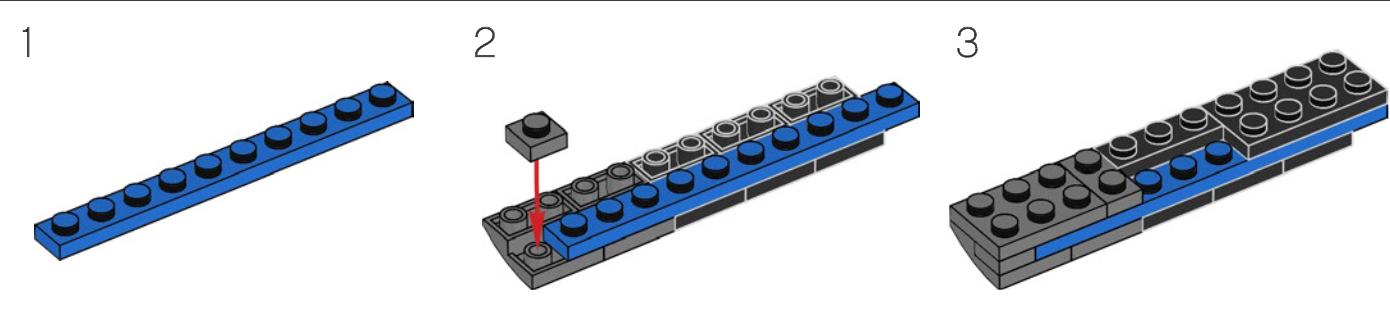
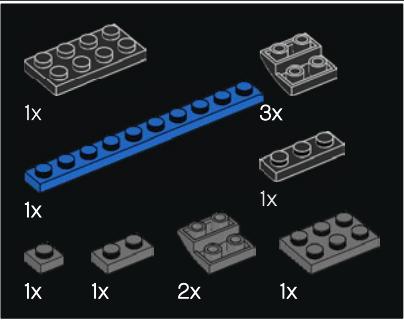
1x



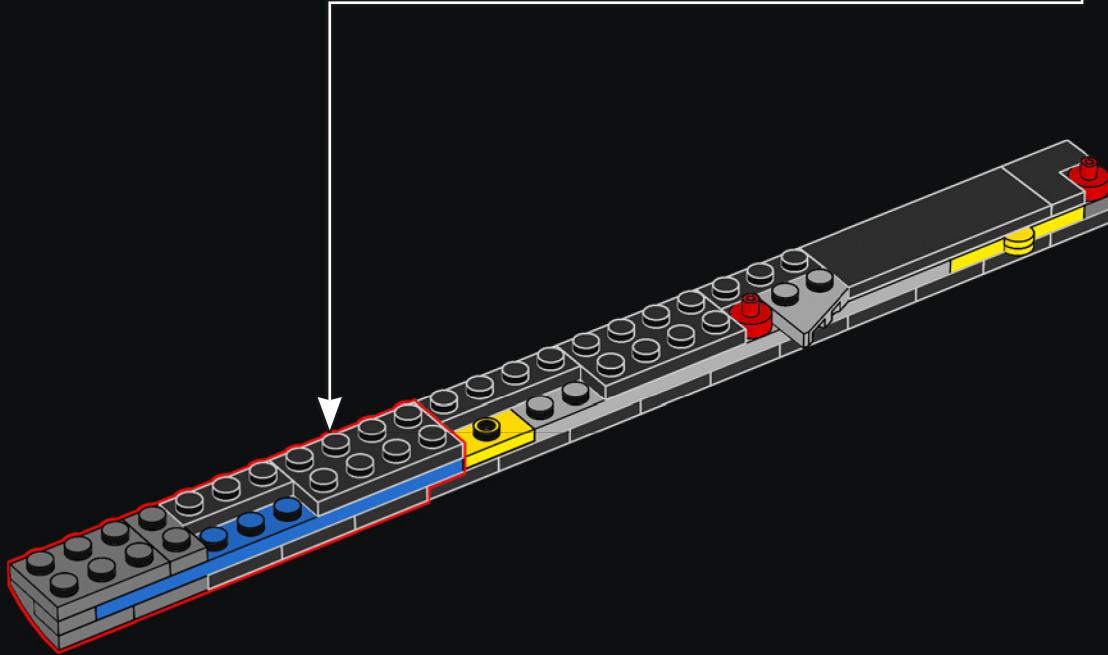
1x

74





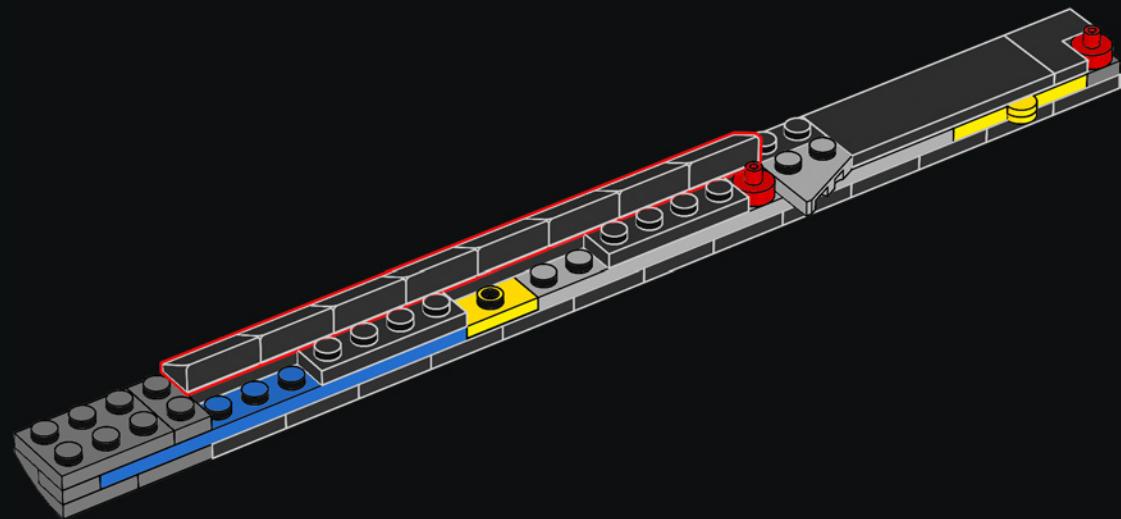
75





8x

76



1x

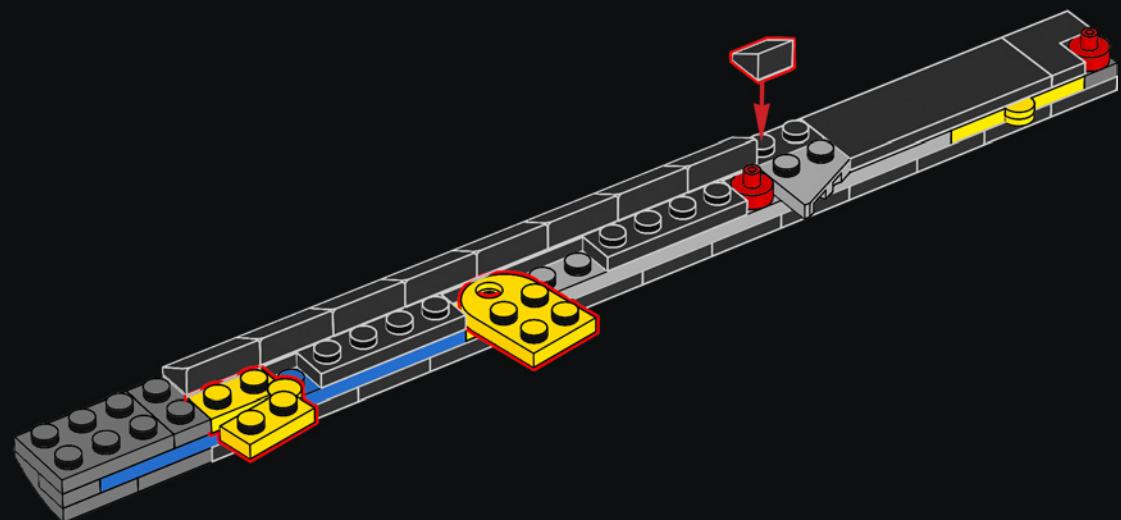


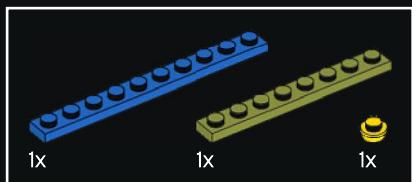
1x



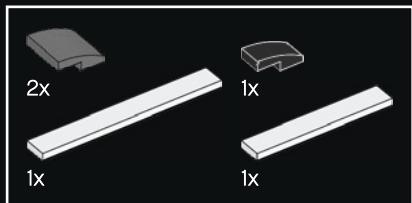
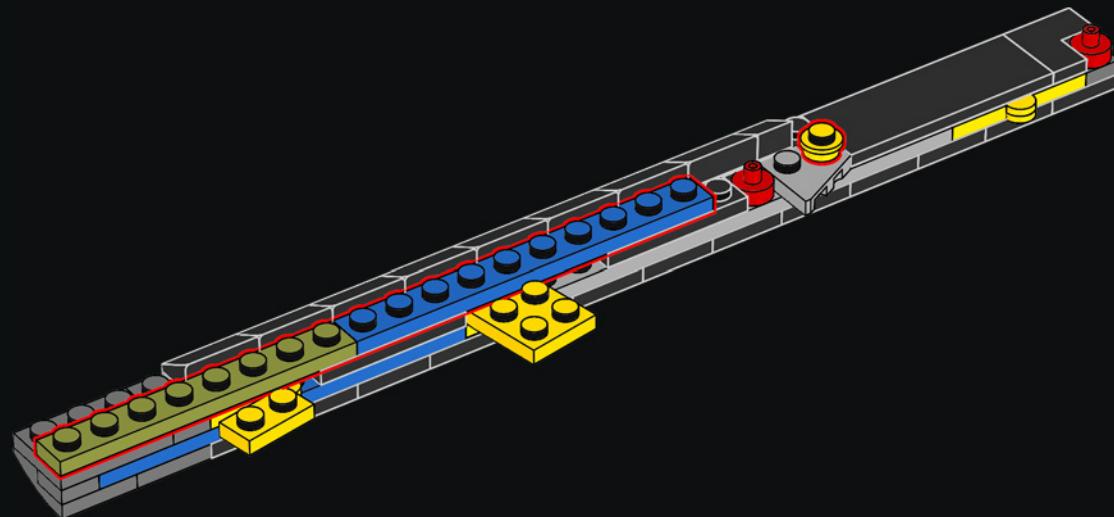
1x

77

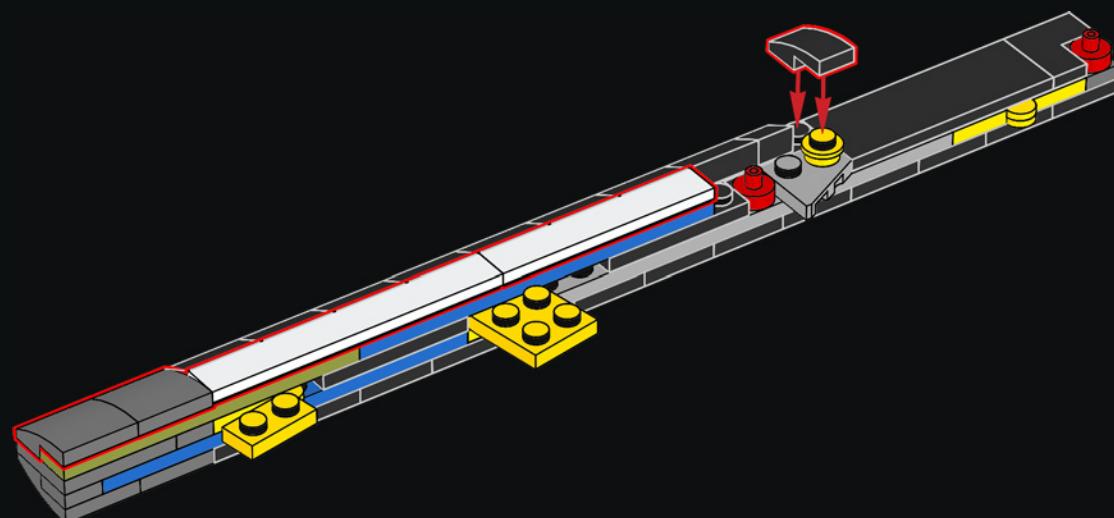




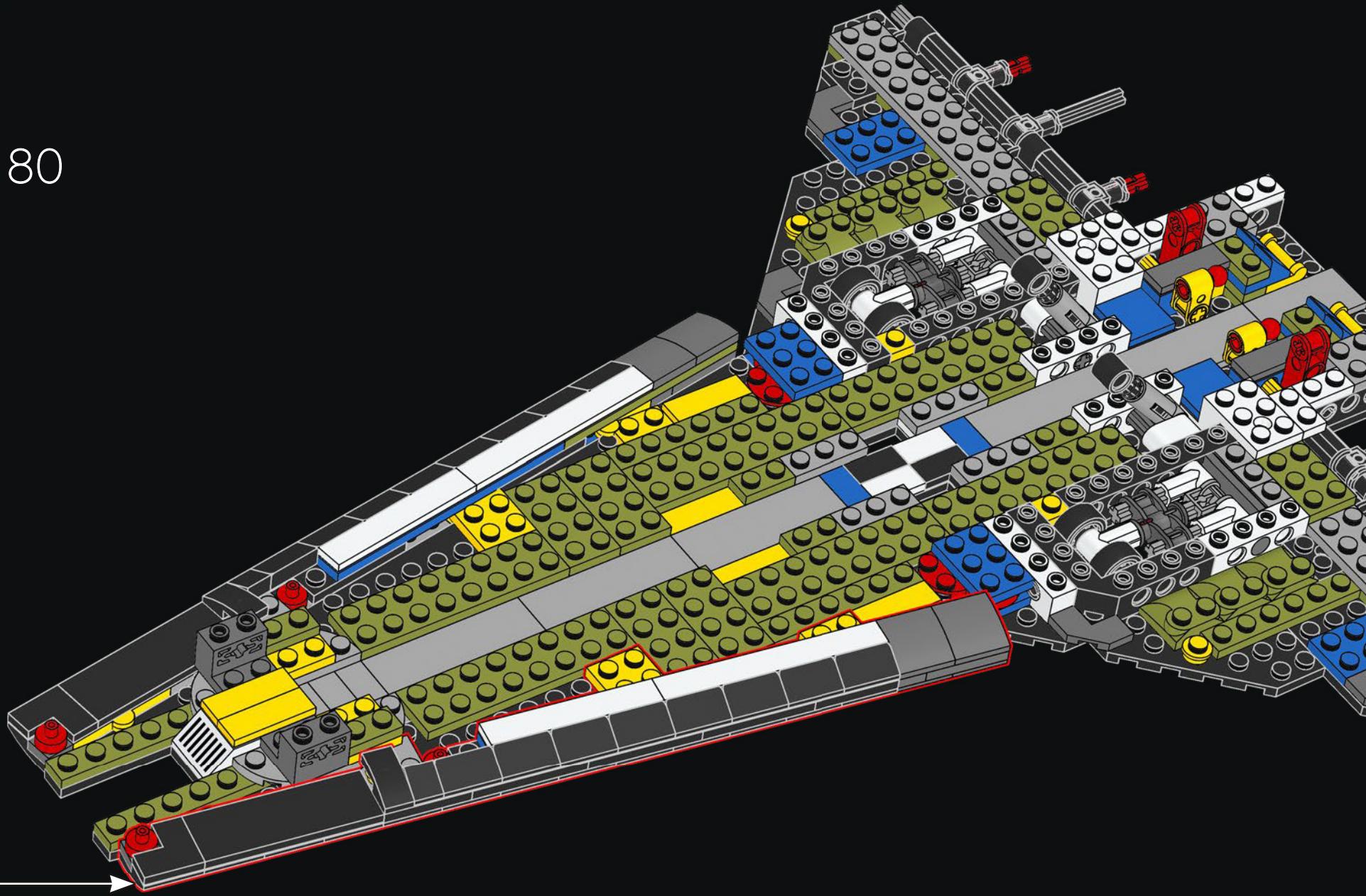
78

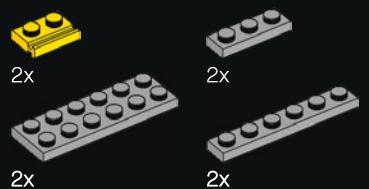


79

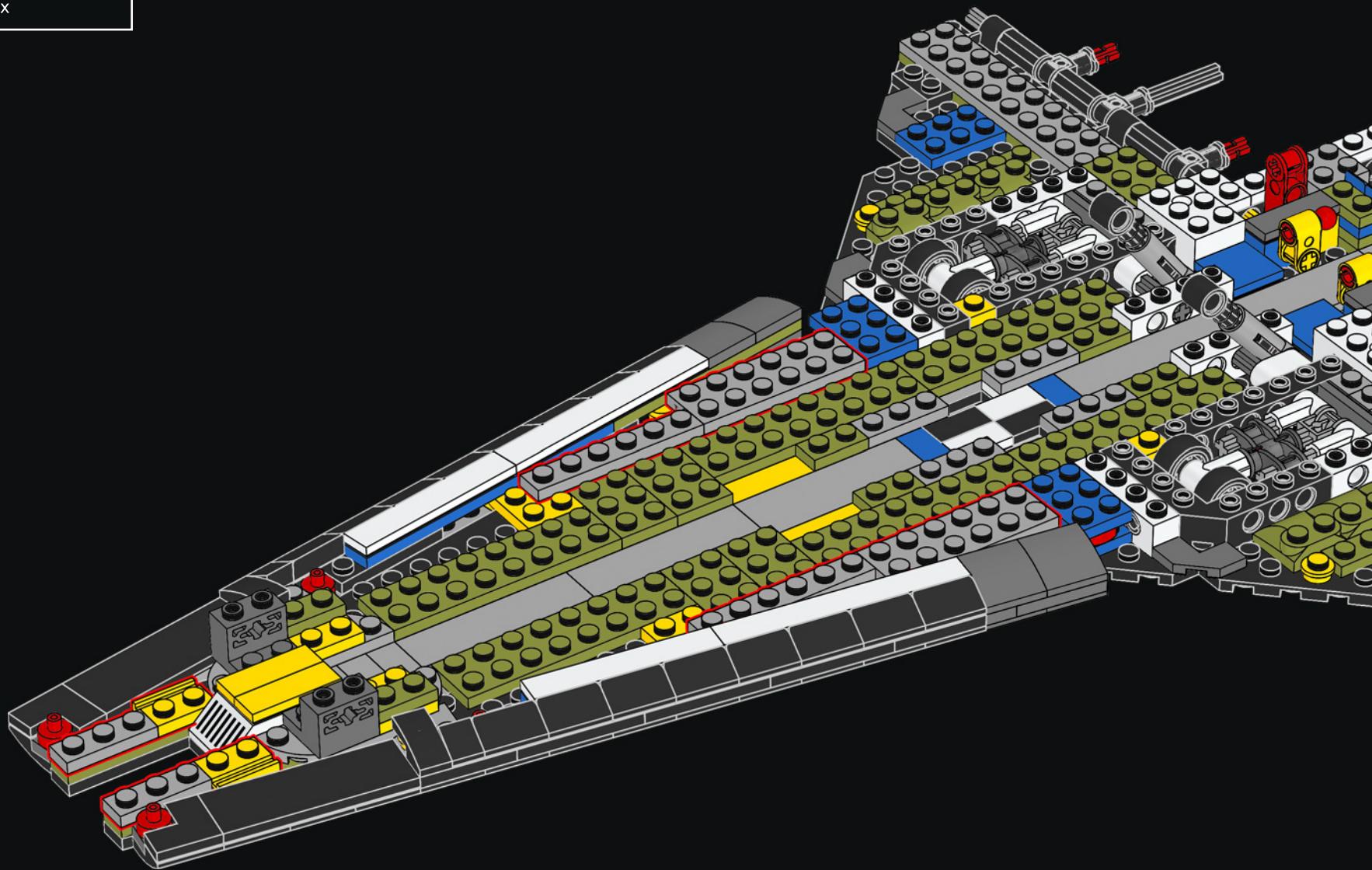


80



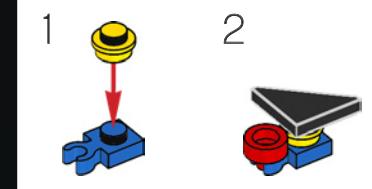
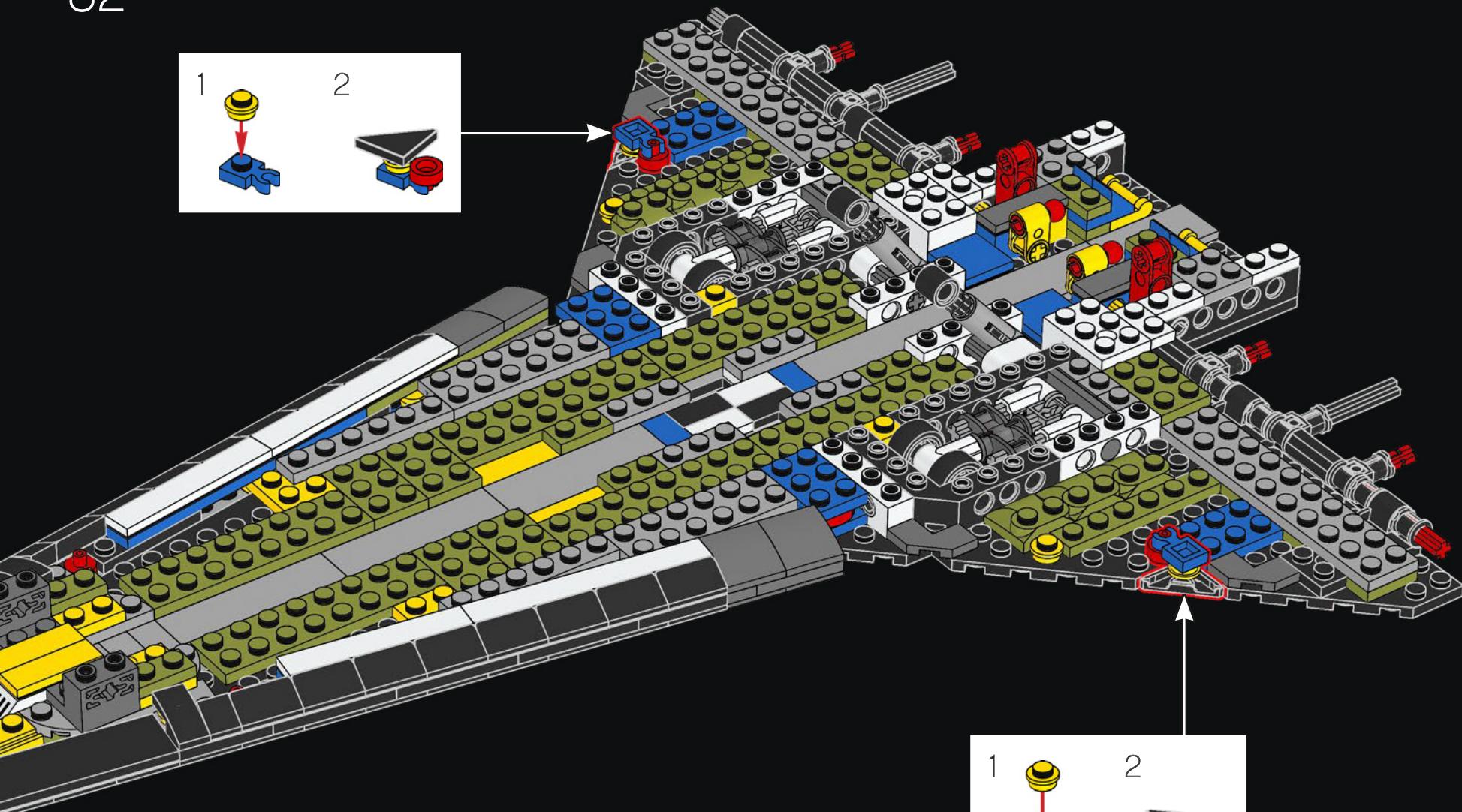
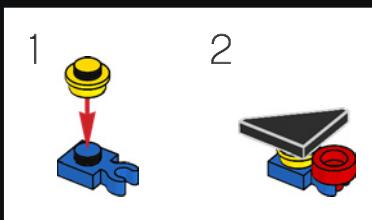


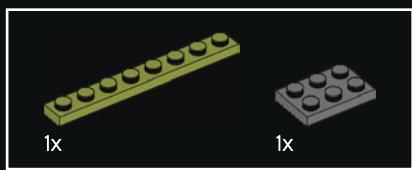
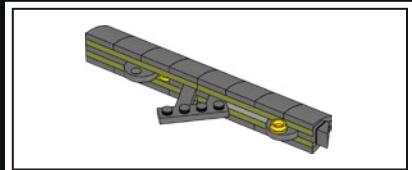
81



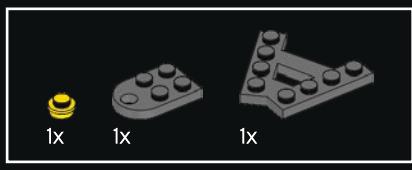
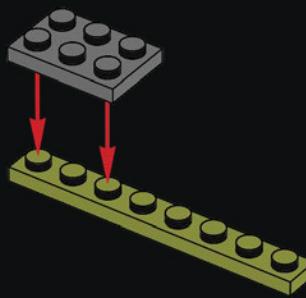


82

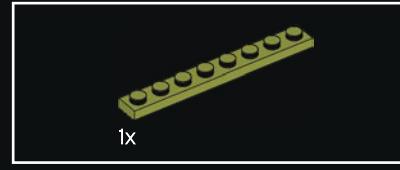
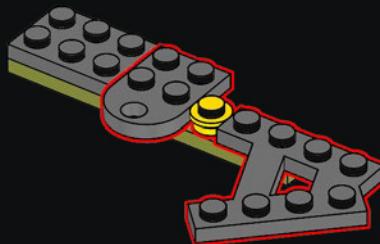




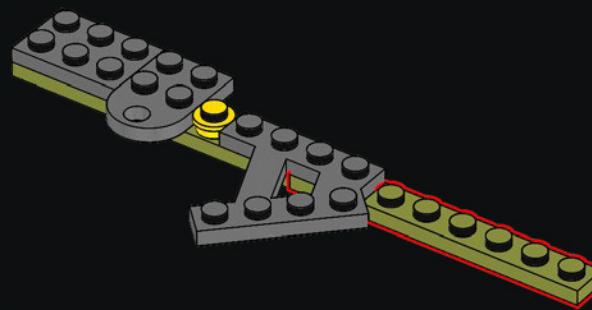
83



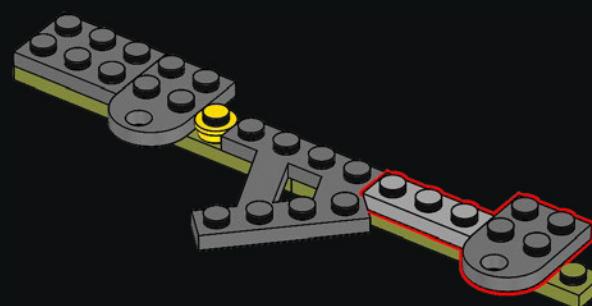
84



85

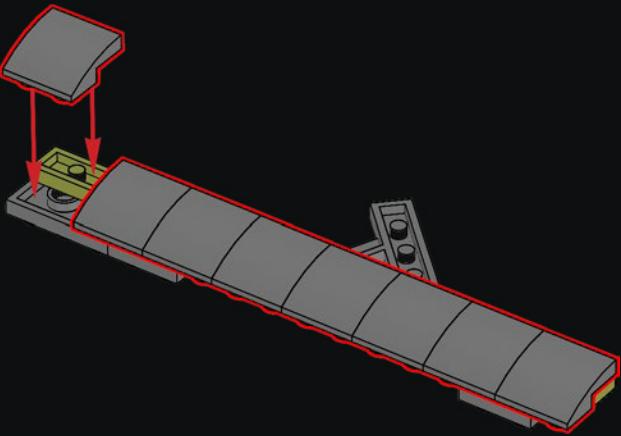


86

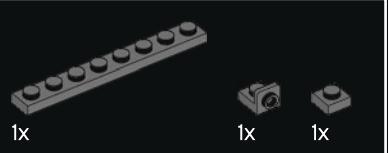
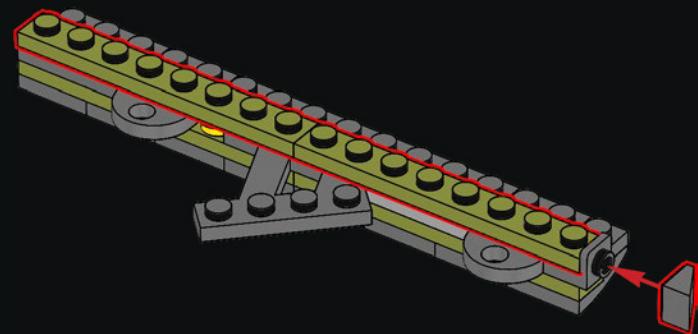




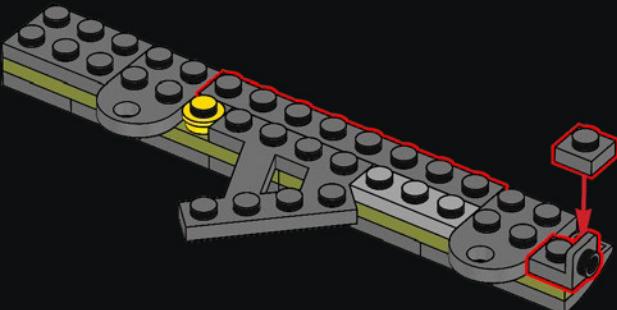
87



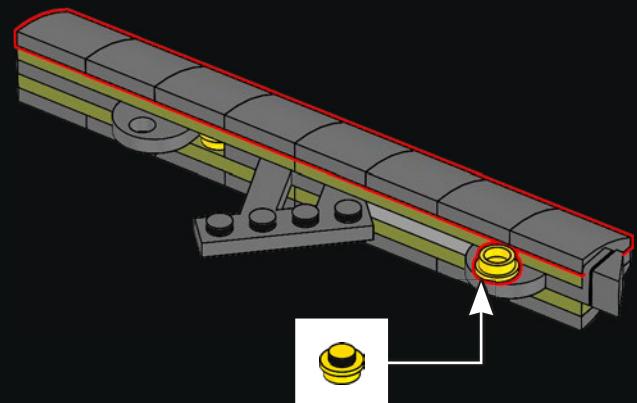
89



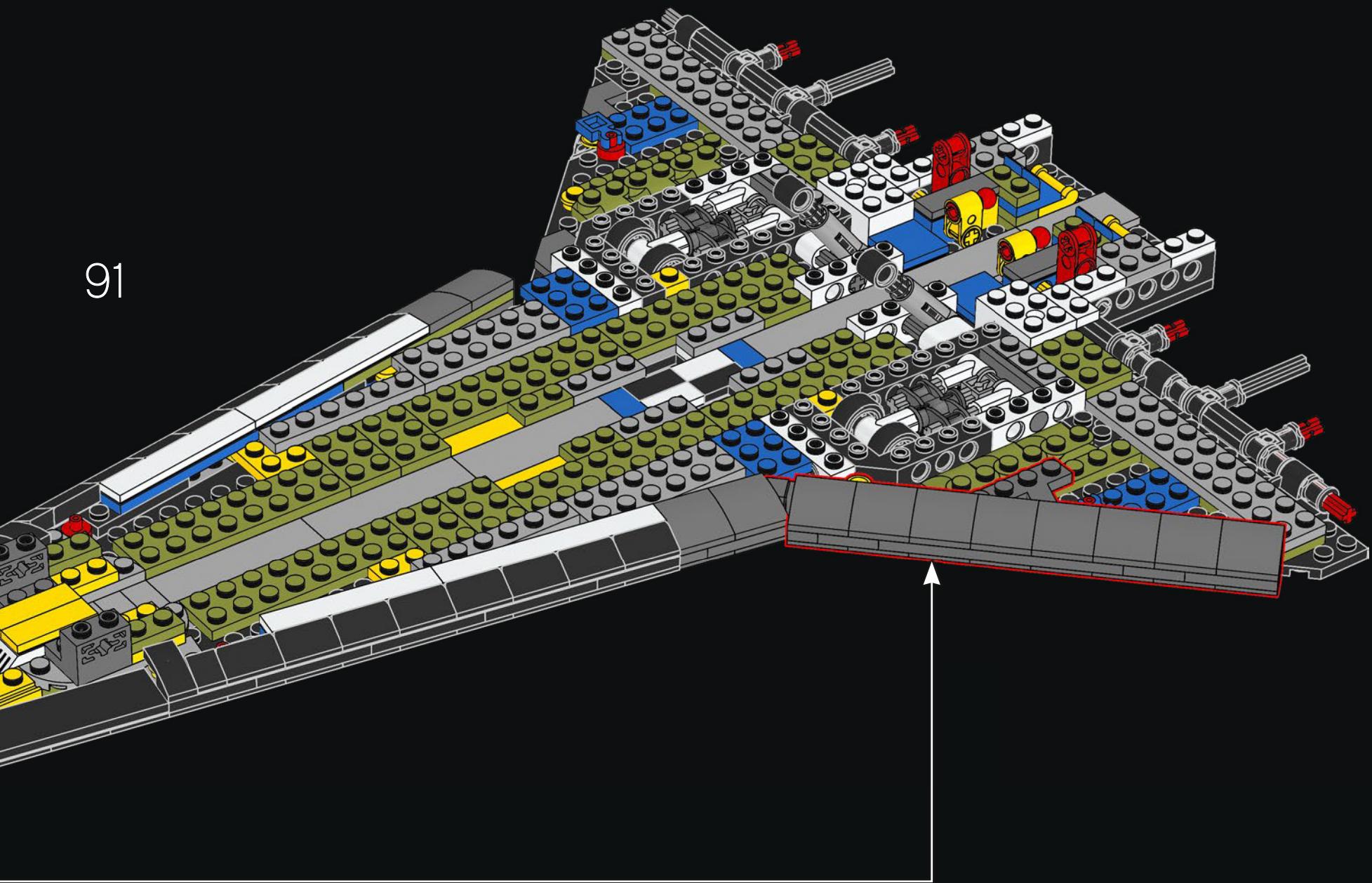
88

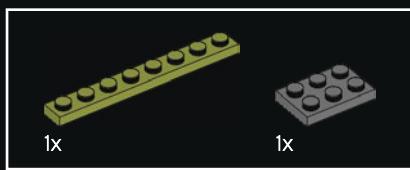
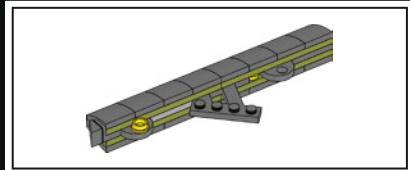


90

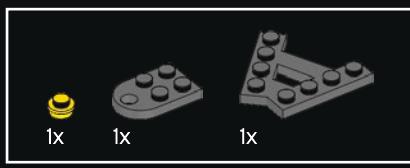
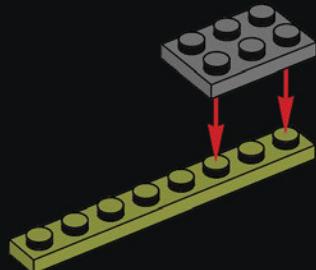


91

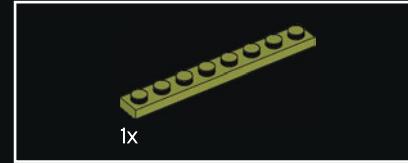
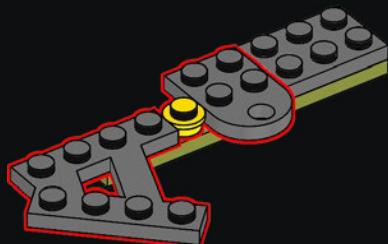




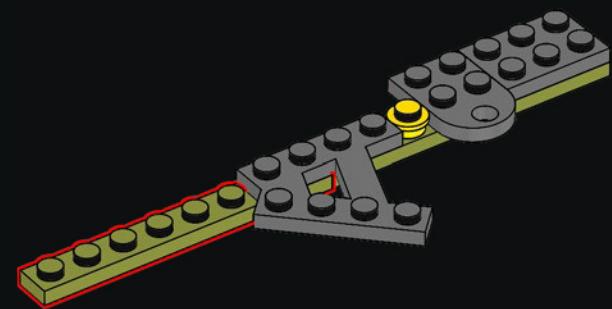
92



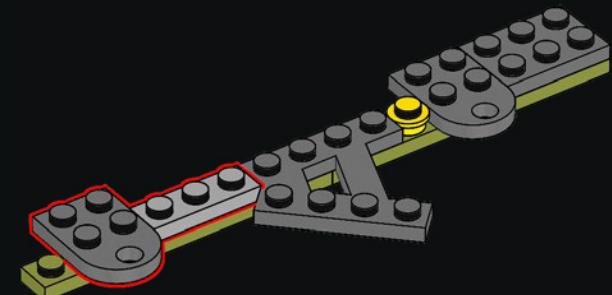
93



94



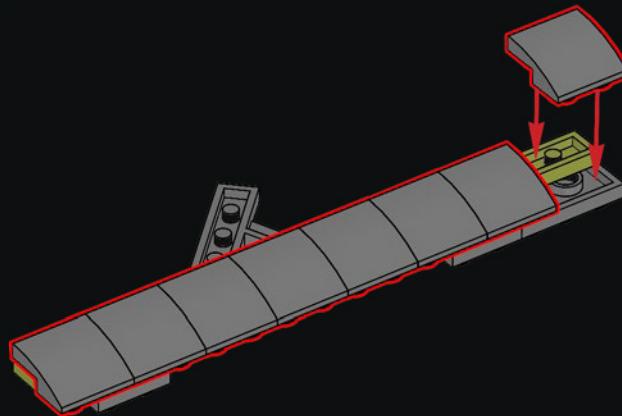
95





8x

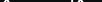
96



1x

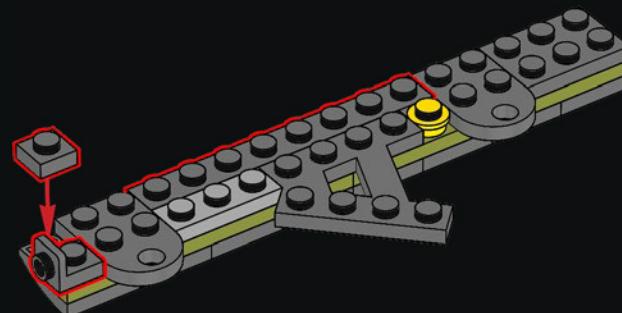


1x



1x

97



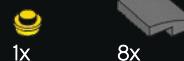
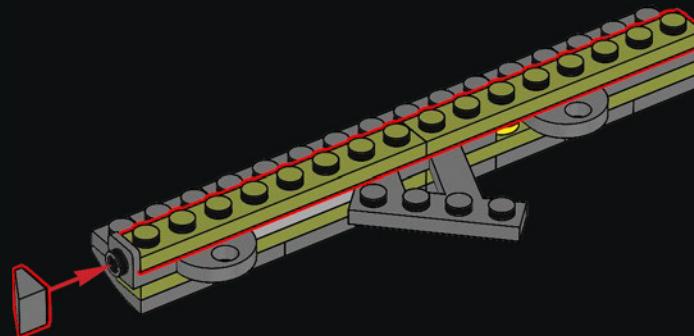
130



1x

2x

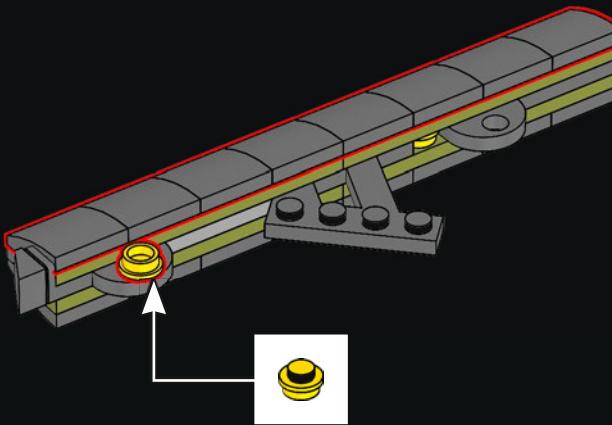
98



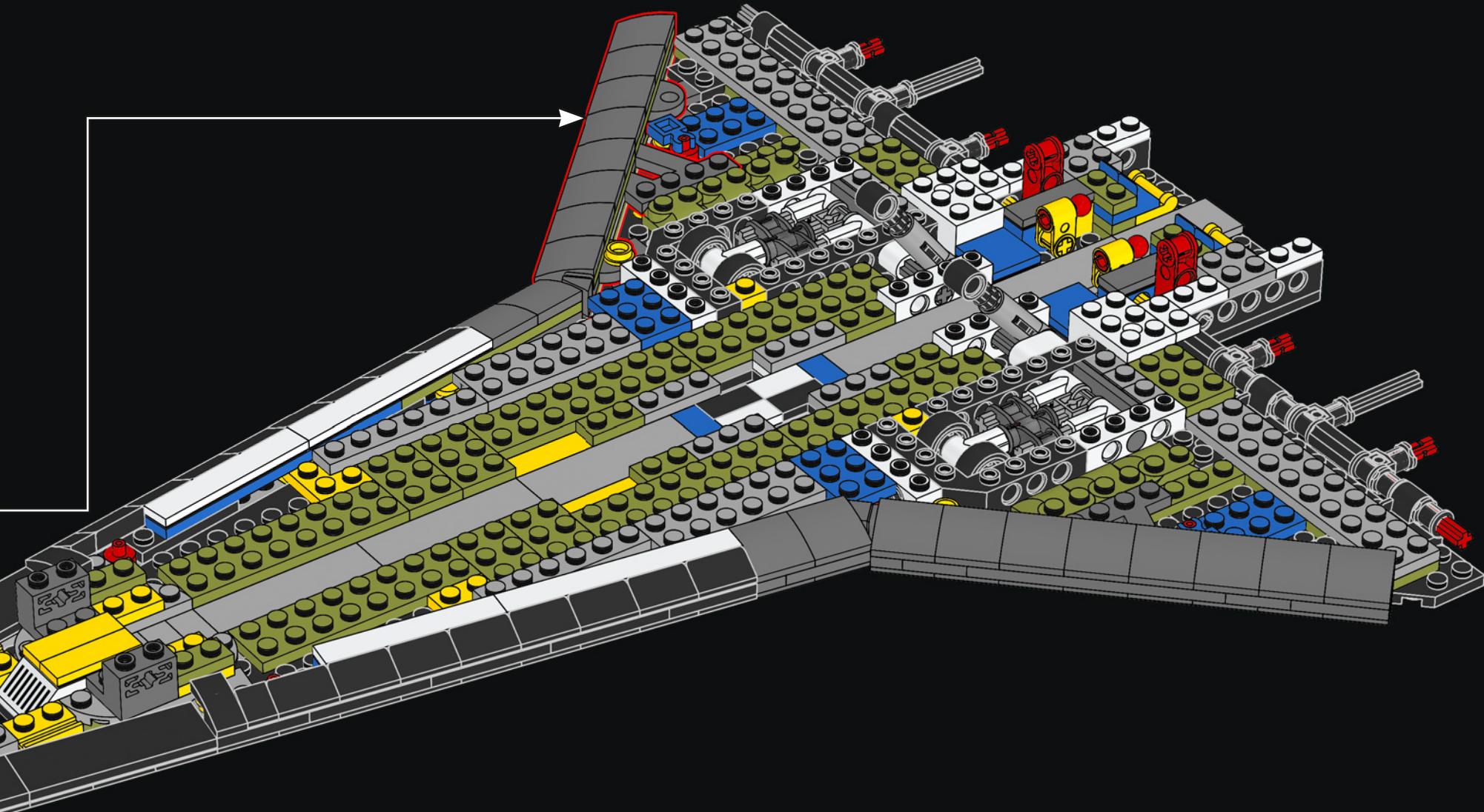
1x

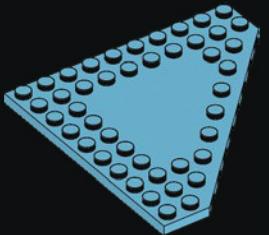
8x

99



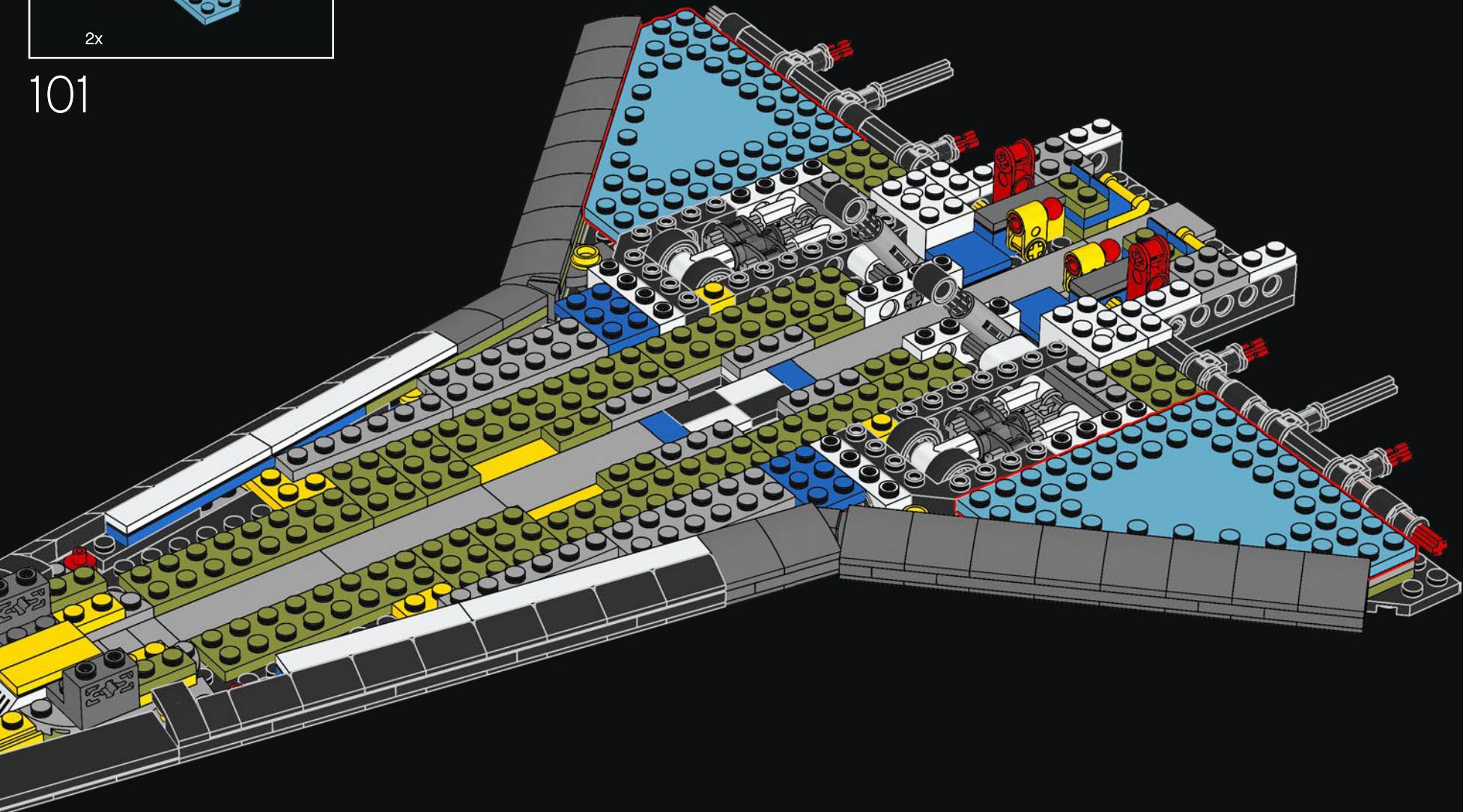
100





2x

101





2x



2x

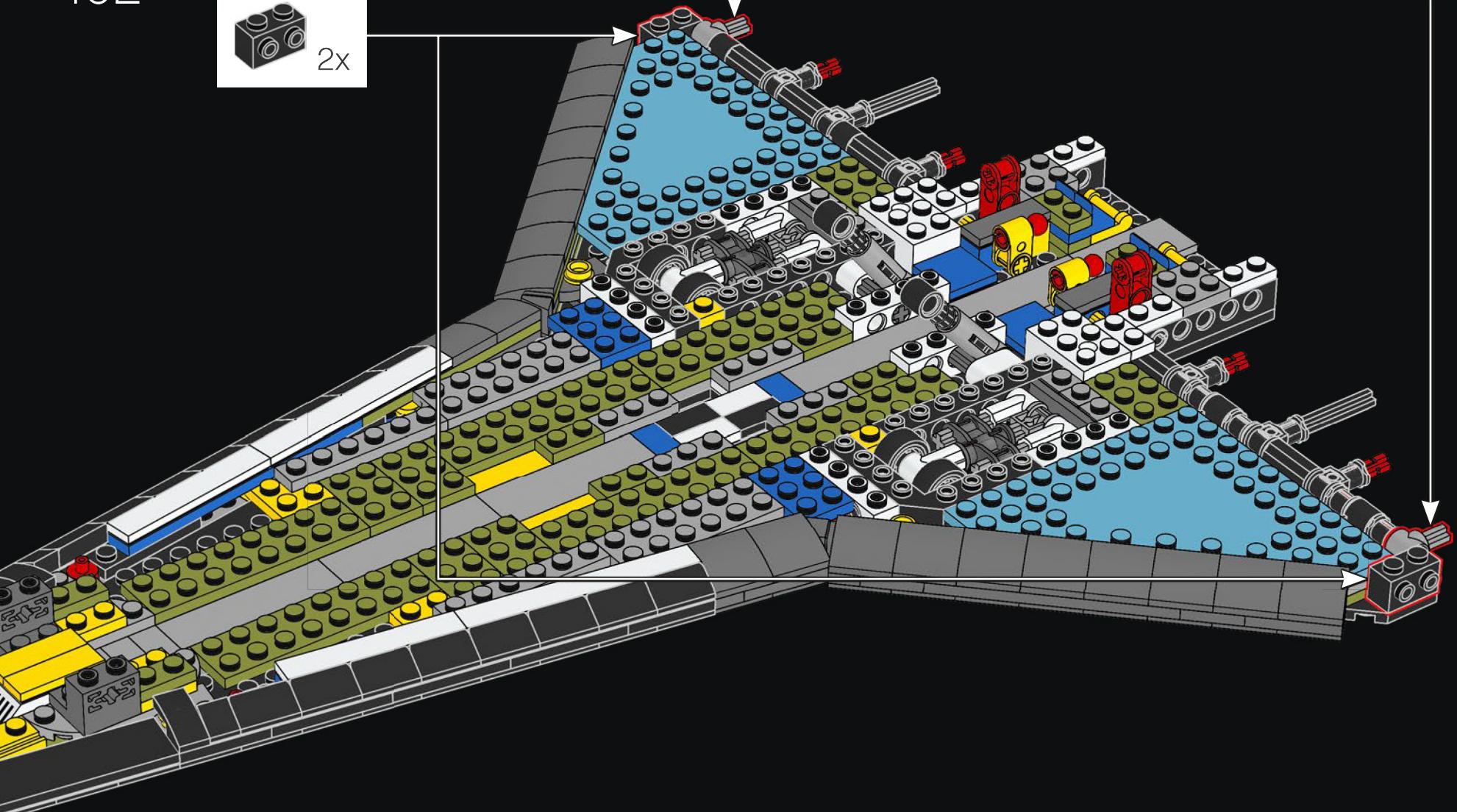
102



2x

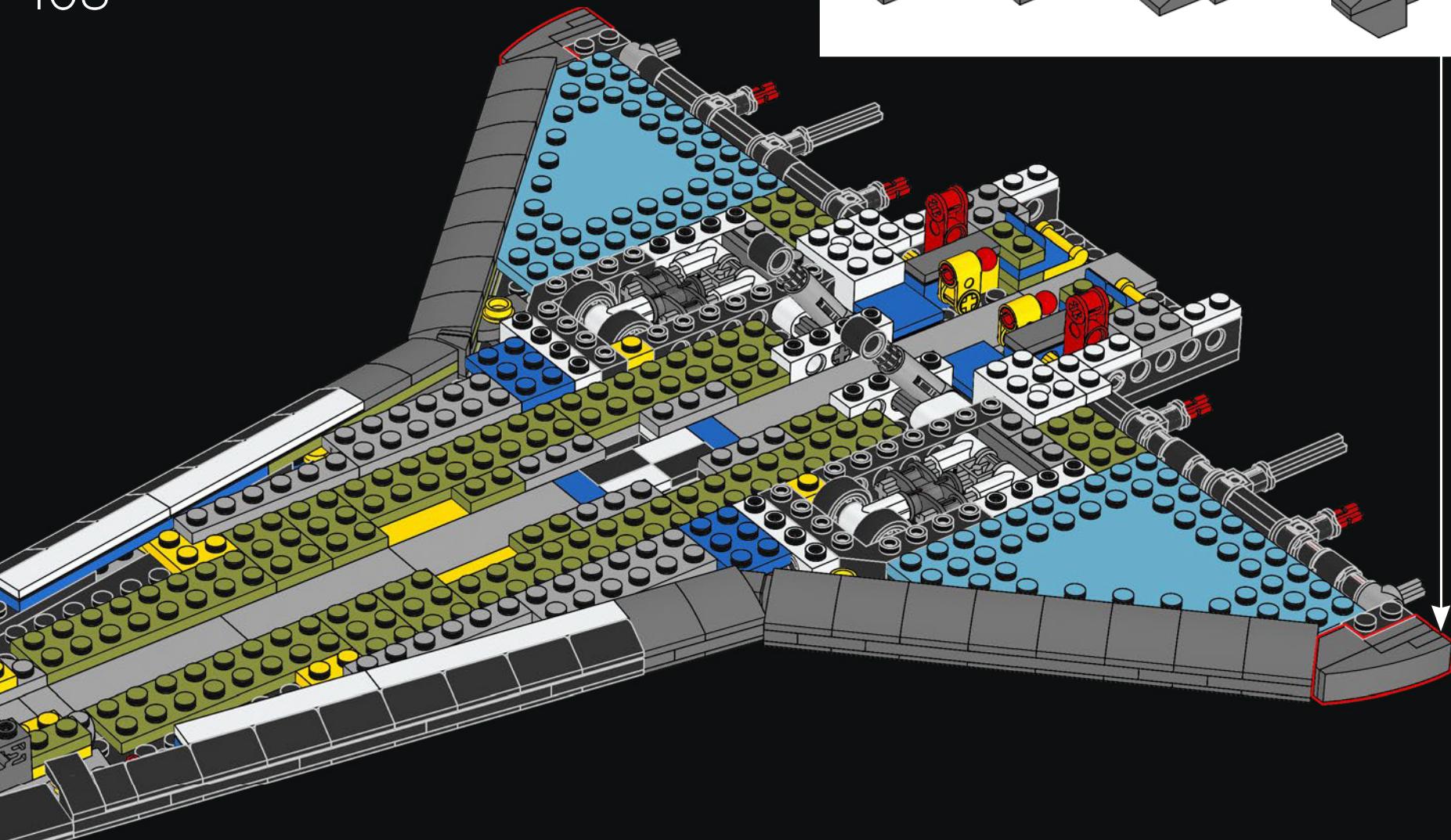
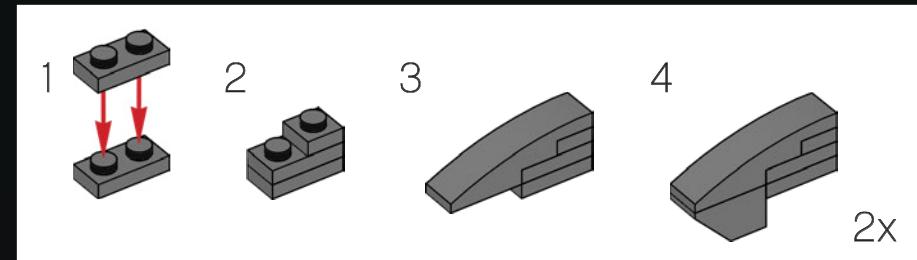


2x



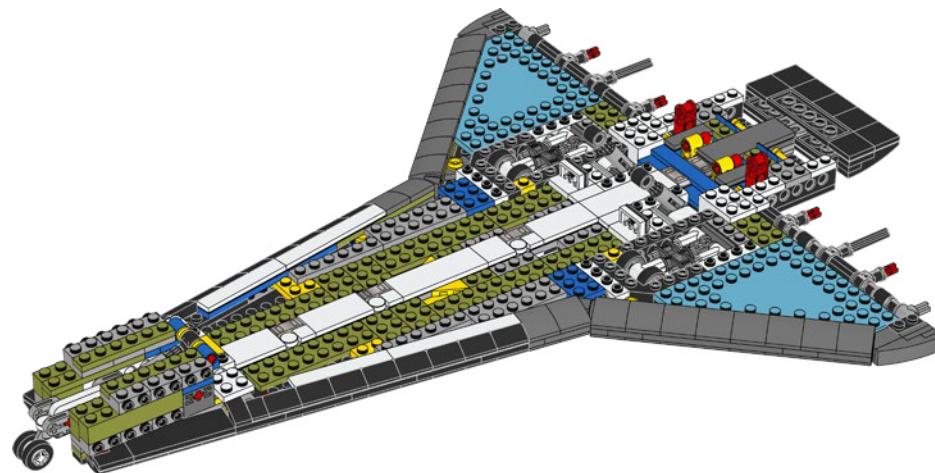


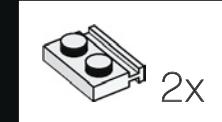
103



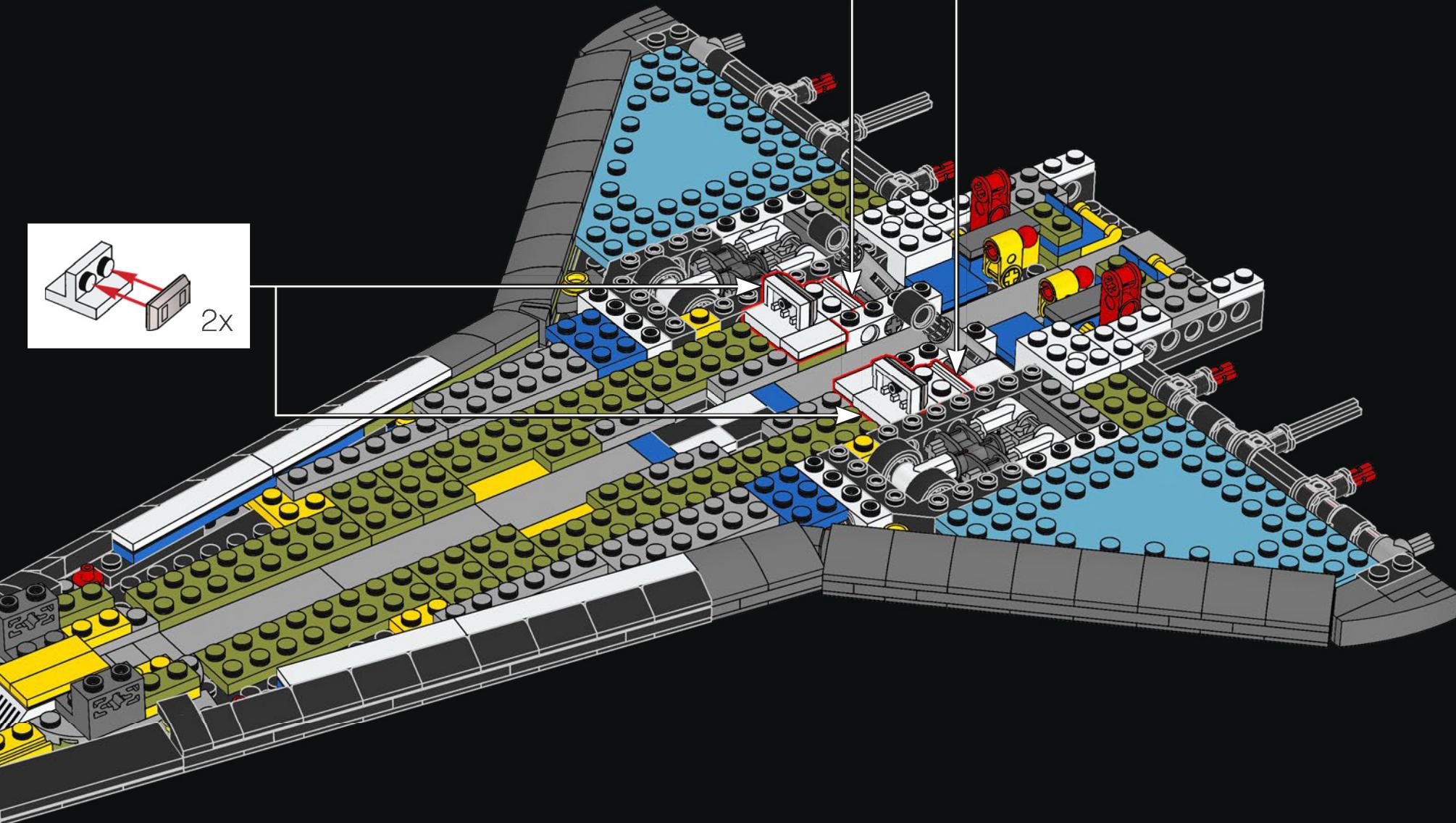
### ¿LO SABÍAS?

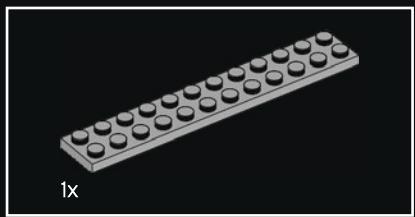
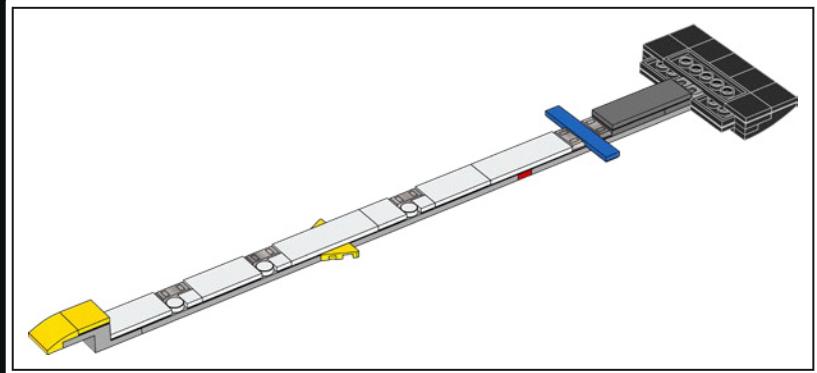
El morro y los bordes de ataque de las alas son las partes que registran más calor durante la reentrada: ¡hasta 1600 °C!



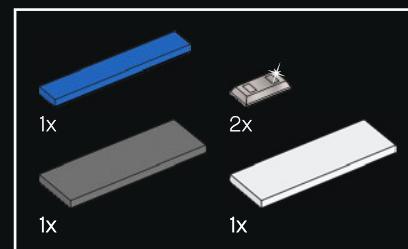
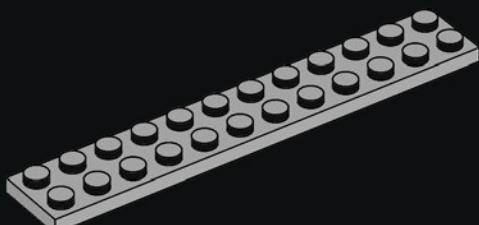
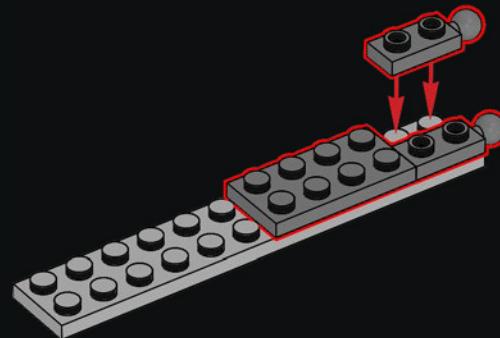


104

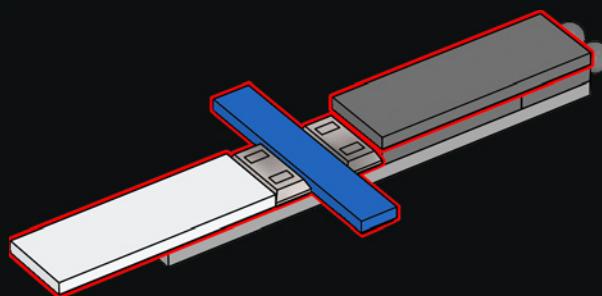


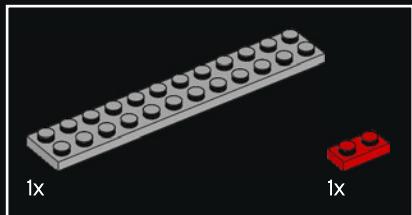


106

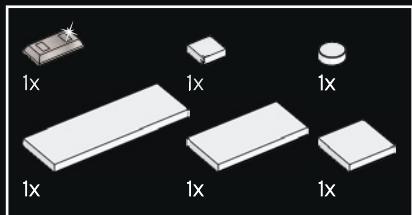
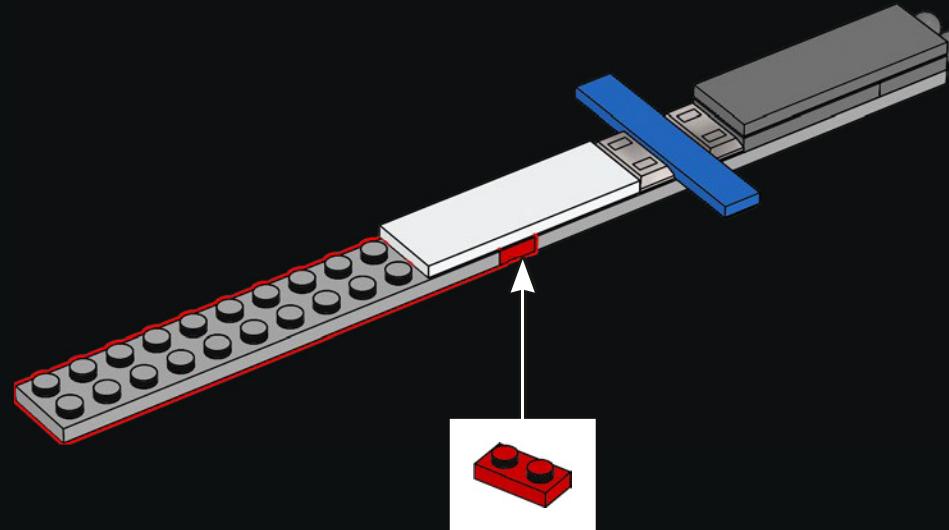


107

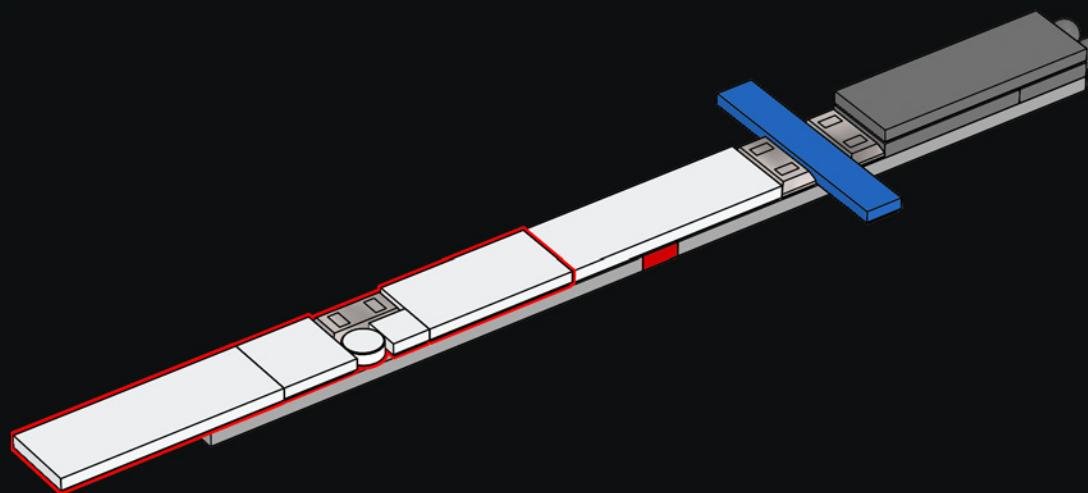


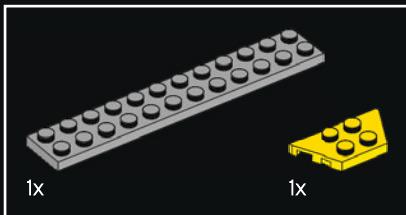


108

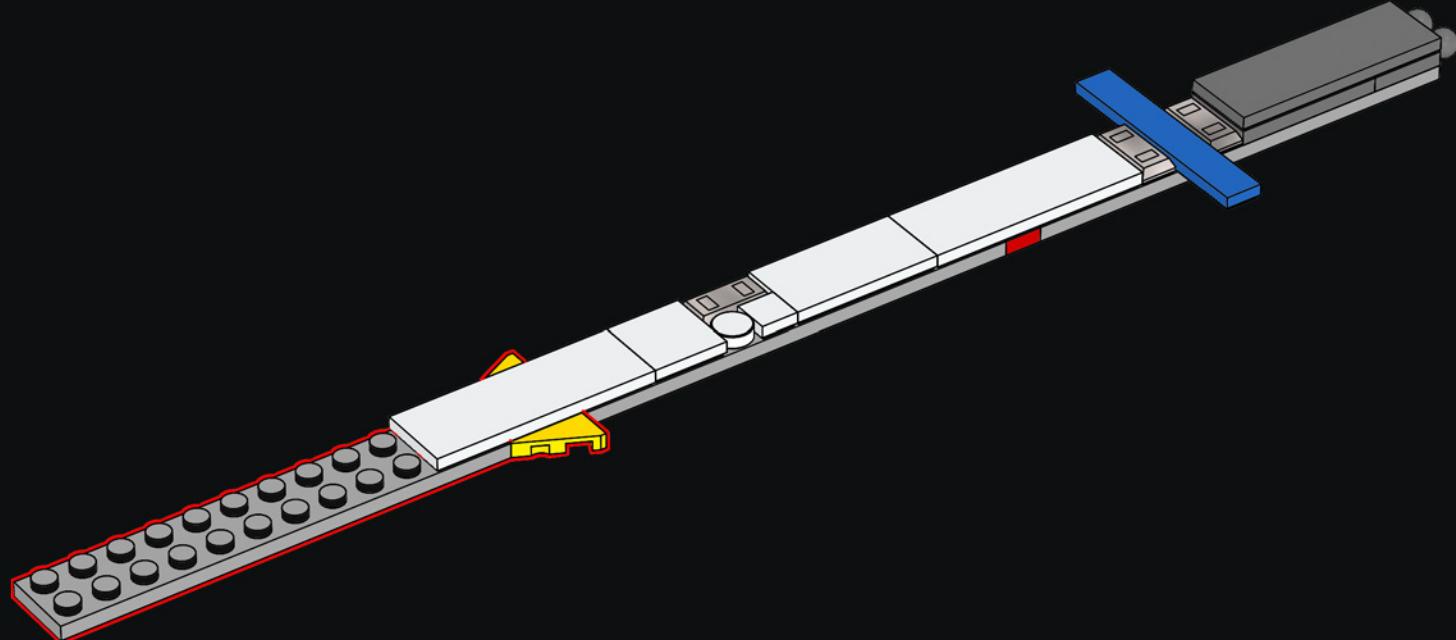


109

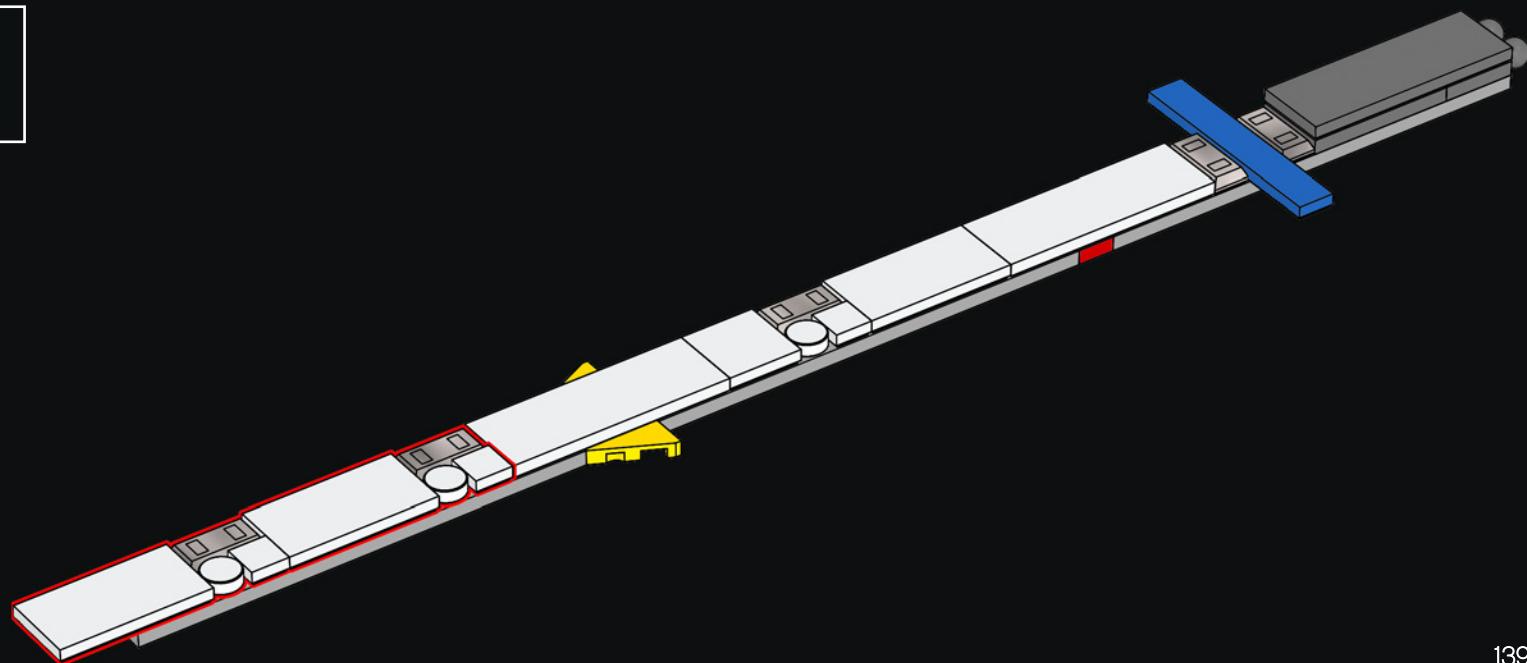




110



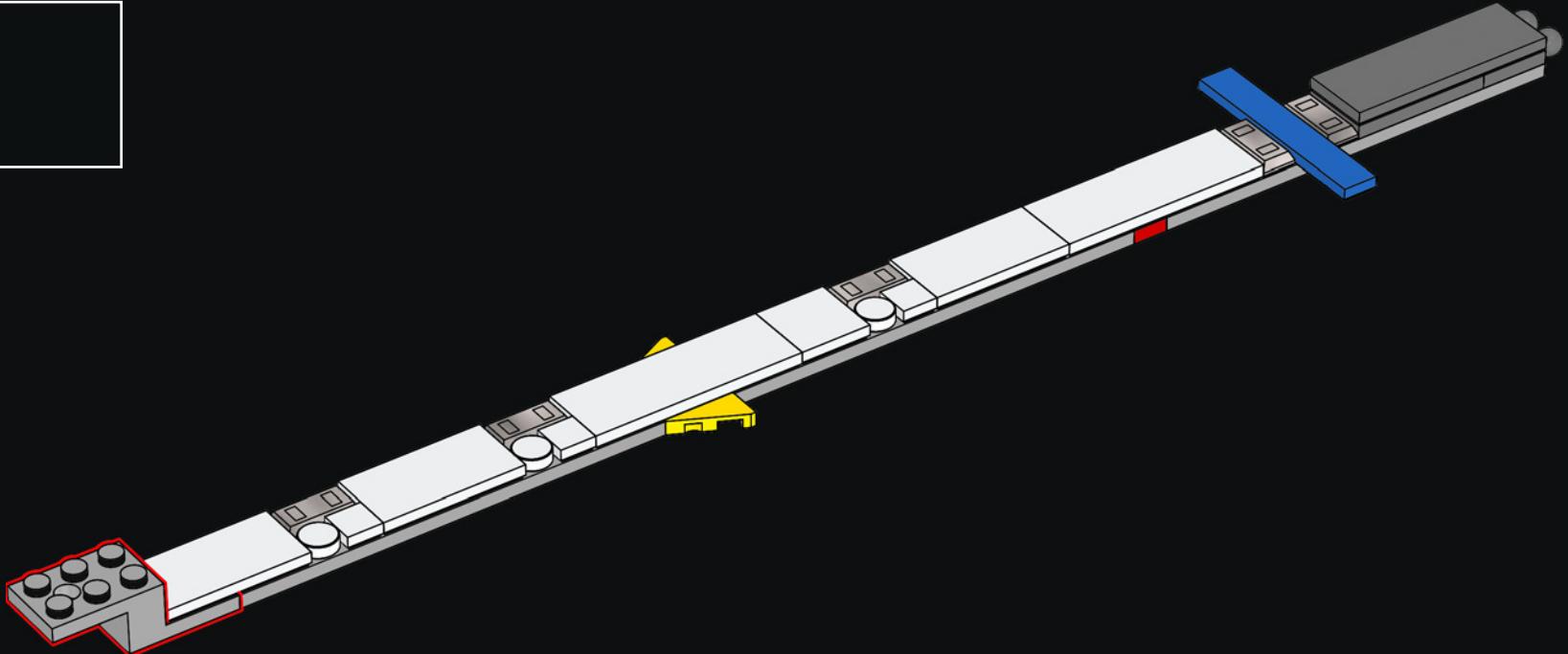
111



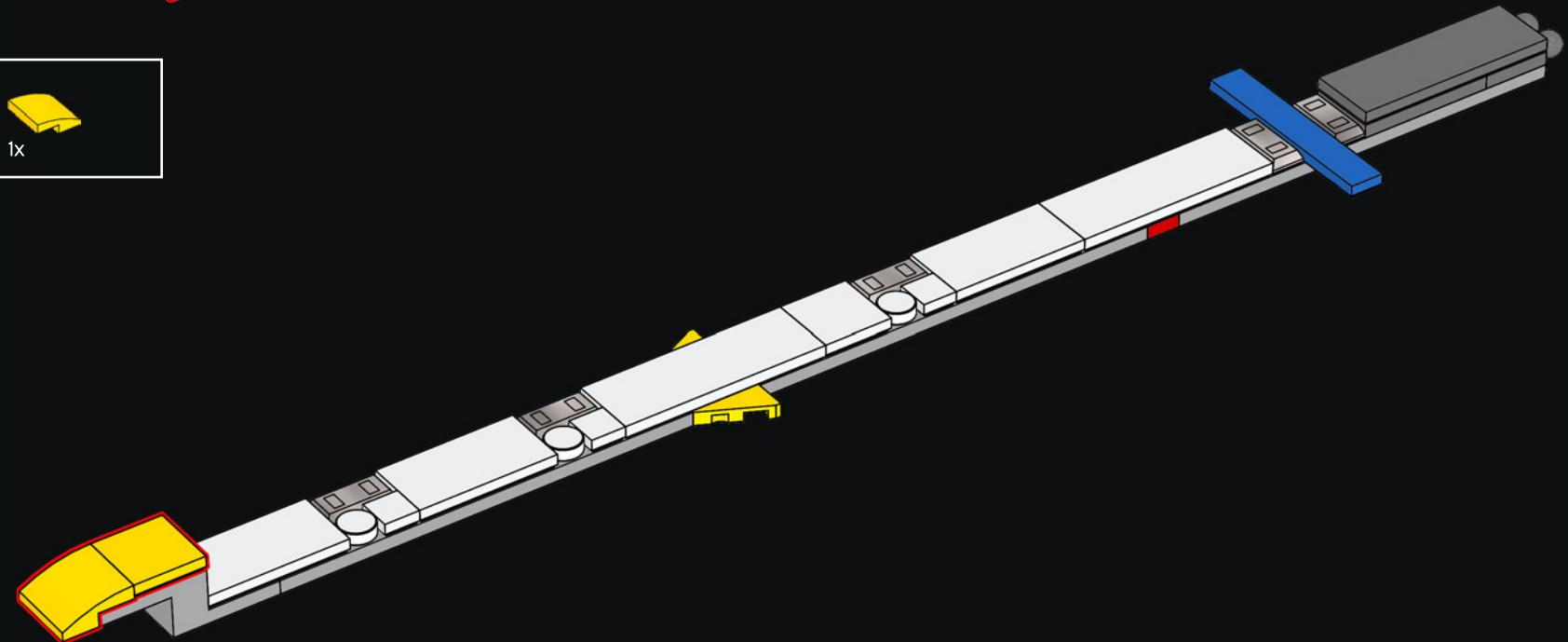


1x

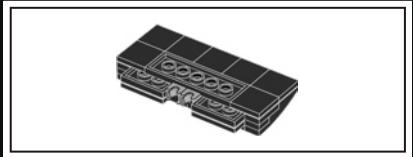
112



1x



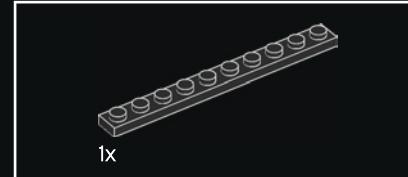
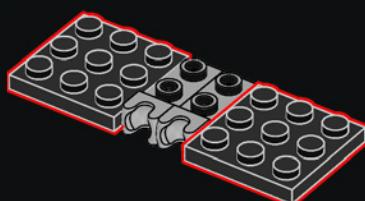
140



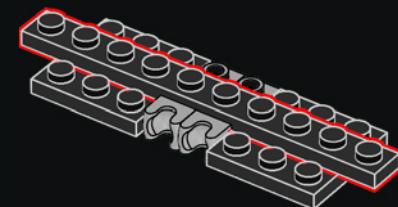
114



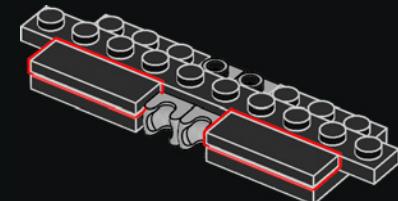
115



116



117



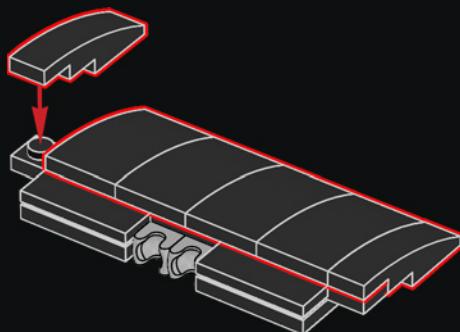


4x



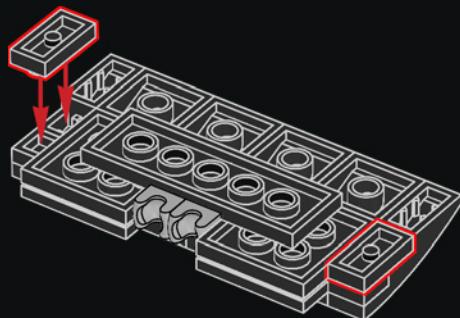
2x

118



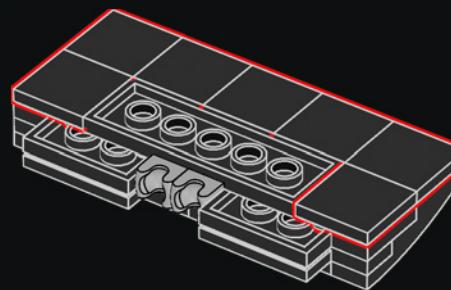
2x

119



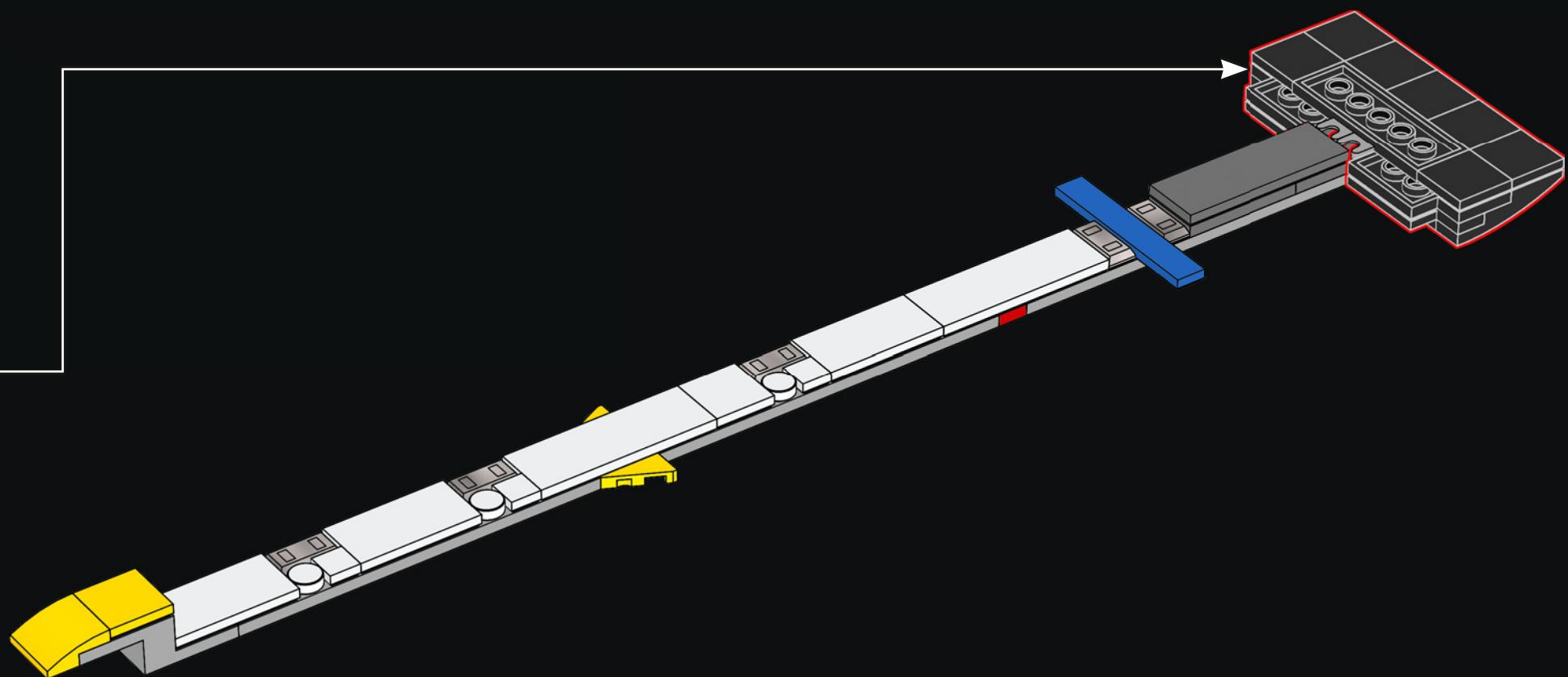
7x

120

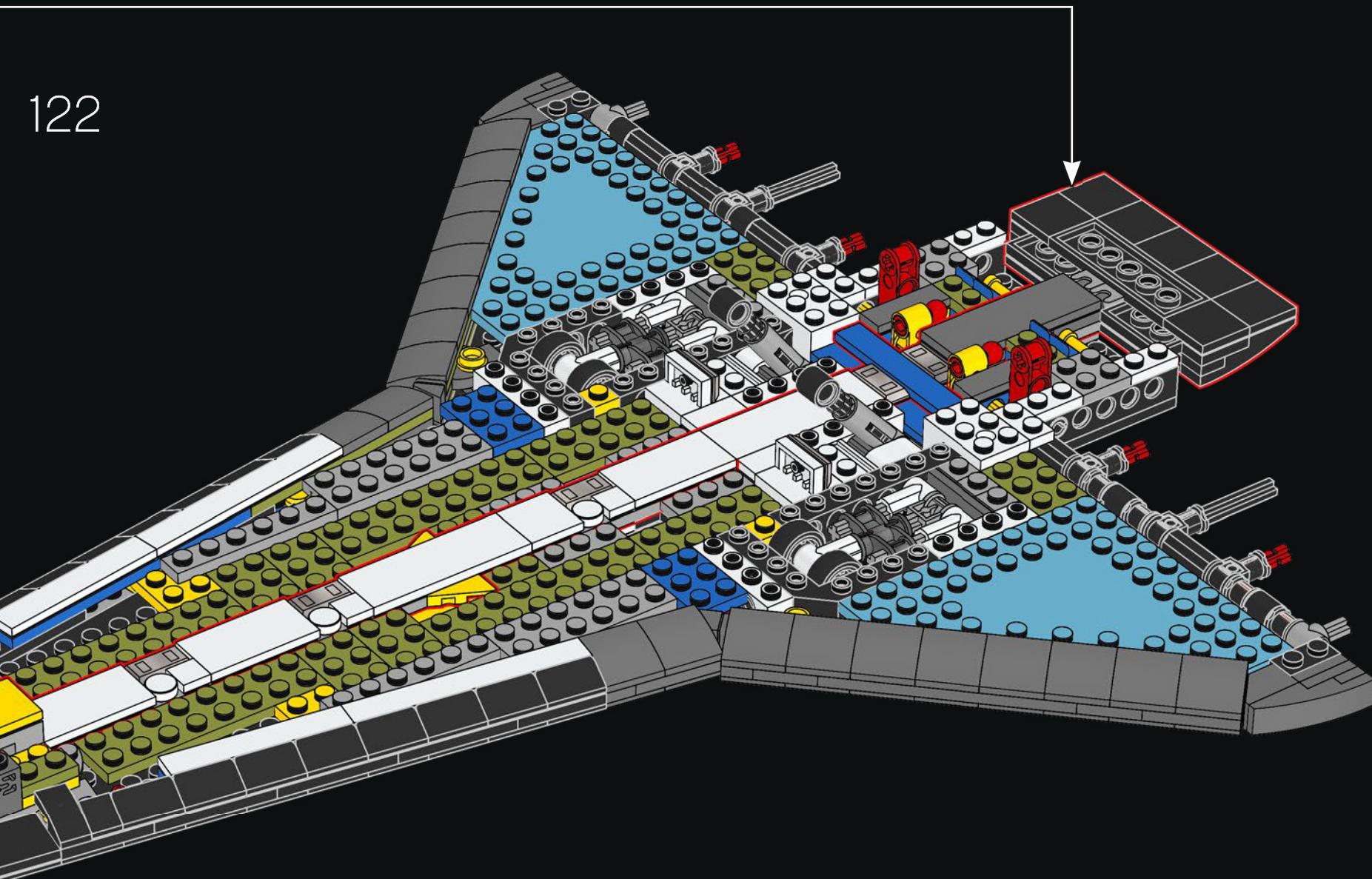


142

121



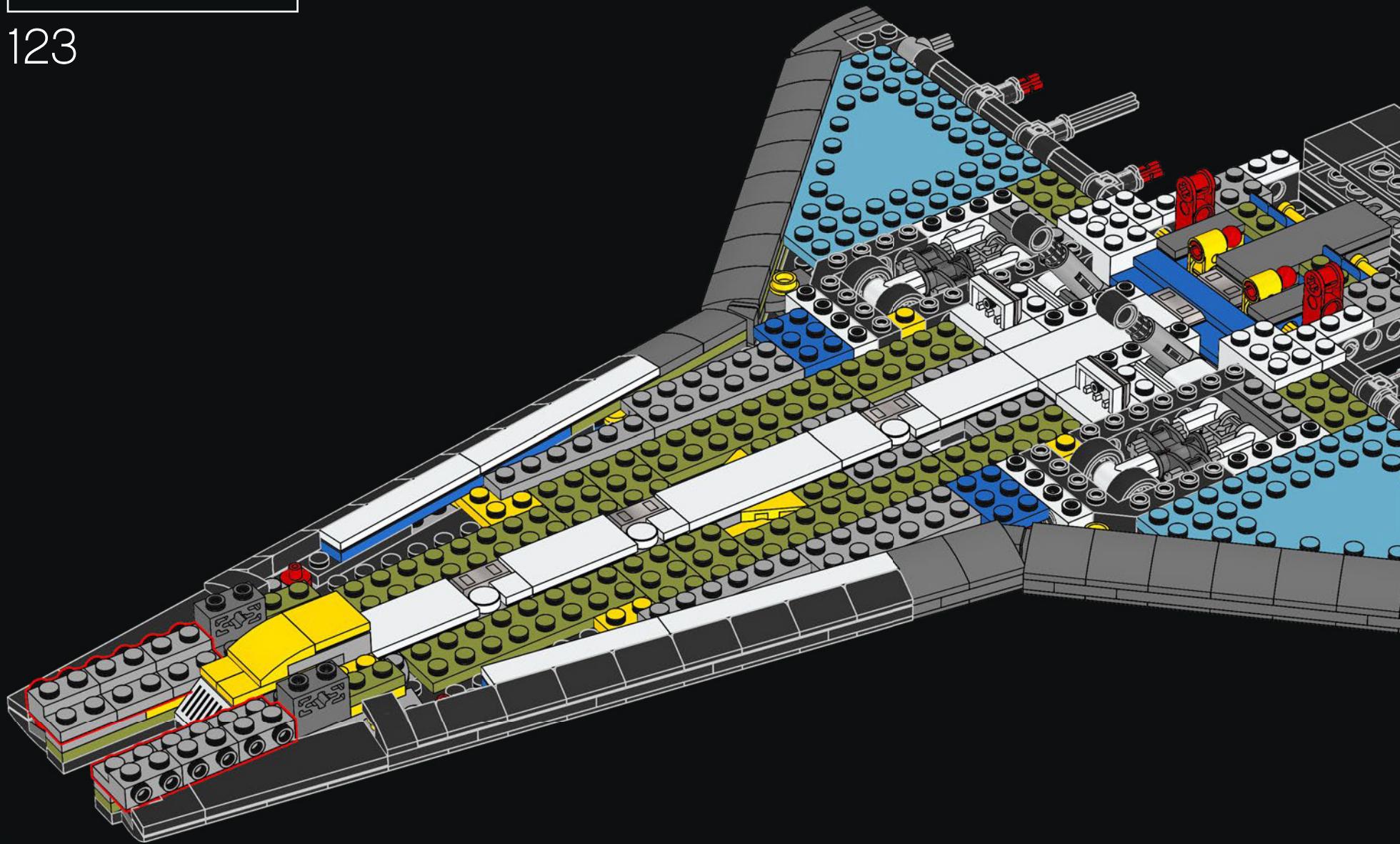
122





6x

123





124



2x

125



2x

126

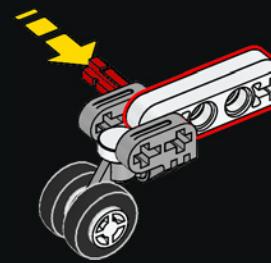


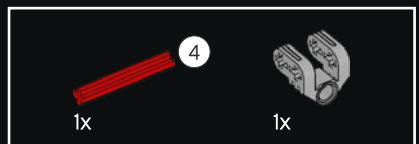
127



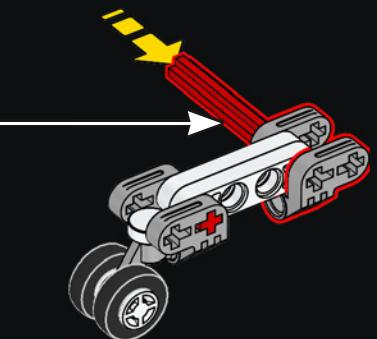
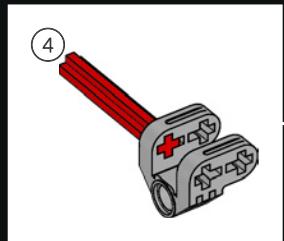
2x

128

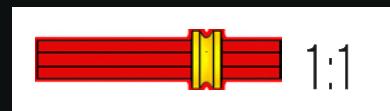
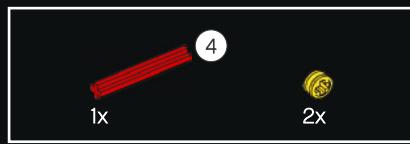
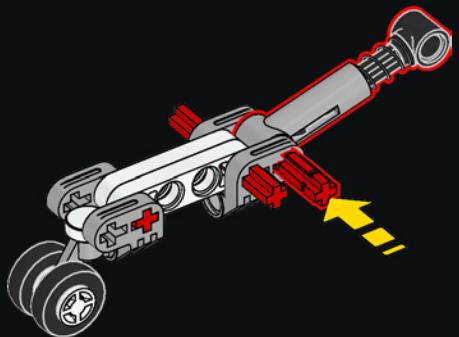




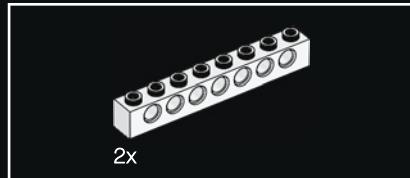
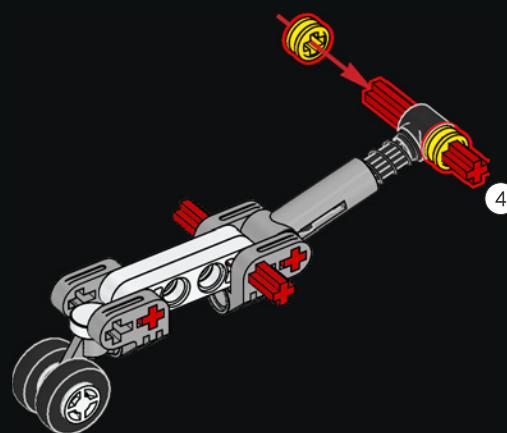
129



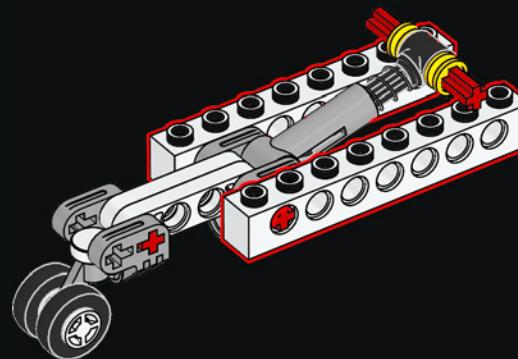
130



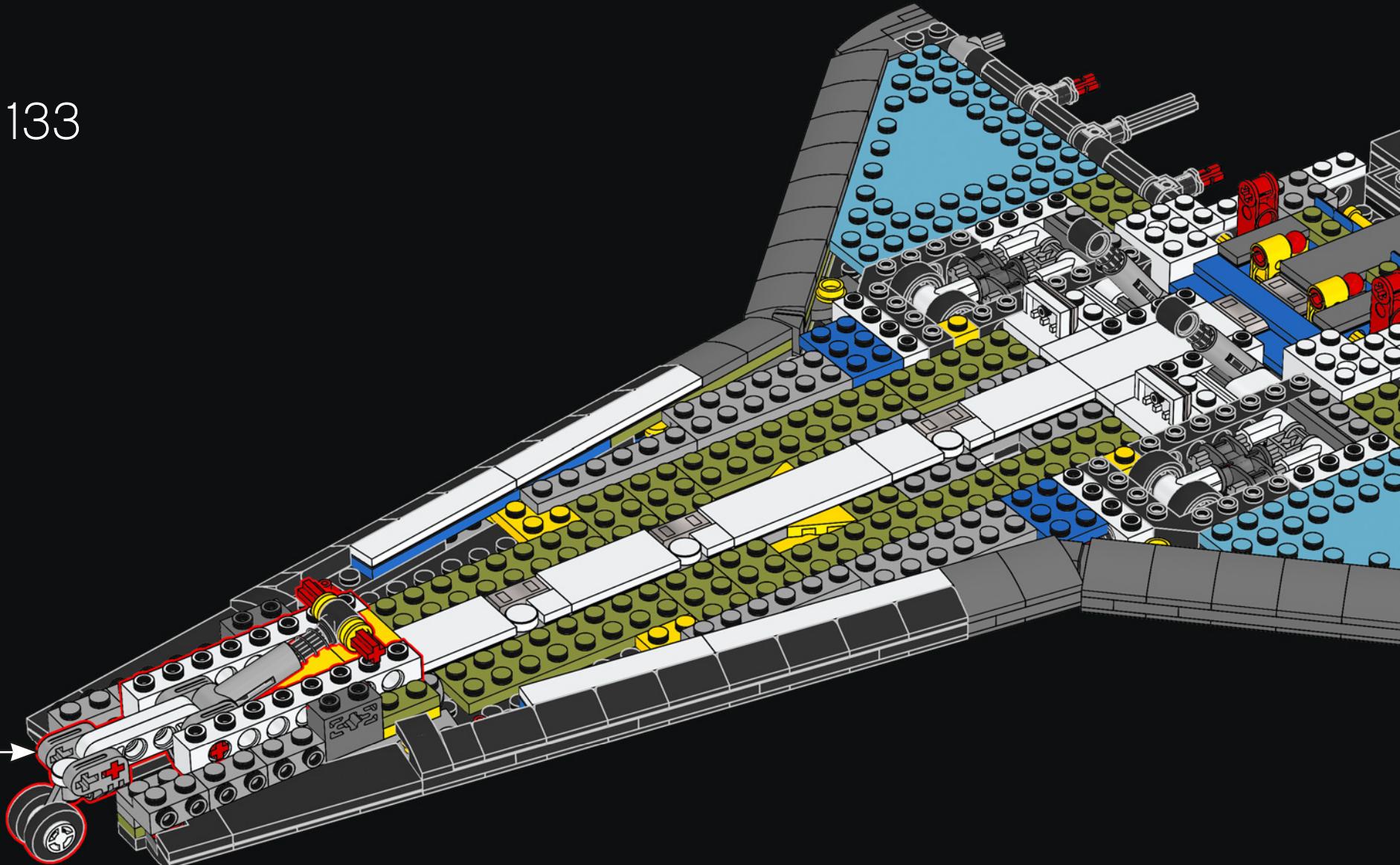
131



132

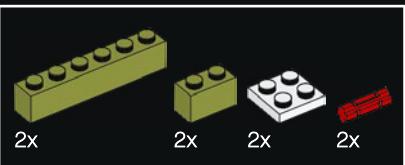


133

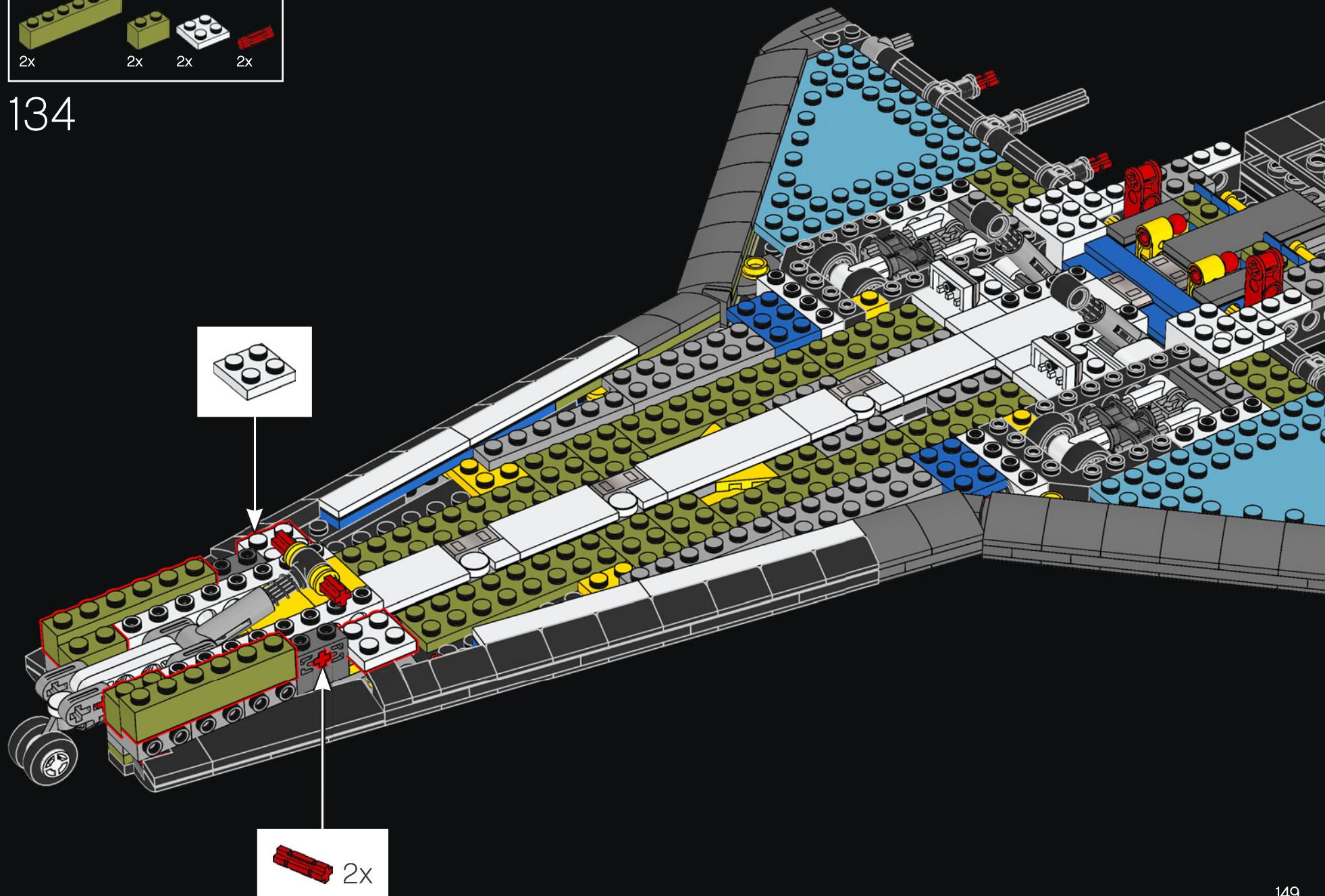


### ¿LO SABÍAS?

Como planeador que es, el transbordador solo tenía una oportunidad de aterrizar. Una vez que se desplegaba el tren de aterrizaje, ya no se podía replegar.

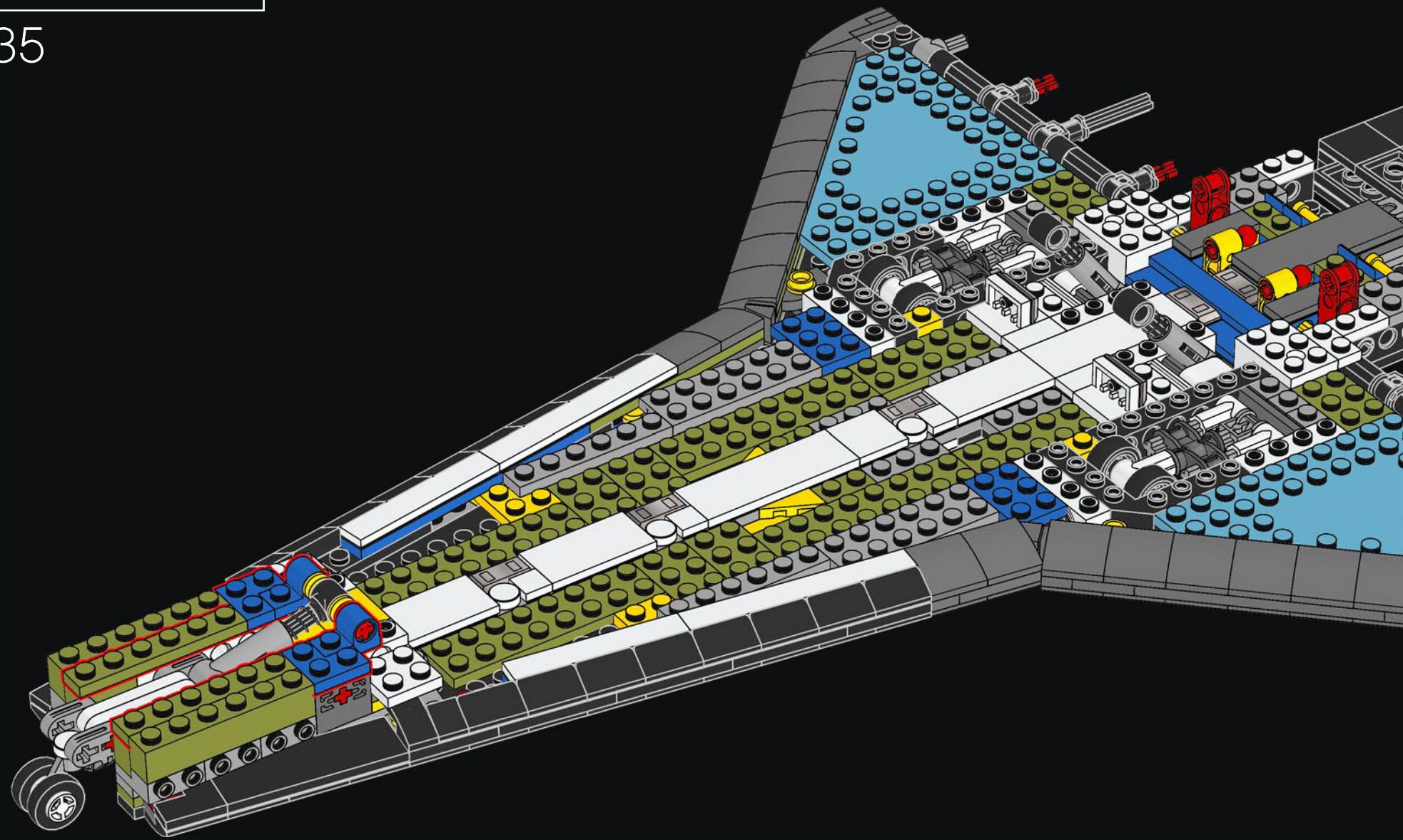


134



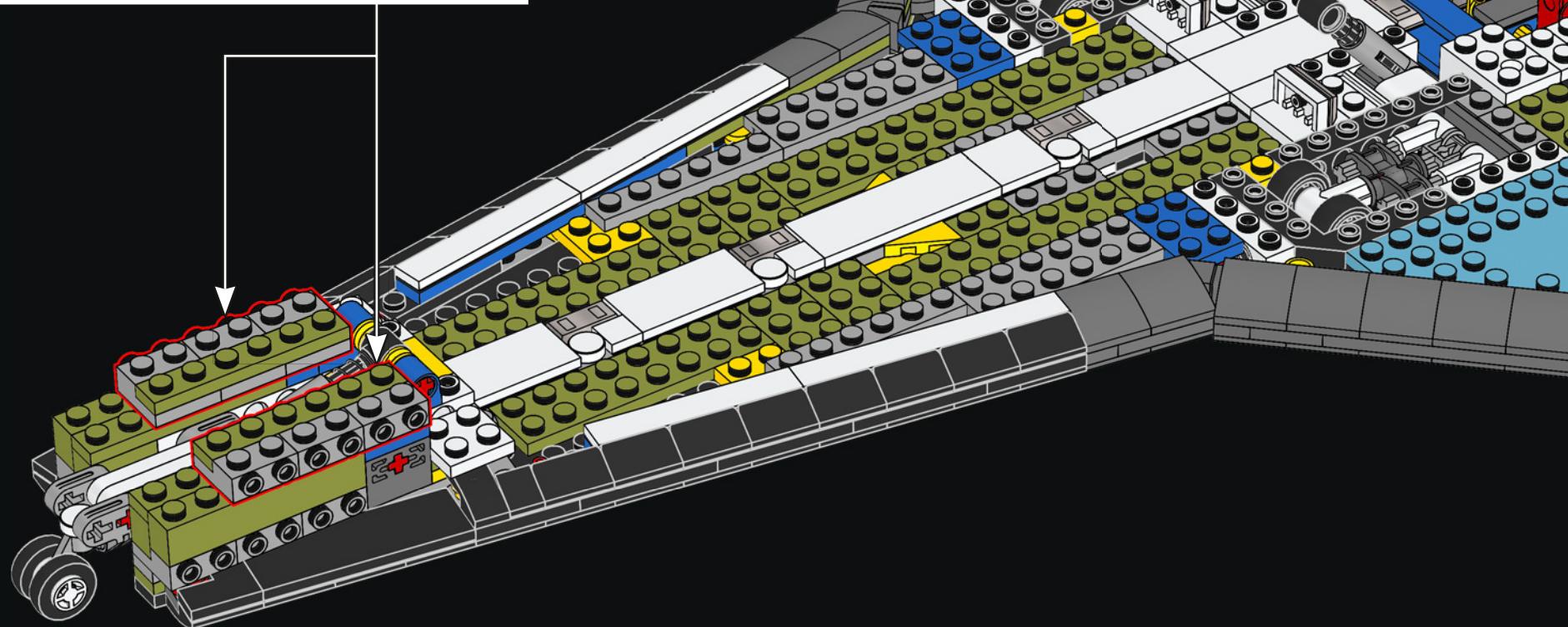
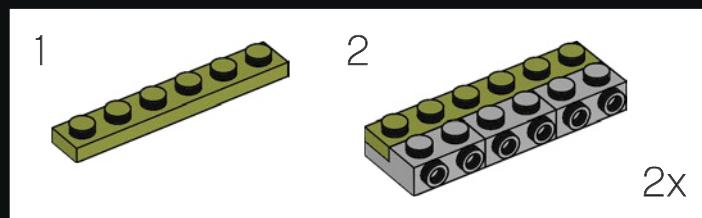


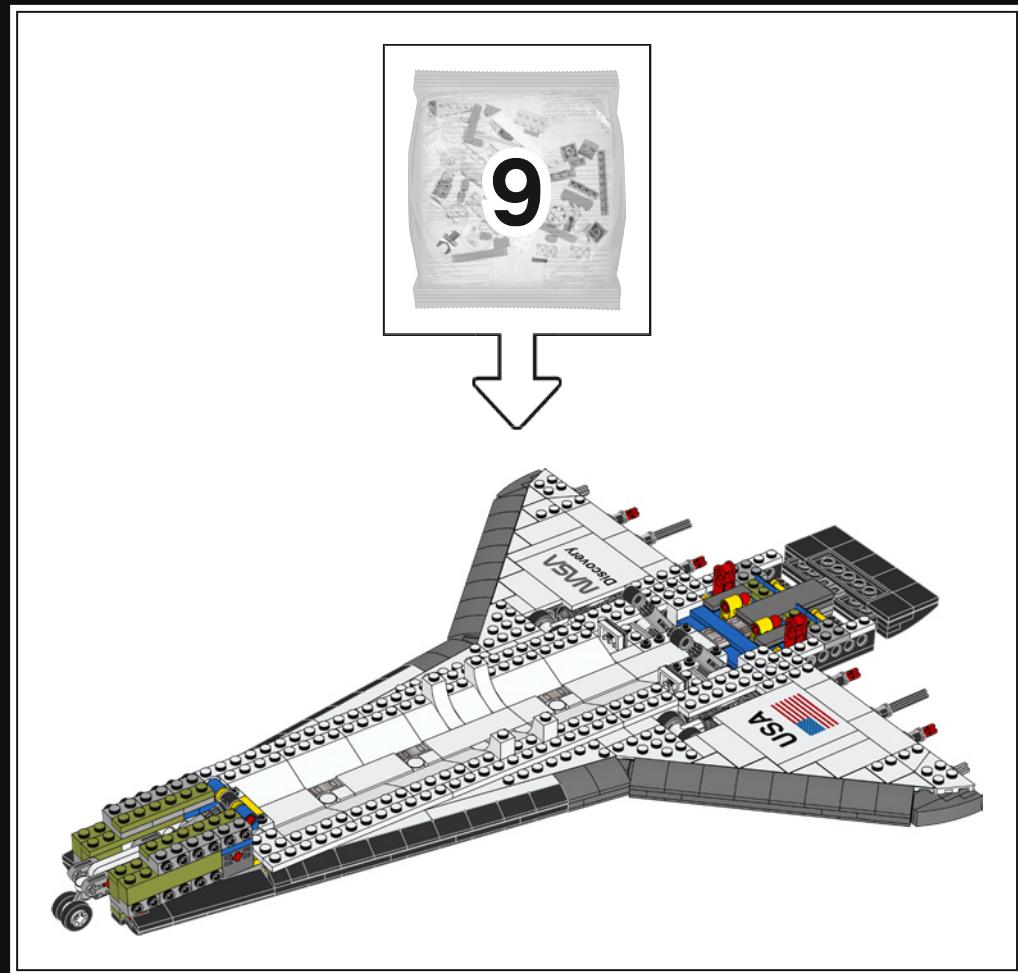
135





136



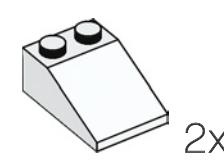




6x

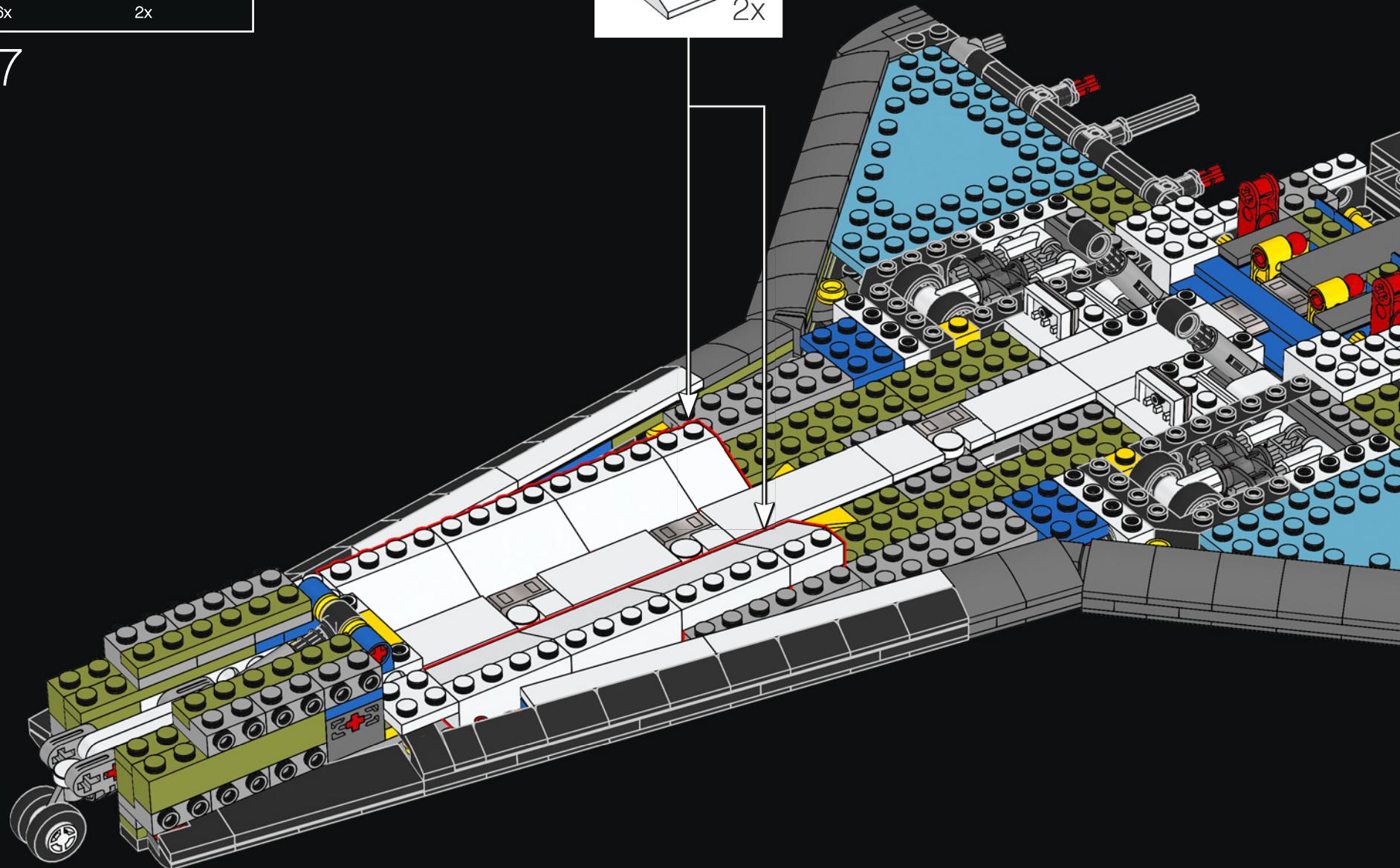


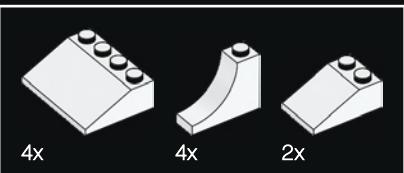
2x



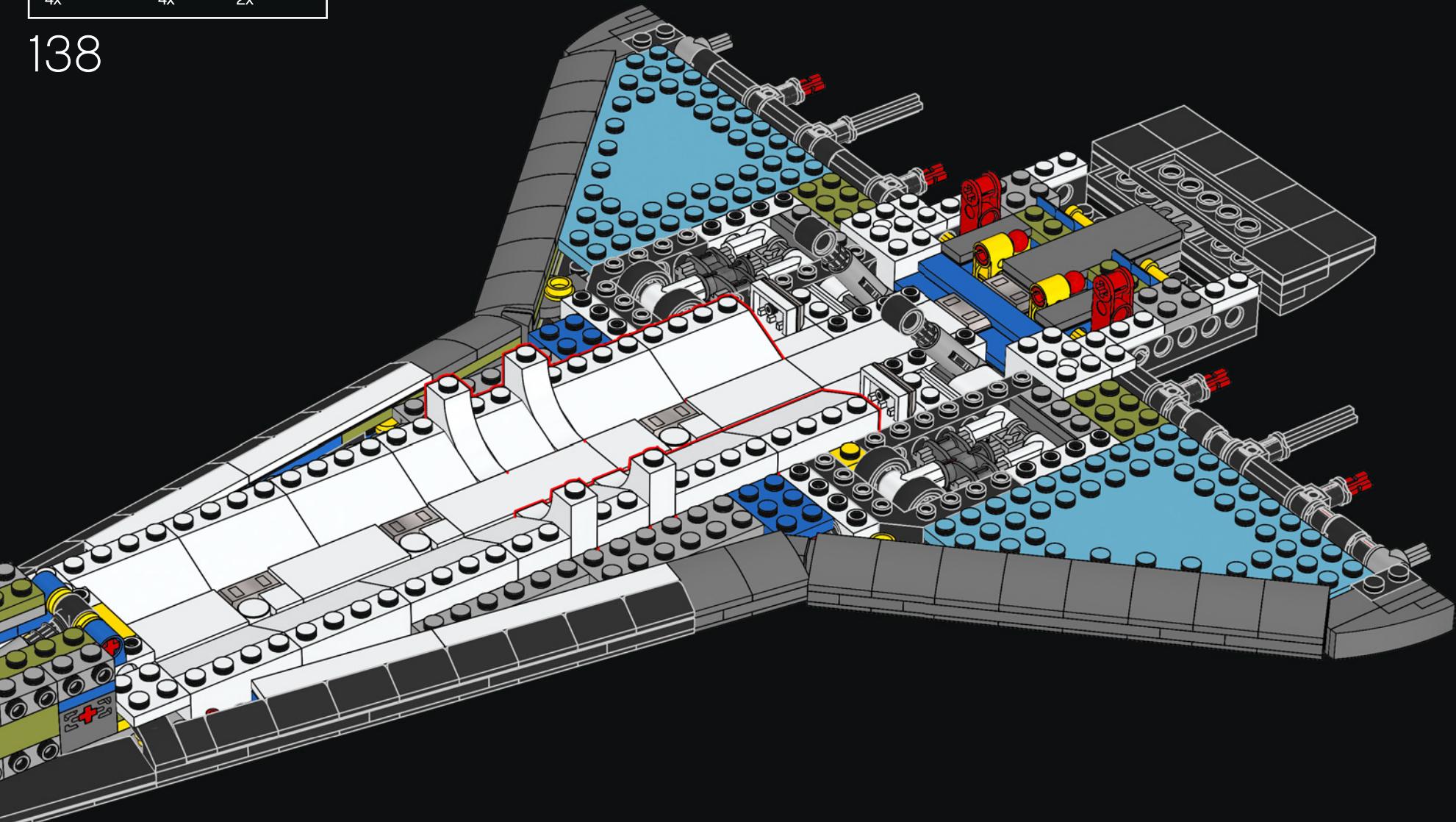
2x

137



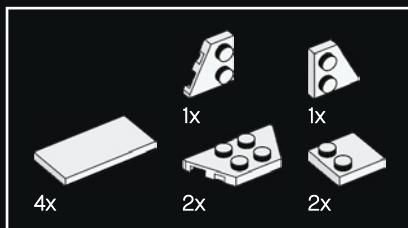


138

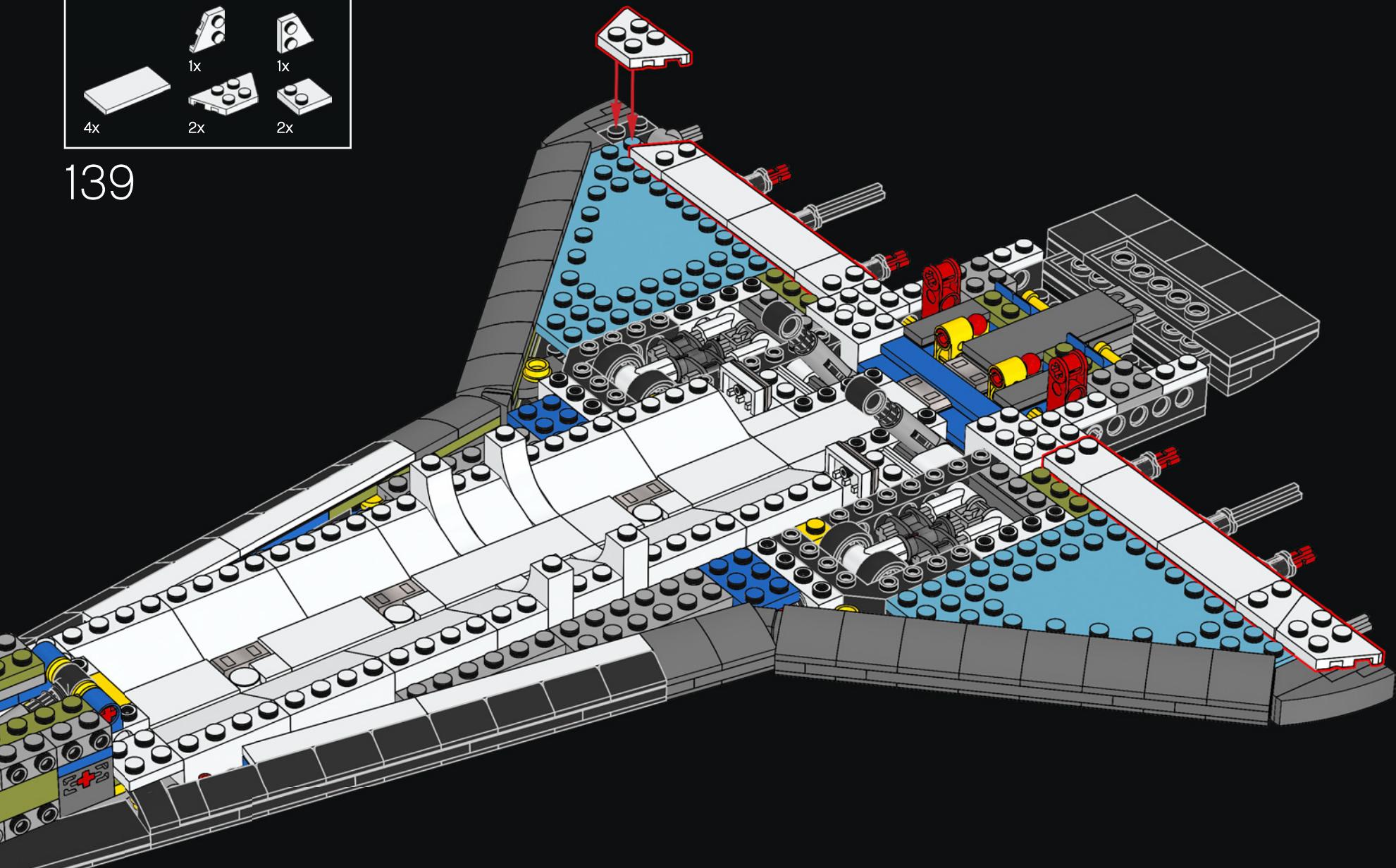


### ¿LO SABÍAS?

Cuando el orbitador entra en la atmósfera a Mach 25, su velocidad es tan alta que sobrecalienta el aire circundante y regresa a la Tierra en un resplandor de plasma.

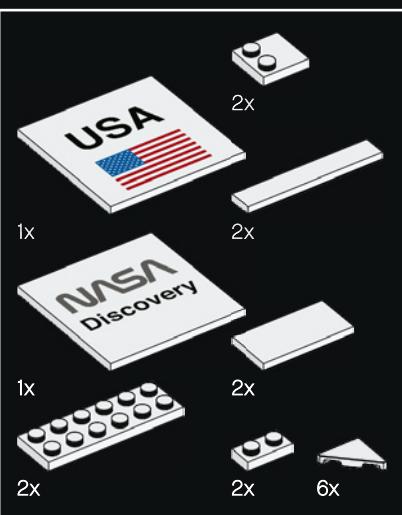


139

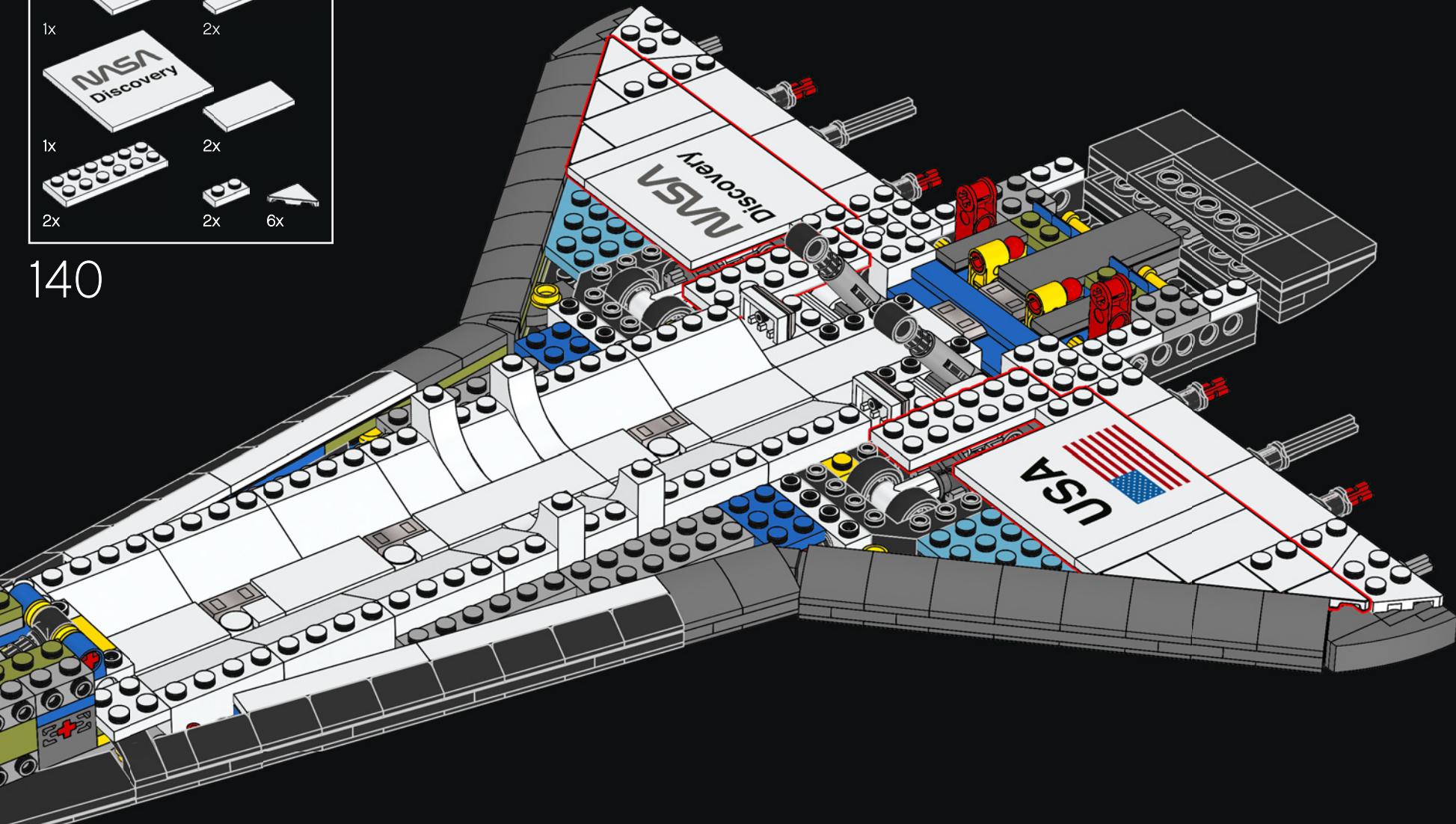


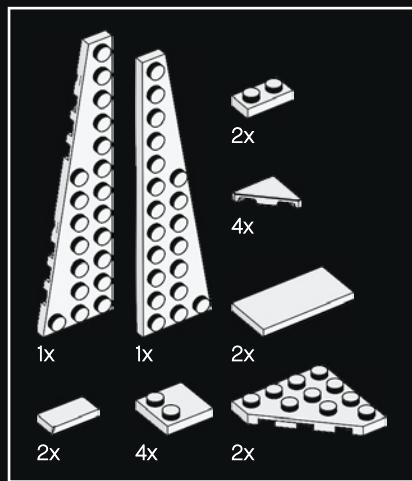
## ¿LO SABÍAS?

El transbordador espacial Discovery está recubierto de aproximadamente 23.000 losetas de cerámica aislante para proteger el vehículo del intenso calor producido por la fricción en la reentrada a la atmósfera terrestre.

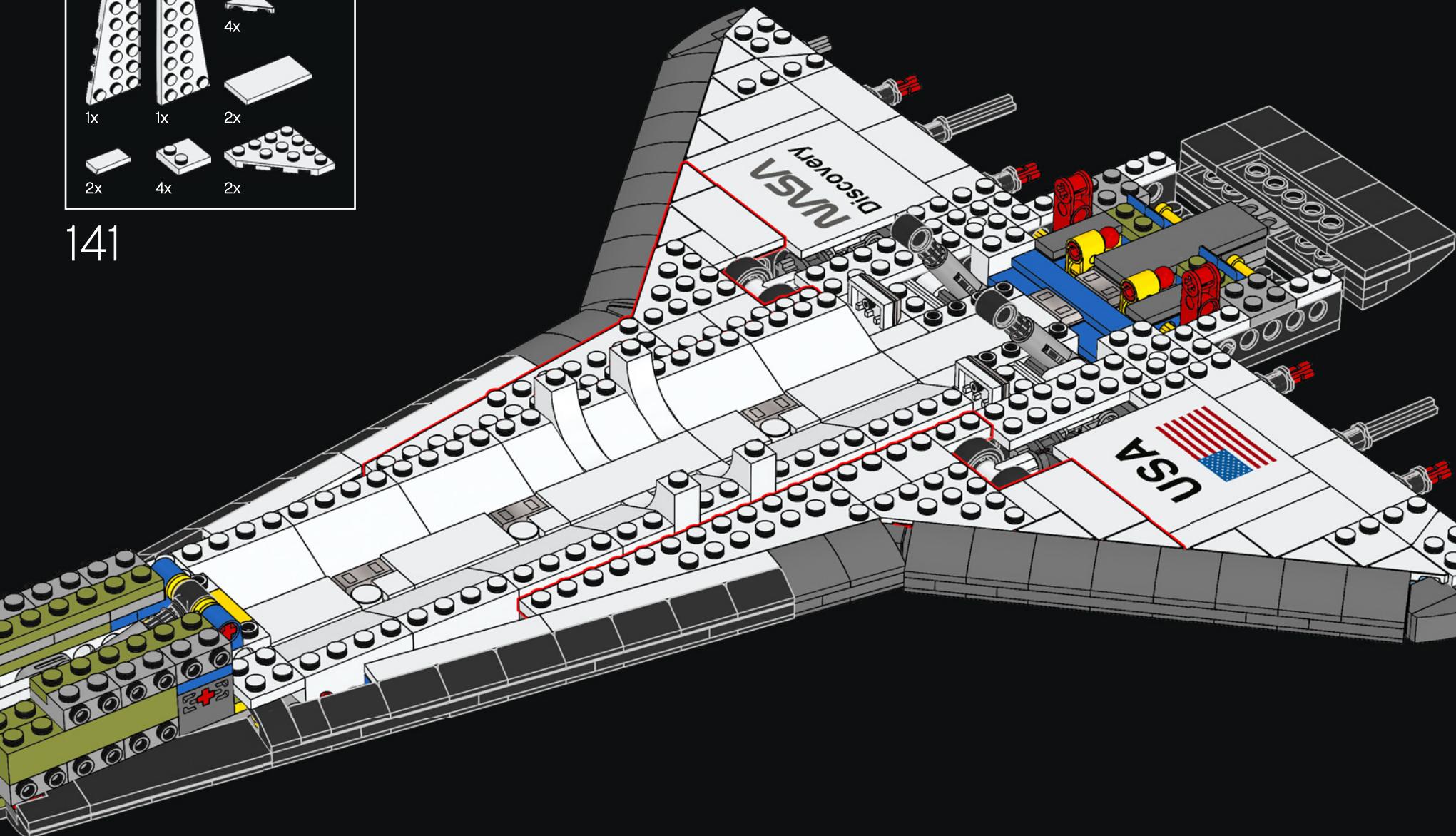


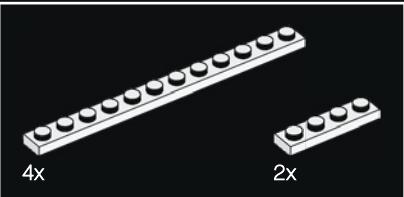
140



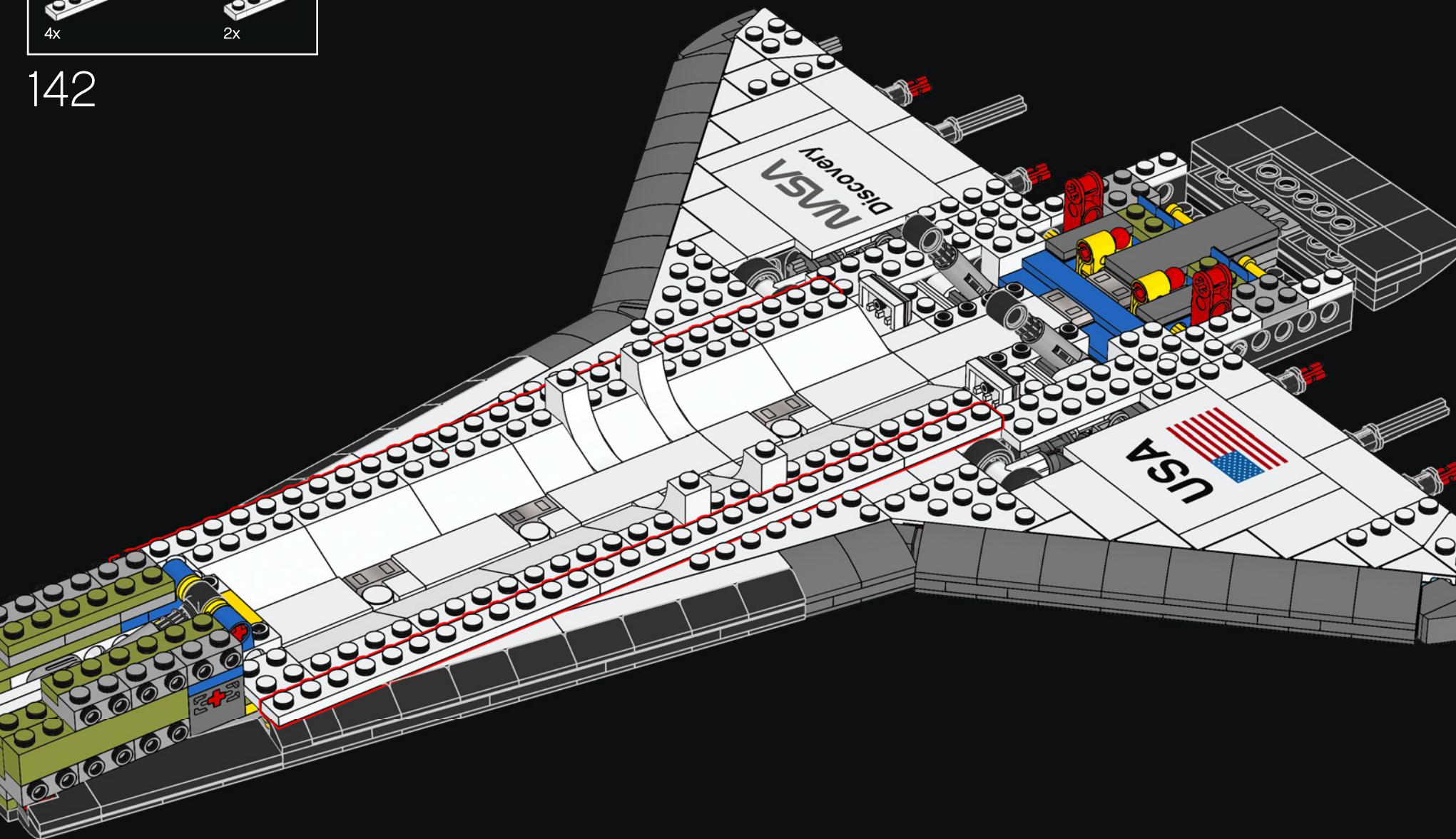


141



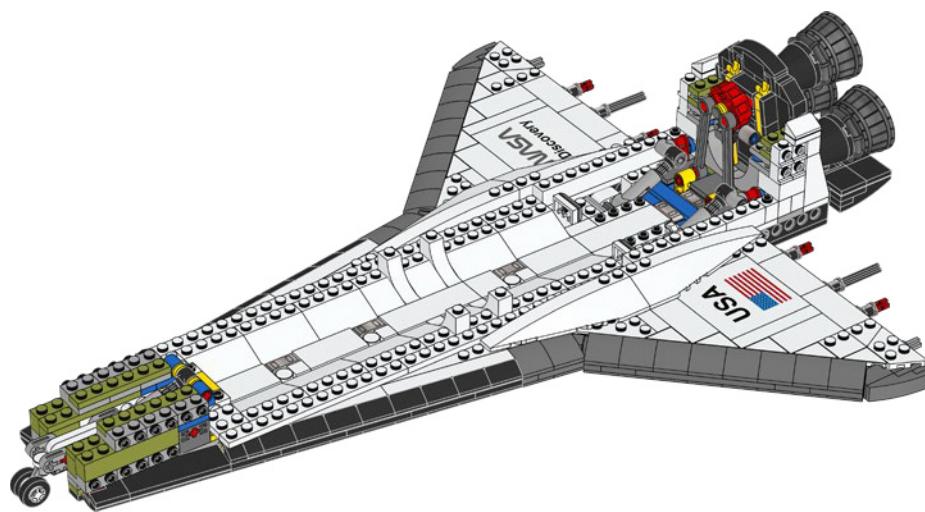
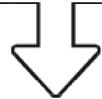


142





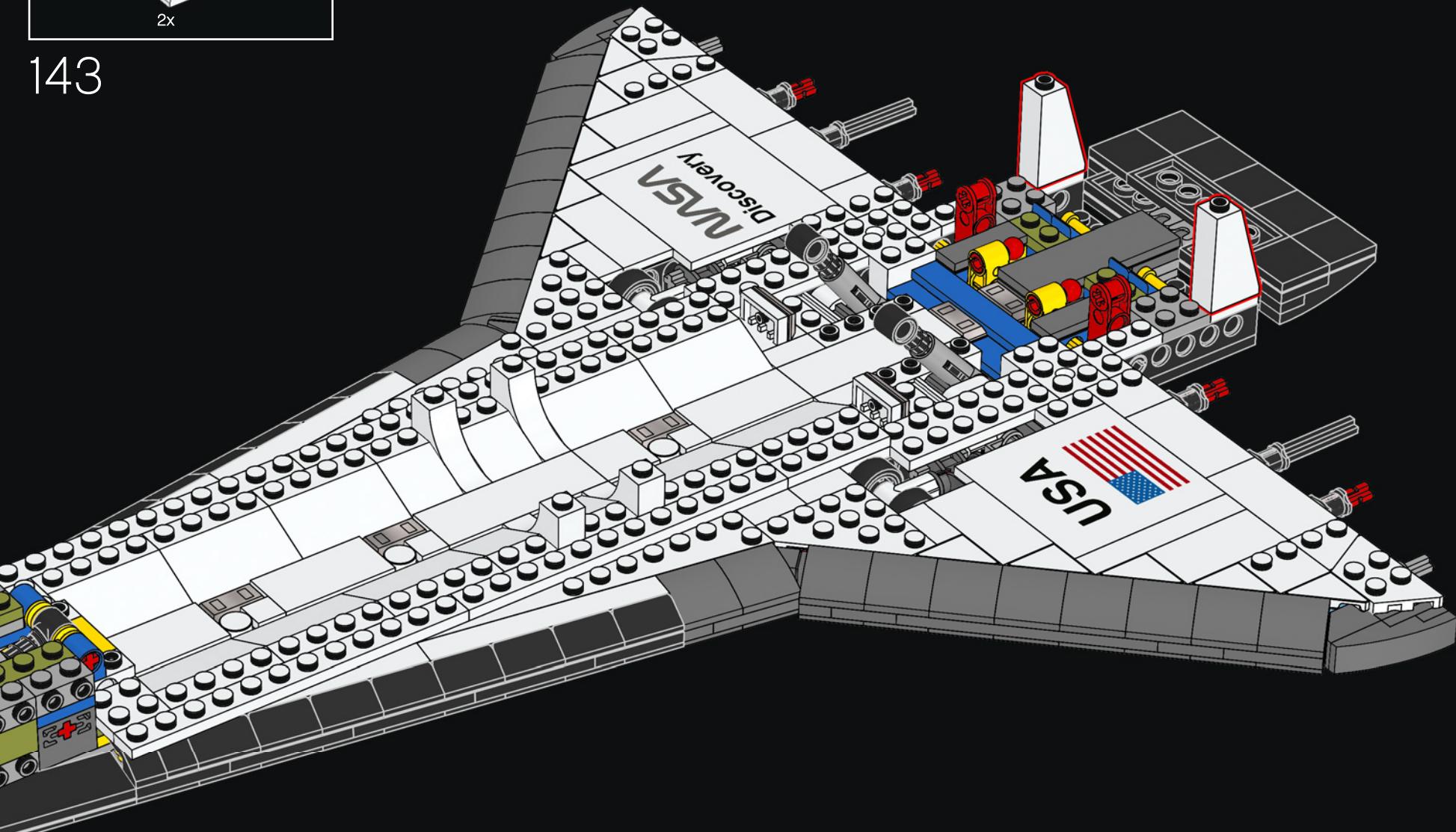
10





2x

143



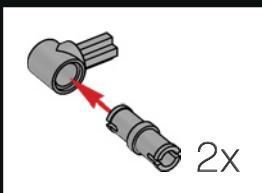


2x

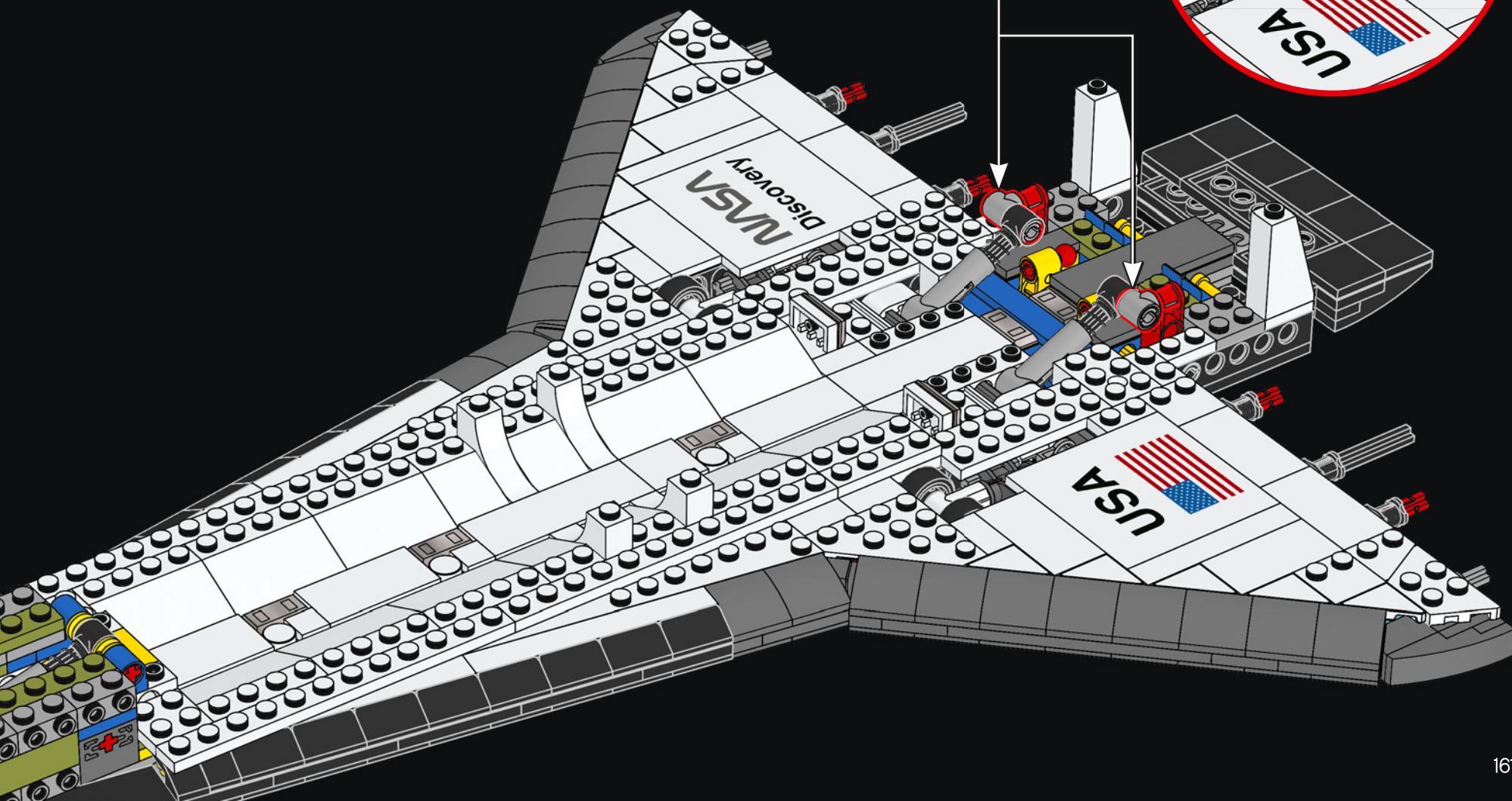
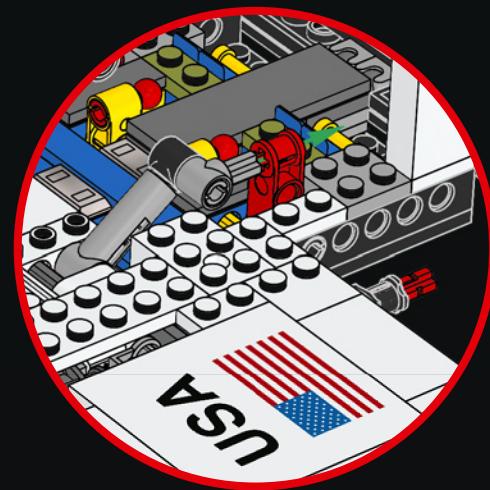


2x

144

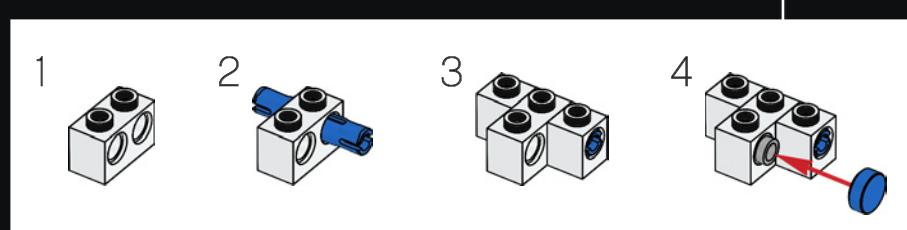
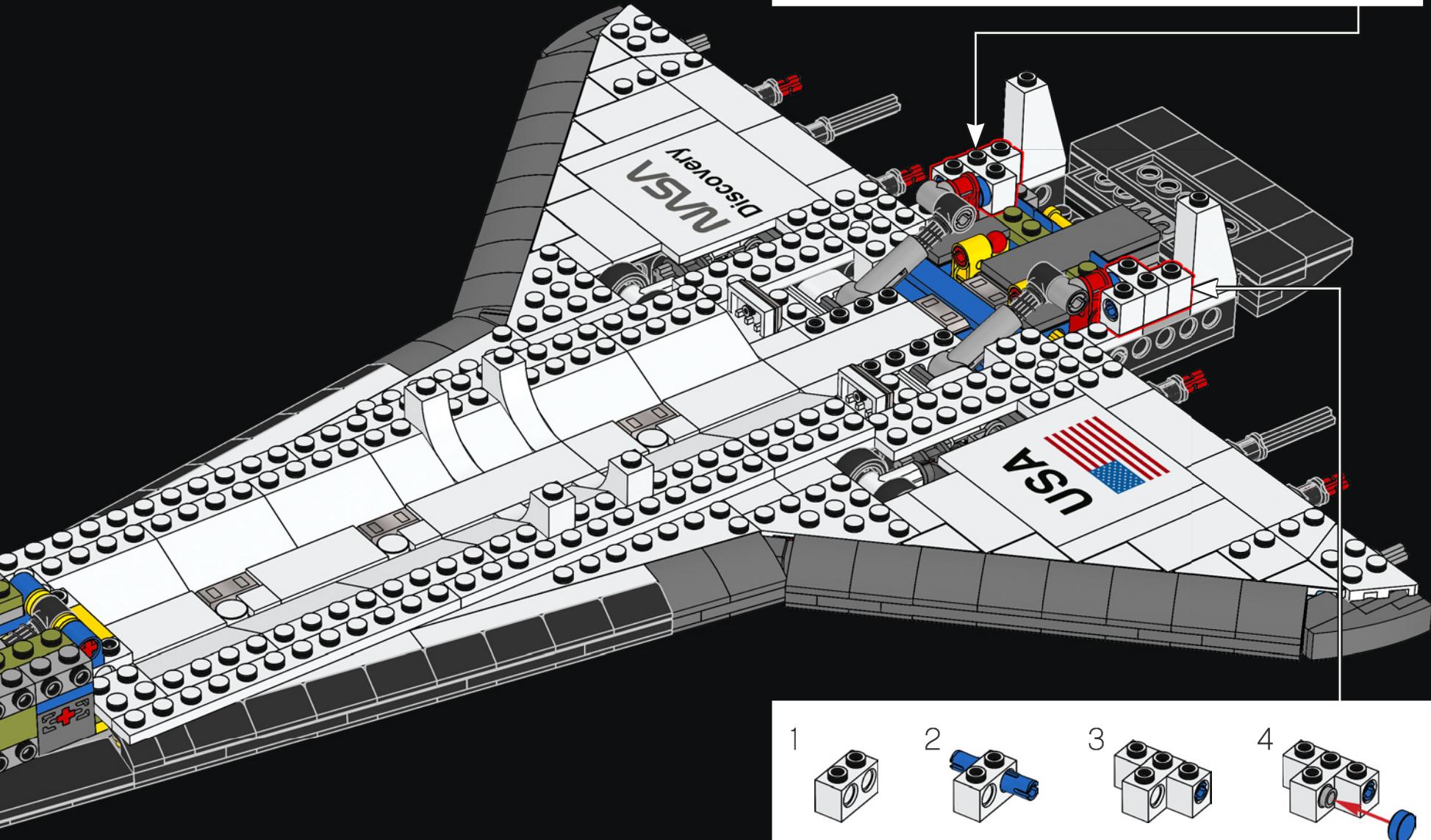
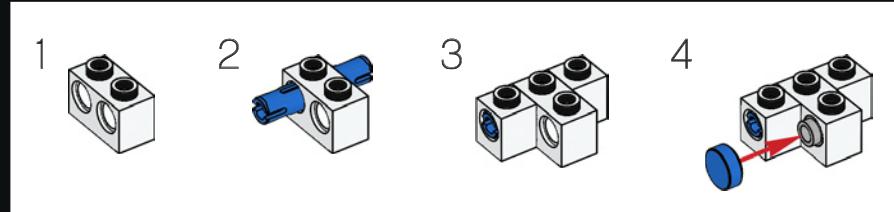


2x





145



162

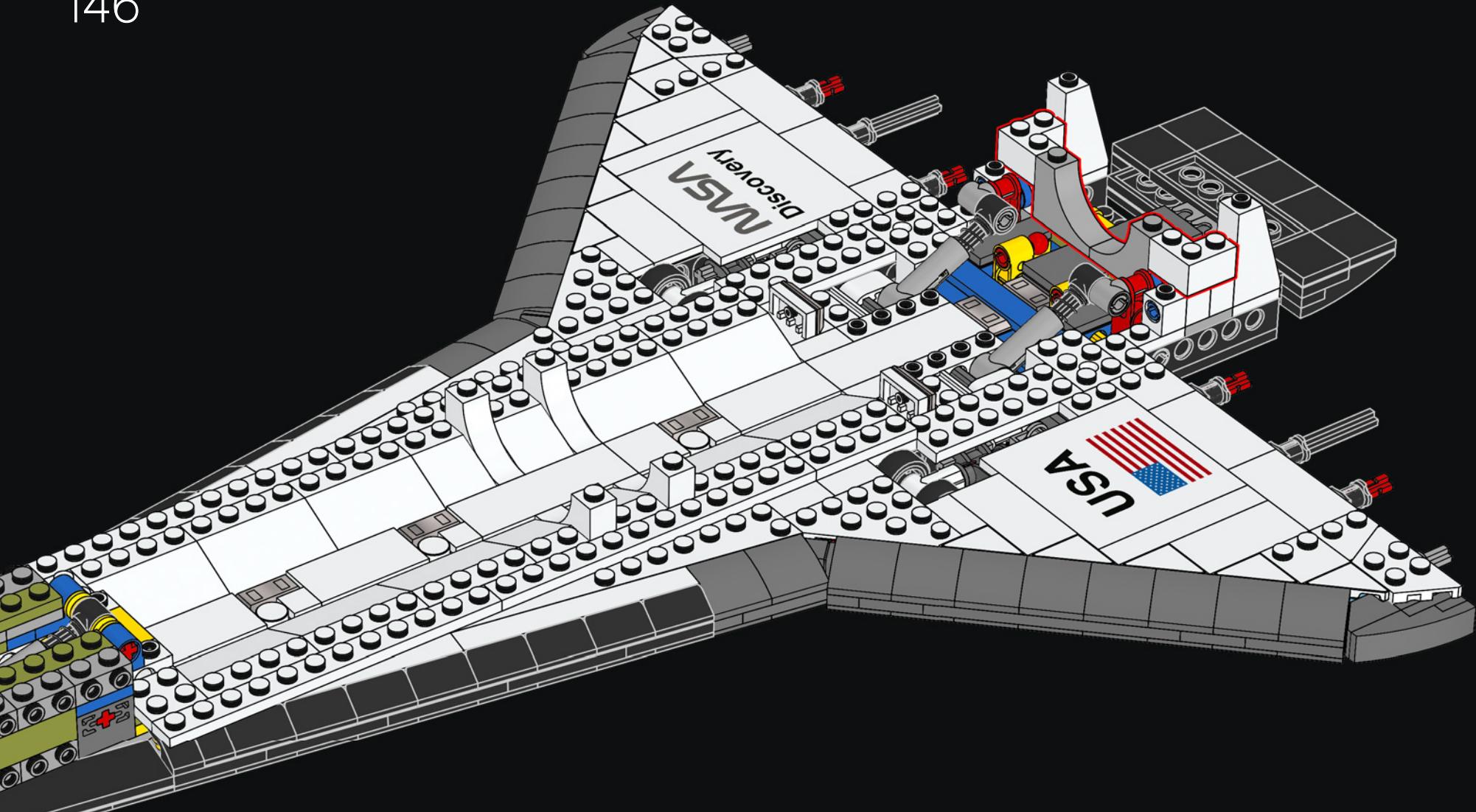


2x



2x

146





1x  
1x

147



2x

148



1x

149



1x

150

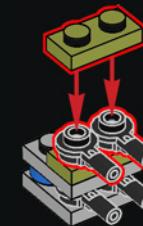


1x



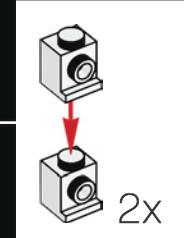
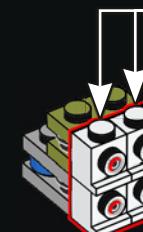
2x

151



4x

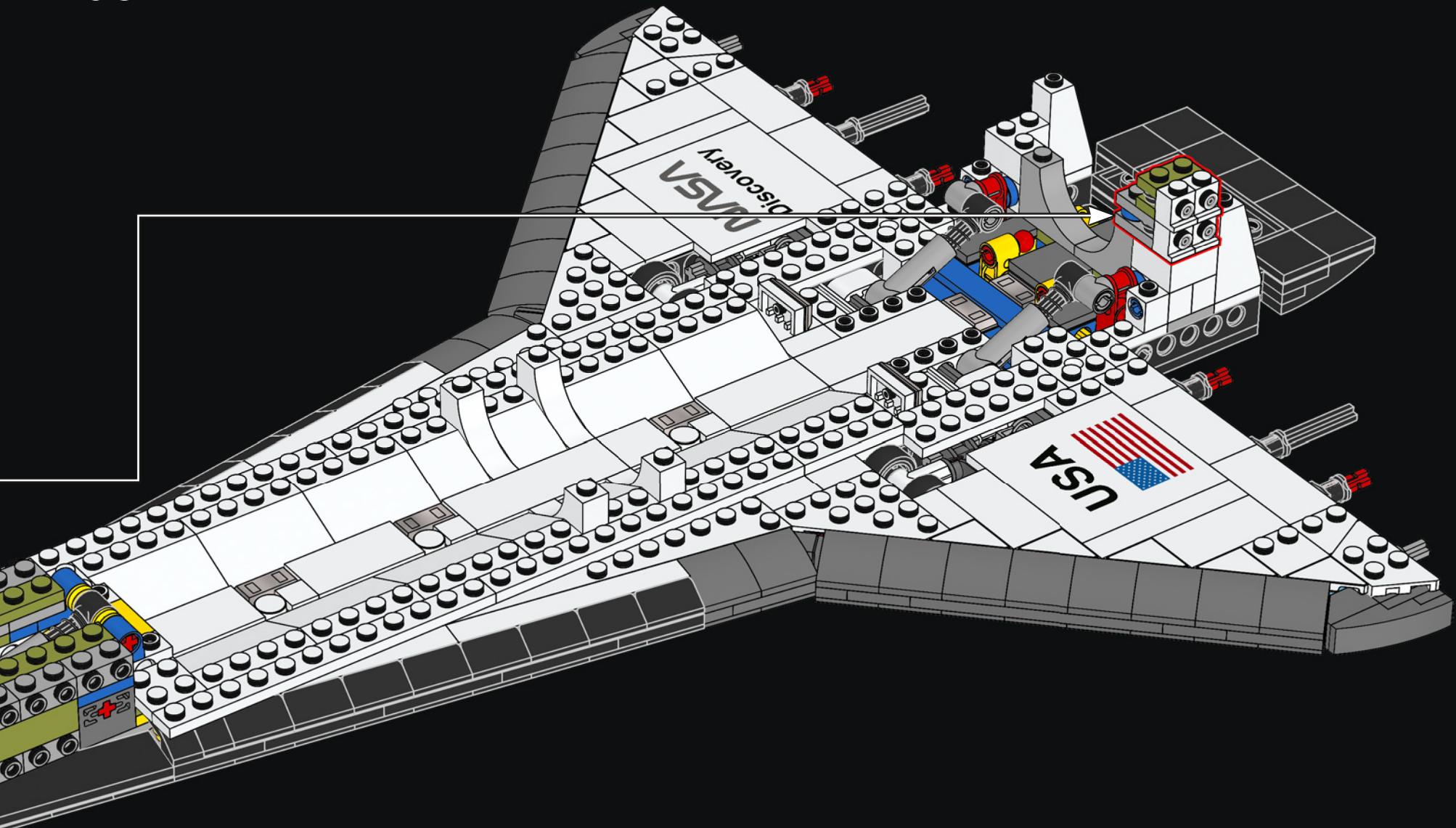
152



2x

164

153





154



2x

155

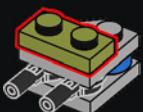


156

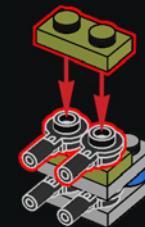


1x

157

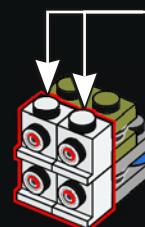


158



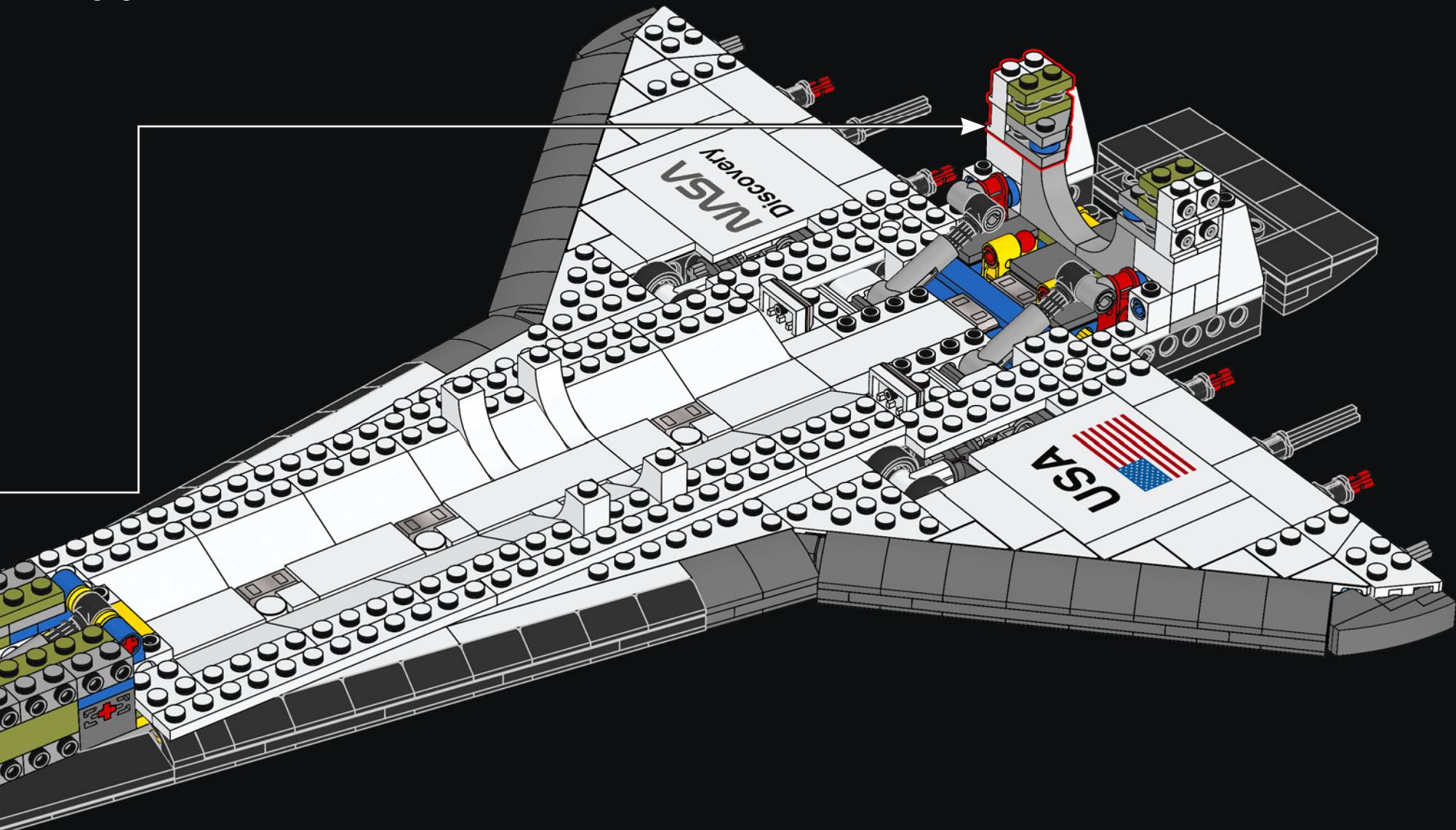
4x

159



2x

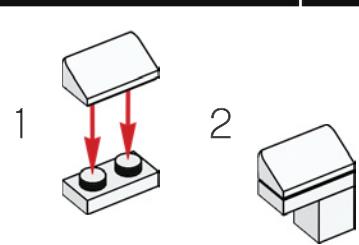
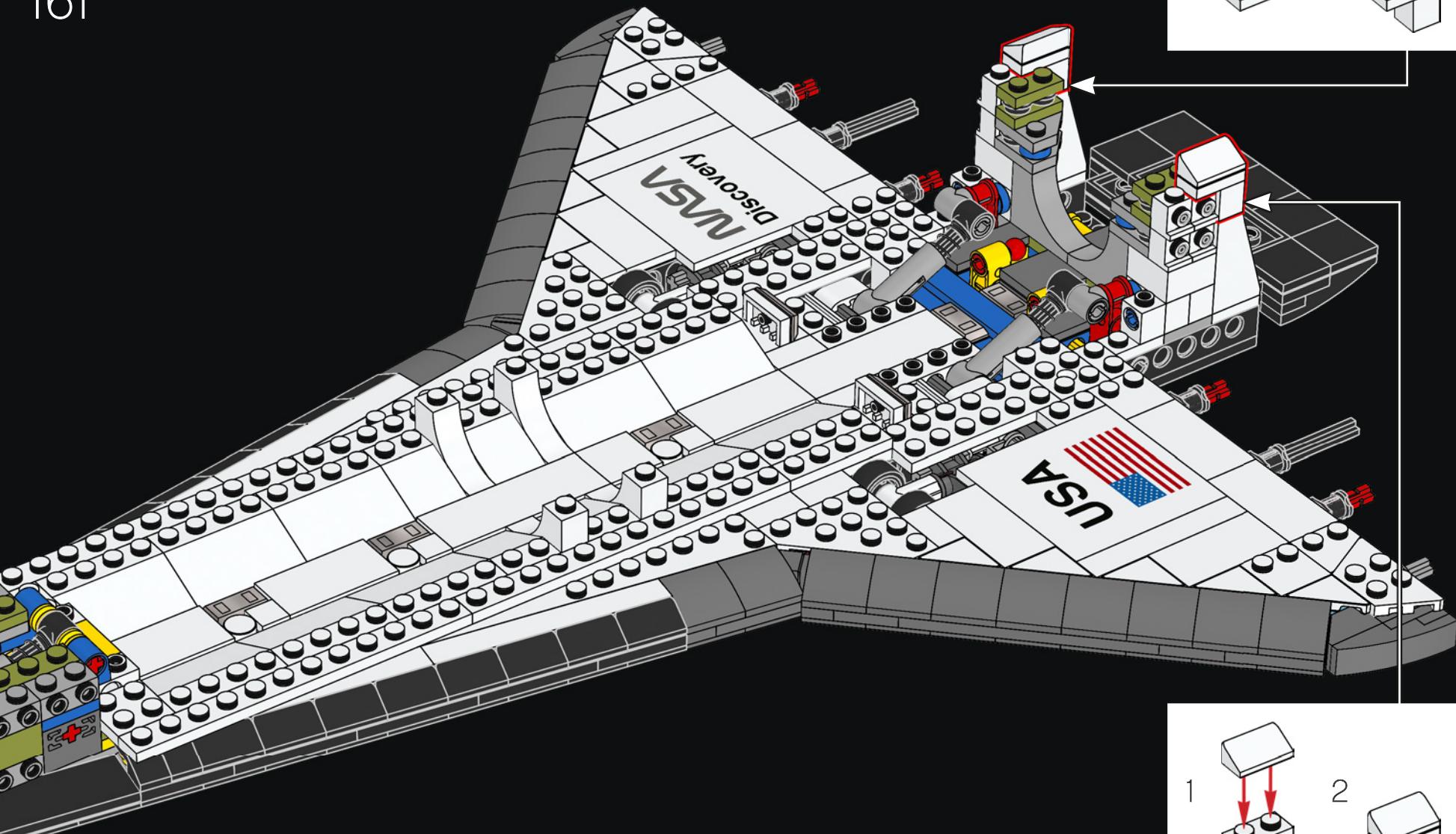
160



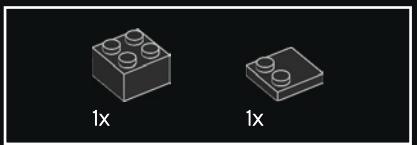
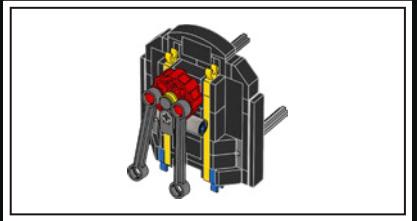
167



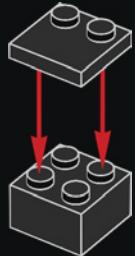
161



168



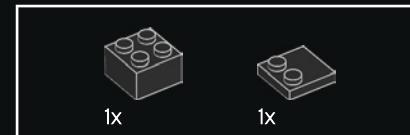
162



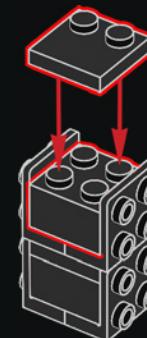
163



164



165

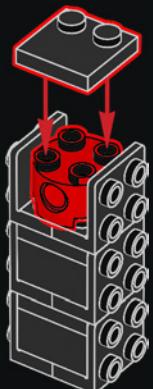




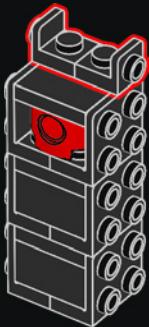
166



167



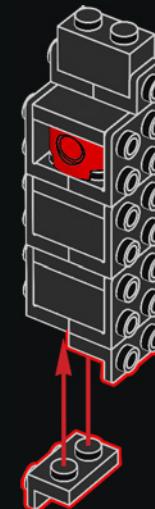
168



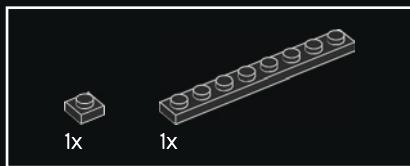
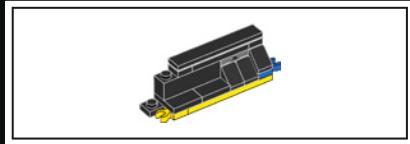
169



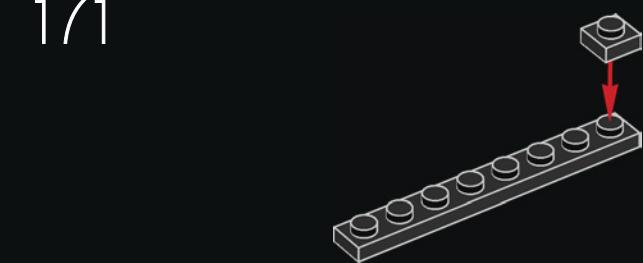
170



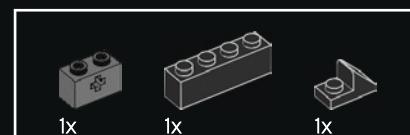
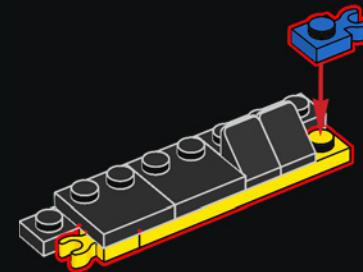
170



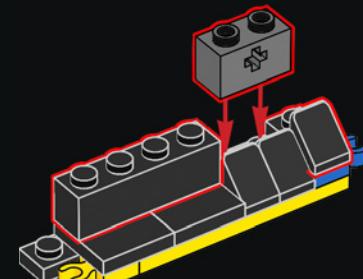
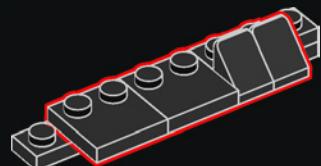
171



173

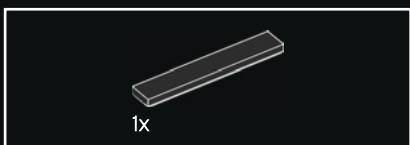
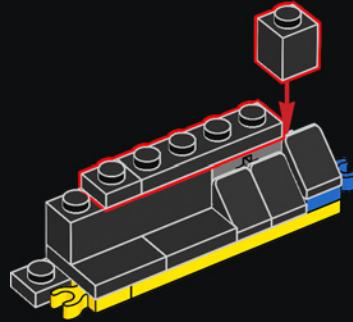


174

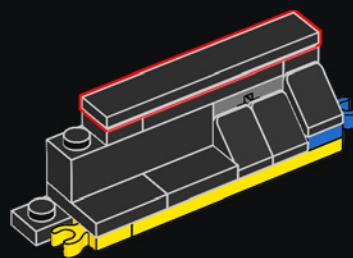




175

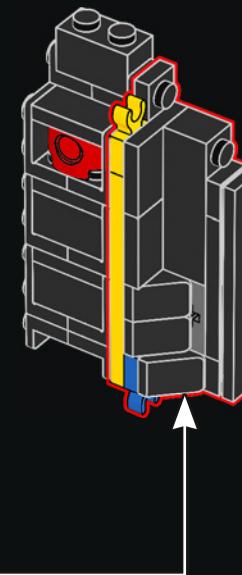


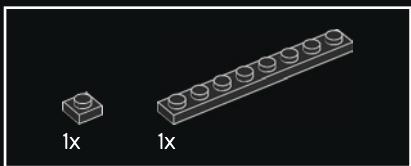
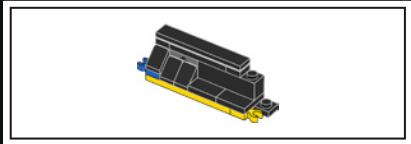
176



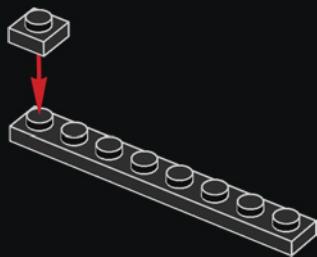
172

177

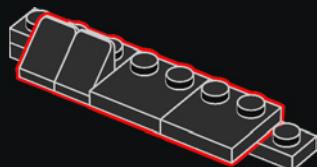




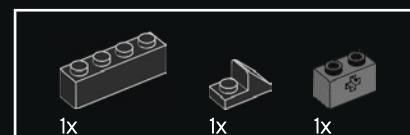
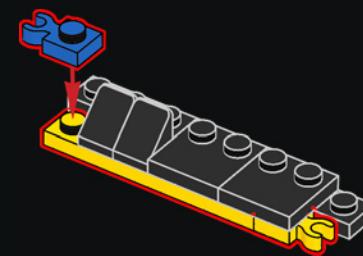
178



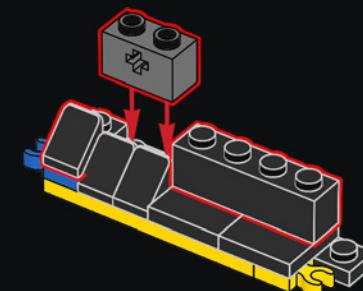
179



180

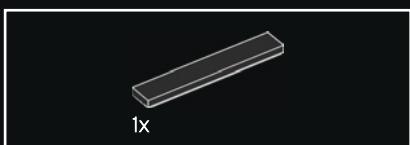
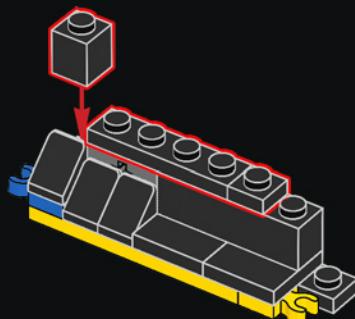


181

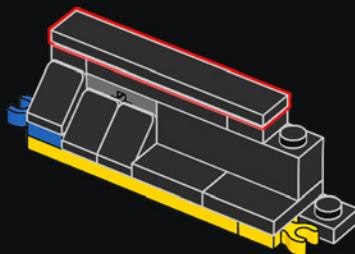




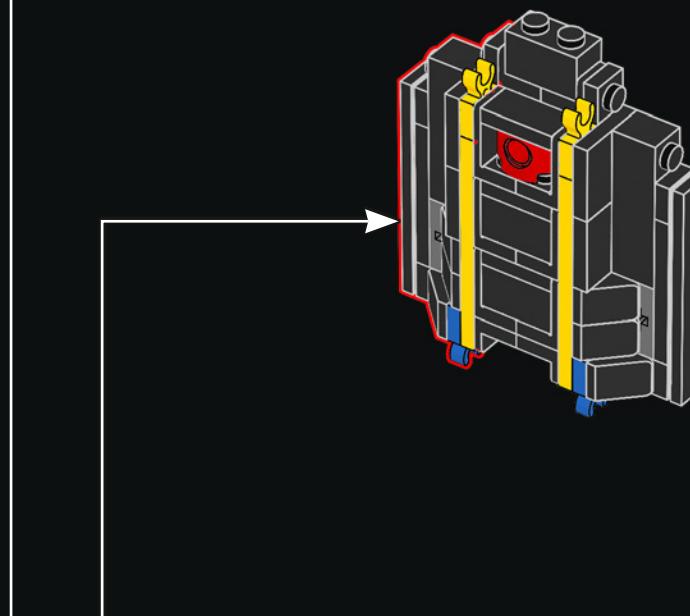
182



183

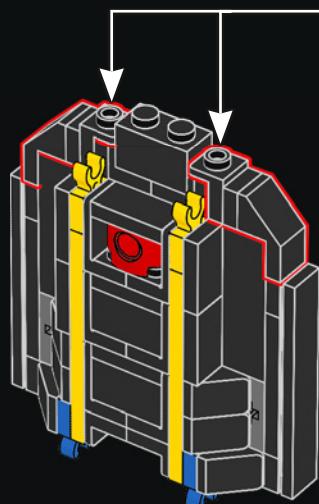
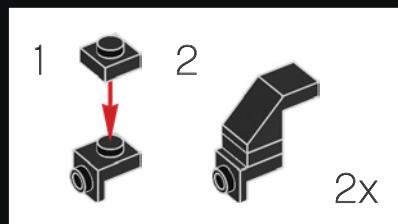


184

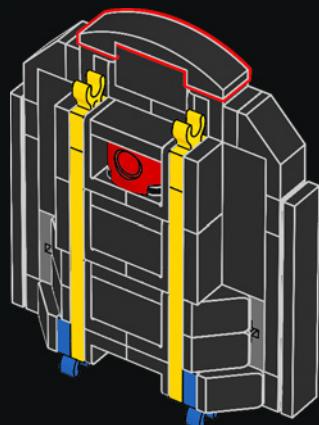




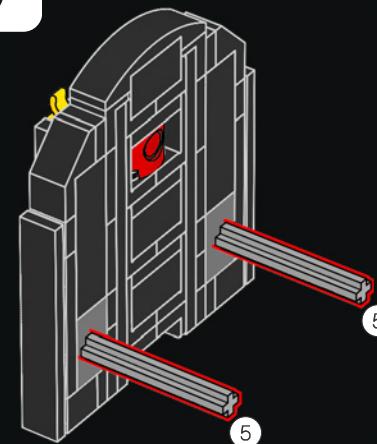
185

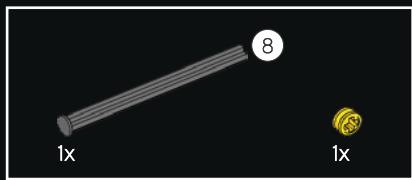
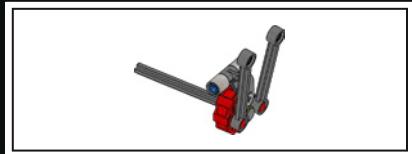


186

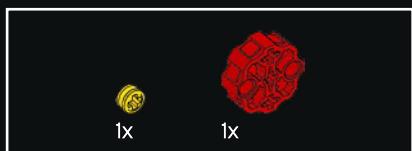


187

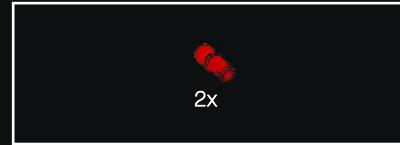
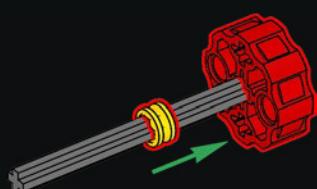




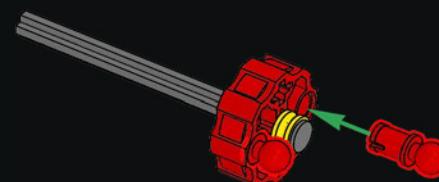
188



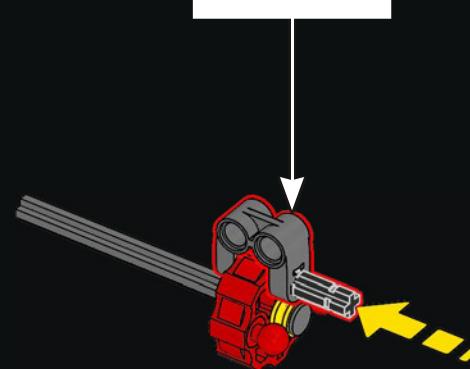
189



190



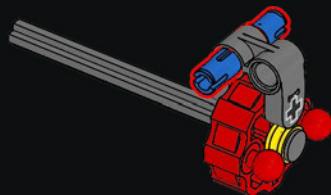
191





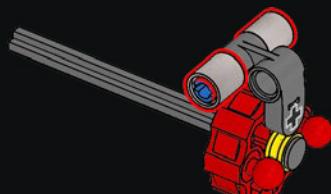
1x

192



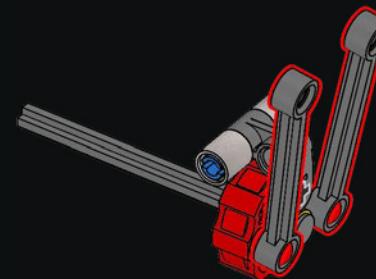
2x

193

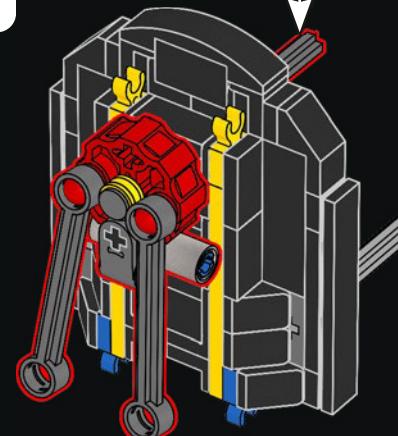


2x

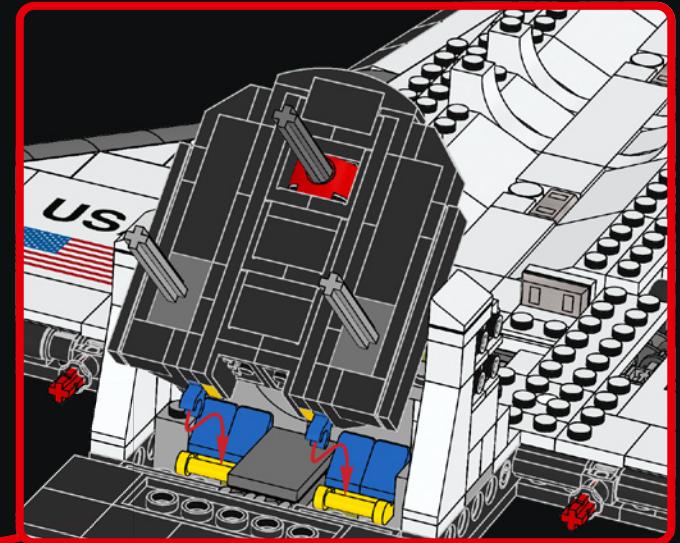
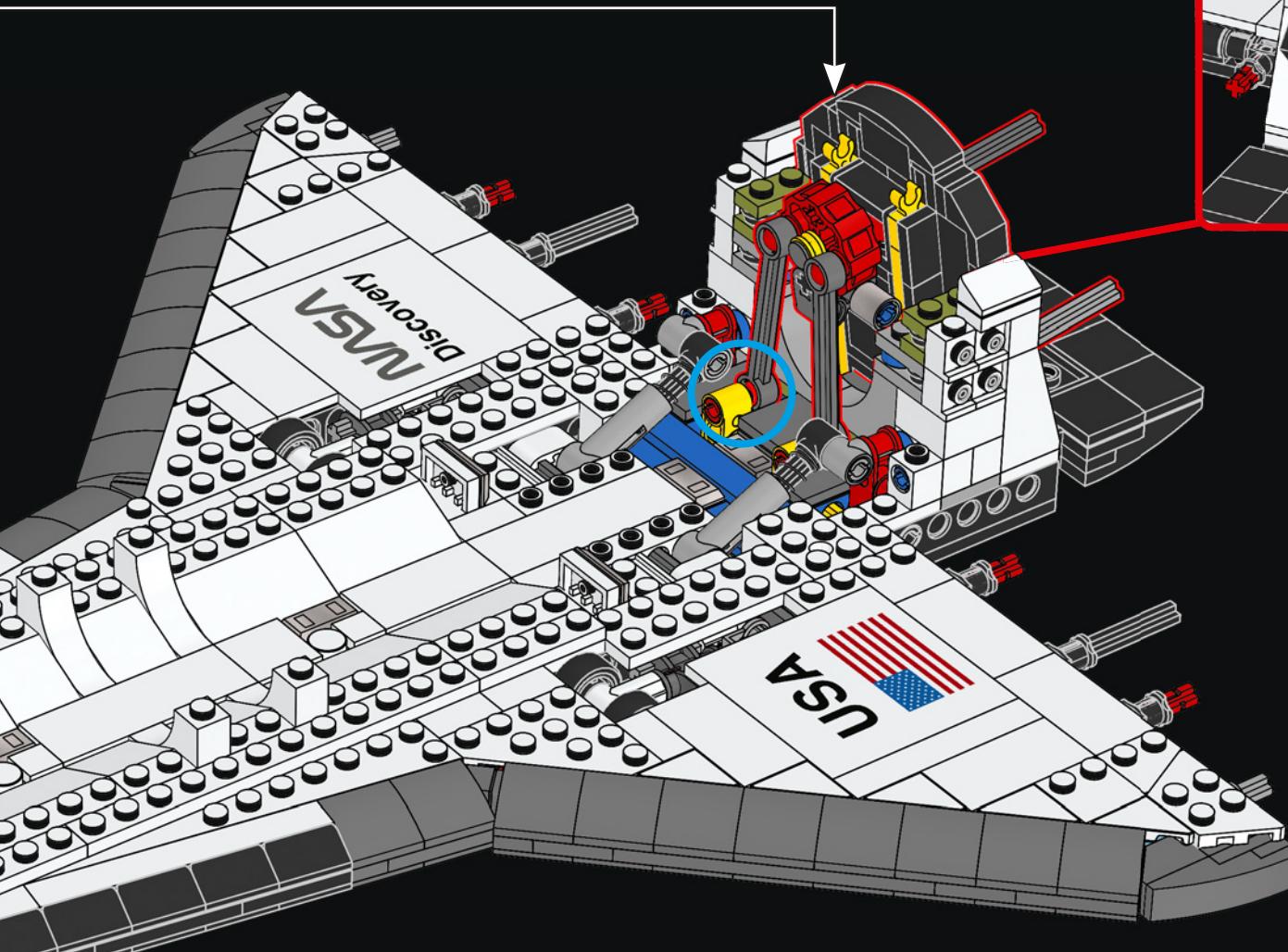
194



195

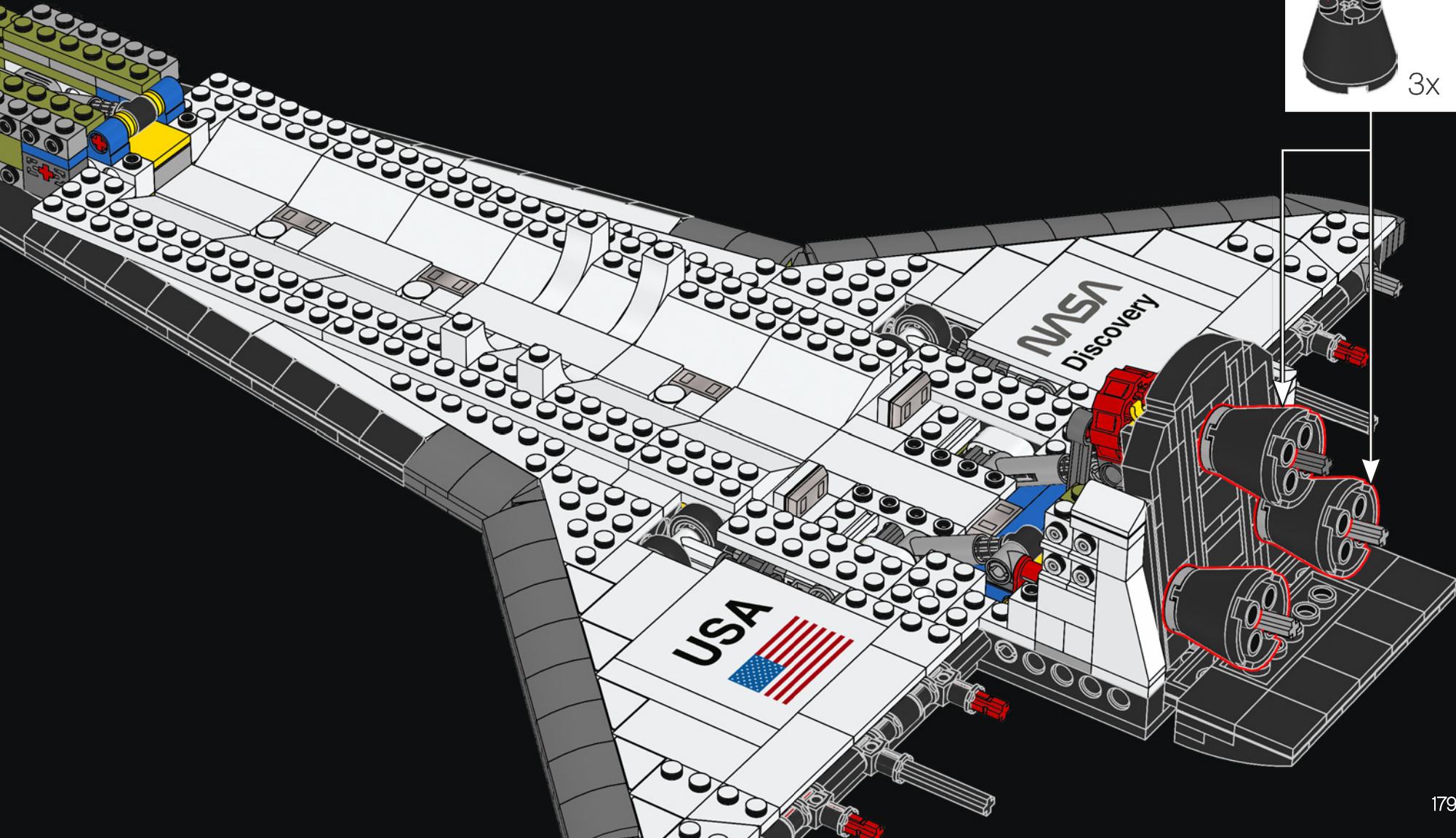
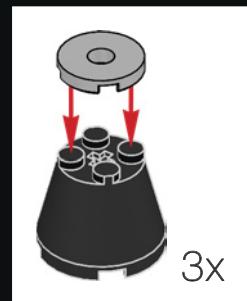


196





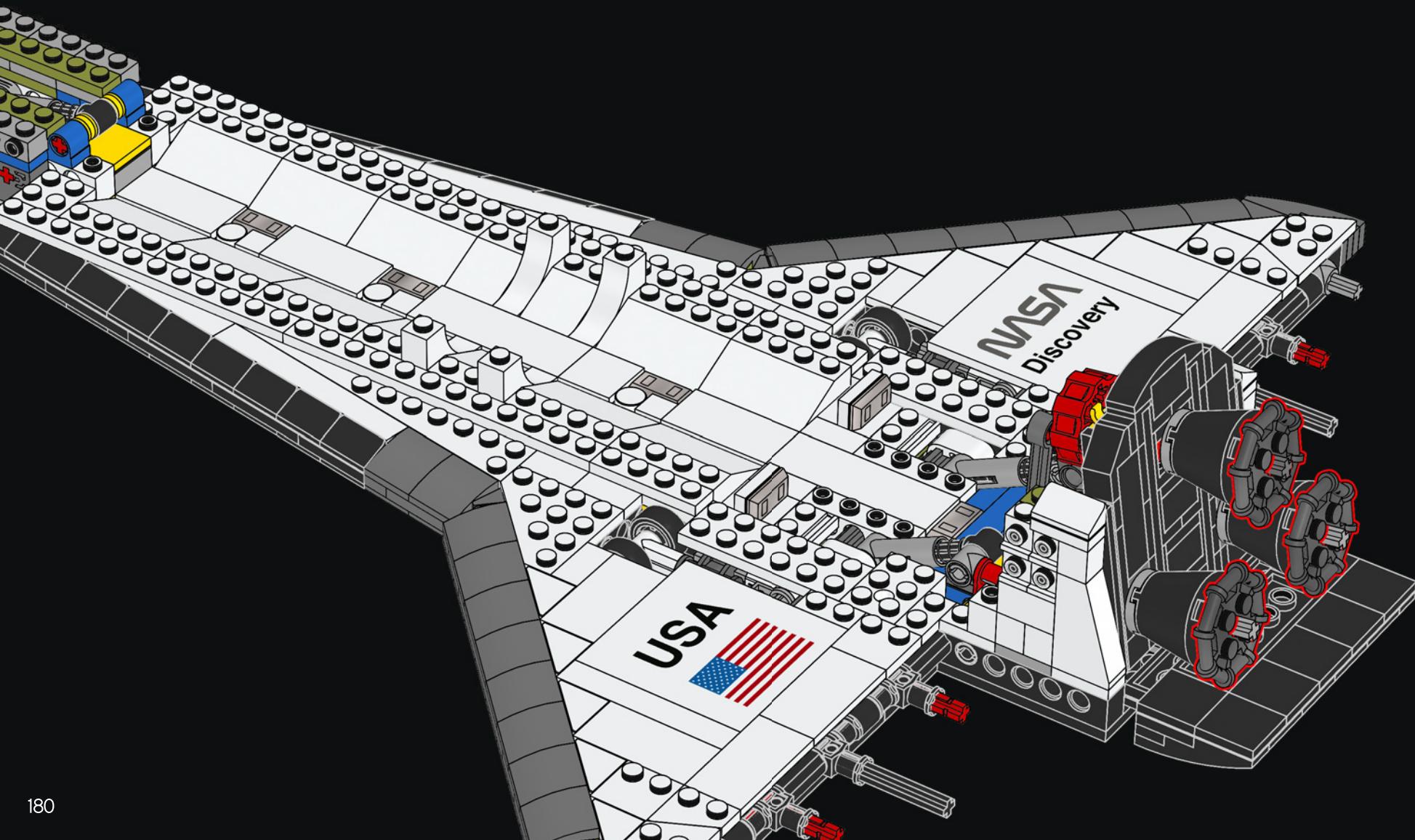
197





3x

198



180

## ¿LO SABÍAS?

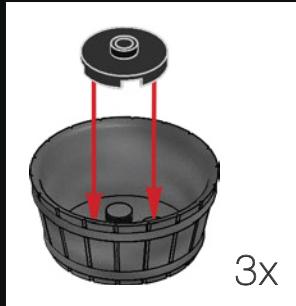
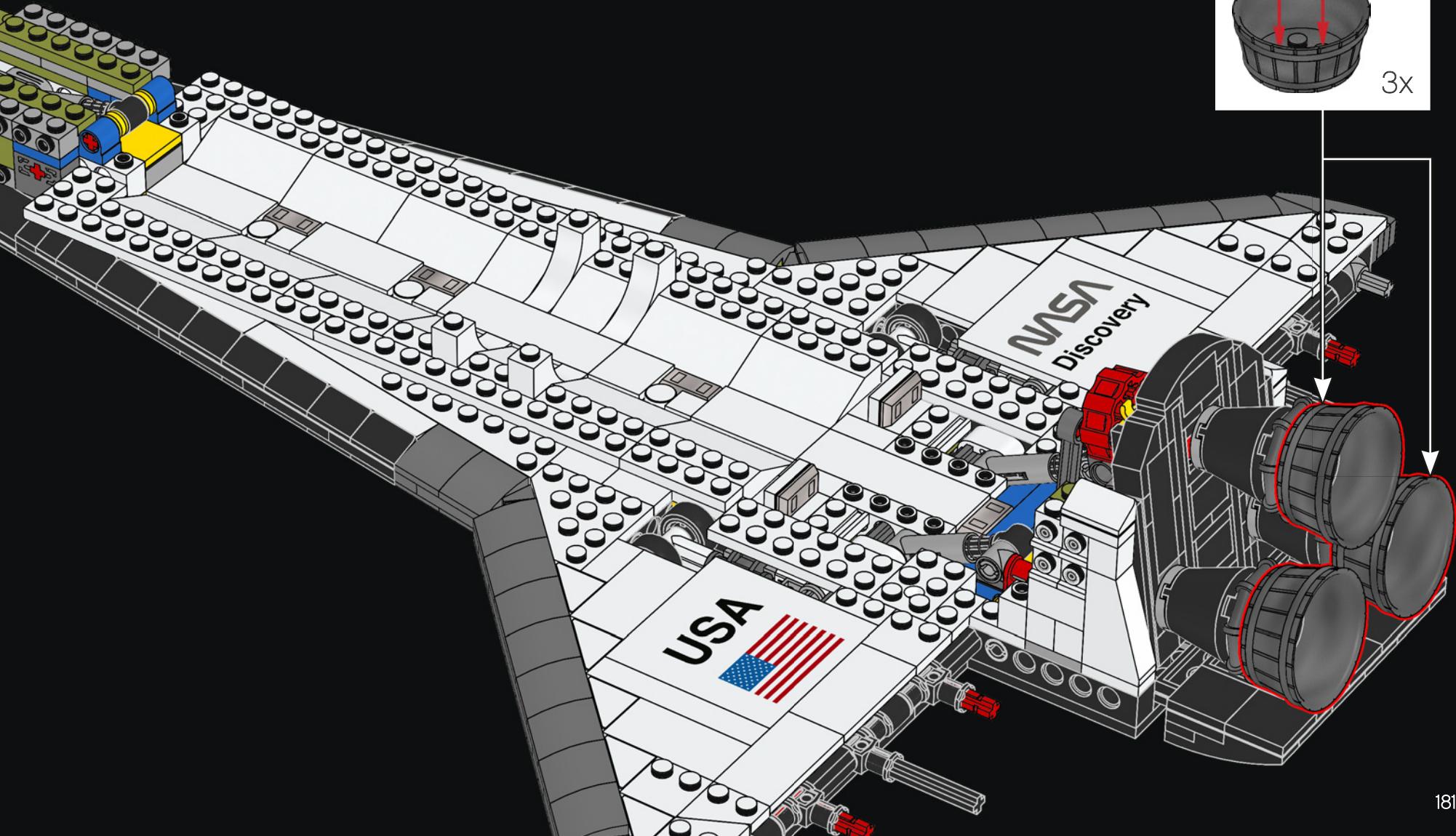
Al bombear combustible de hidrógeno líquido superfrío a través de 1080 tubos en la pared de la tobera antes de entrar en la cámara de combustión principal, el motor se mantiene a 10 °C.

3x

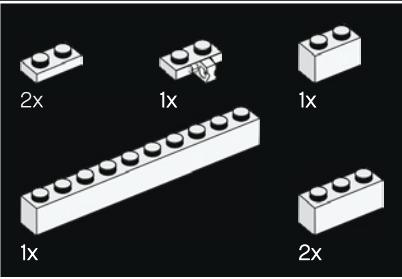


3x

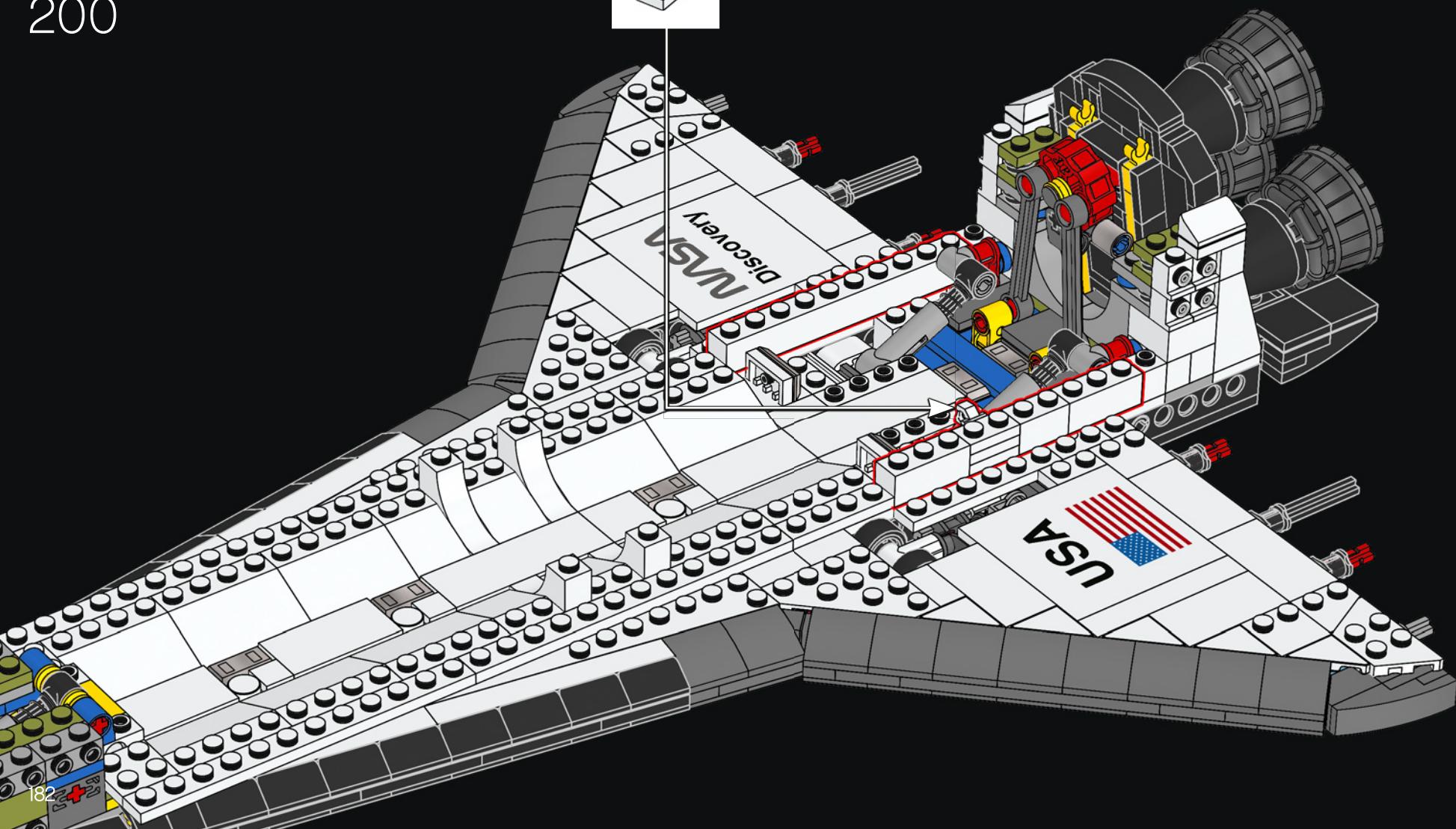
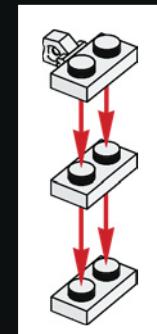
199

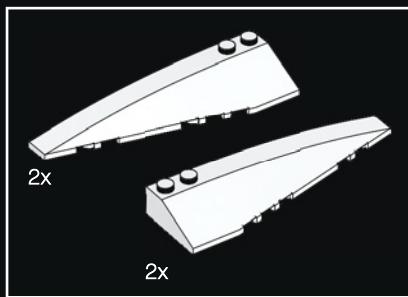


3x

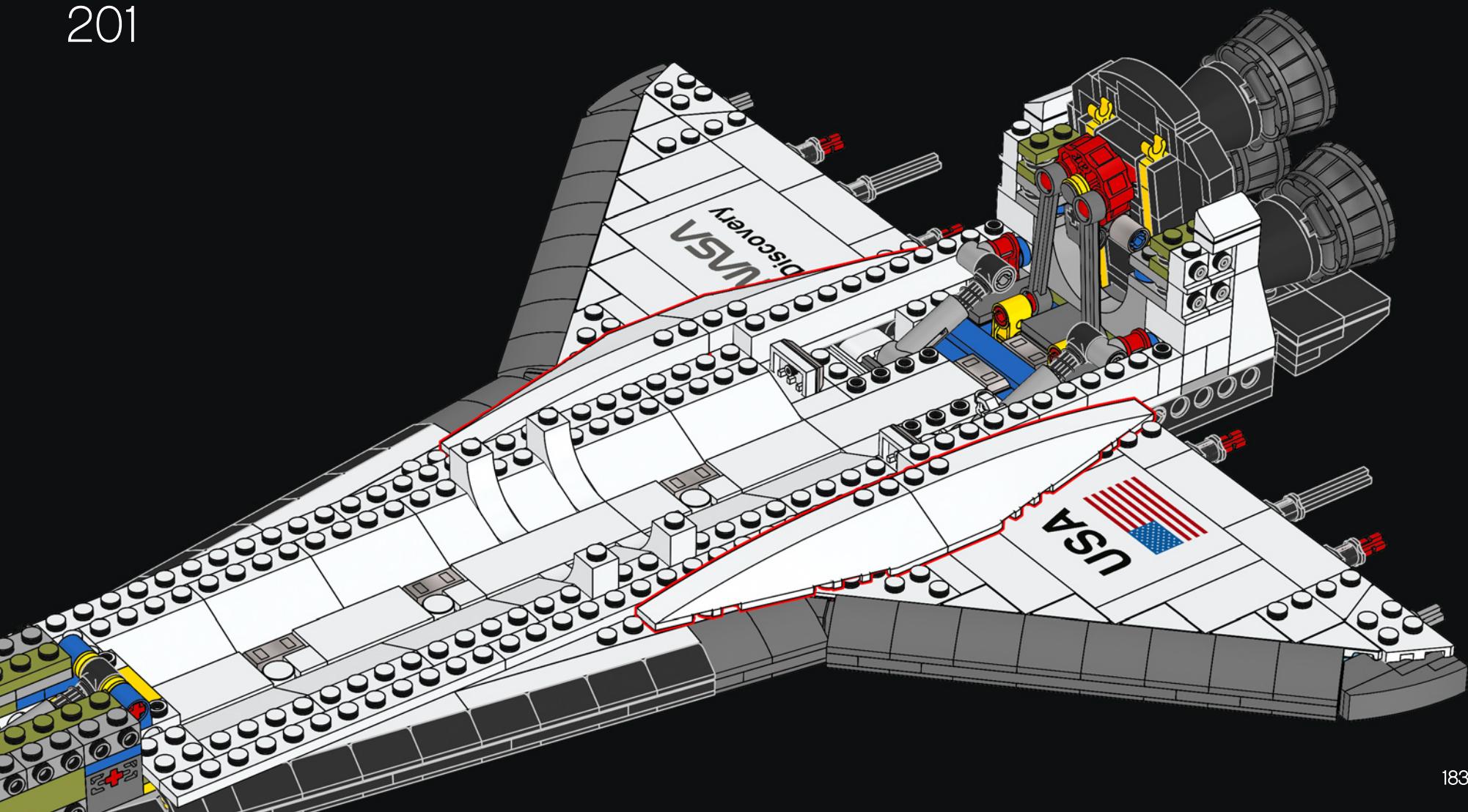


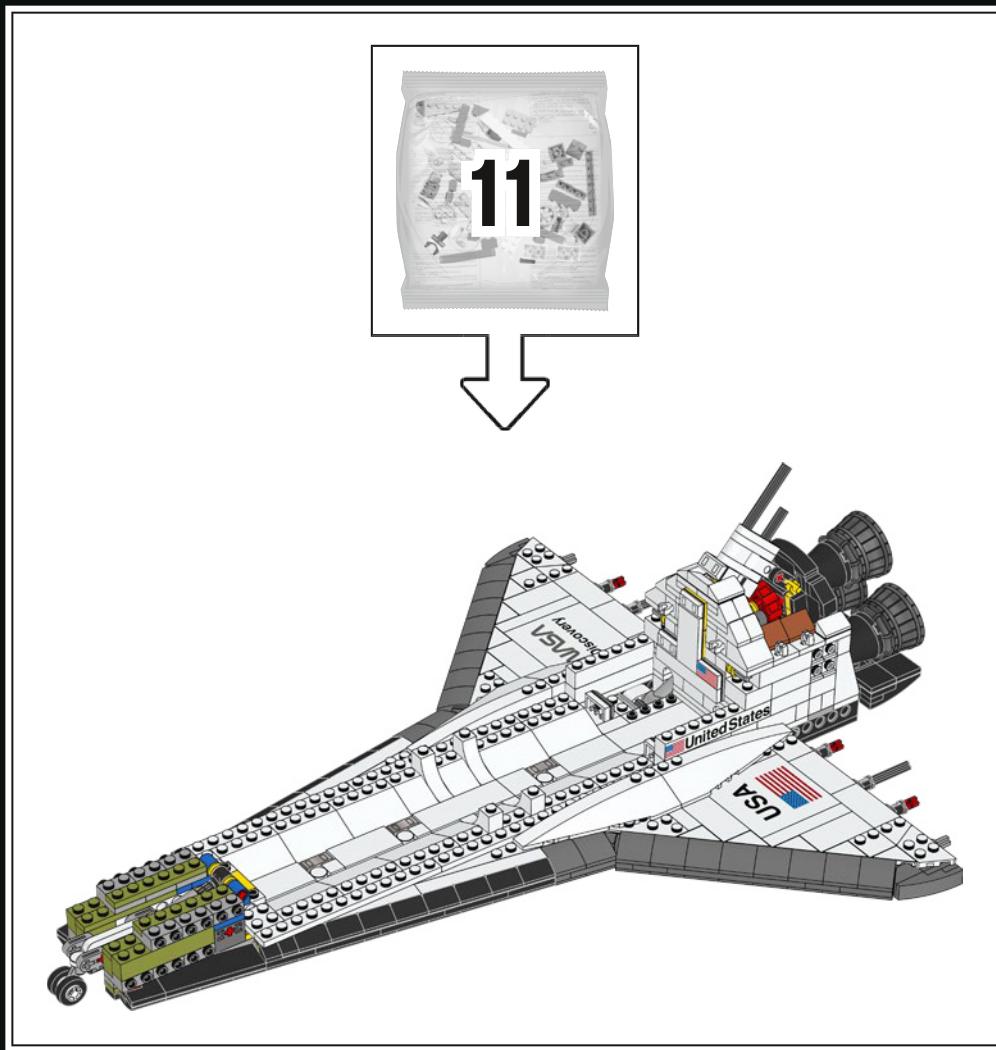
200

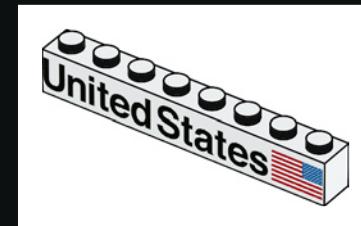
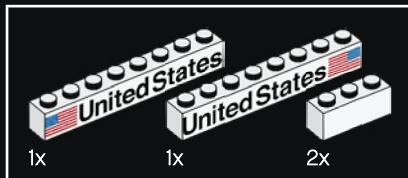




201



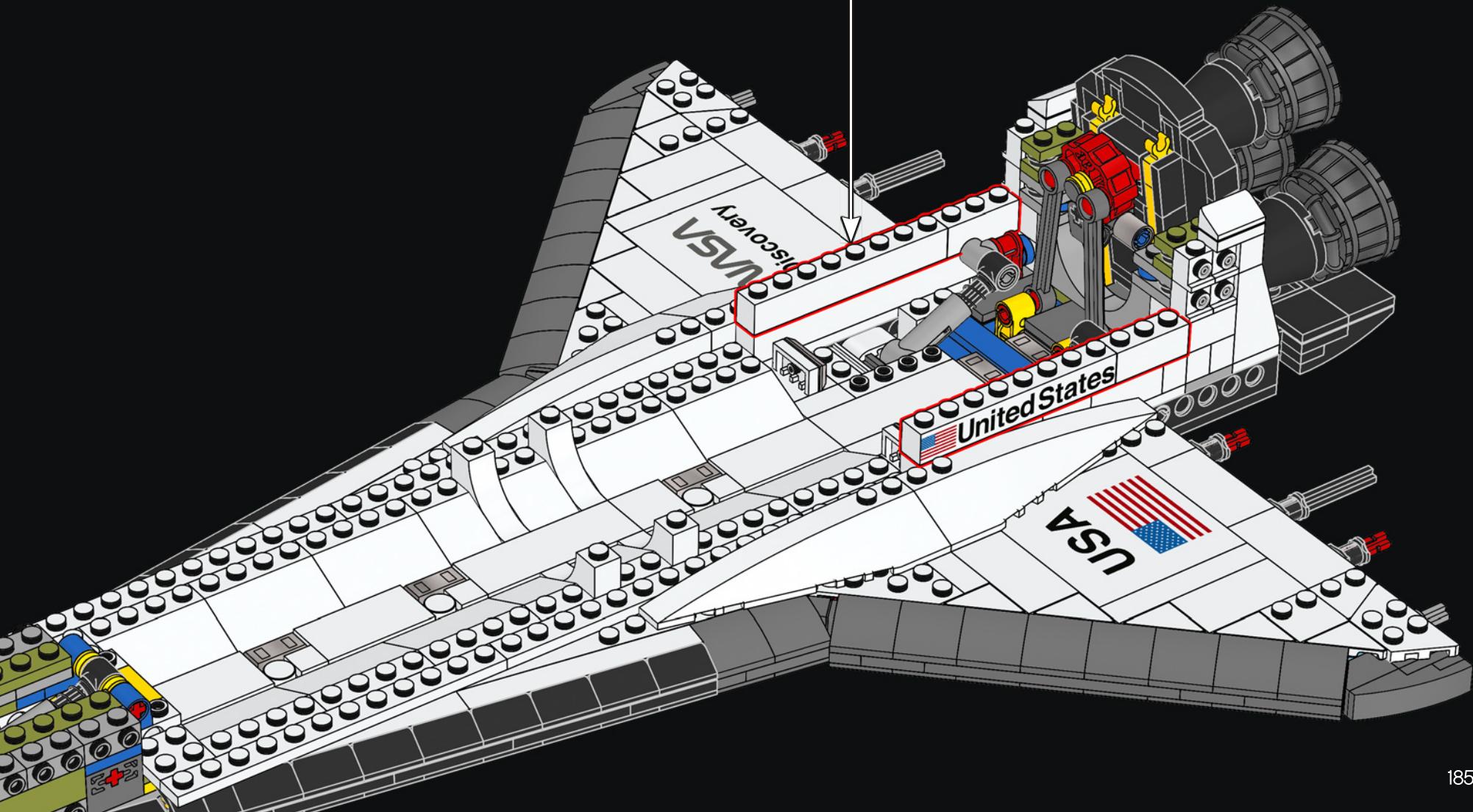




## ¿LO SABÍAS?

Como las normas exigen que las estrellas siempre estén orientadas hacia adelante, como si la bandera avanzase contra el viento, la bandera de los Estados Unidos ubicada a estribor del fuselaje del Discovery vuela invertida.

202



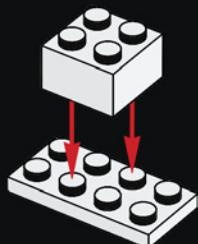


1x



1x

203

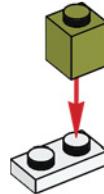


2x

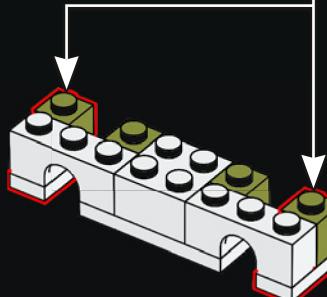


2x

205



2x

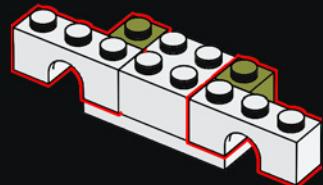


2x



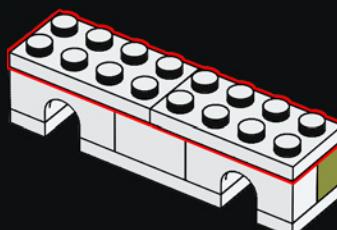
2x

204



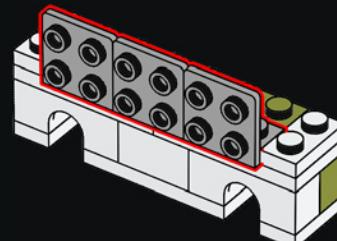
2x

206



3x

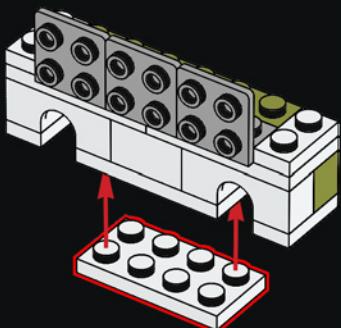
208



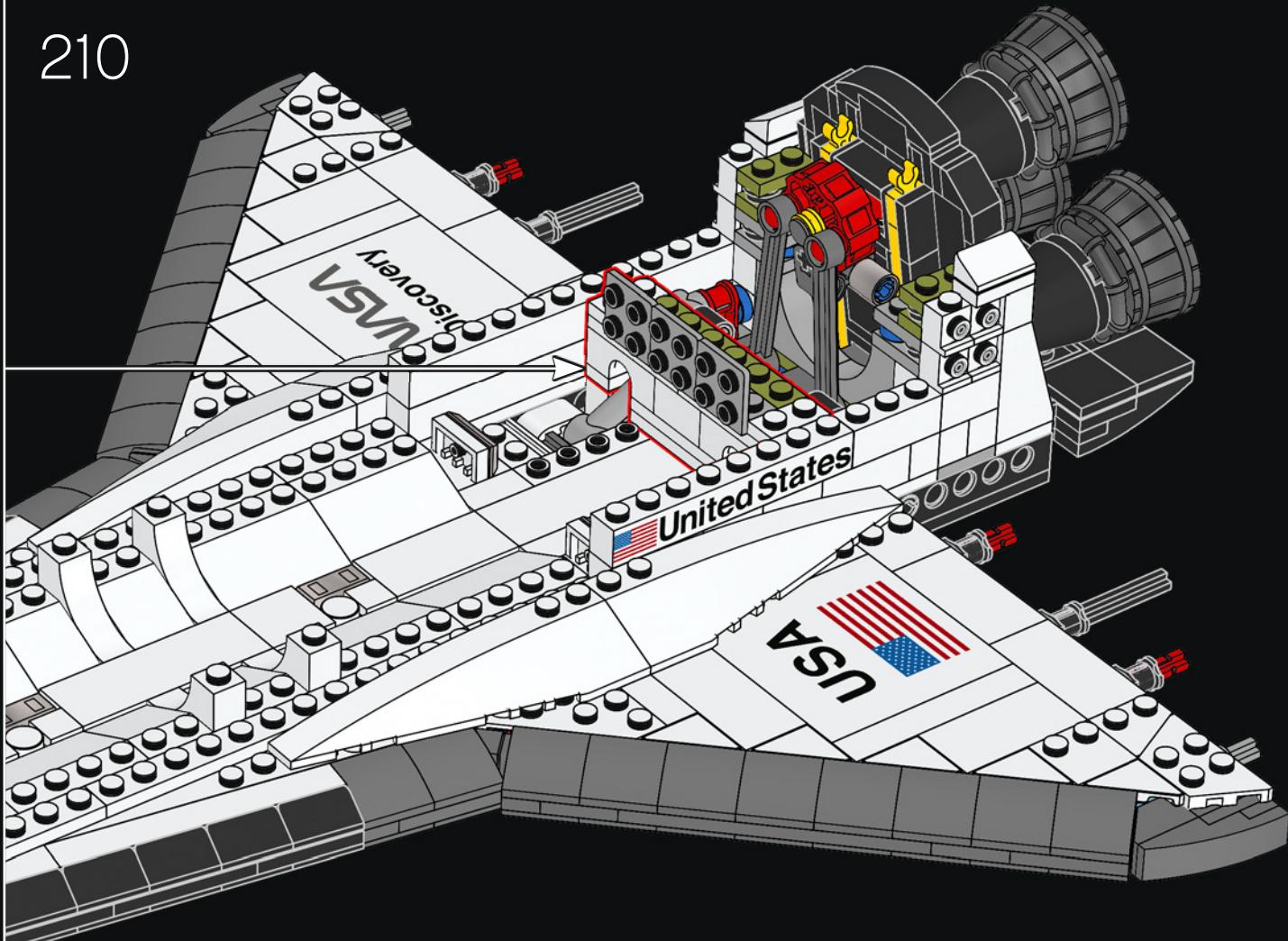


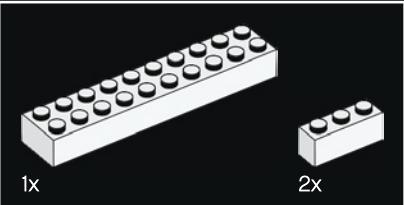
1x

209

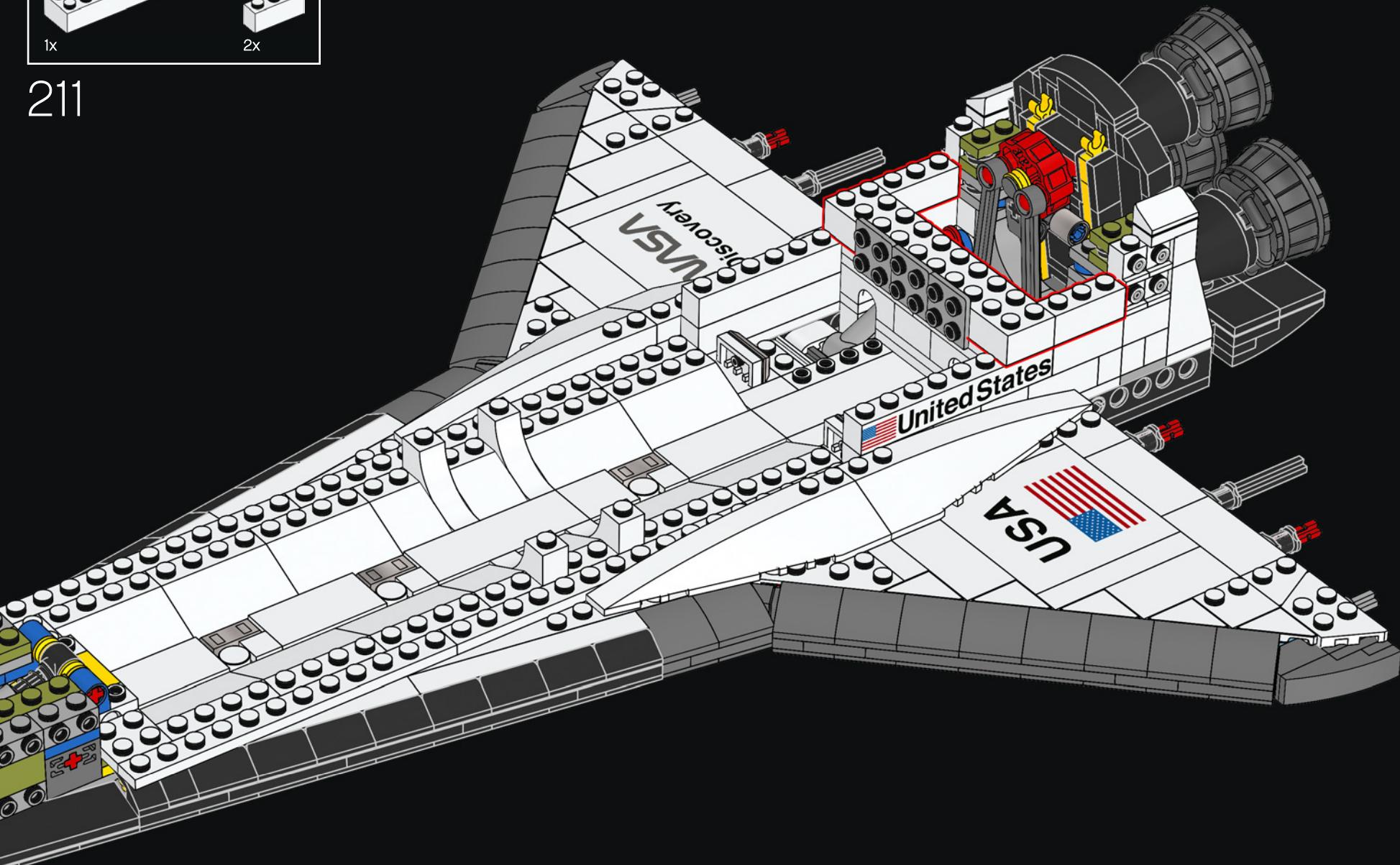


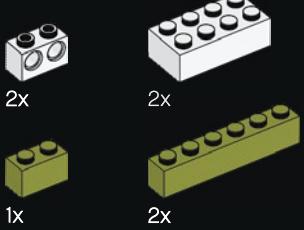
210



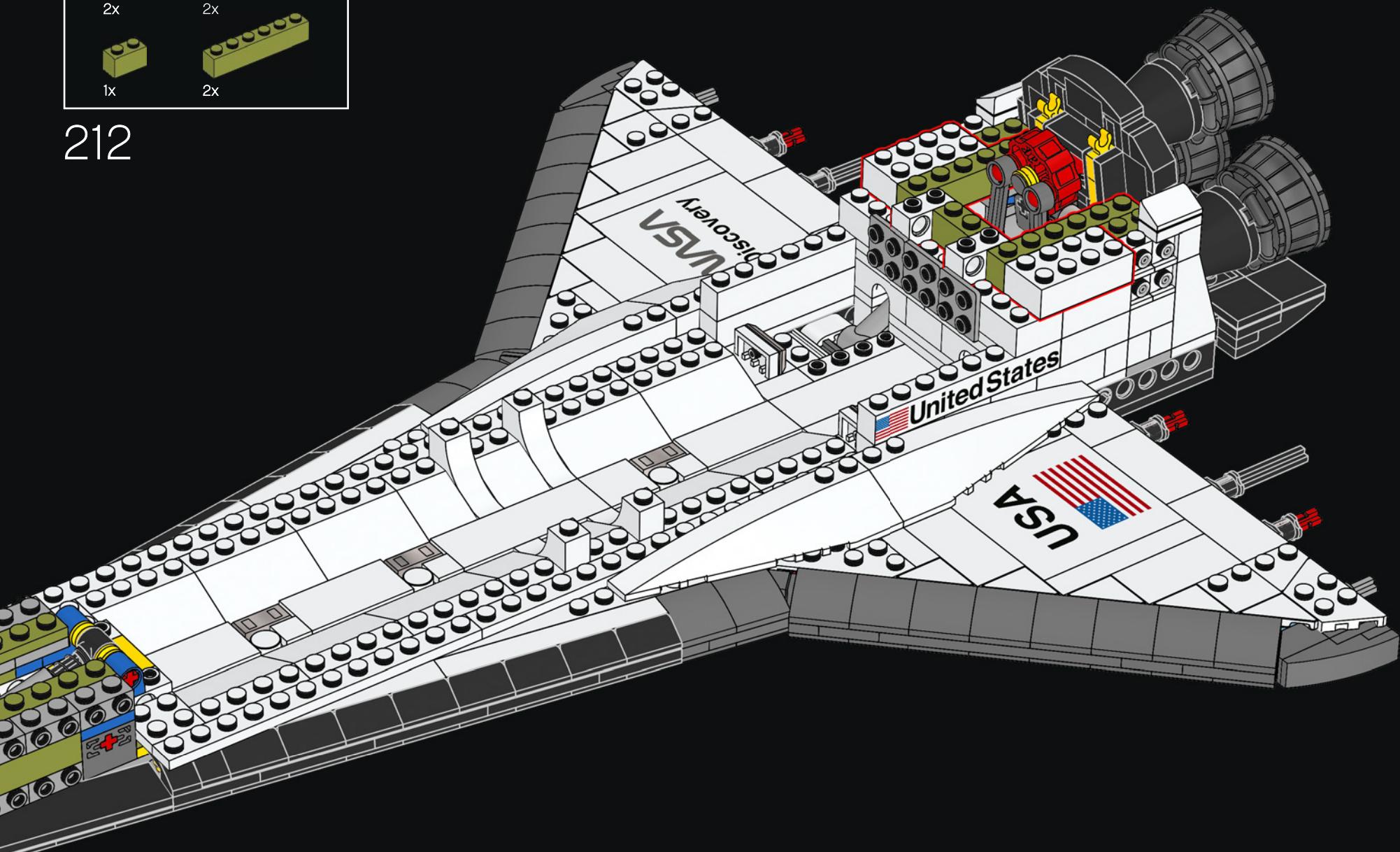


211





212

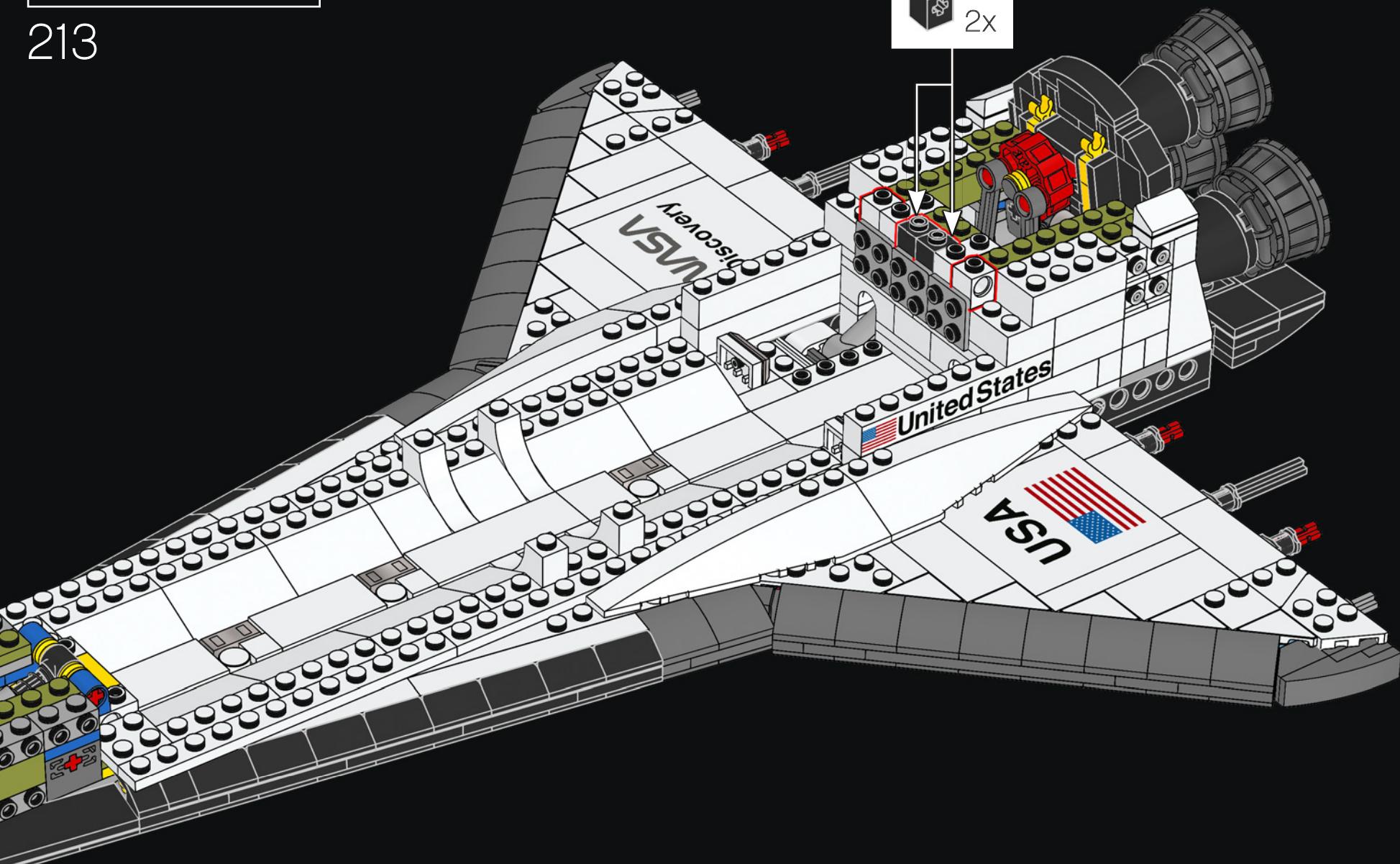


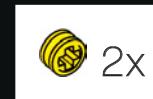
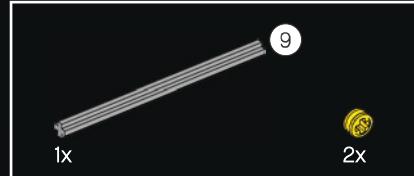


213

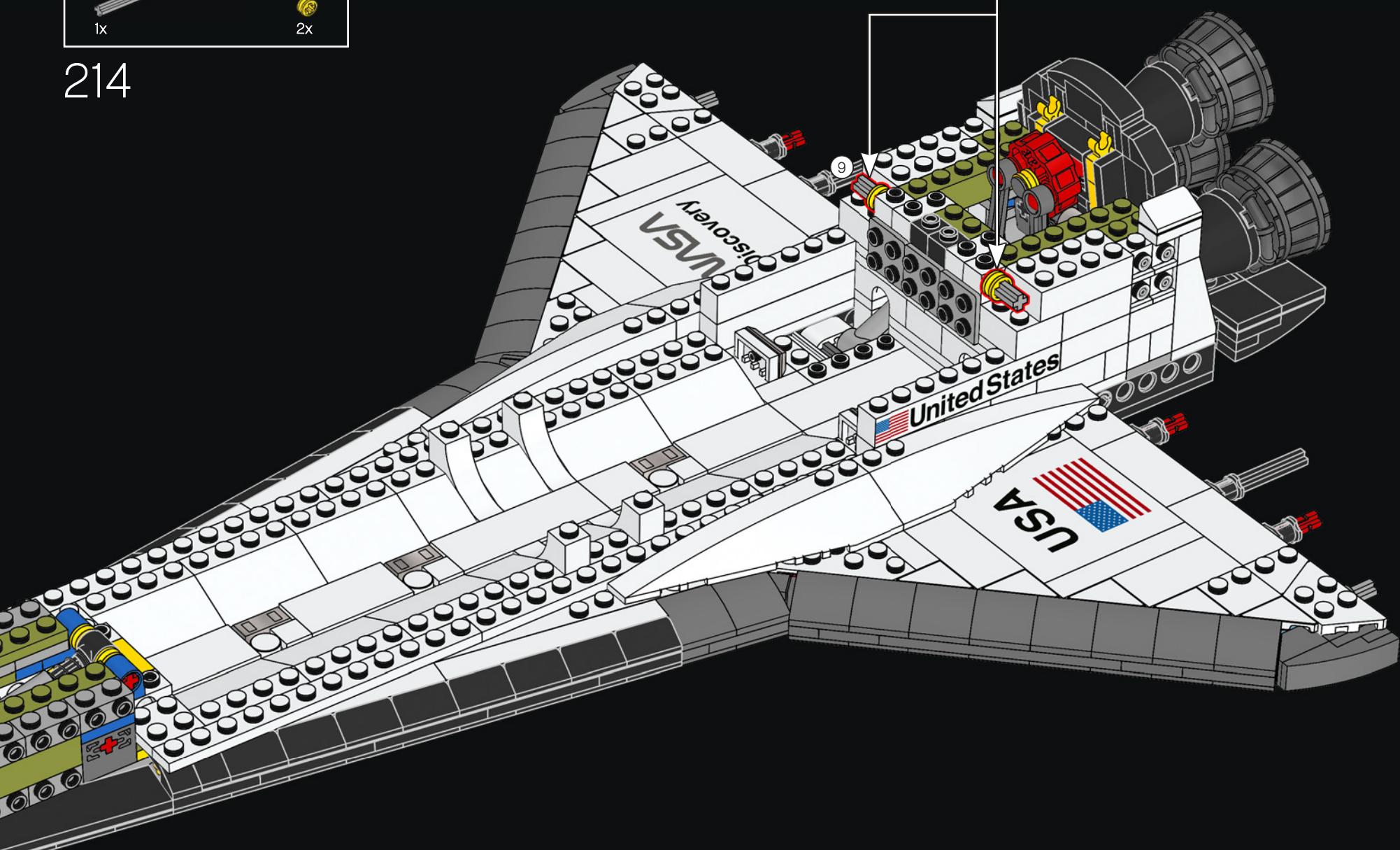


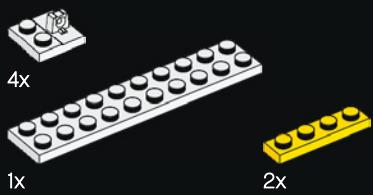
2x



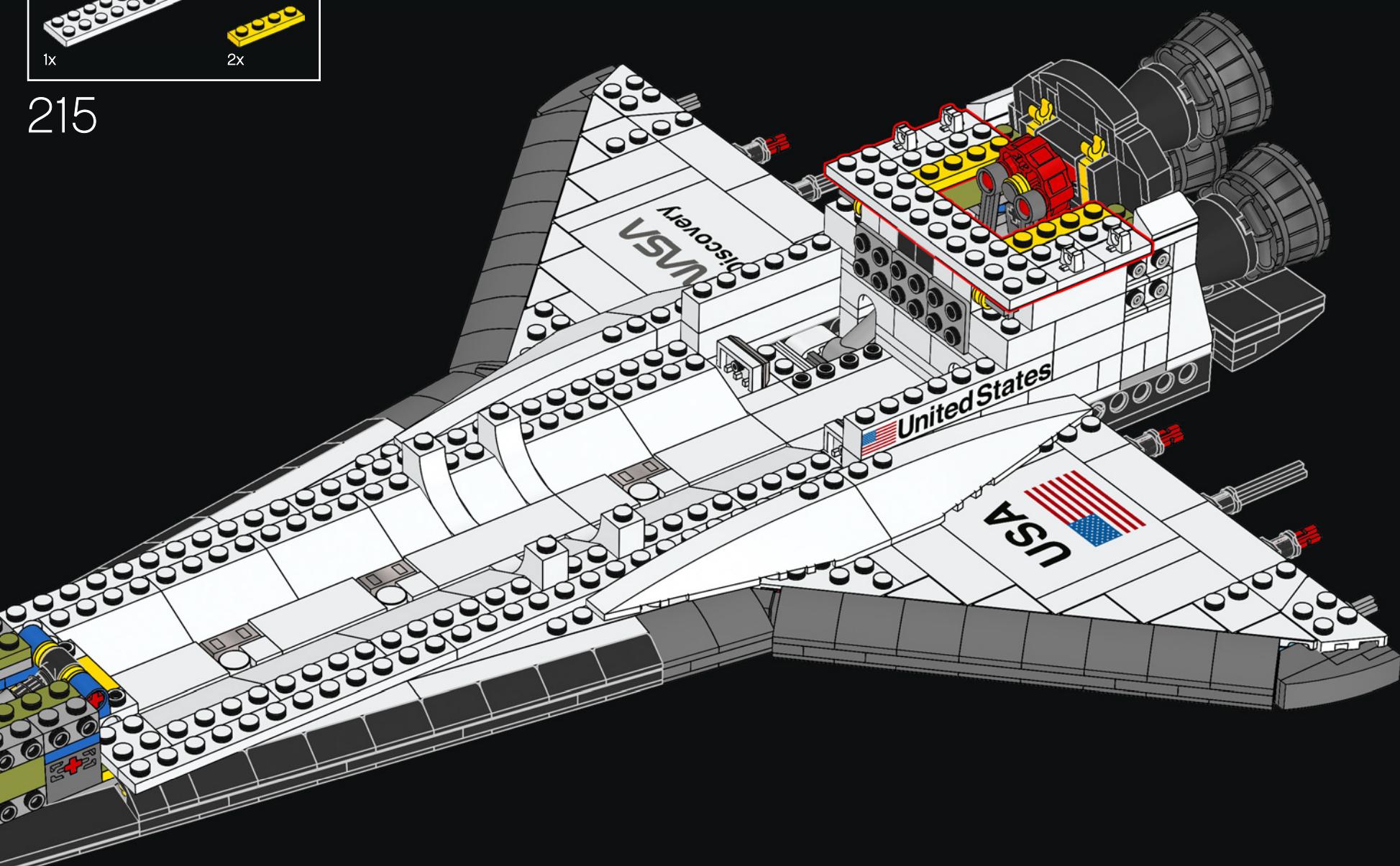


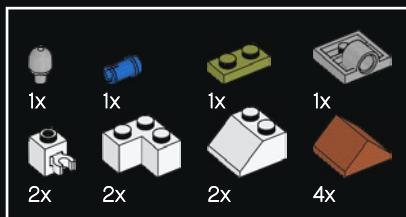
214



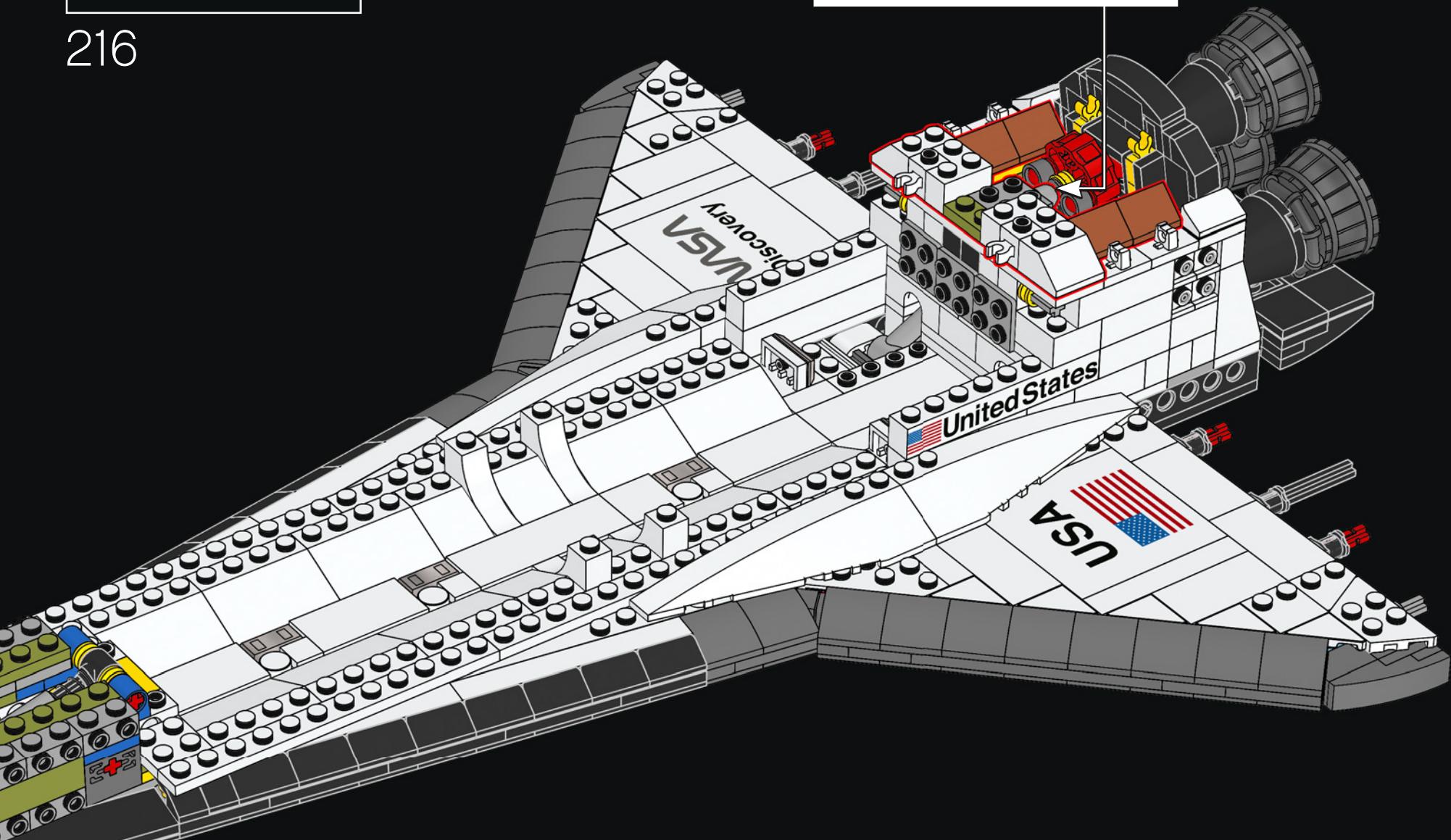
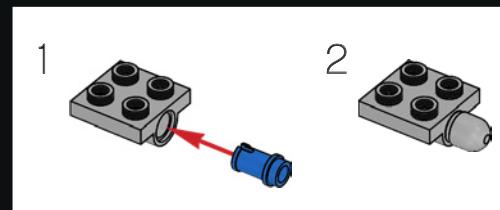


215





216



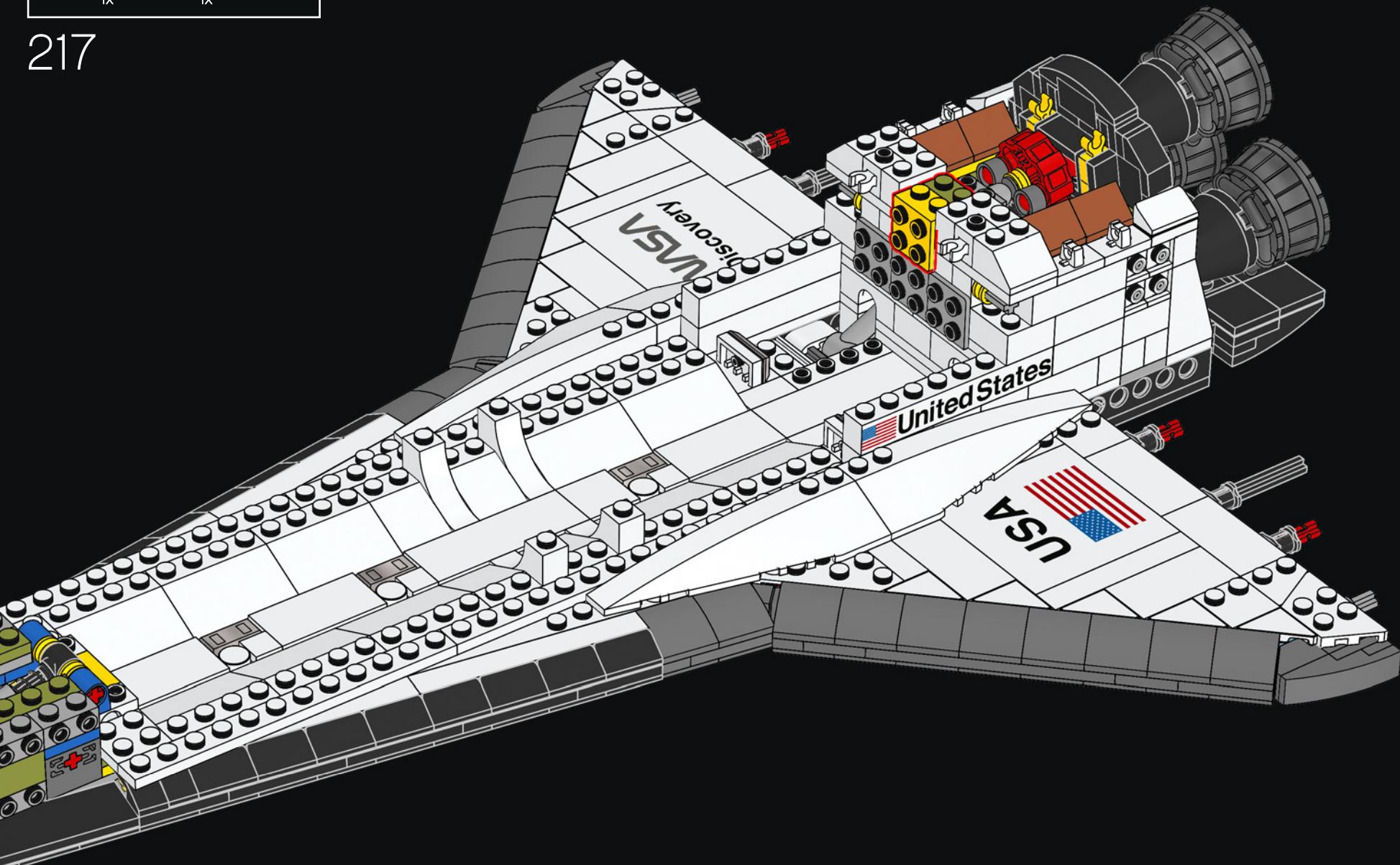


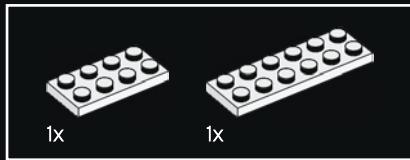
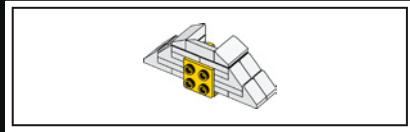
1x



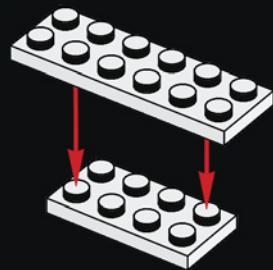
1x

217

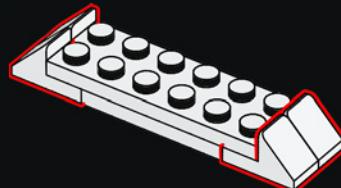




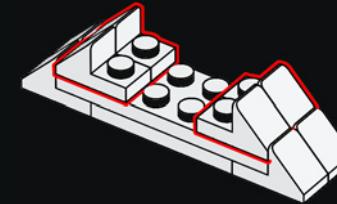
218



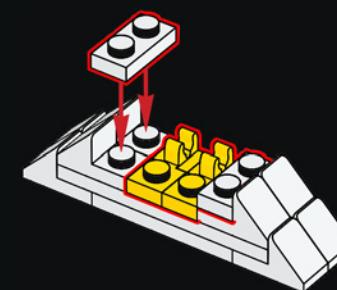
219



220



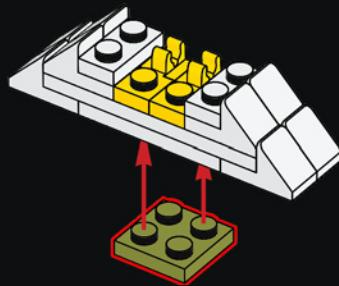
221





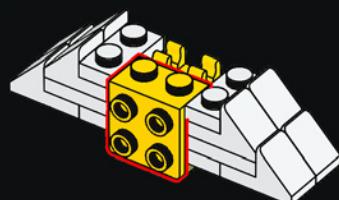
1x

222



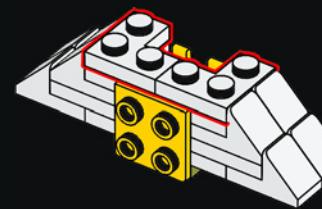
1x

223



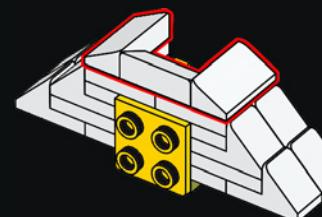
2x

224

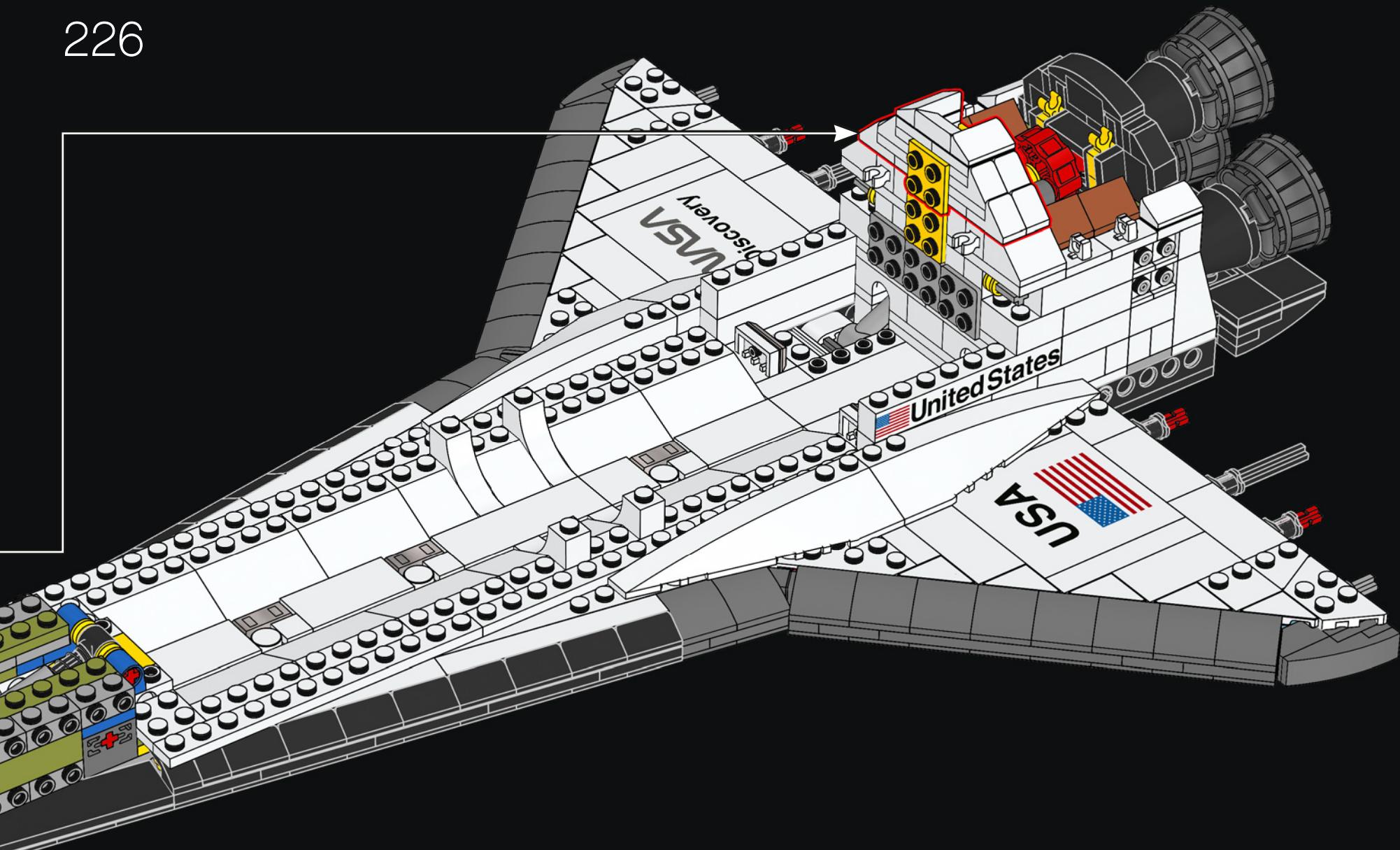


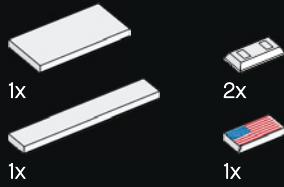
3x

225

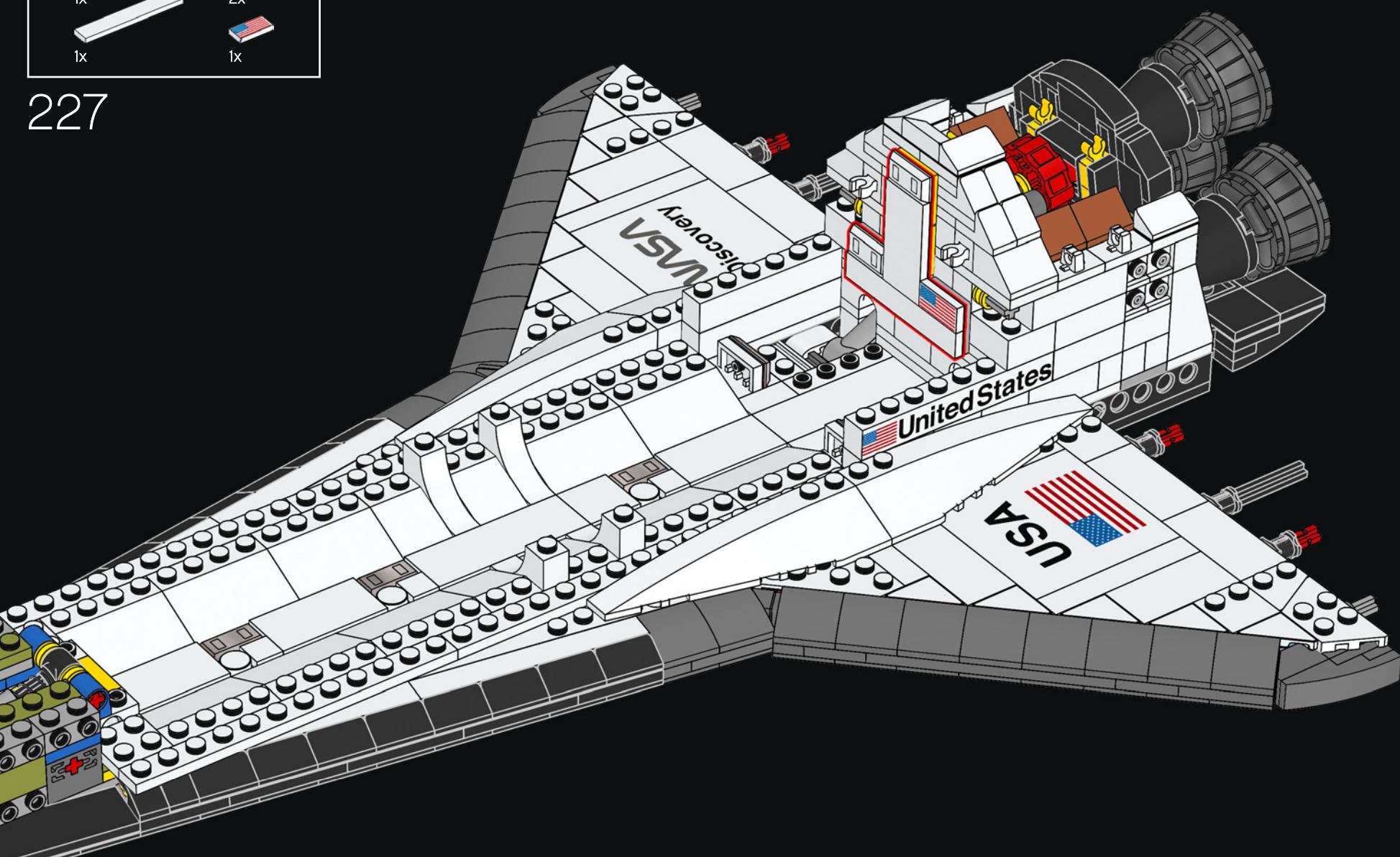


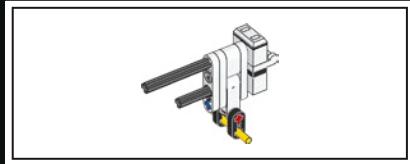
226





227

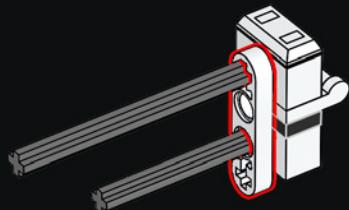






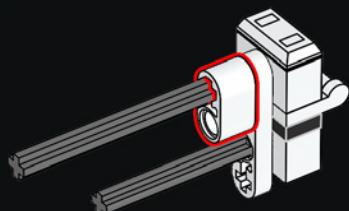
1x

232

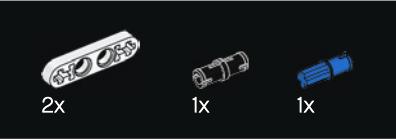
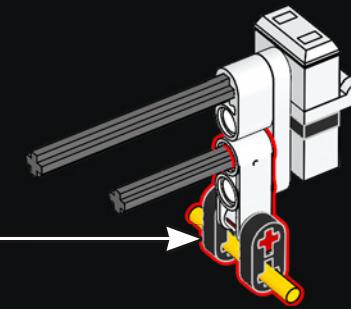
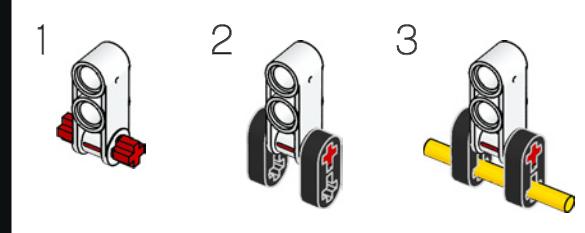


1x

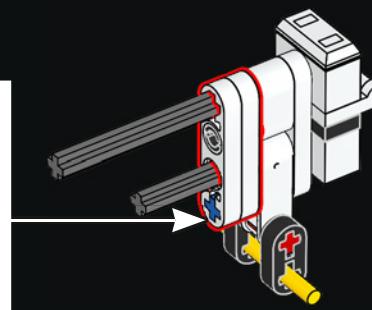
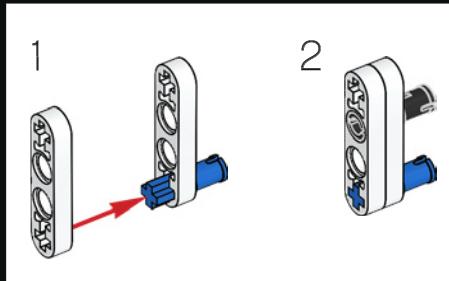
233



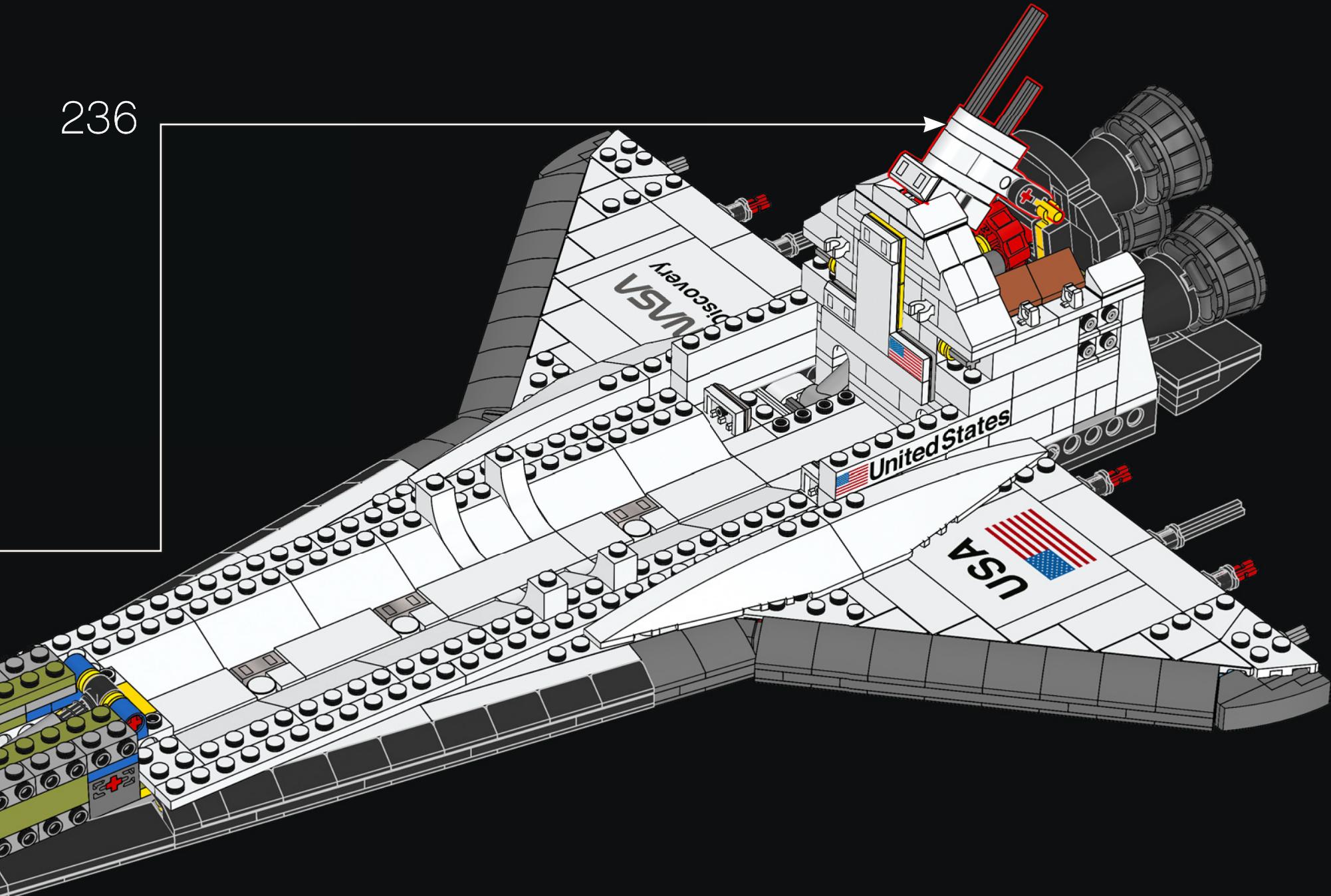
234

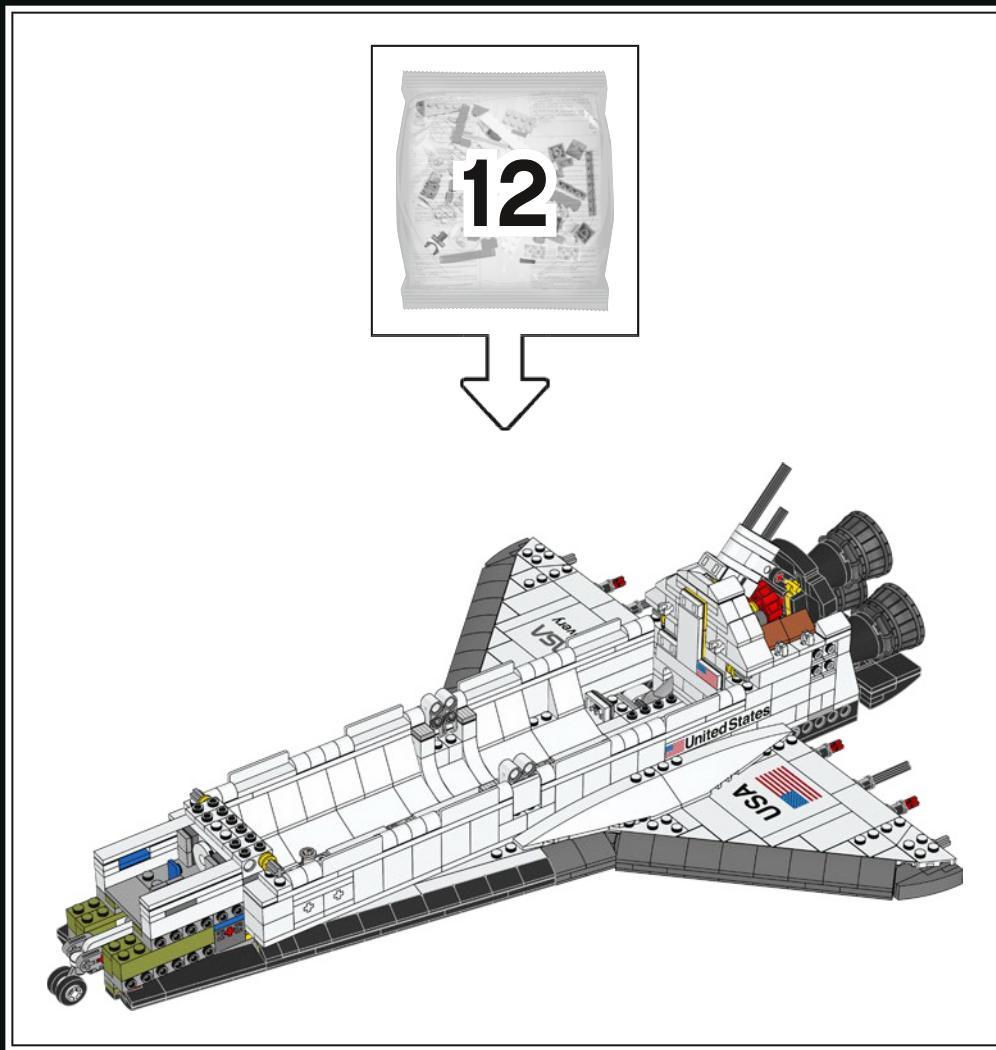


235



236



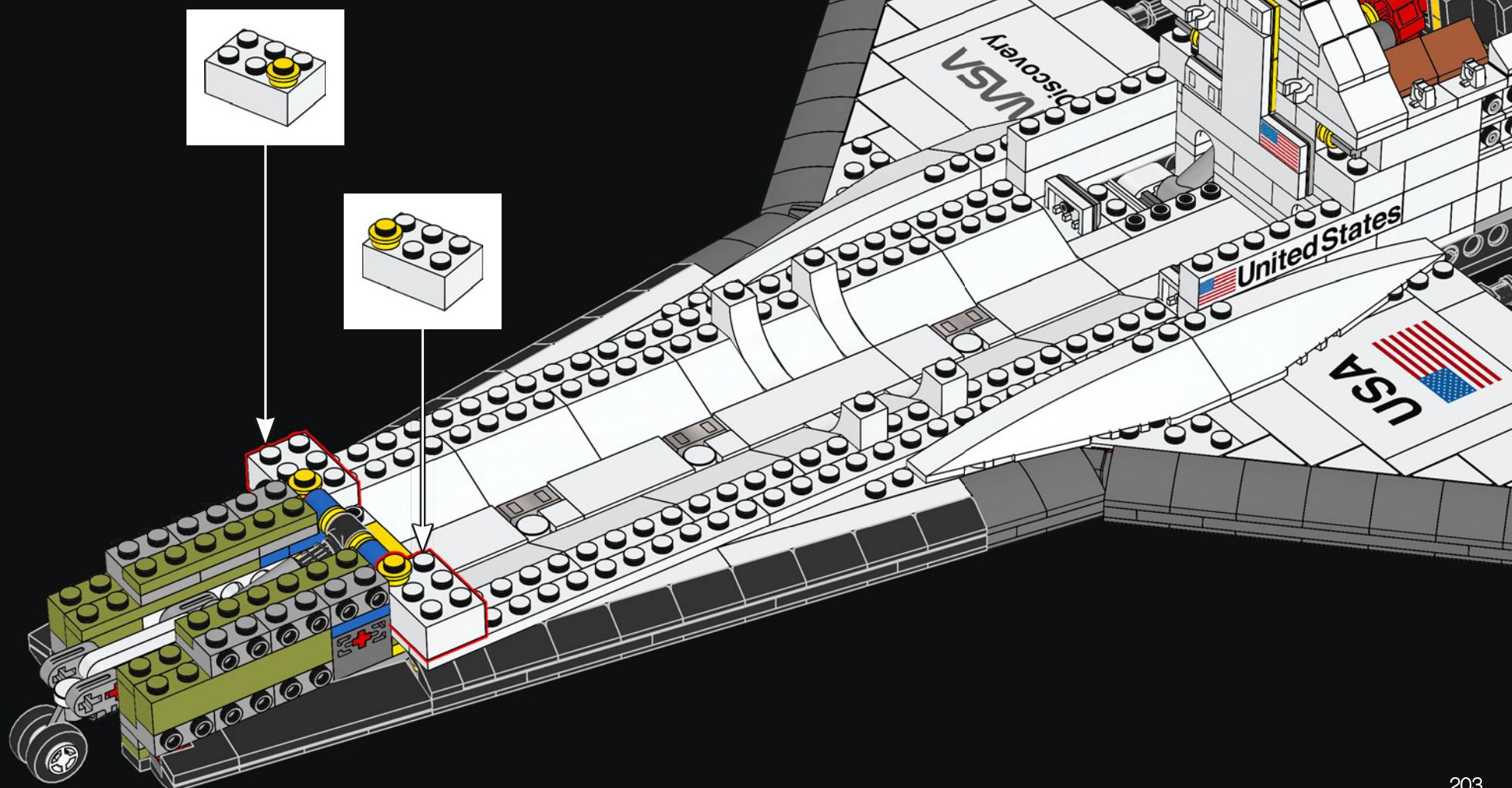




2x

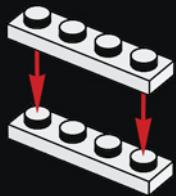


237

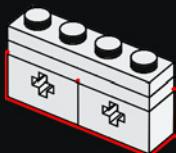




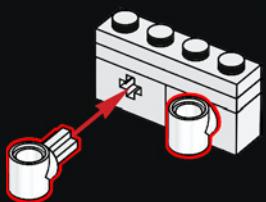
238



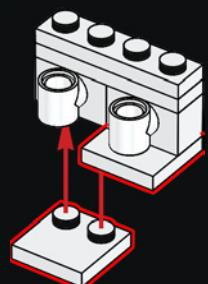
239



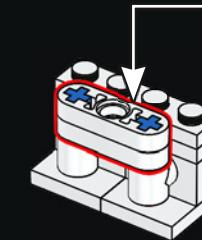
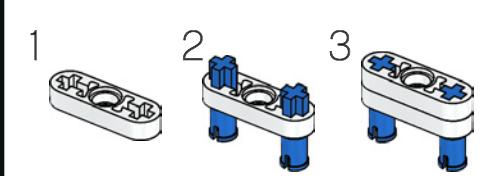
240



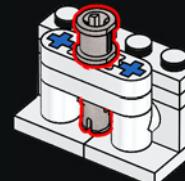
241



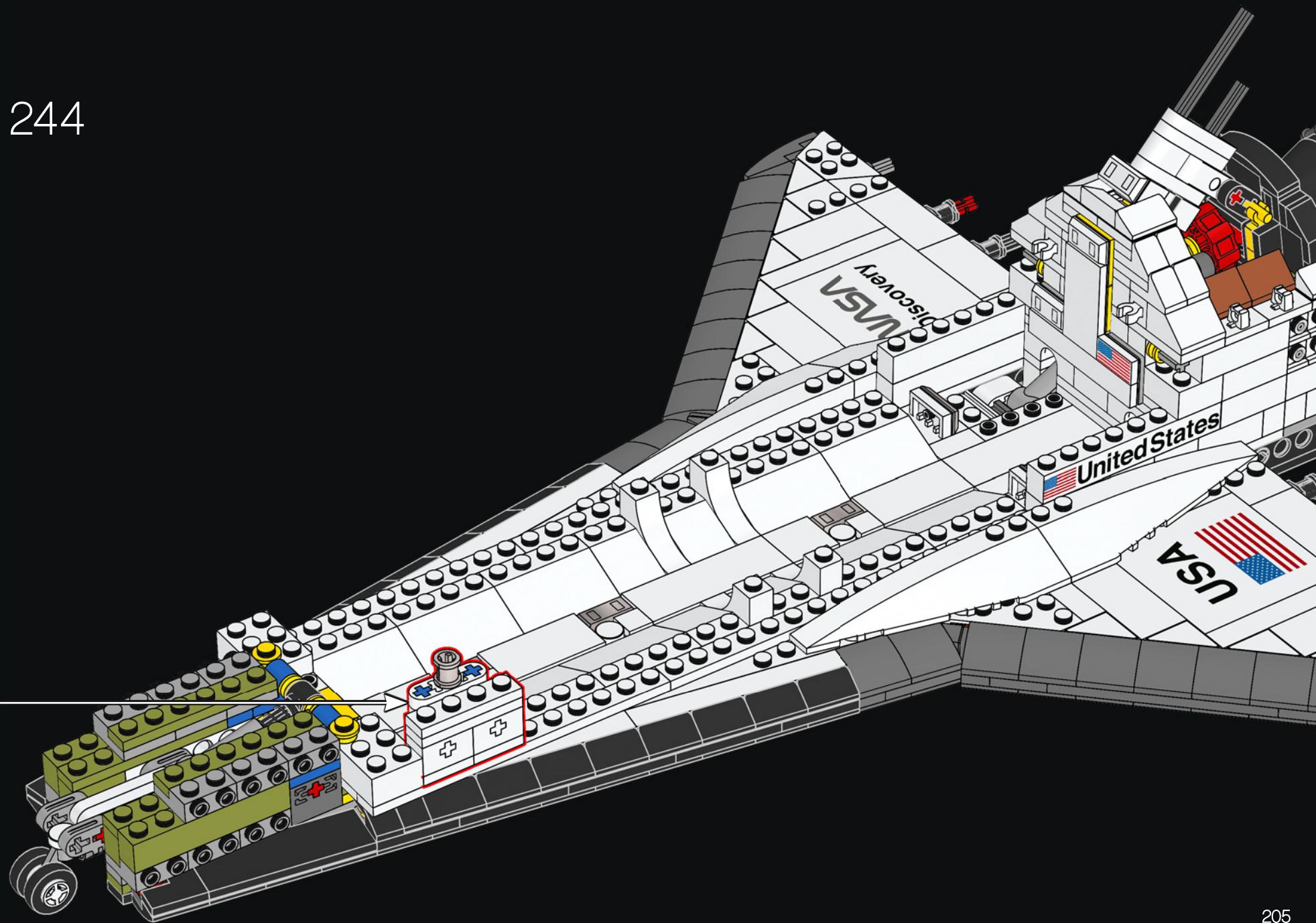
242



243



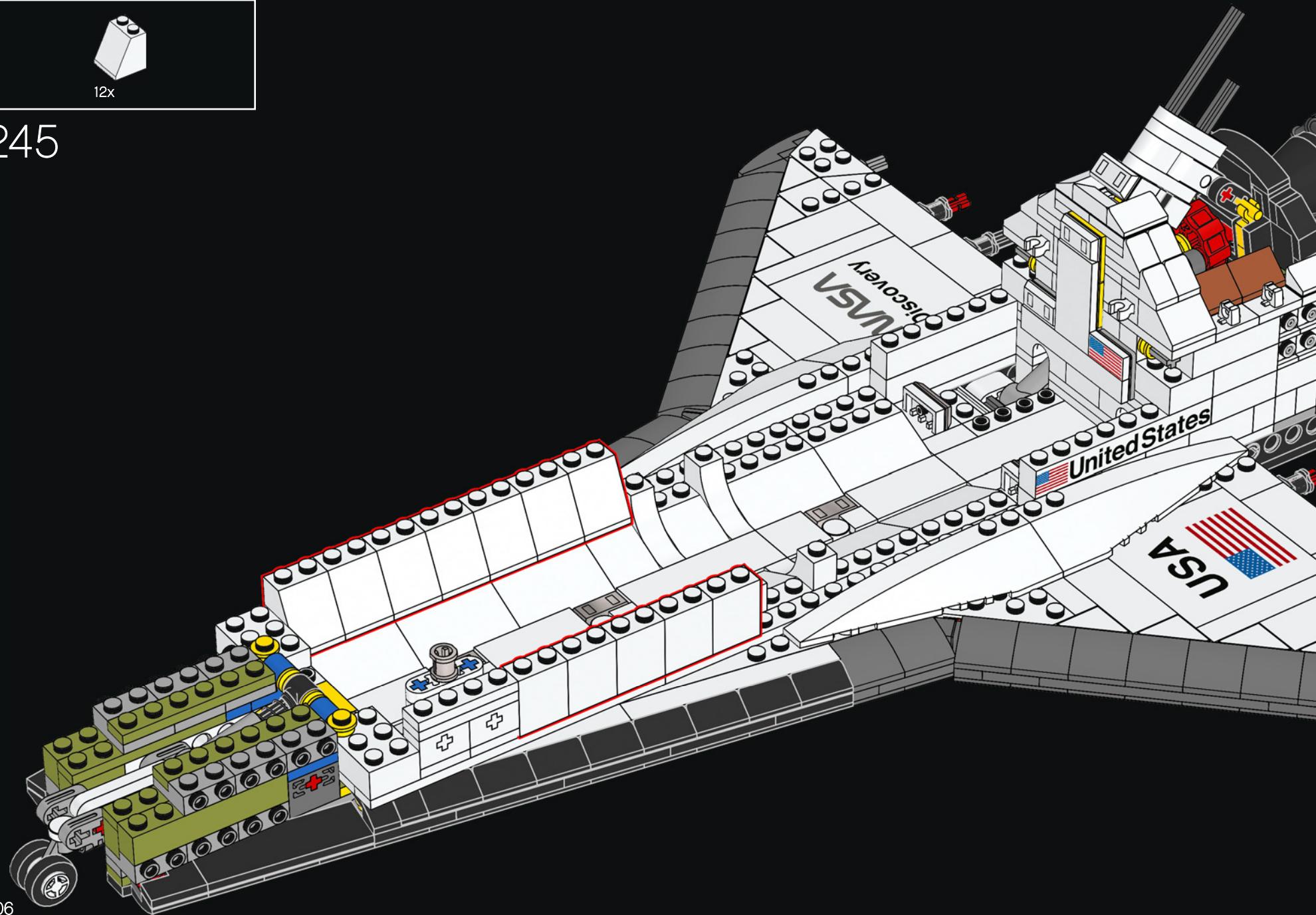
244



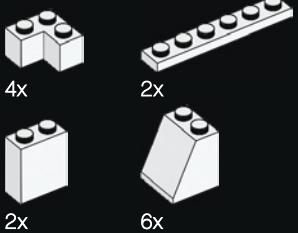


12x

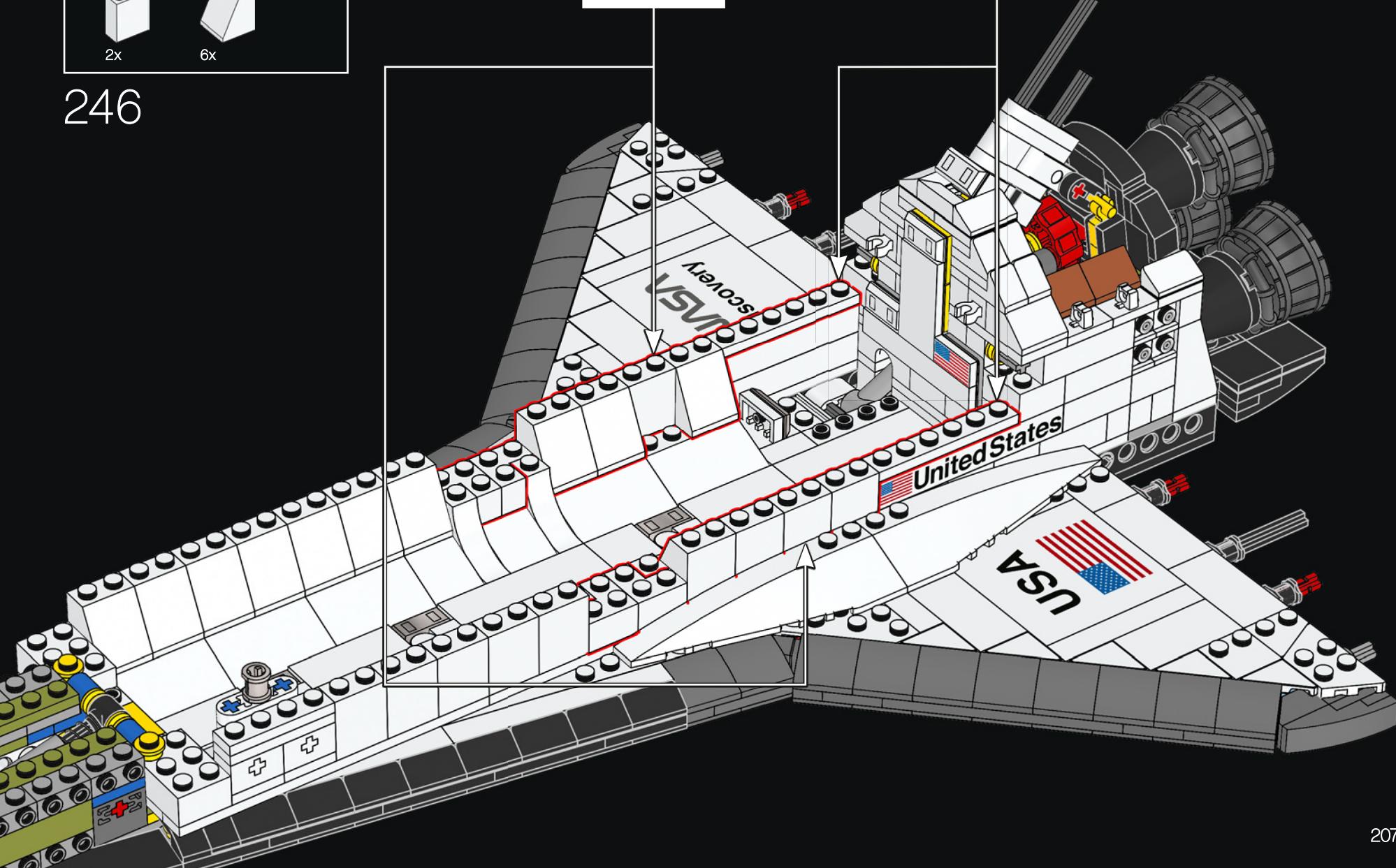
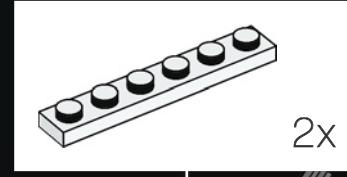
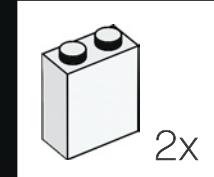
245

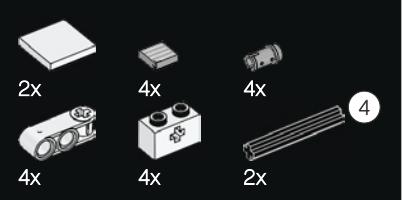


206



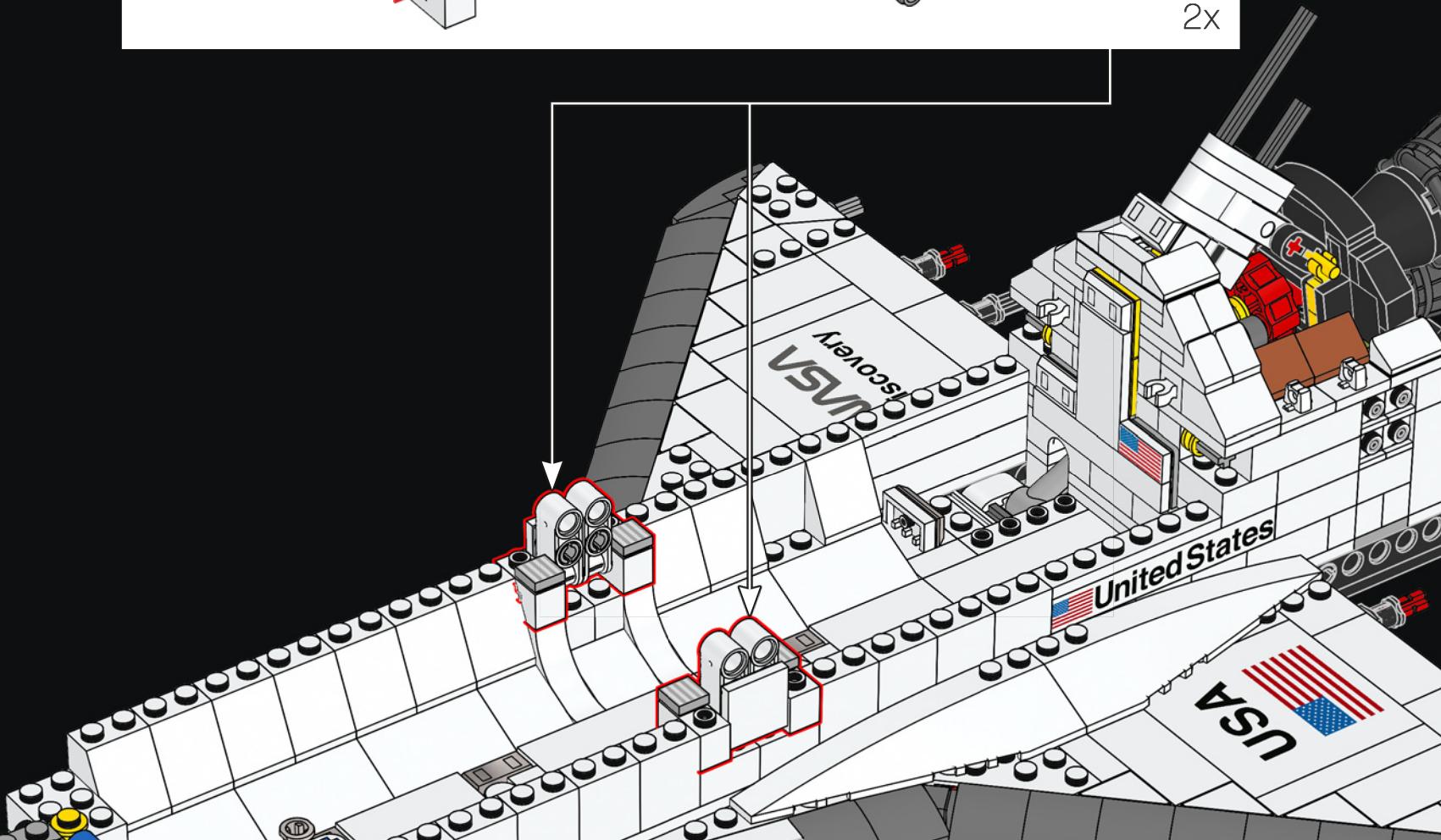
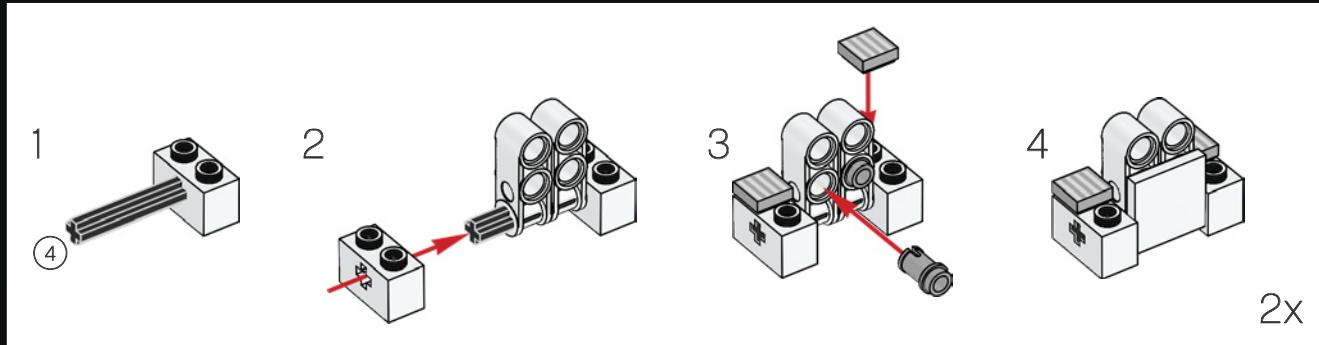
246

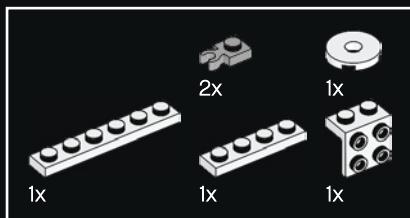




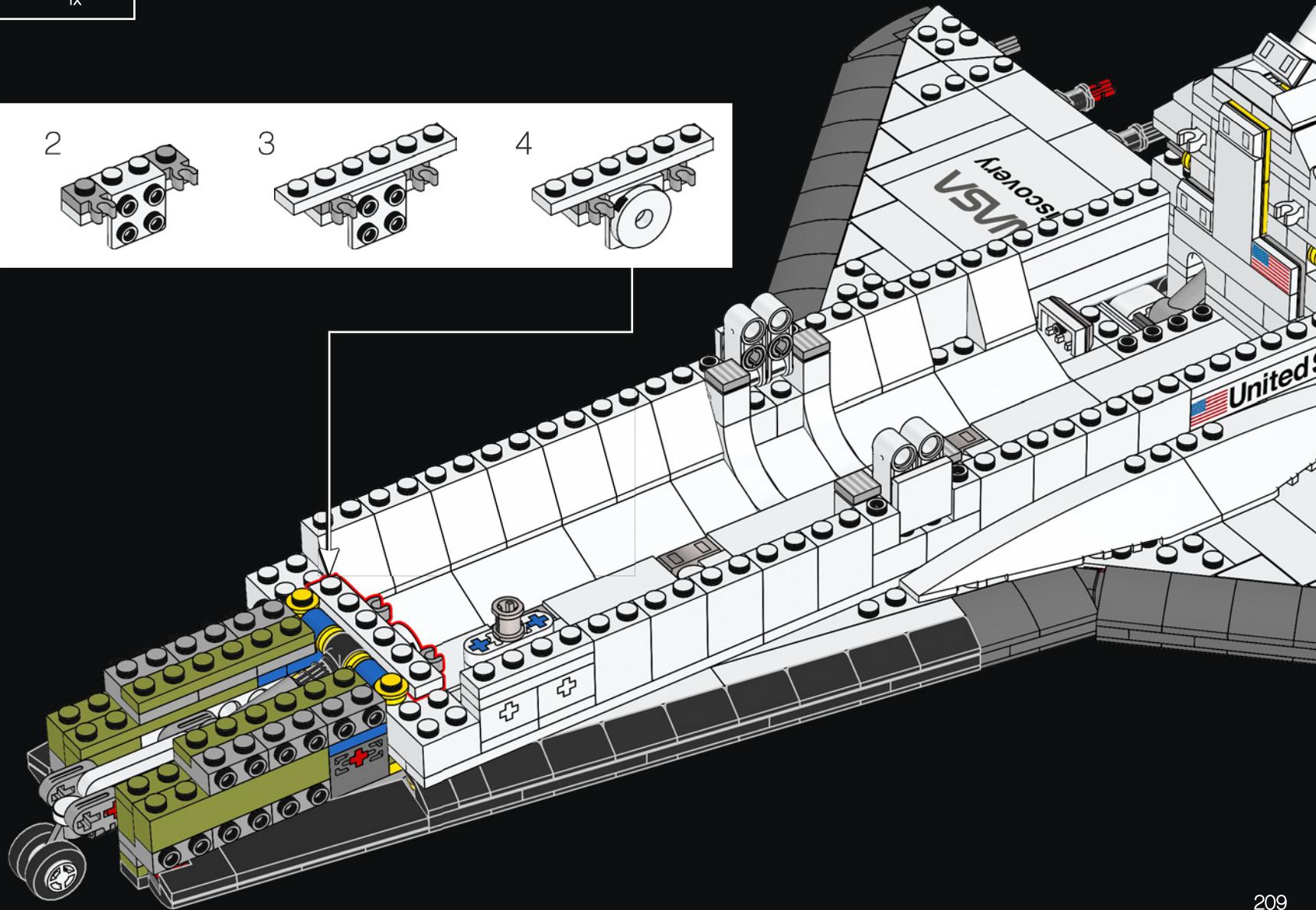
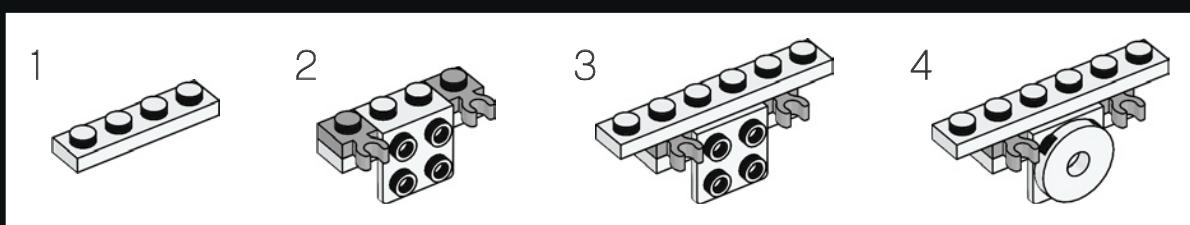
④ 1:1

247



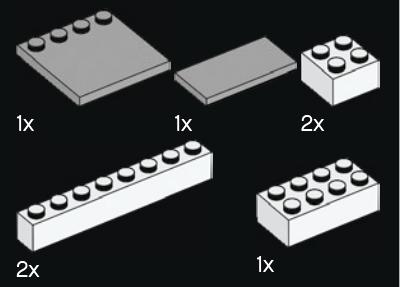


248

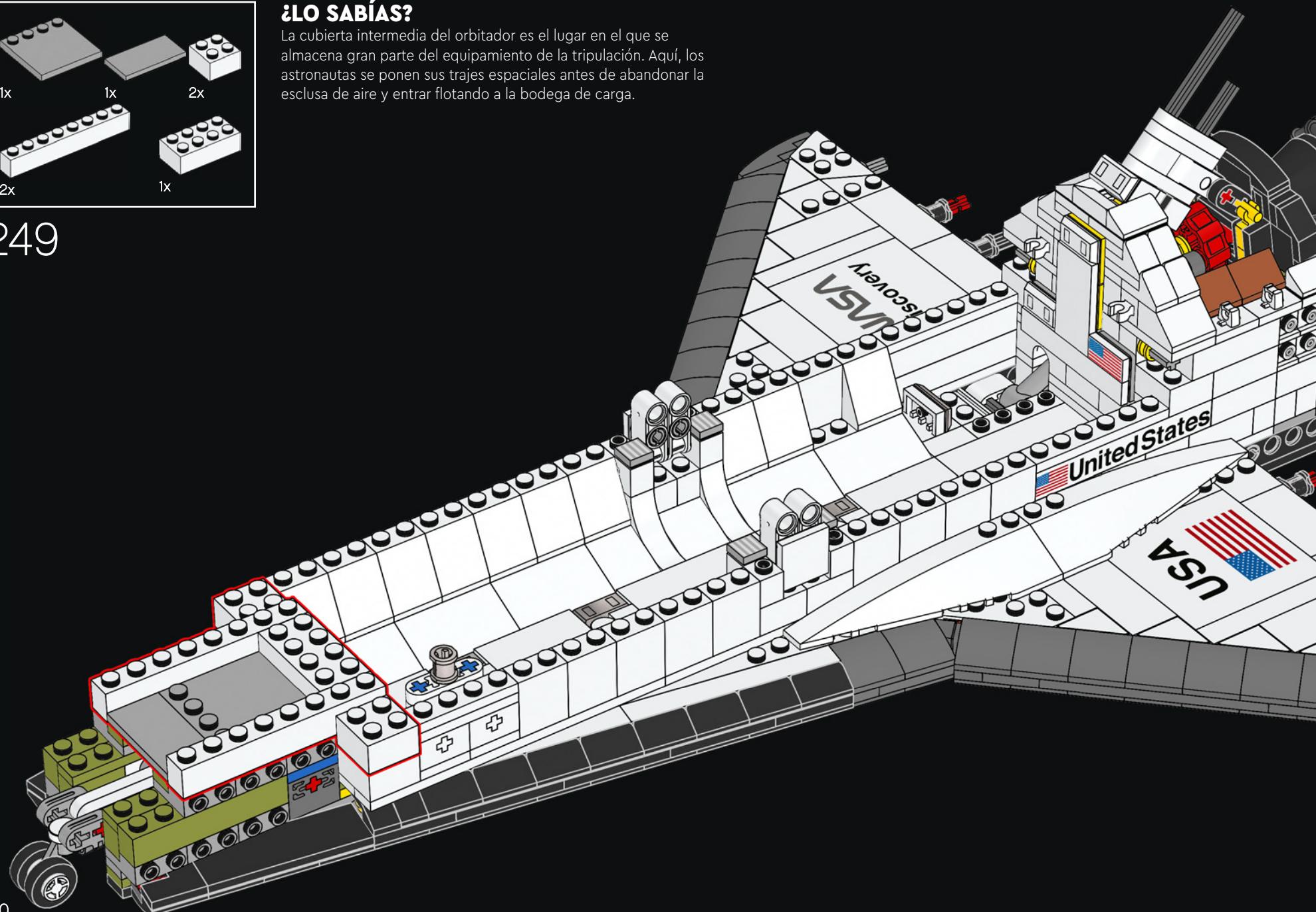


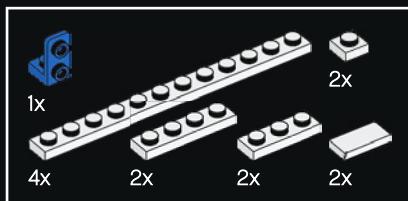
## ¿LO SABÍAS?

La cubierta intermedia del orbitador es el lugar en el que se almacena gran parte del equipamiento de la tripulación. Aquí, los astronautas se ponen sus trajes espaciales antes de abandonar la esclusa de aire y entrar flotando a la bodega de carga.

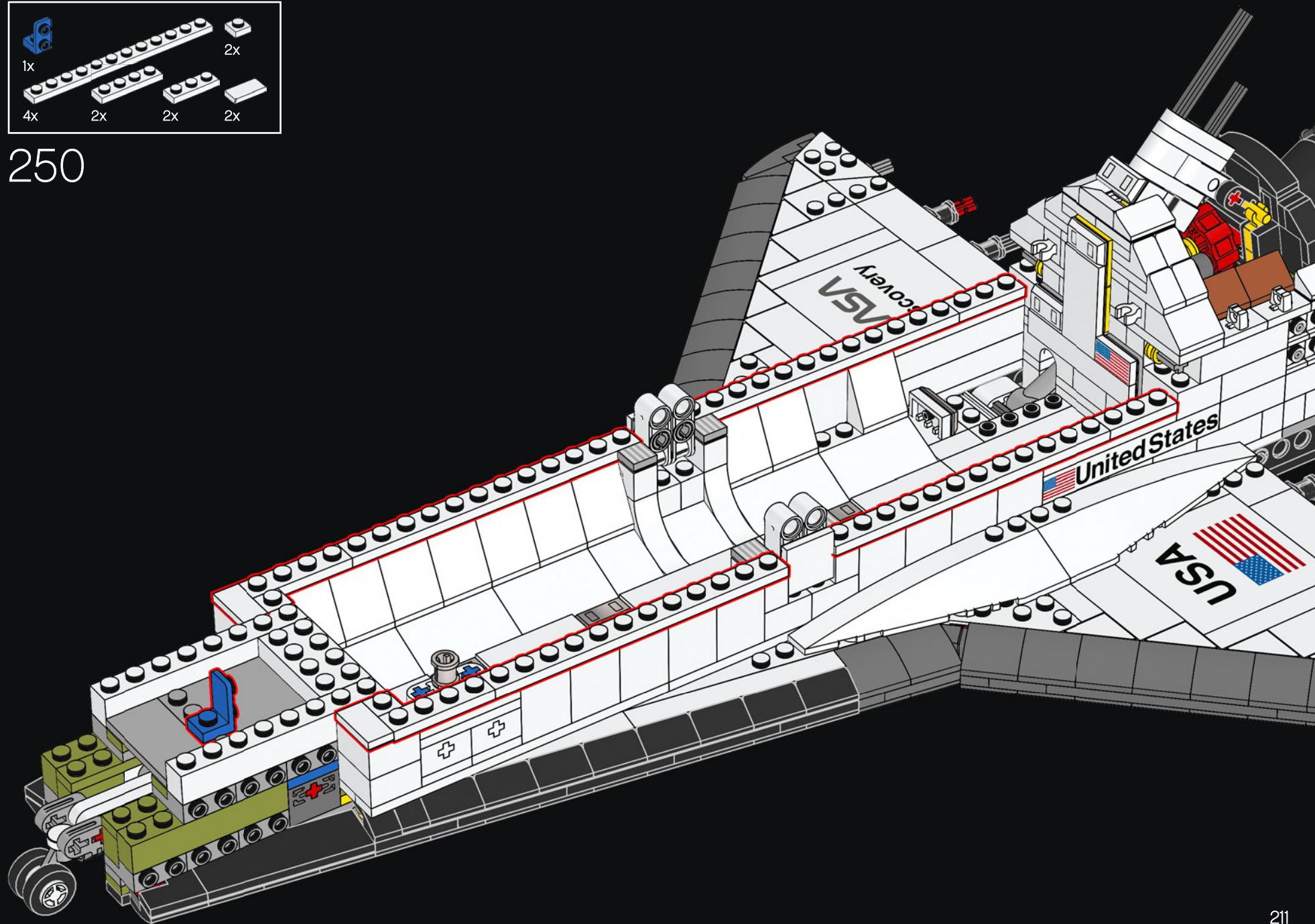


249





250



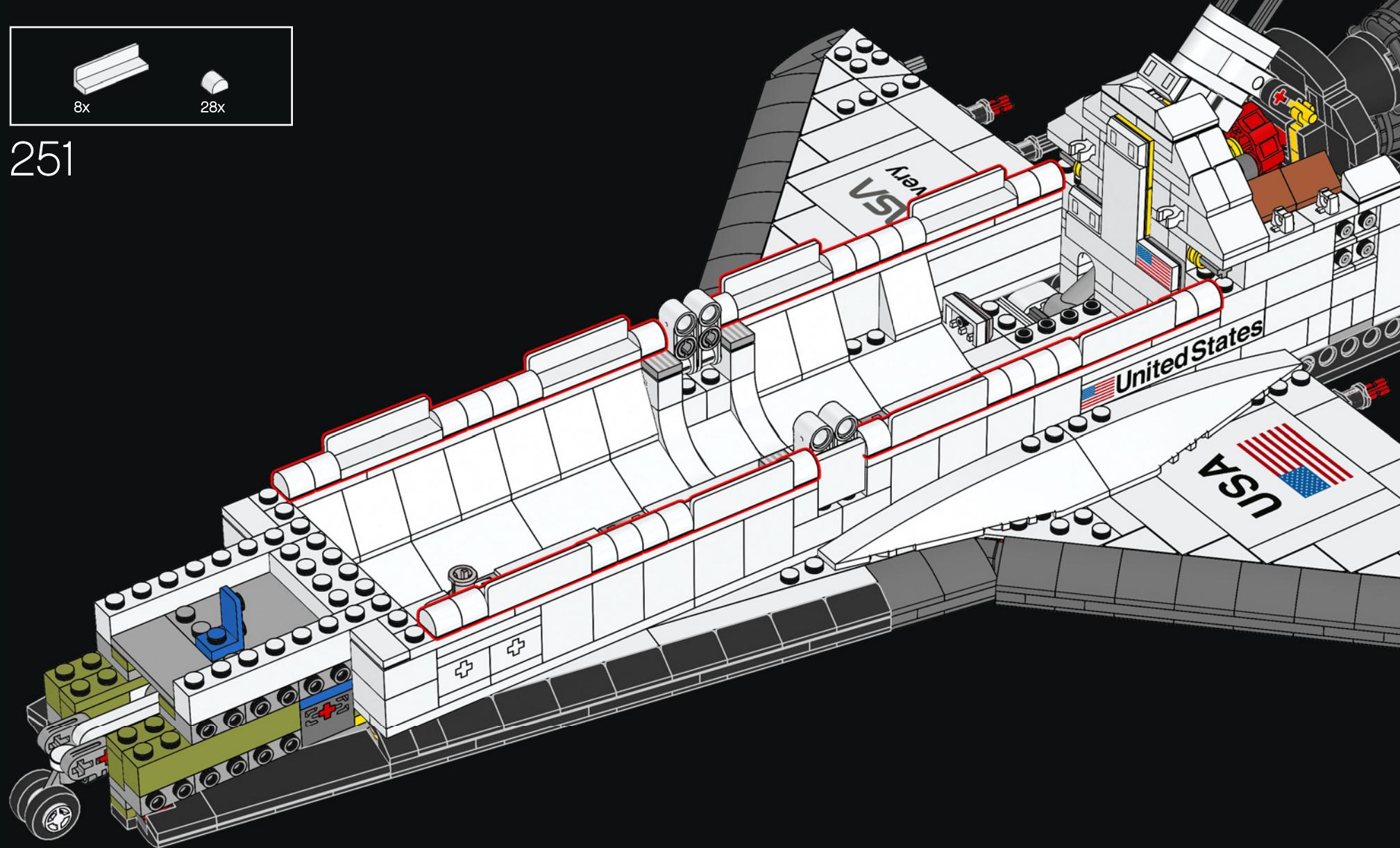


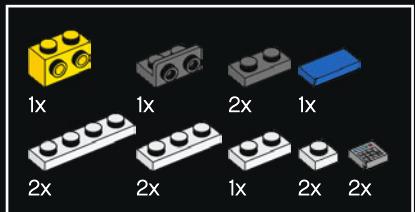
8x



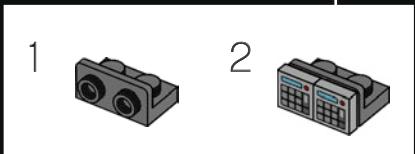
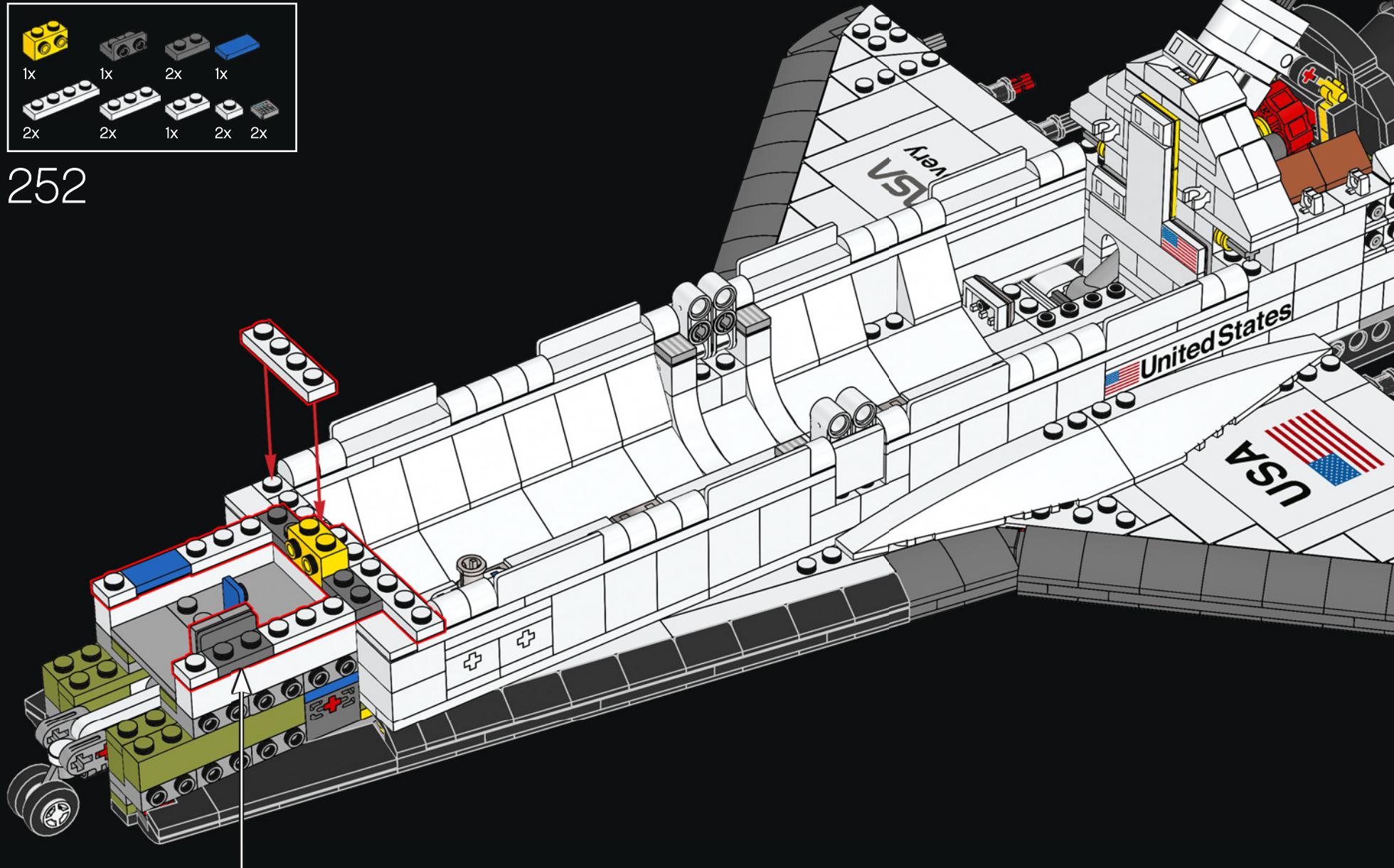
28x

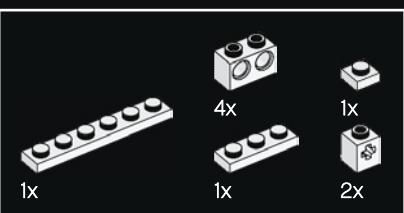
251



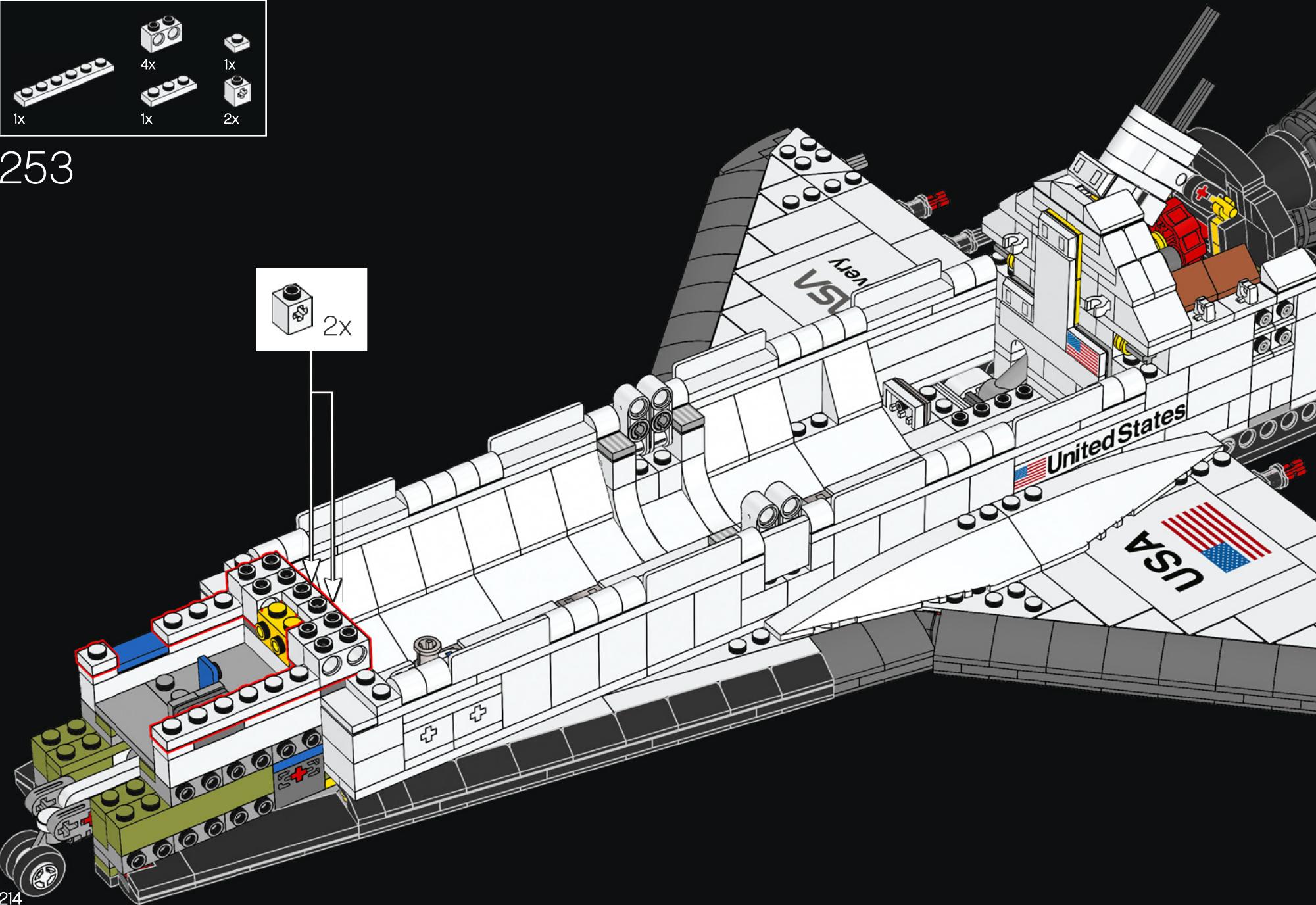


252

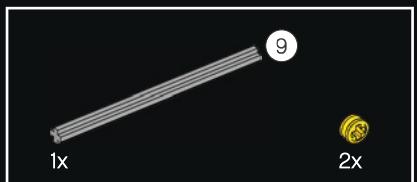




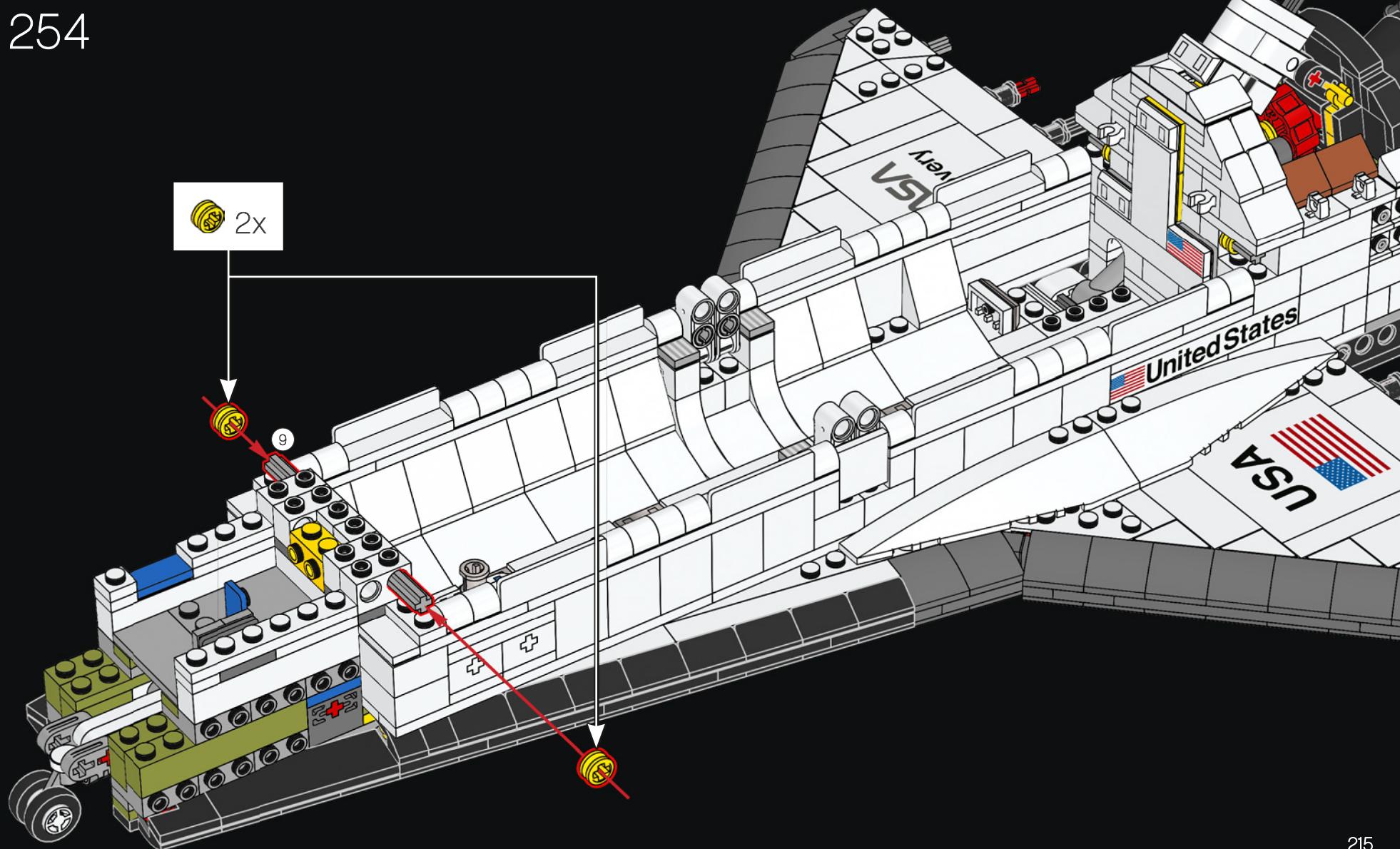
253



214



254



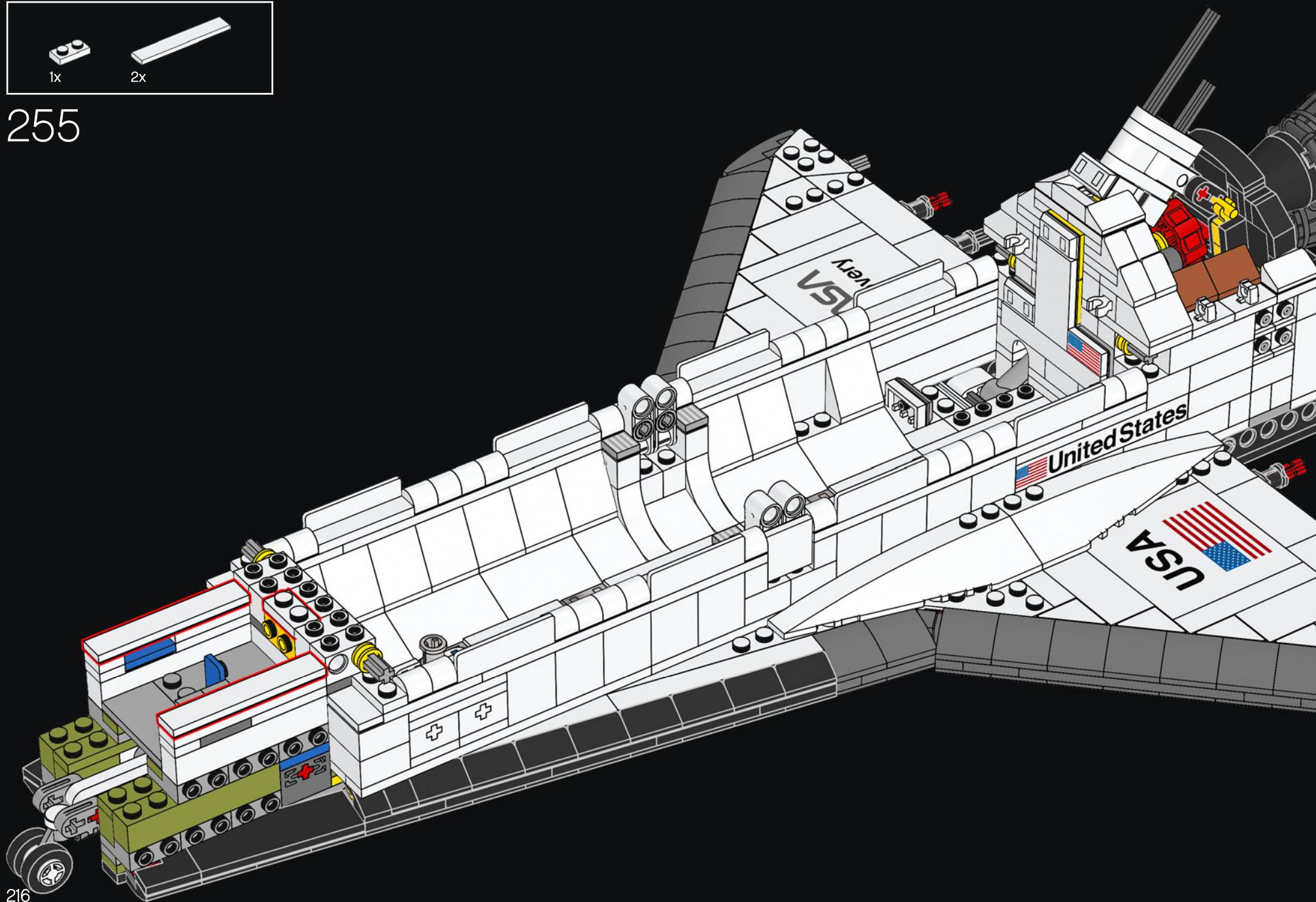


1x



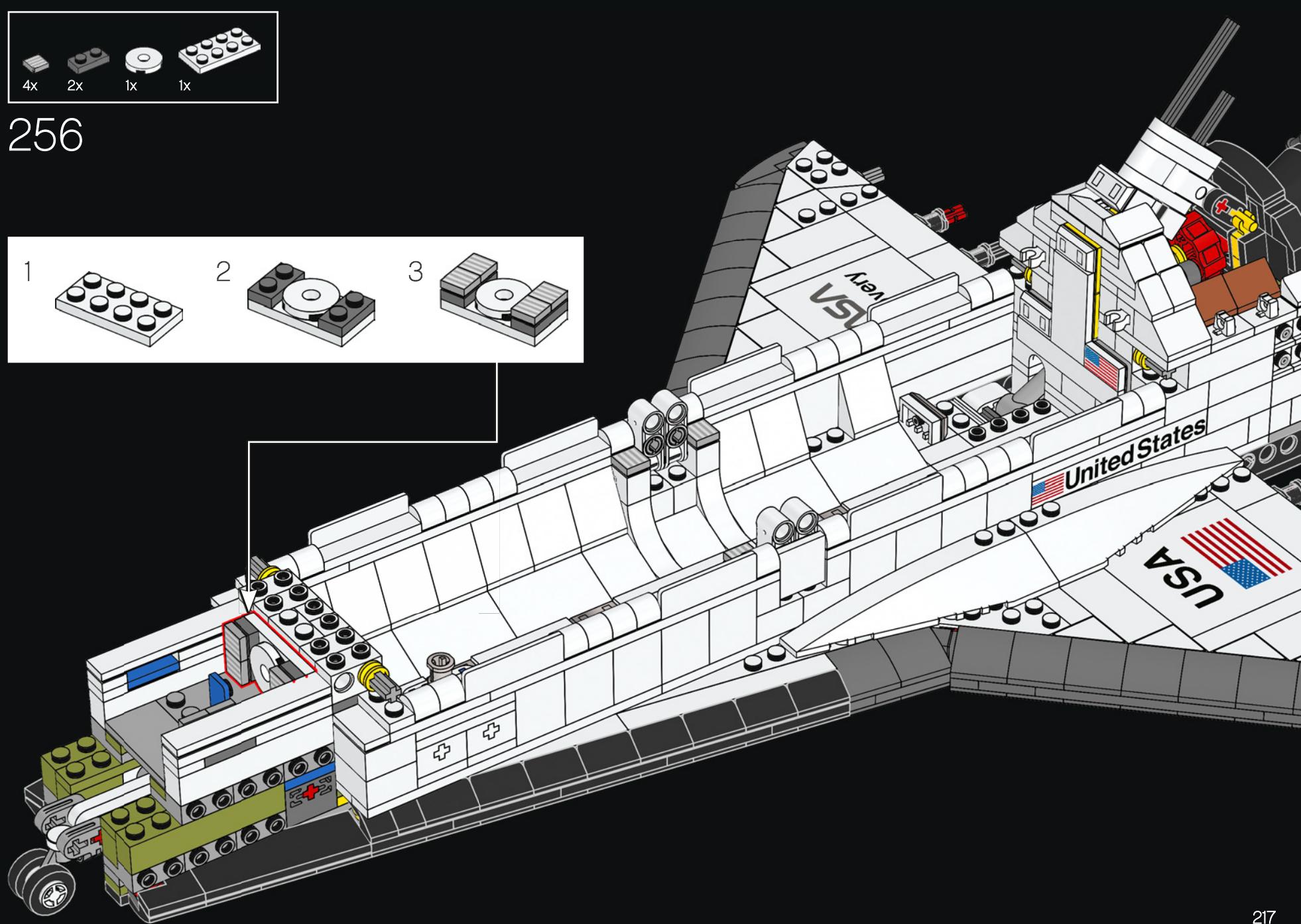
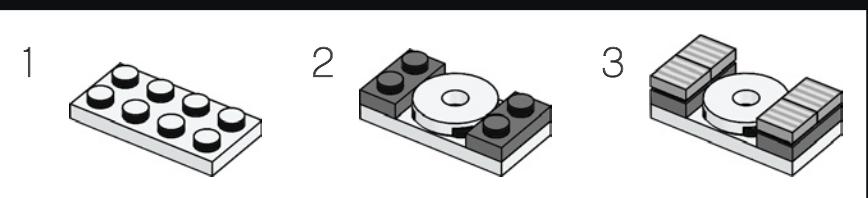
2x

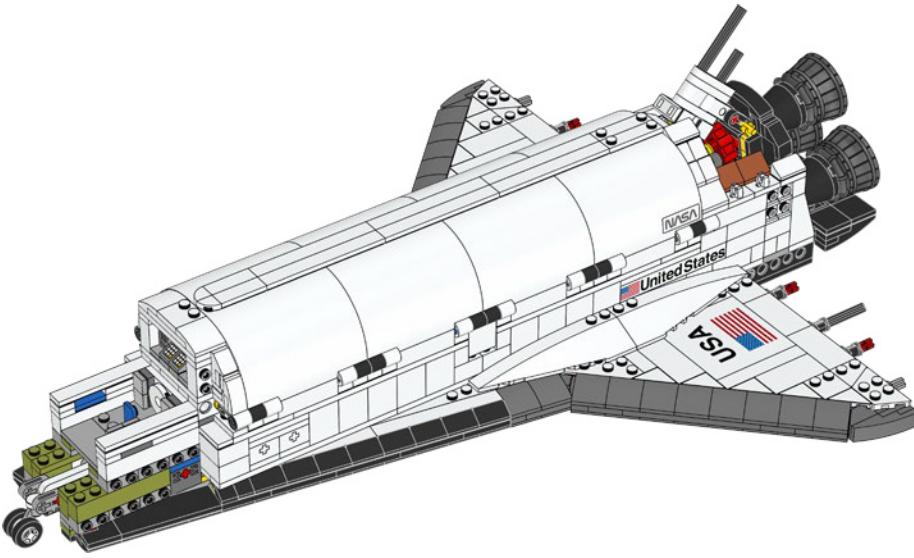
255



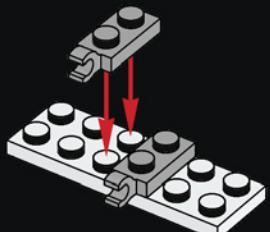


256

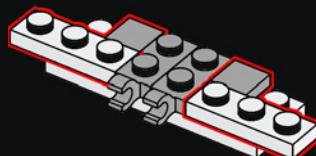




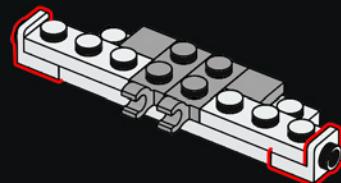
257



258

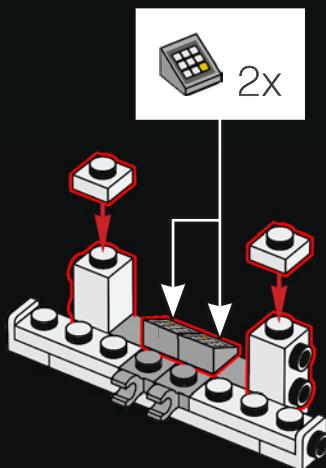


259

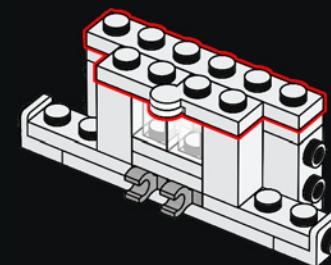




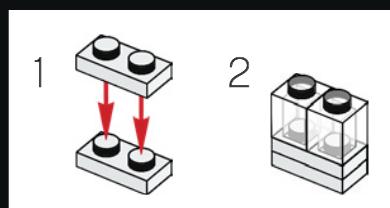
260



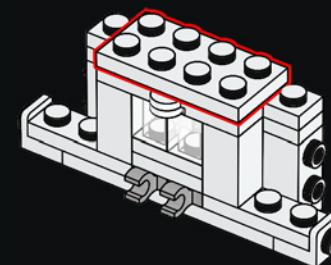
262



261

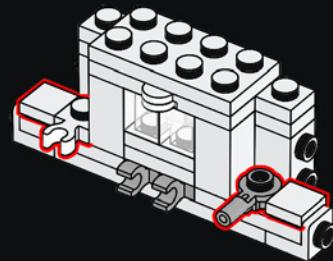


263

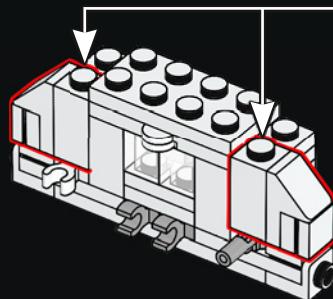
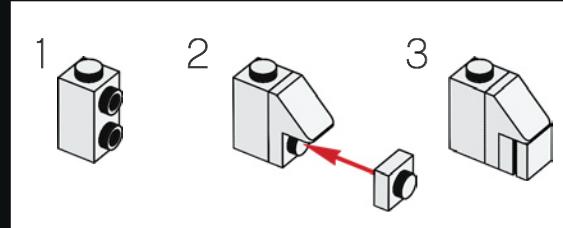




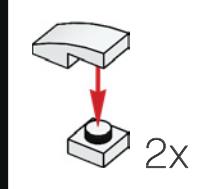
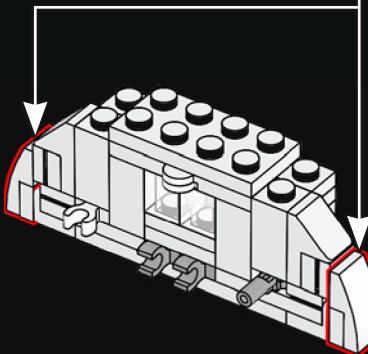
264



265



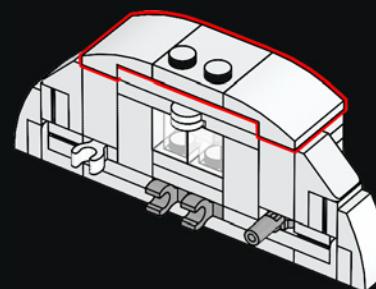
266



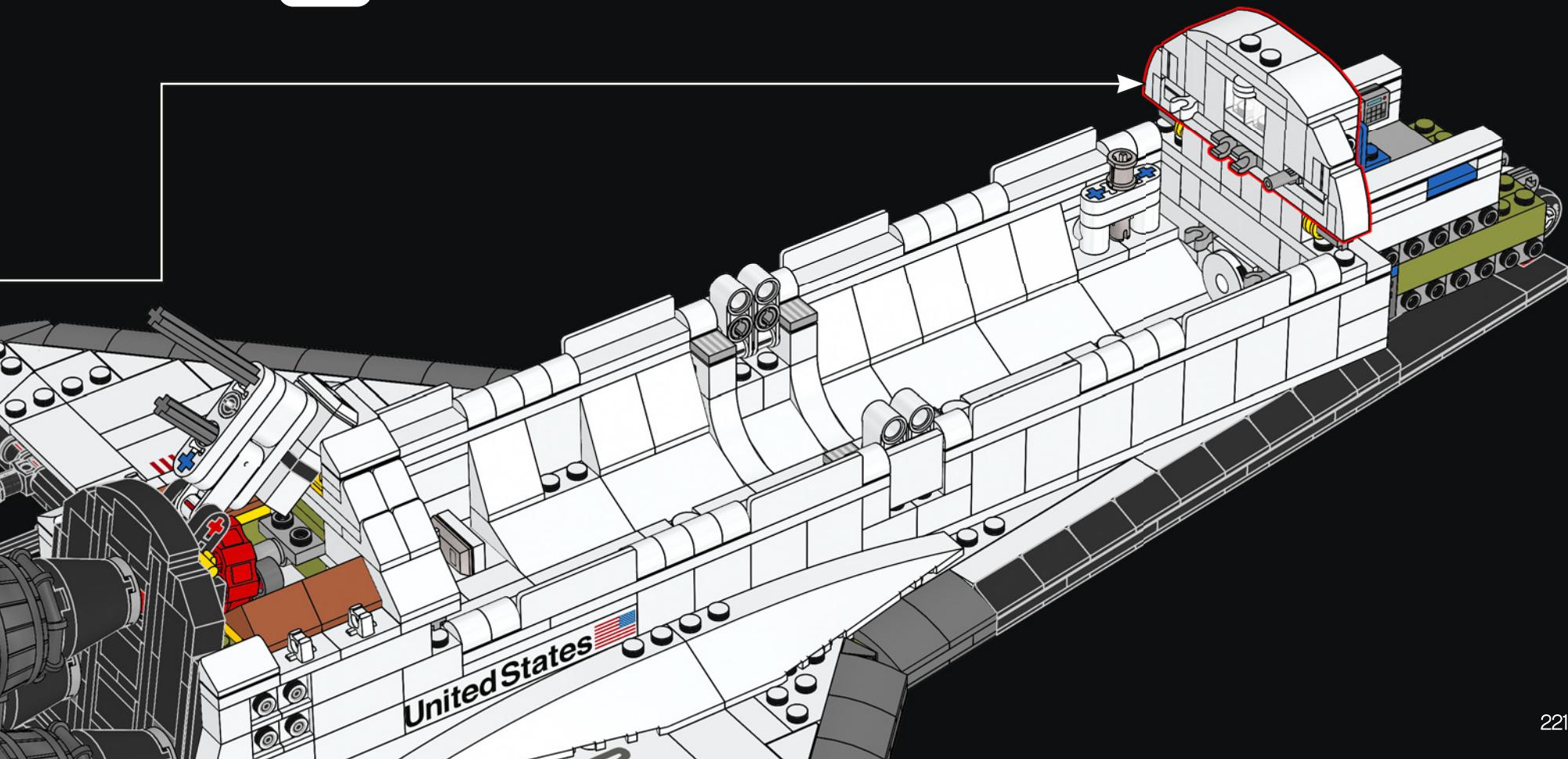
2x



267



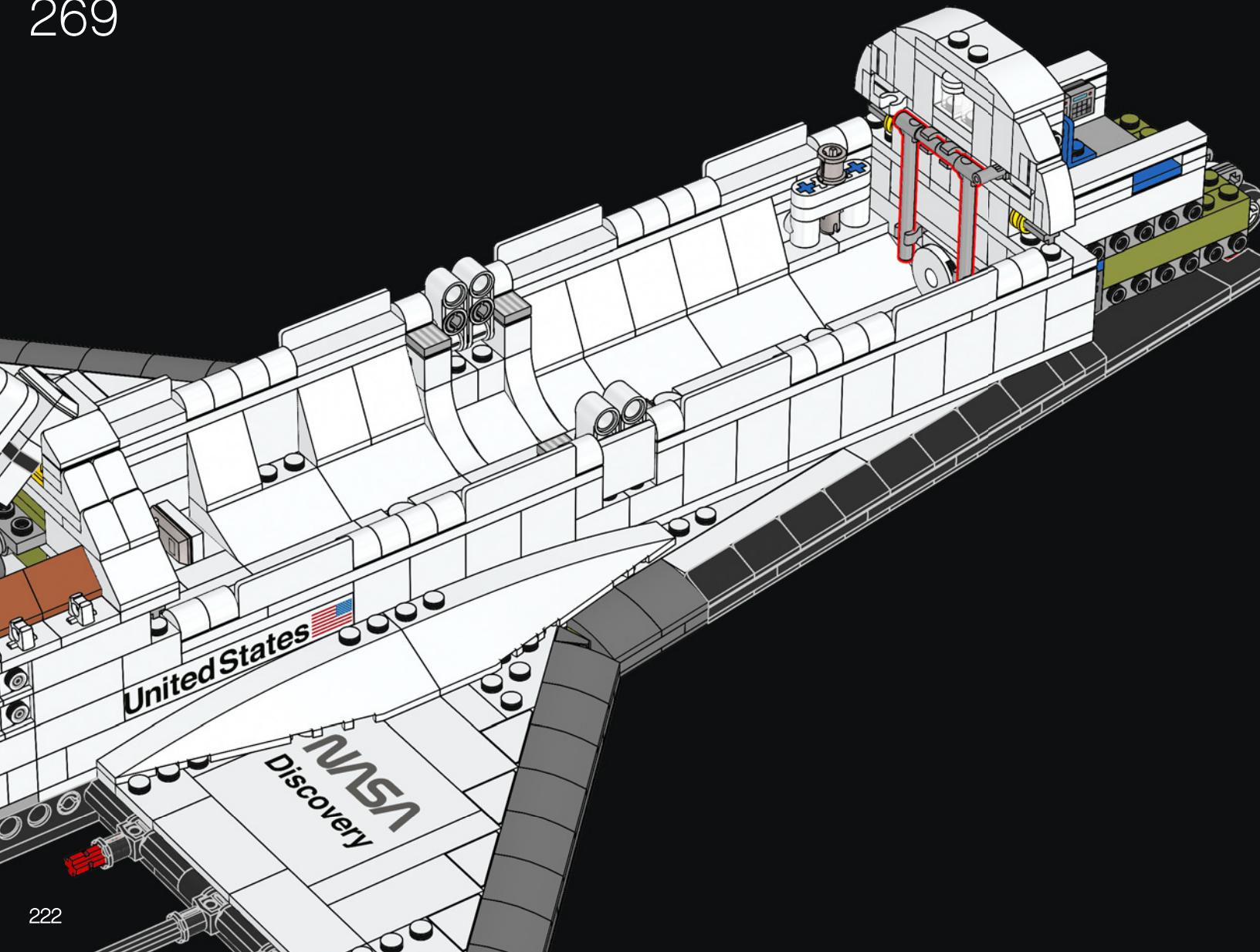
268





2x

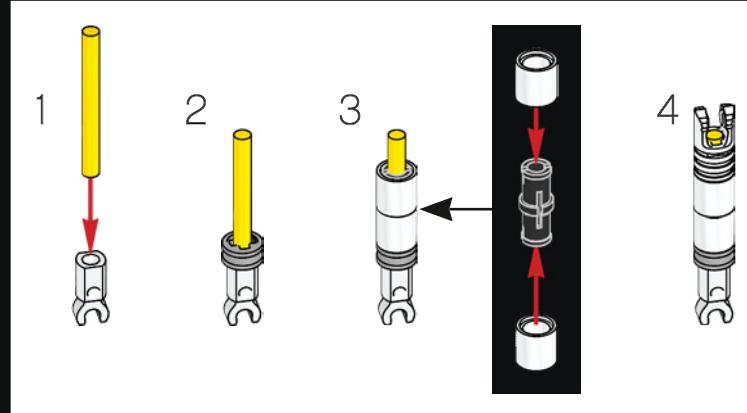
269



222

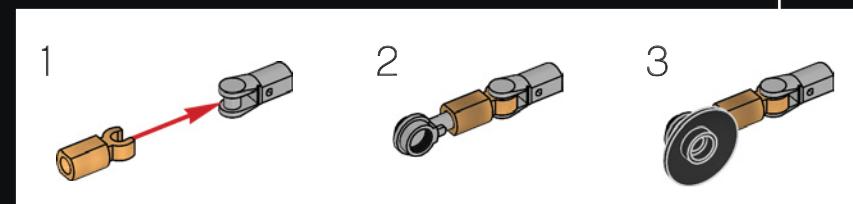
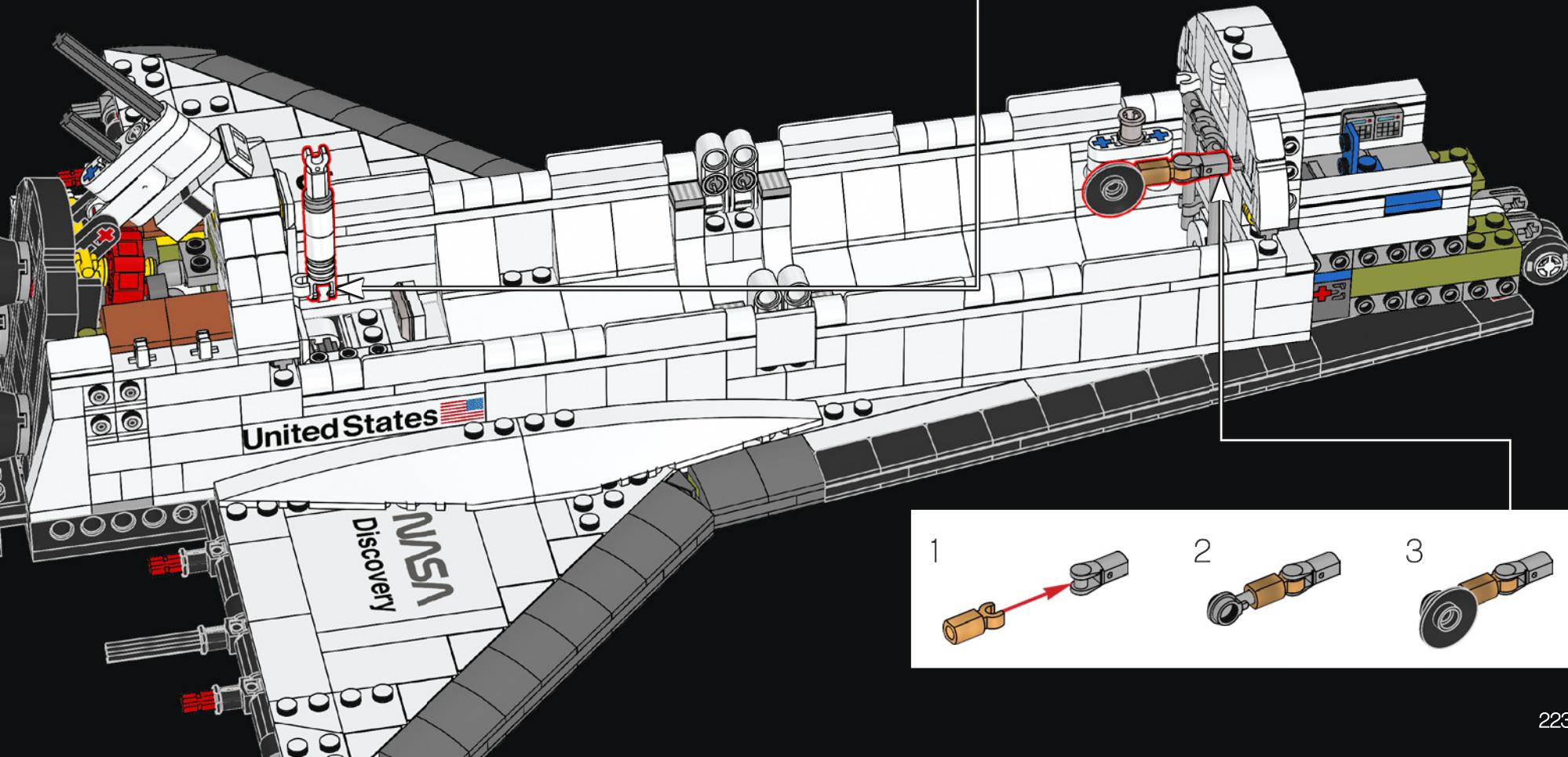


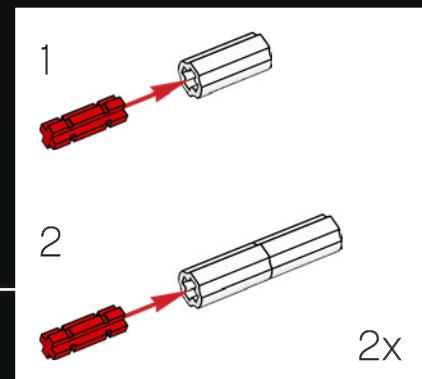
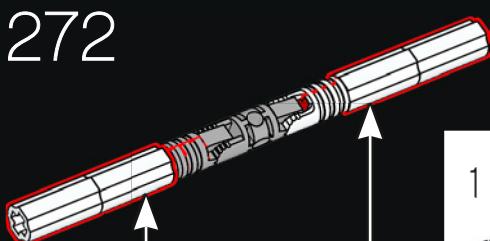
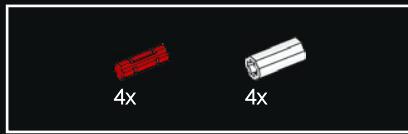
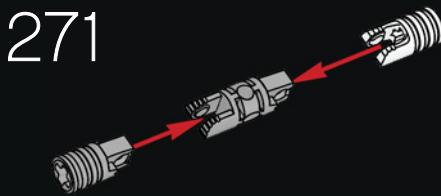
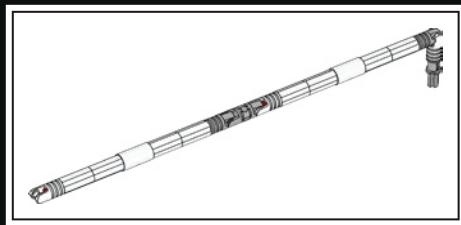
270



## ¿LO SABÍAS?

La antena de banda Ku se despliega en órbita y permite a la tripulación del transbordador comunicarse con la Tierra.





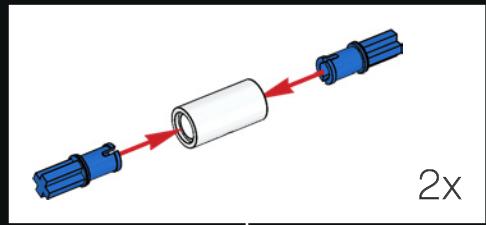
224



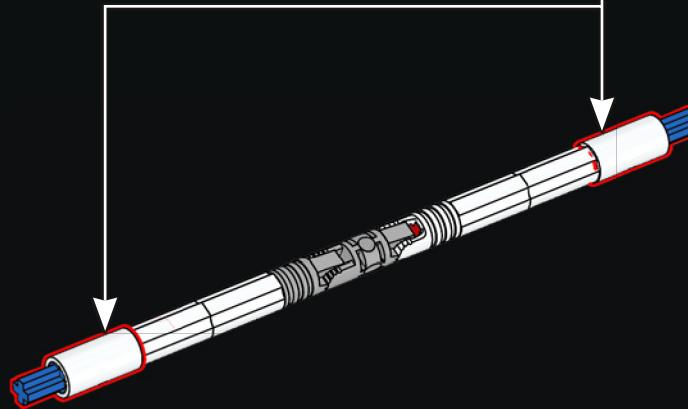
273



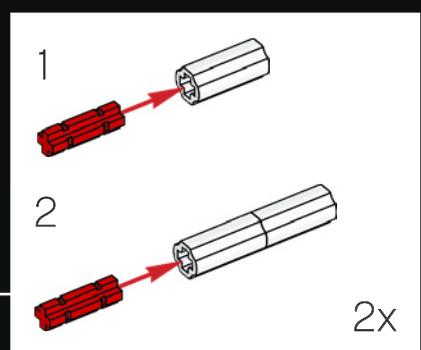
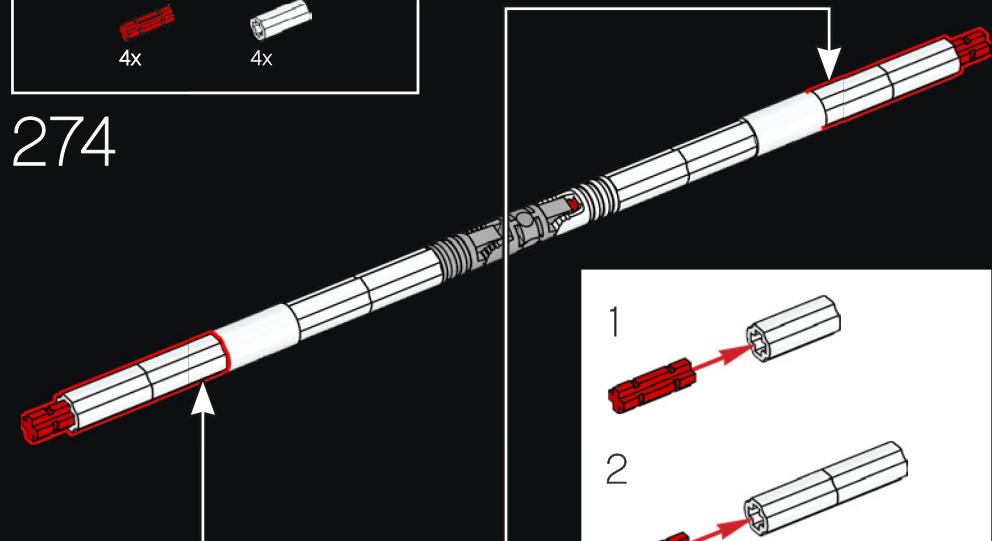
2x



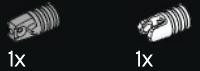
2x



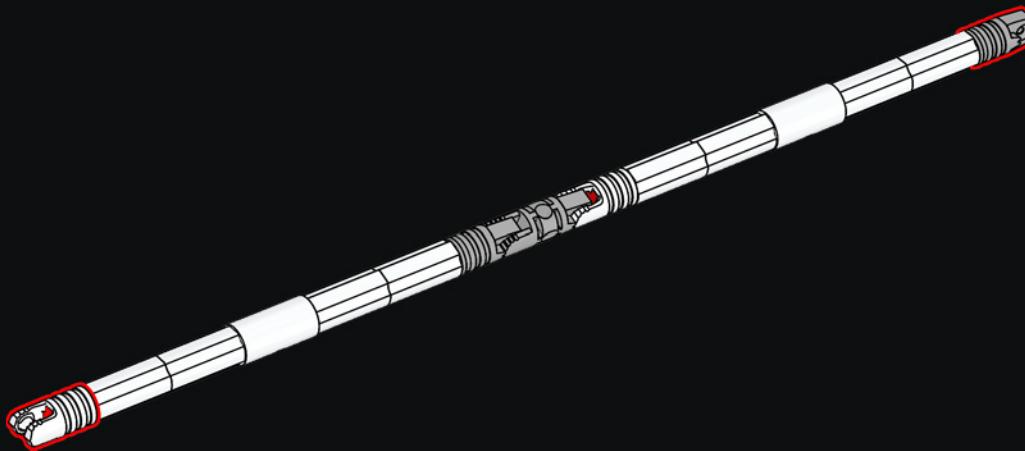
274



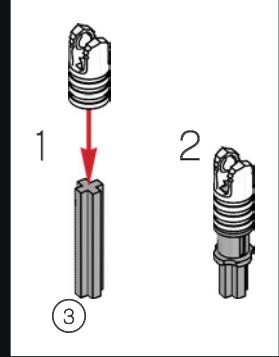
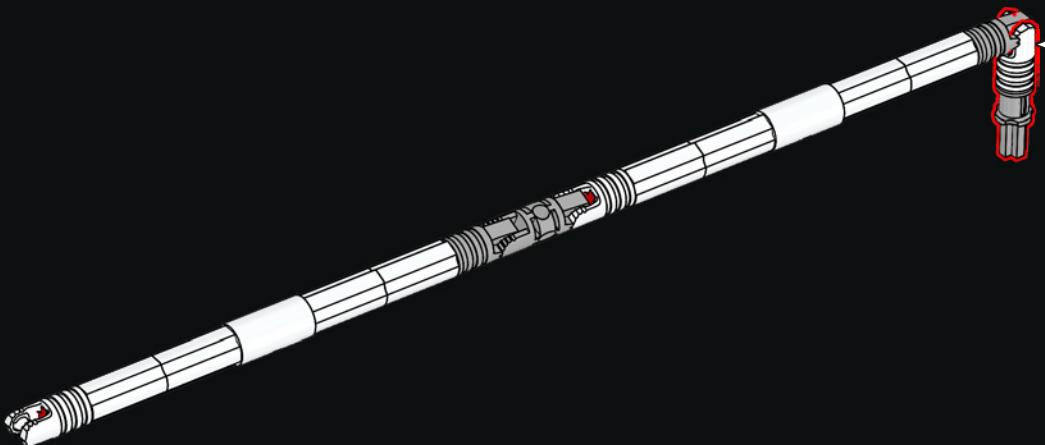
2x



275



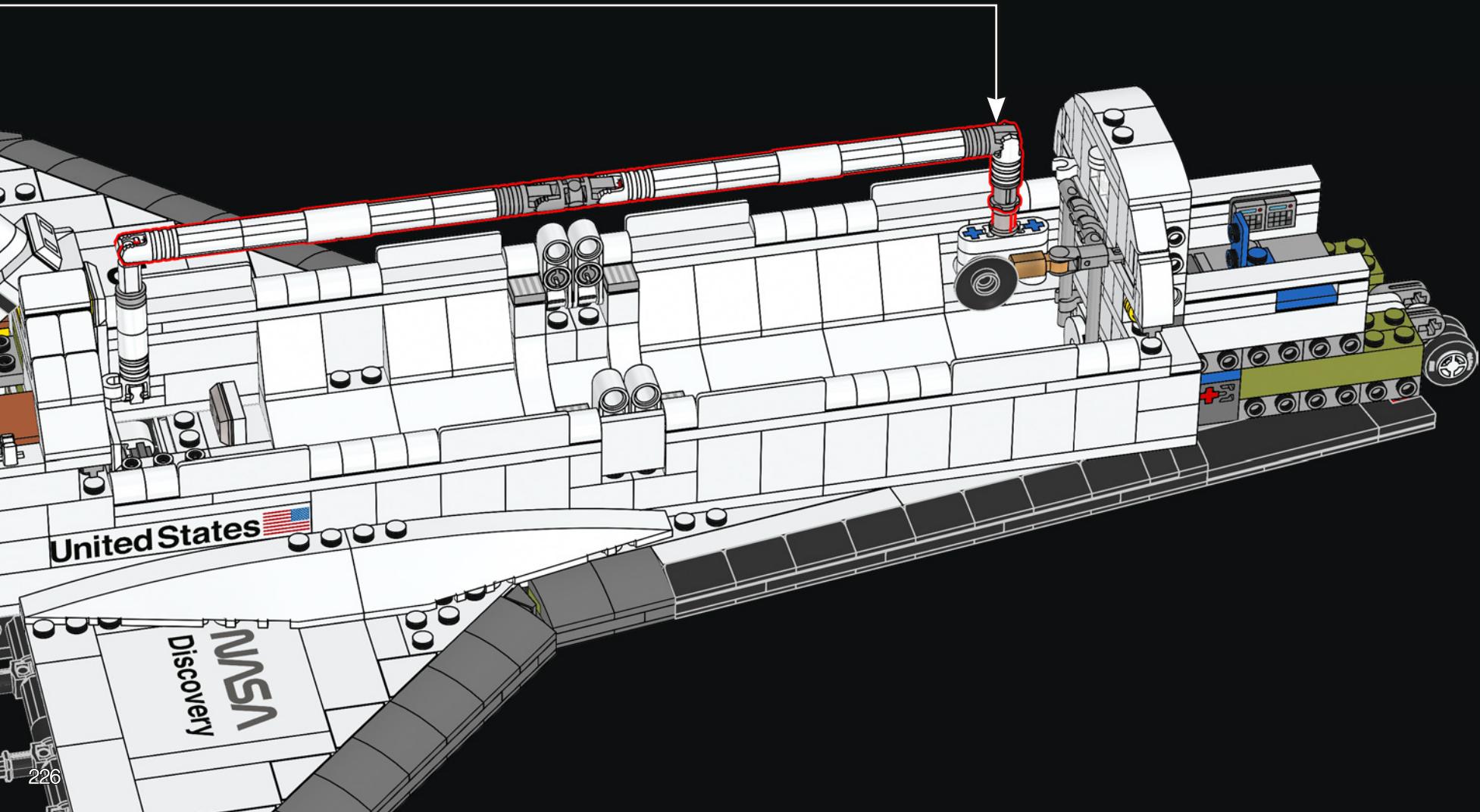
276



## ¿LO SABÍAS?

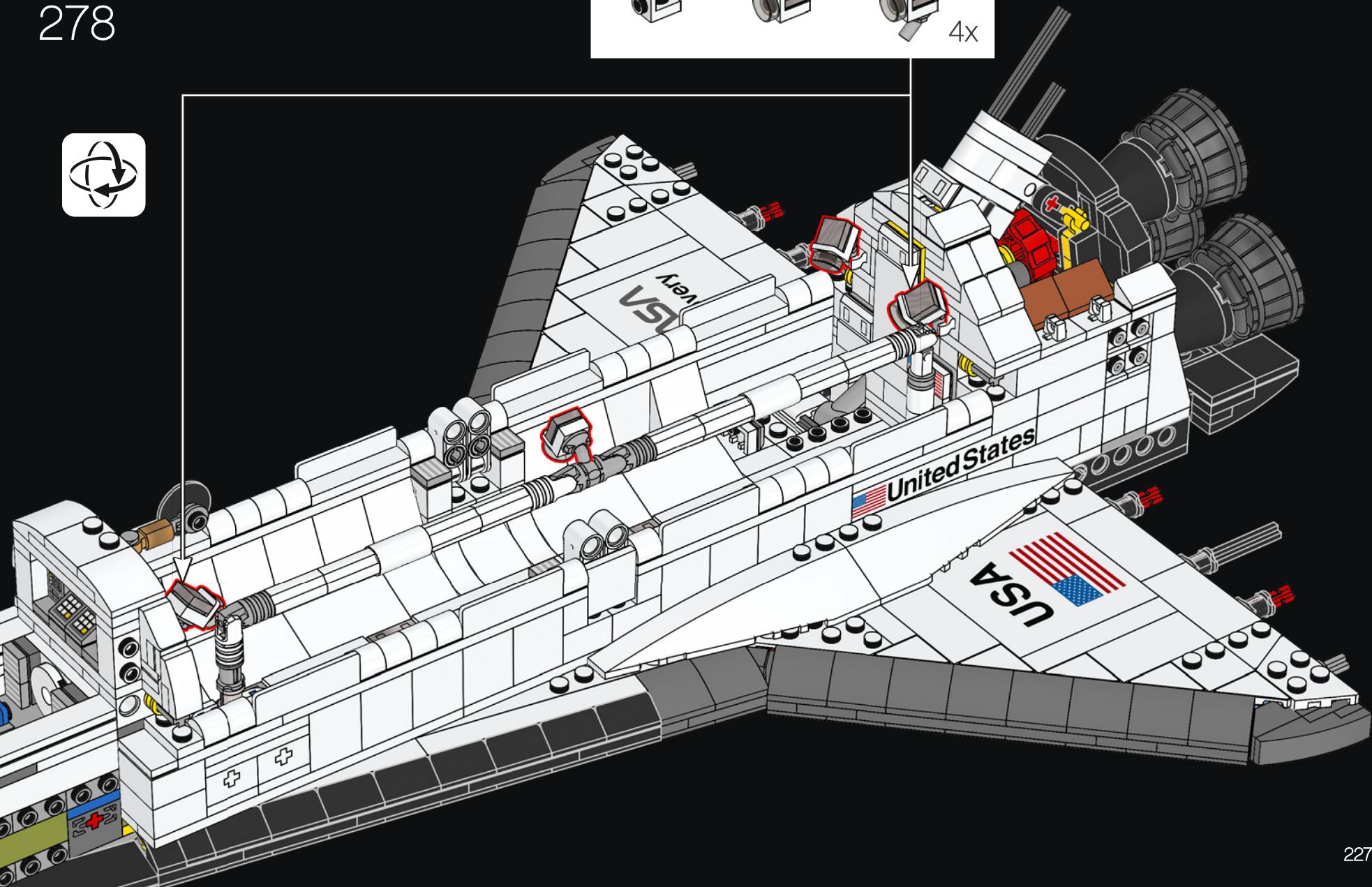
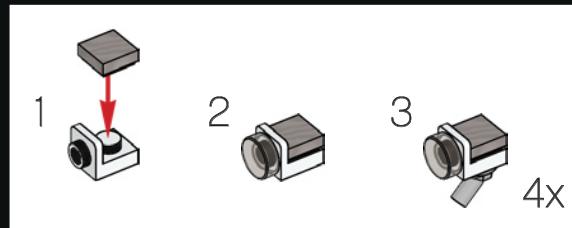
Los astronautas, desde el interior de la nave, usaban el Sistema de Manipulación Remota (RMS, por sus siglas en inglés) del transbordador para desplegar y manipular la carga en la bodega; a él se anclaban los astronautas durante los paseos espaciales.

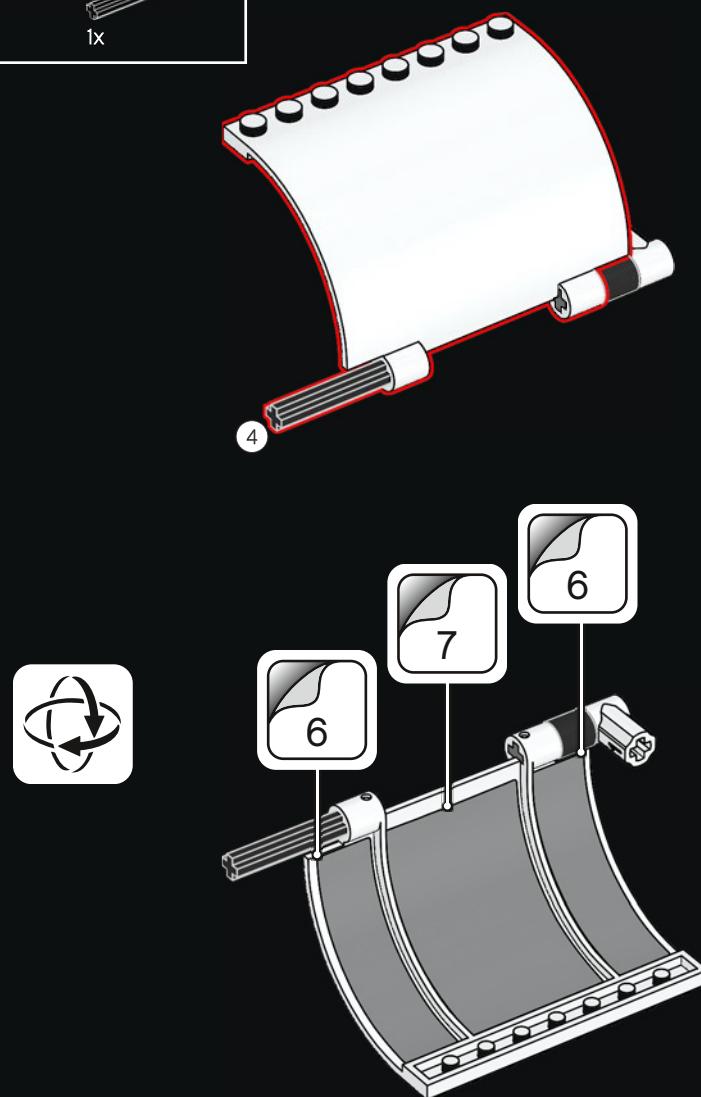
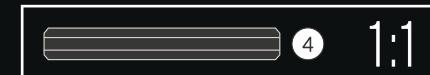
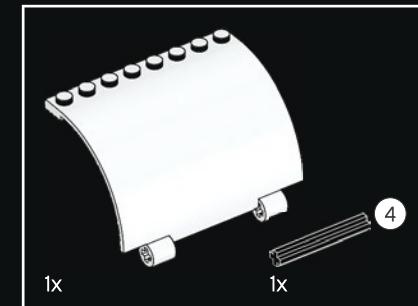
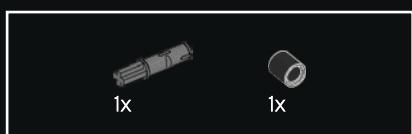
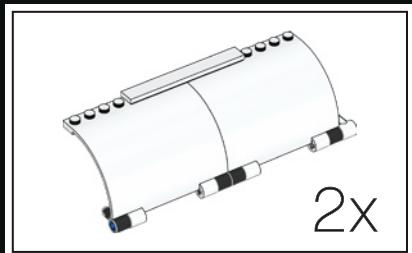
277





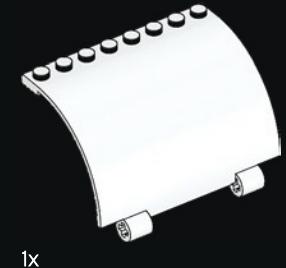
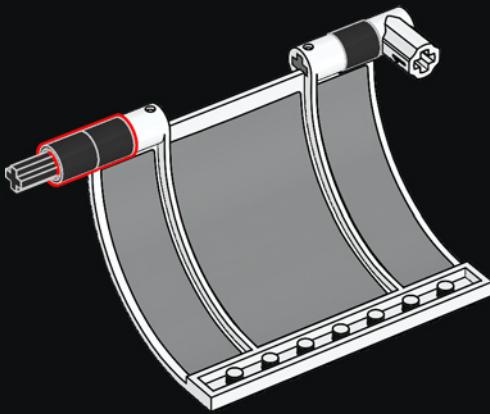
278



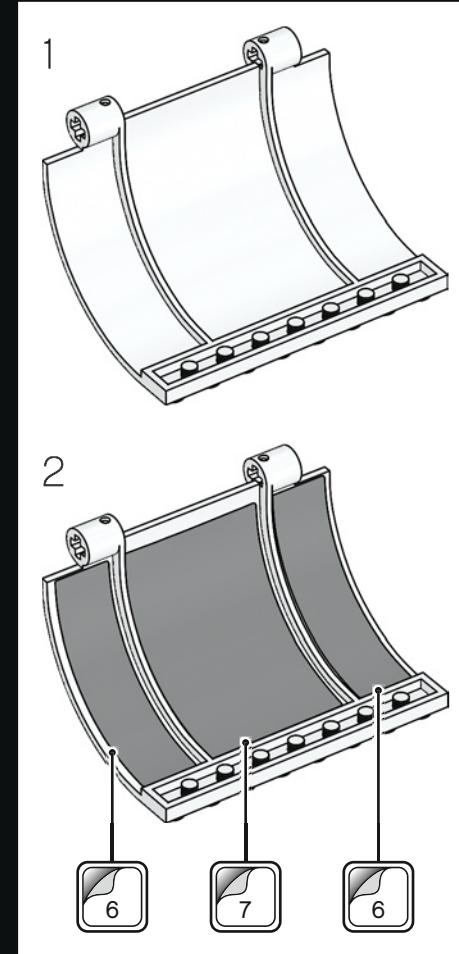
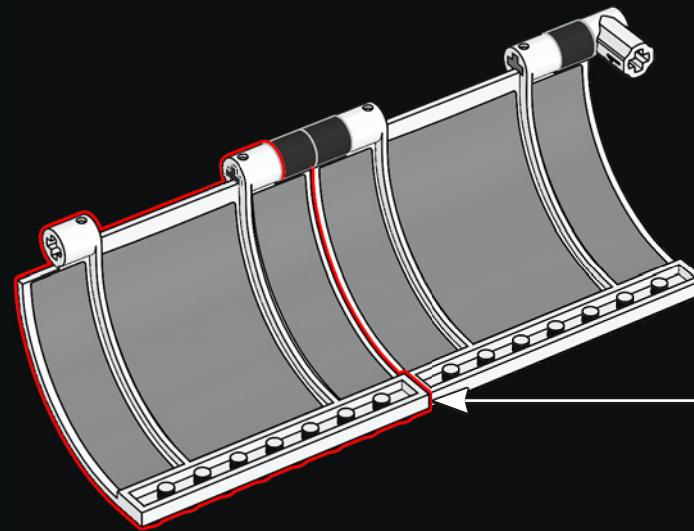




283

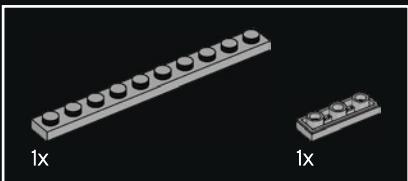
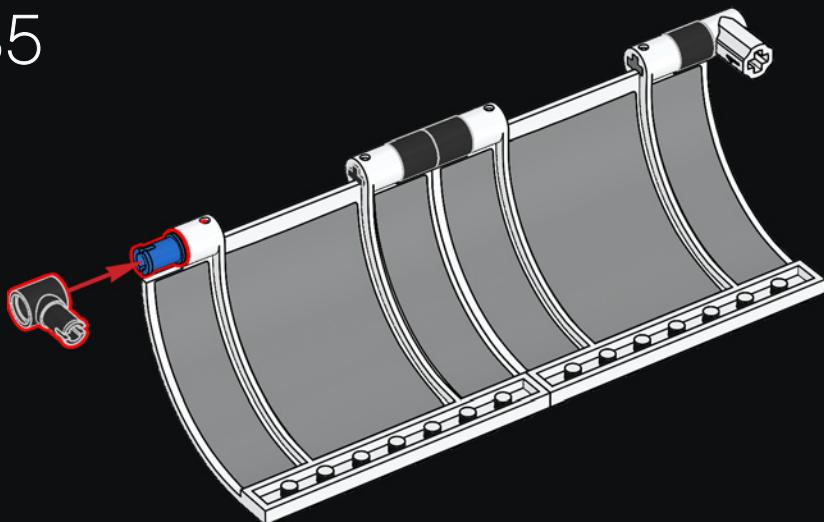


284

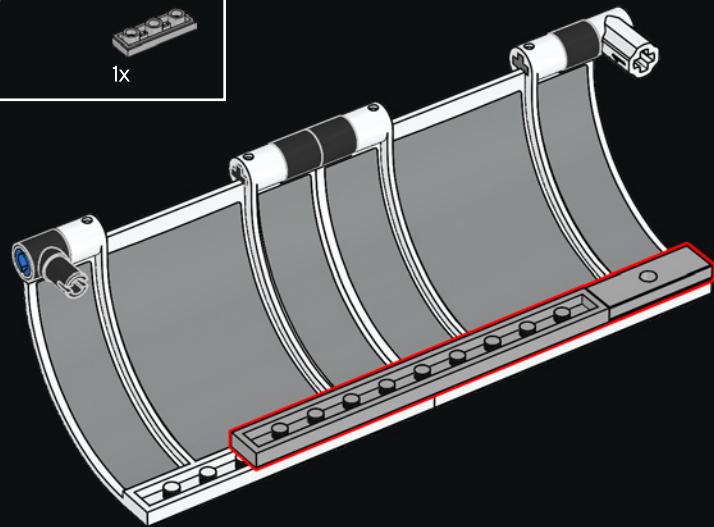




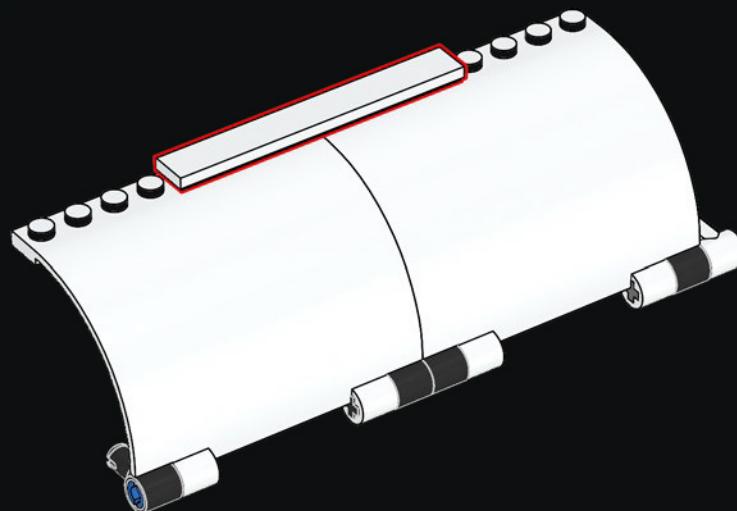
285



286

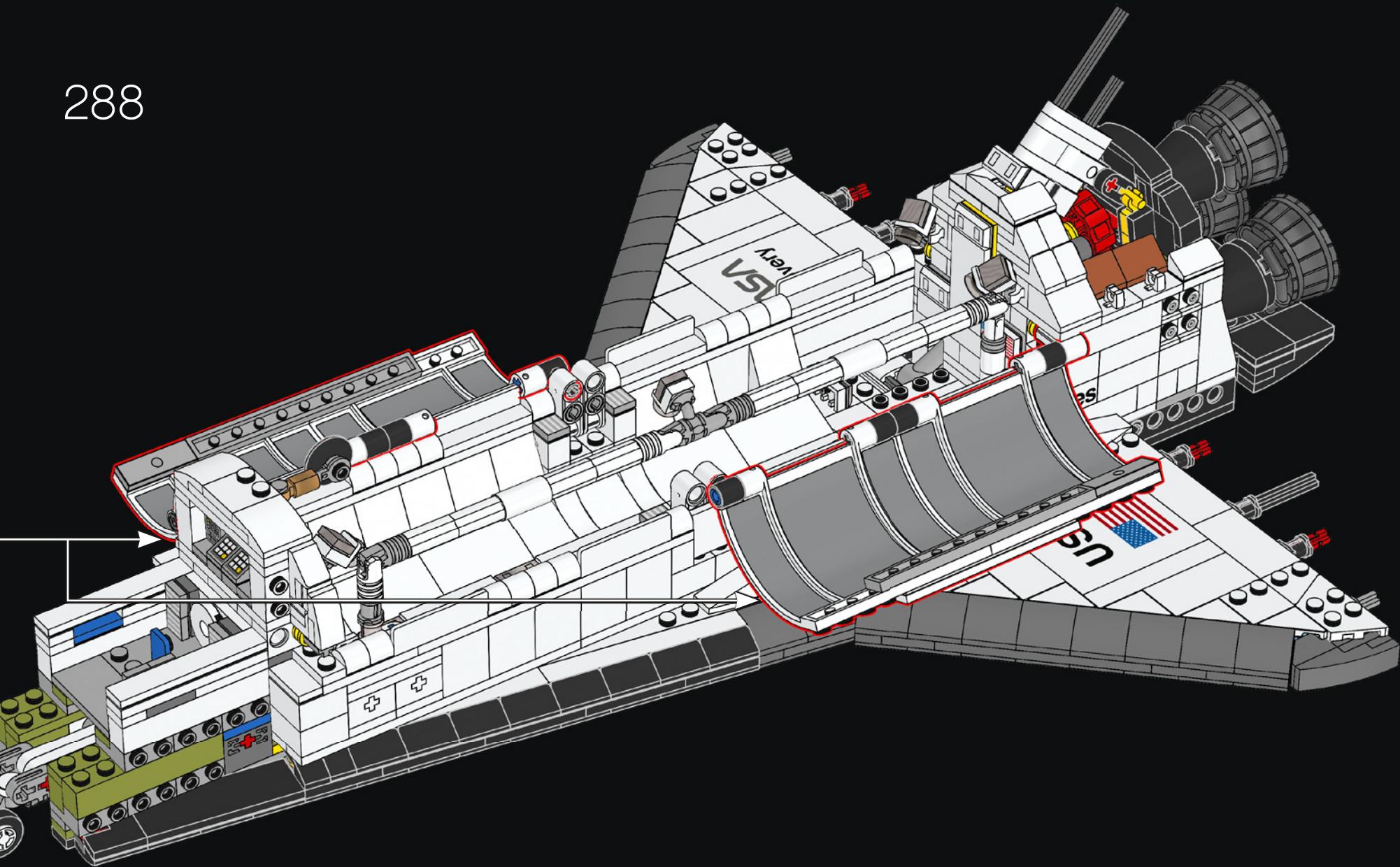


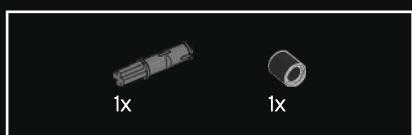
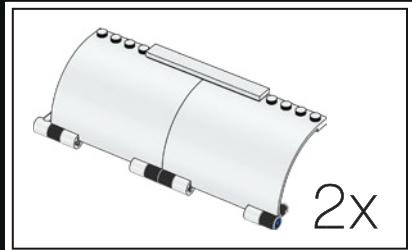
287



2X

288





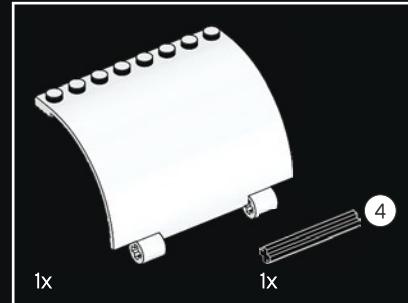
289



290



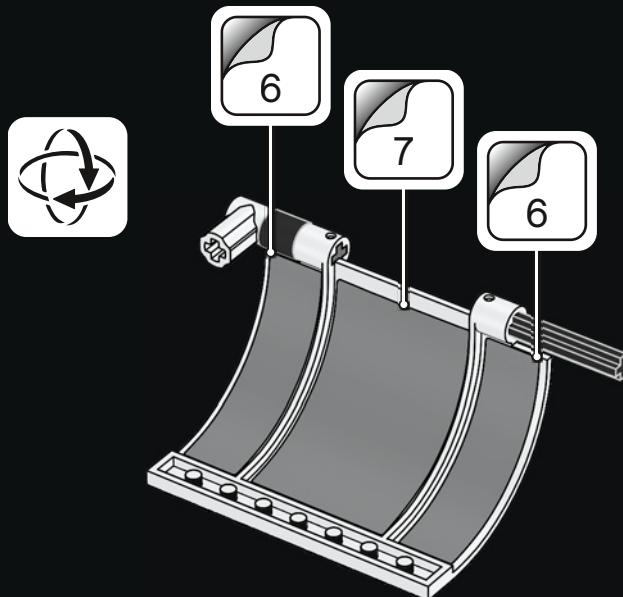
232



291

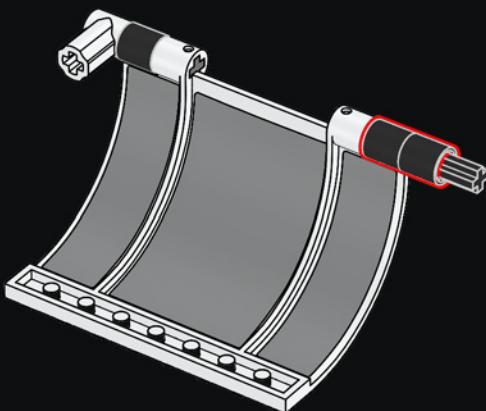


292

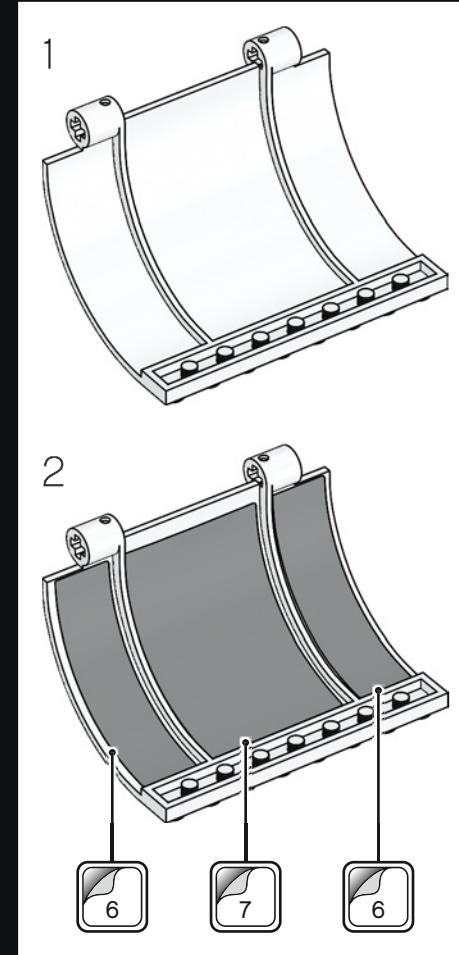
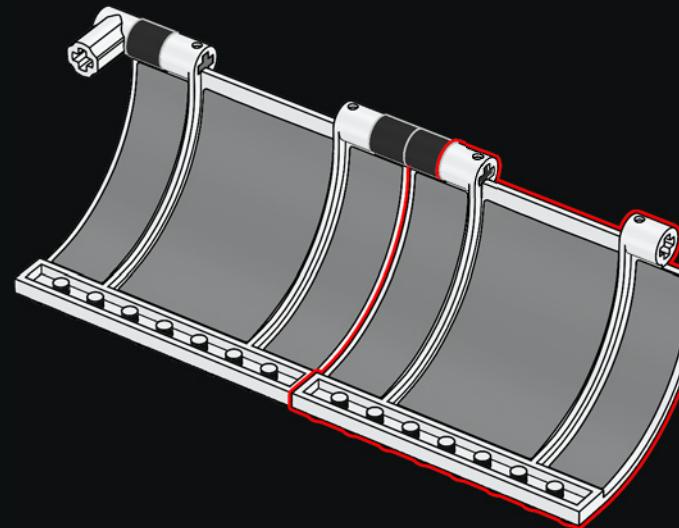




293

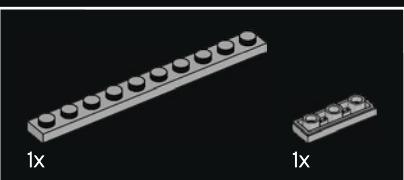
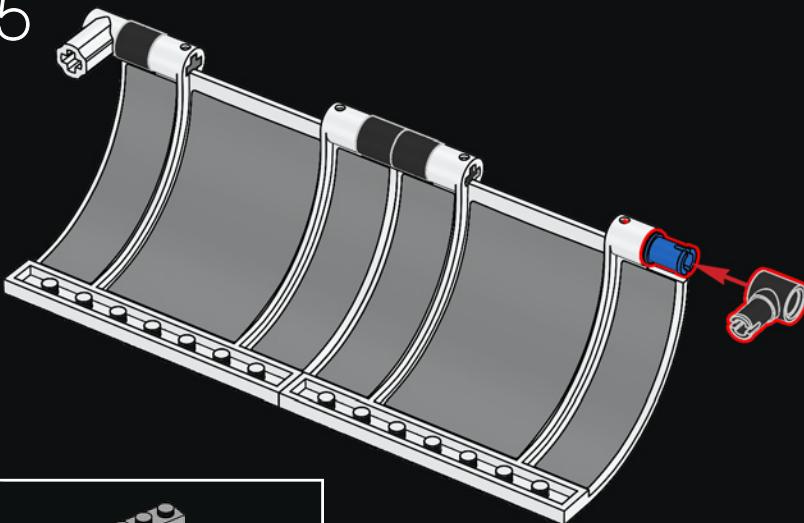


294

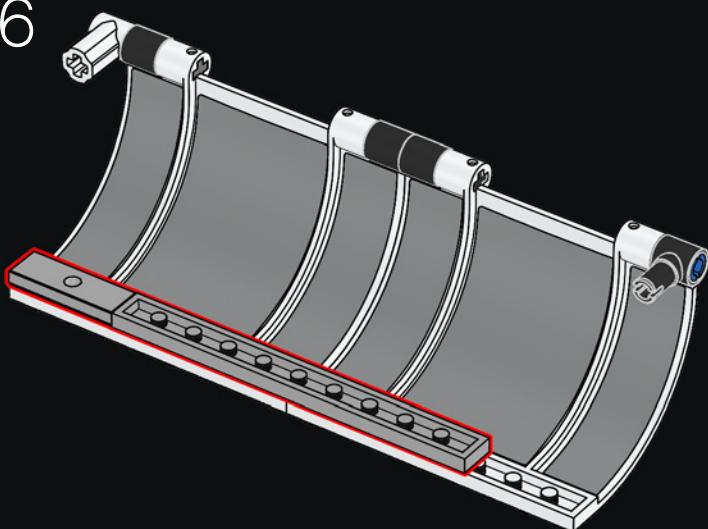




295



296

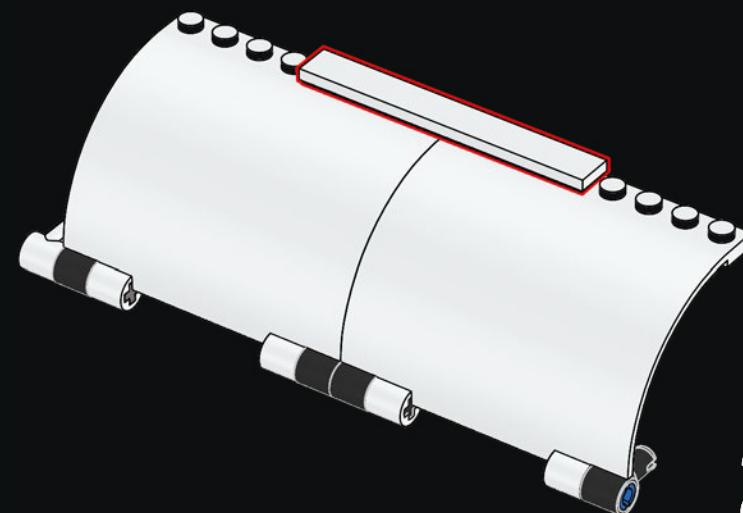


234



1x

297

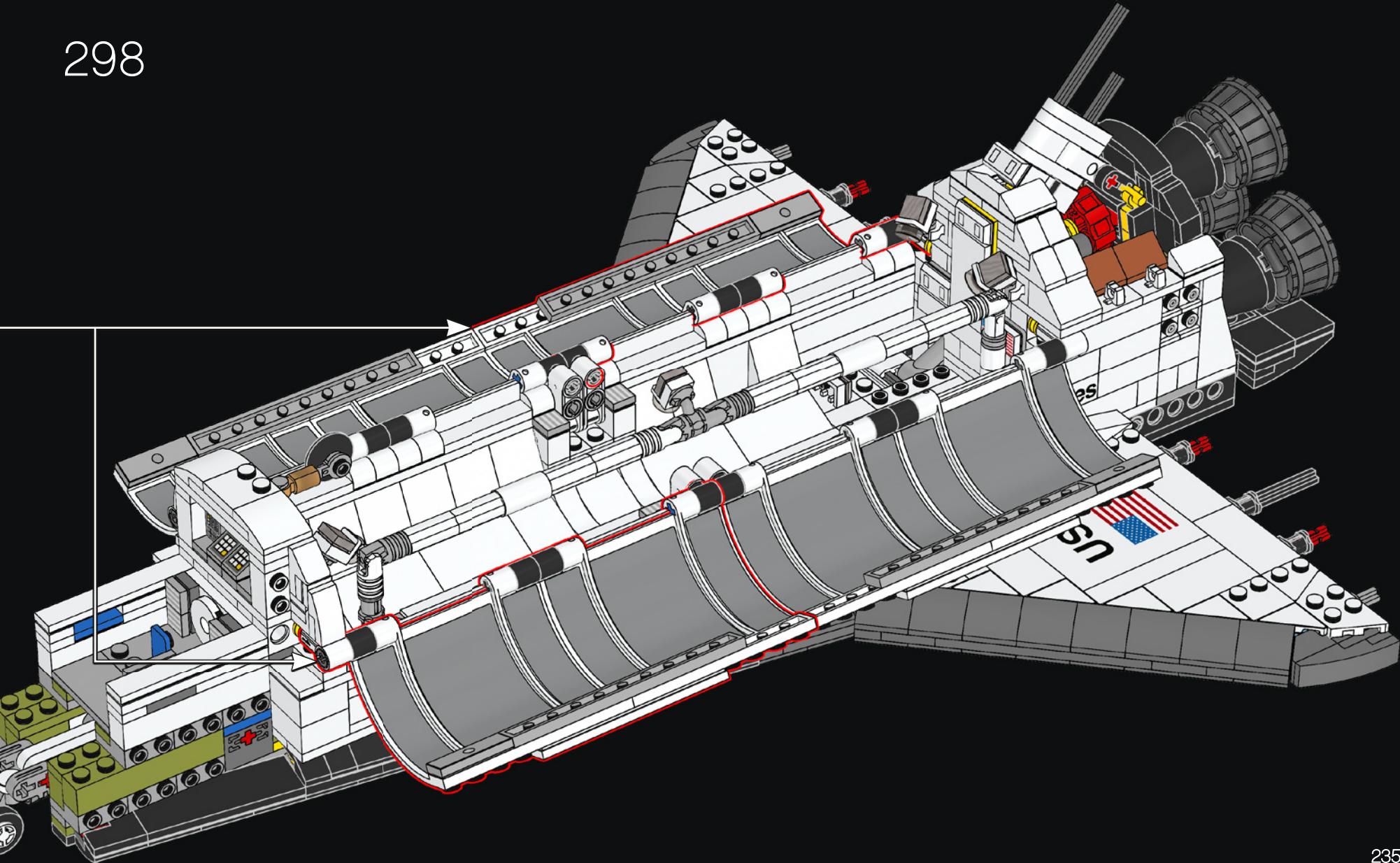


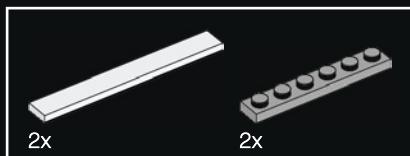
2x

## ¿LO SABÍAS?

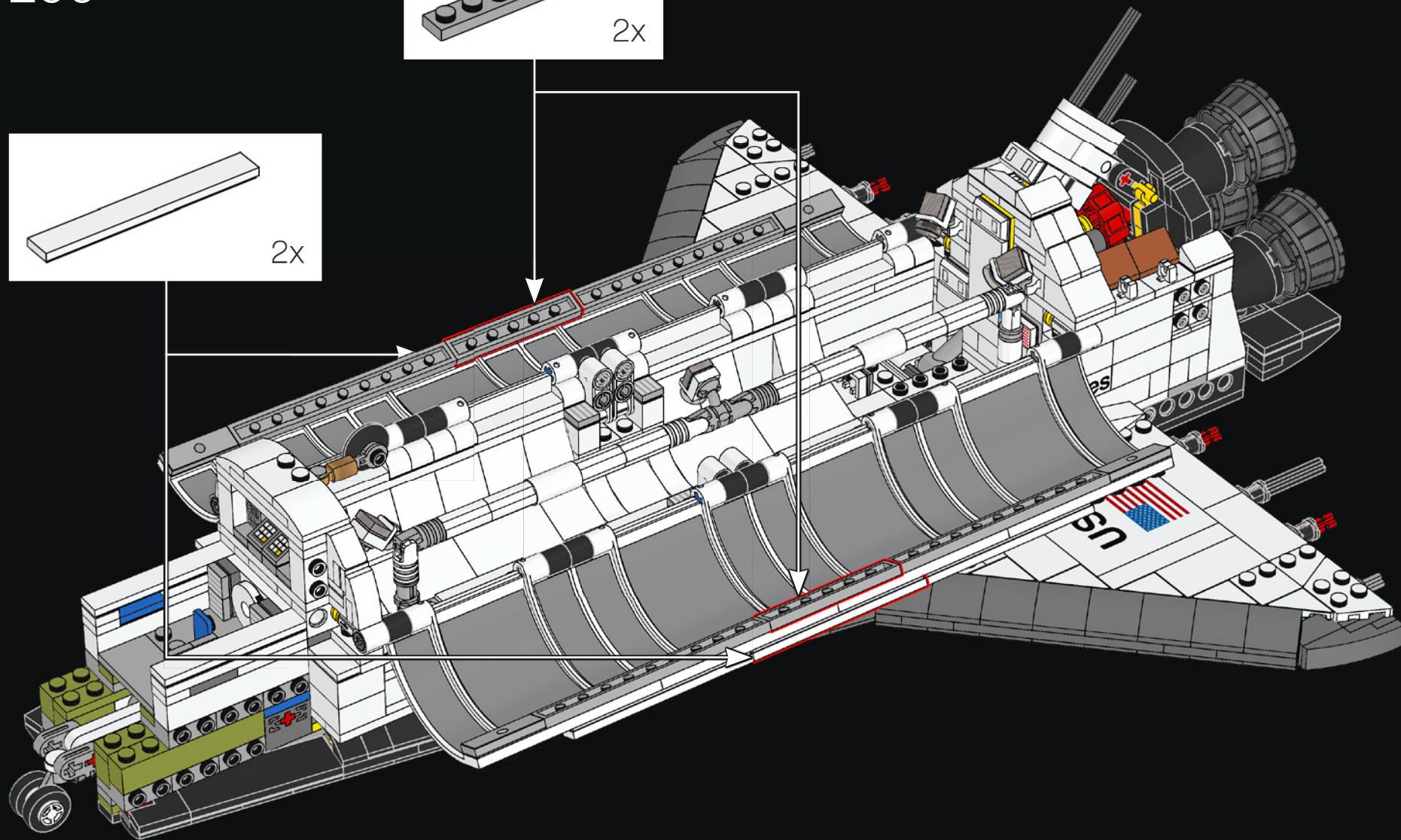
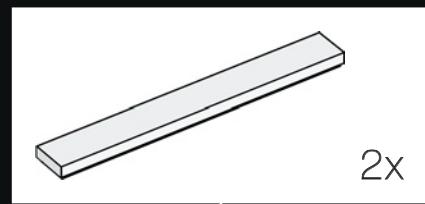
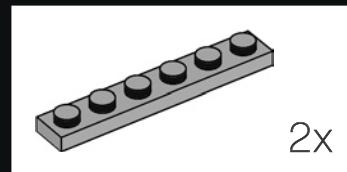
Las compuertas de la bodega de carga, de 18,2 m de longitud, siempre se abren para activar los radiadores que enfrián el transbordador una vez que se coloca en órbita.

298



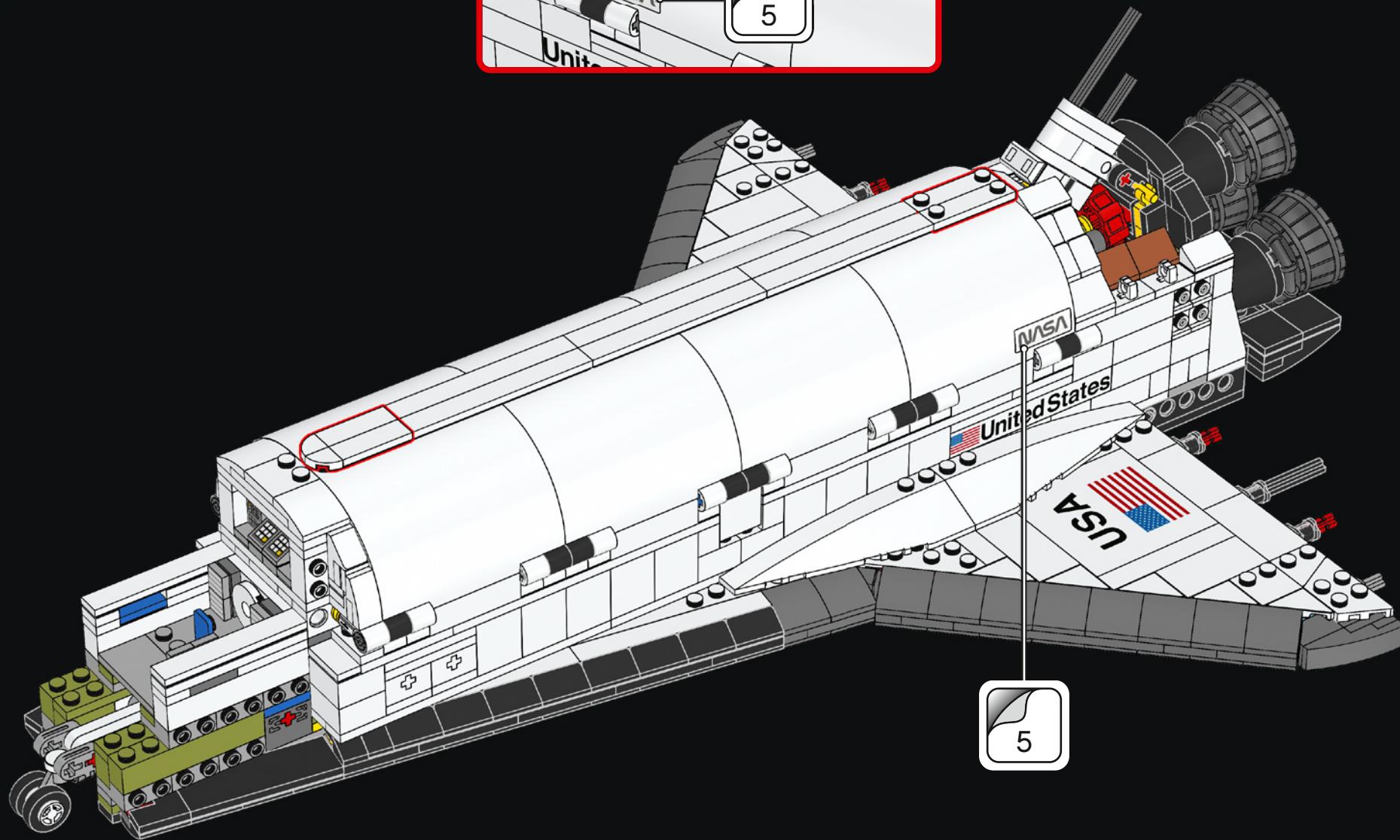
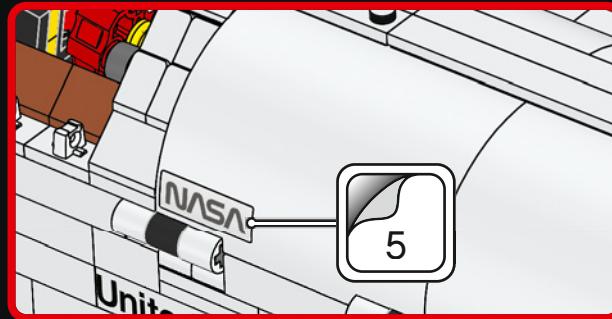


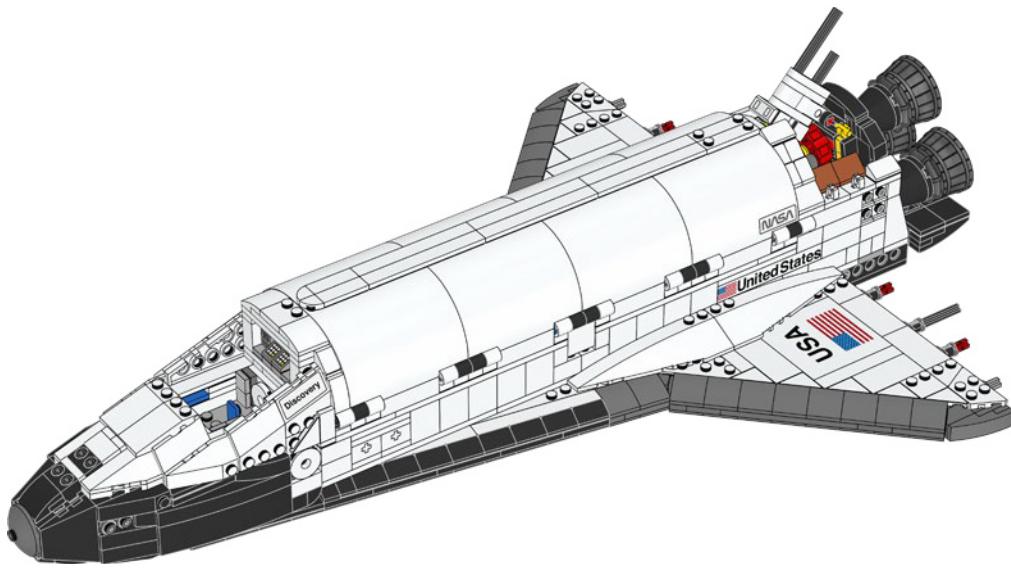
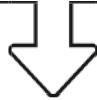
299





300





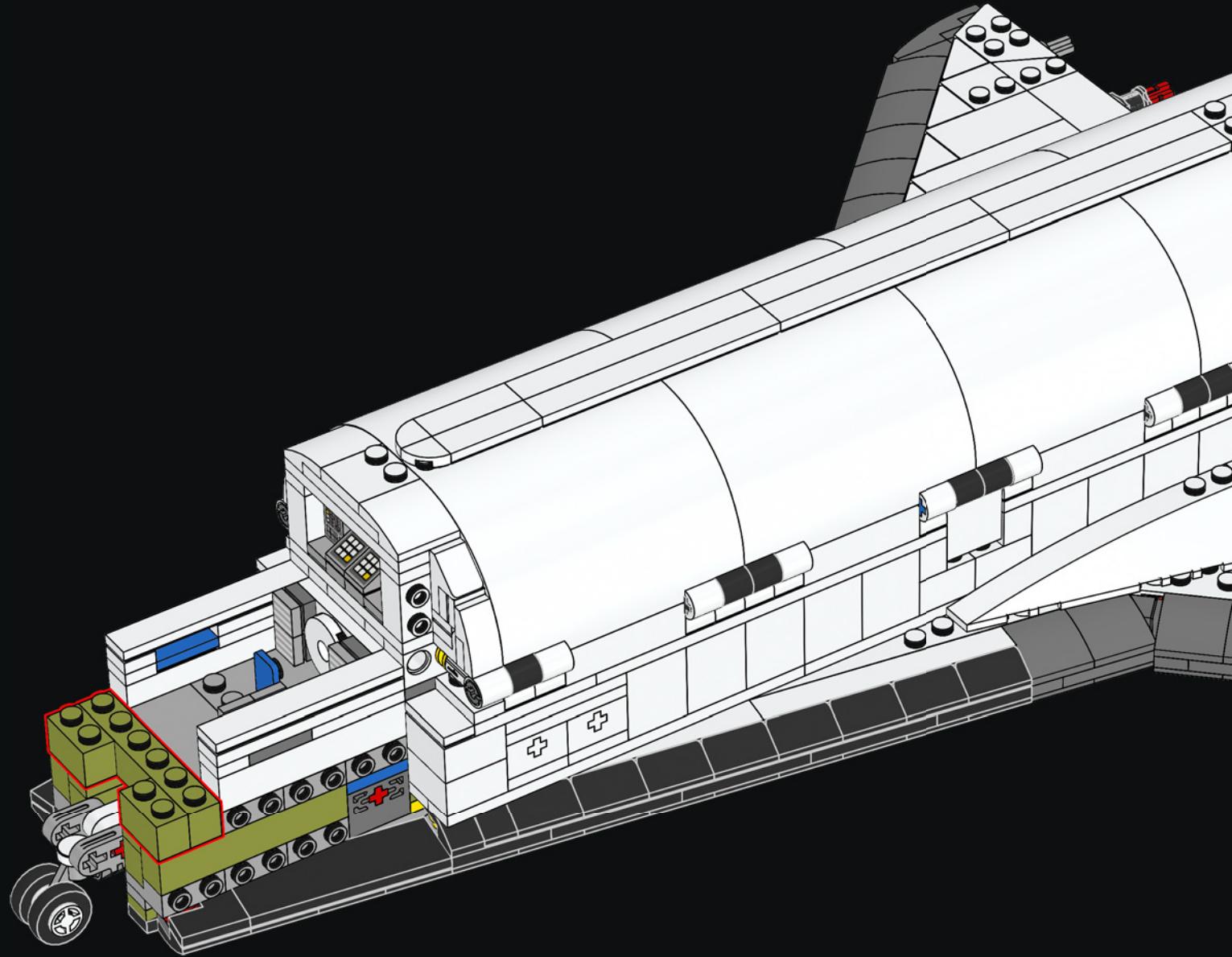


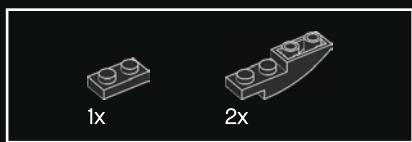
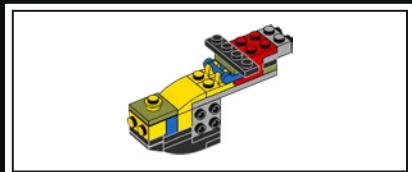
1x



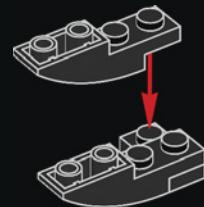
2x

301

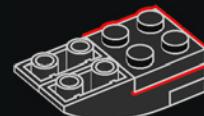




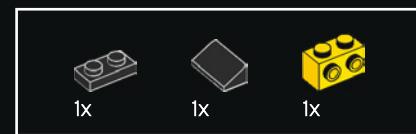
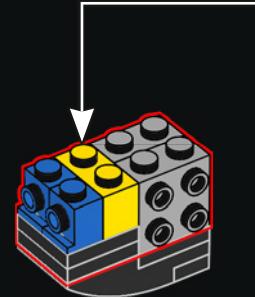
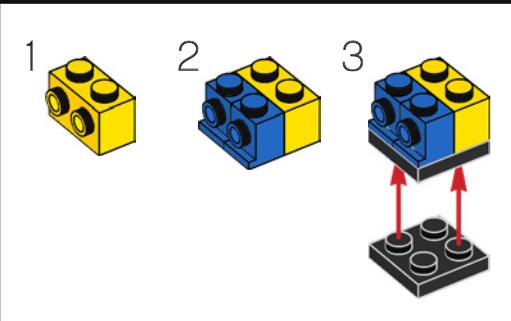
302



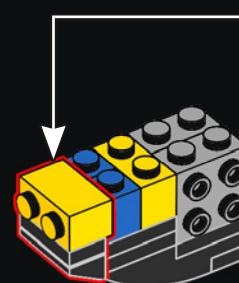
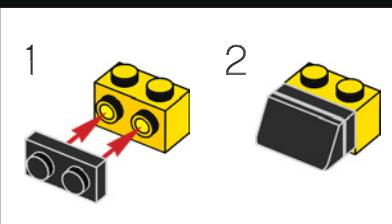
303

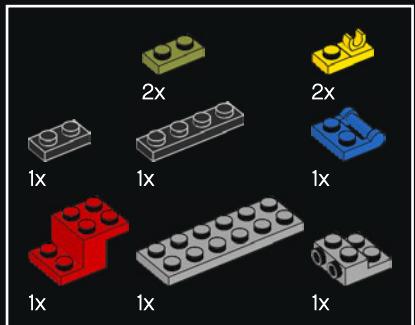


304

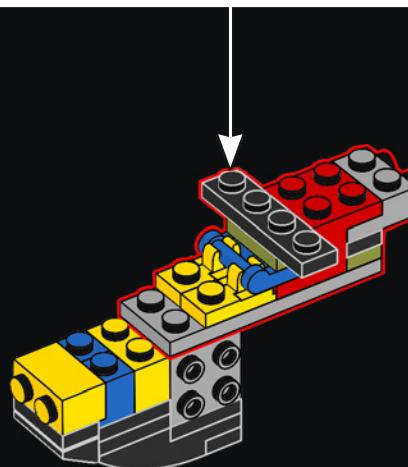
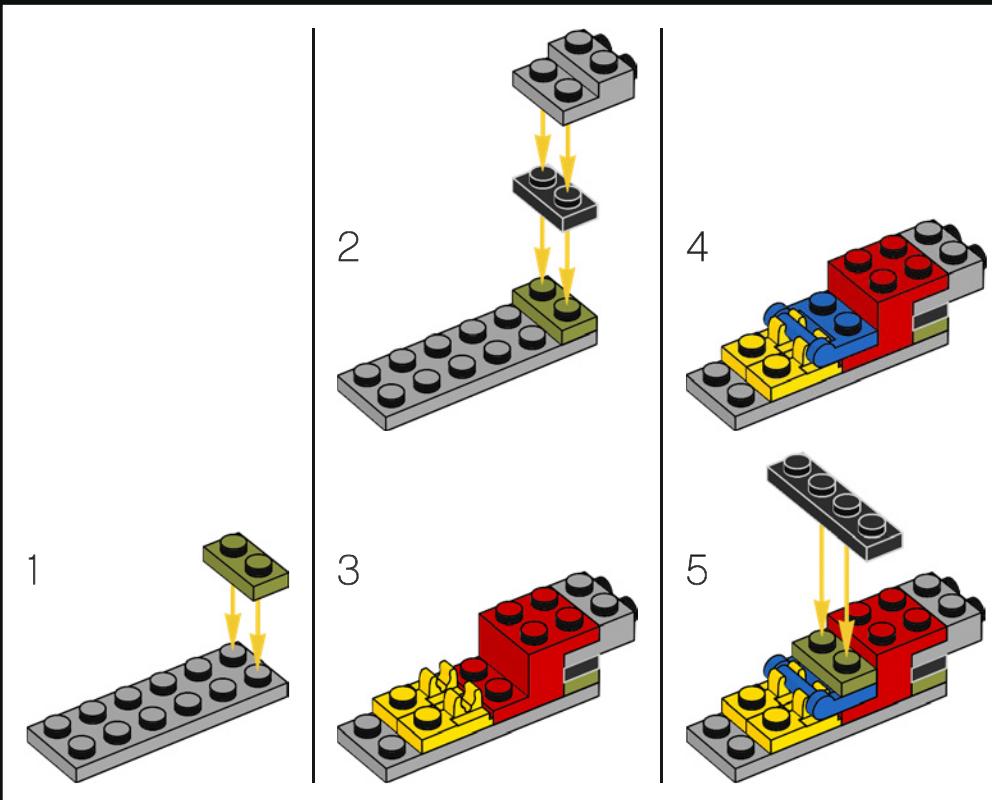


305



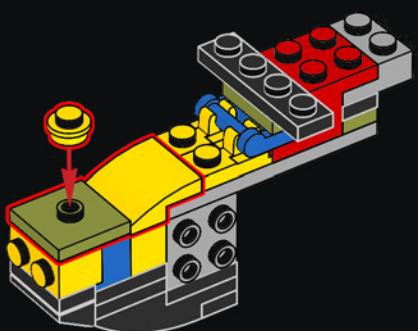


306

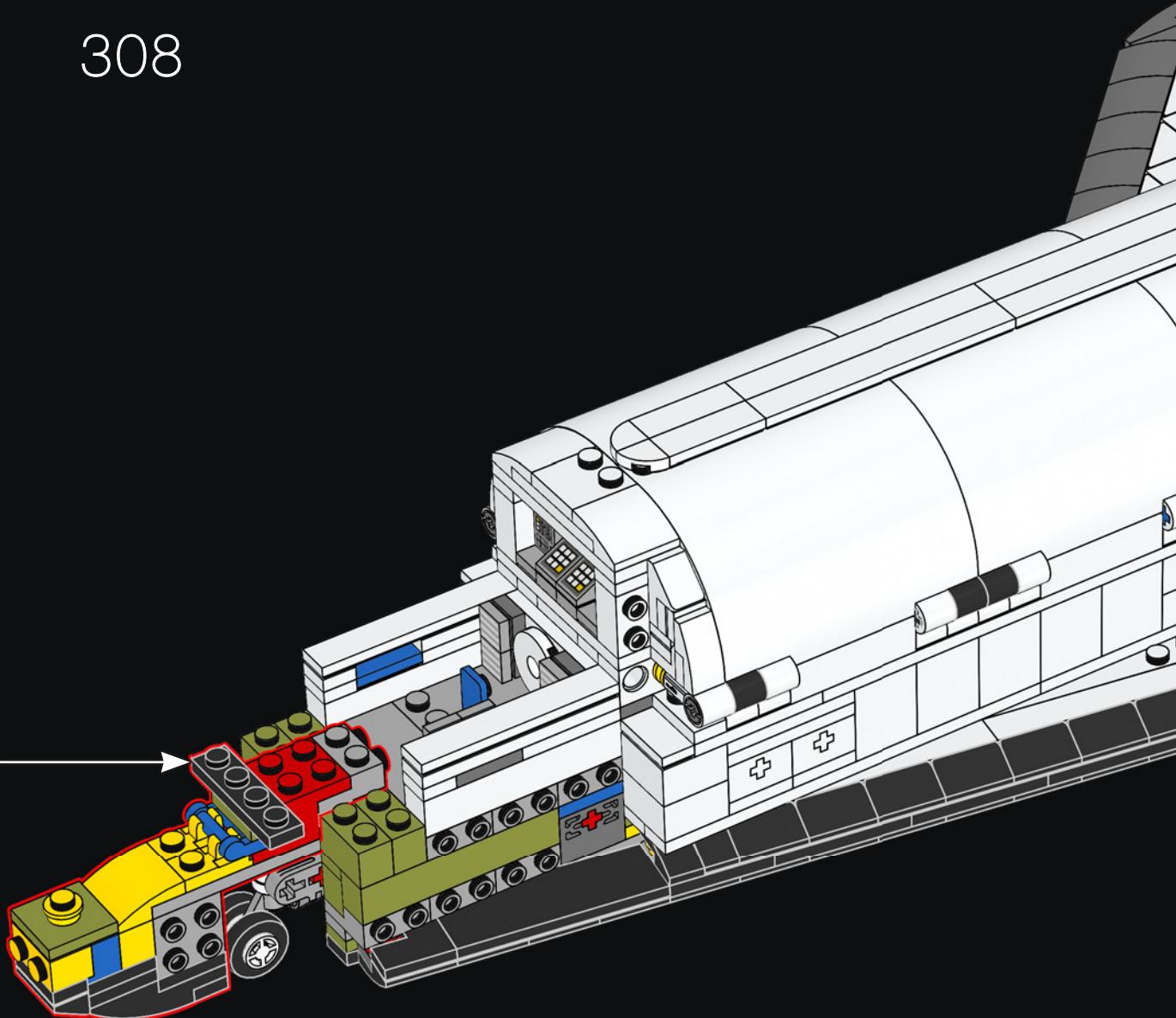


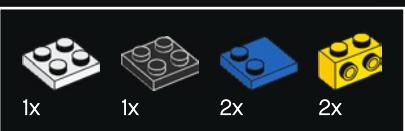


307

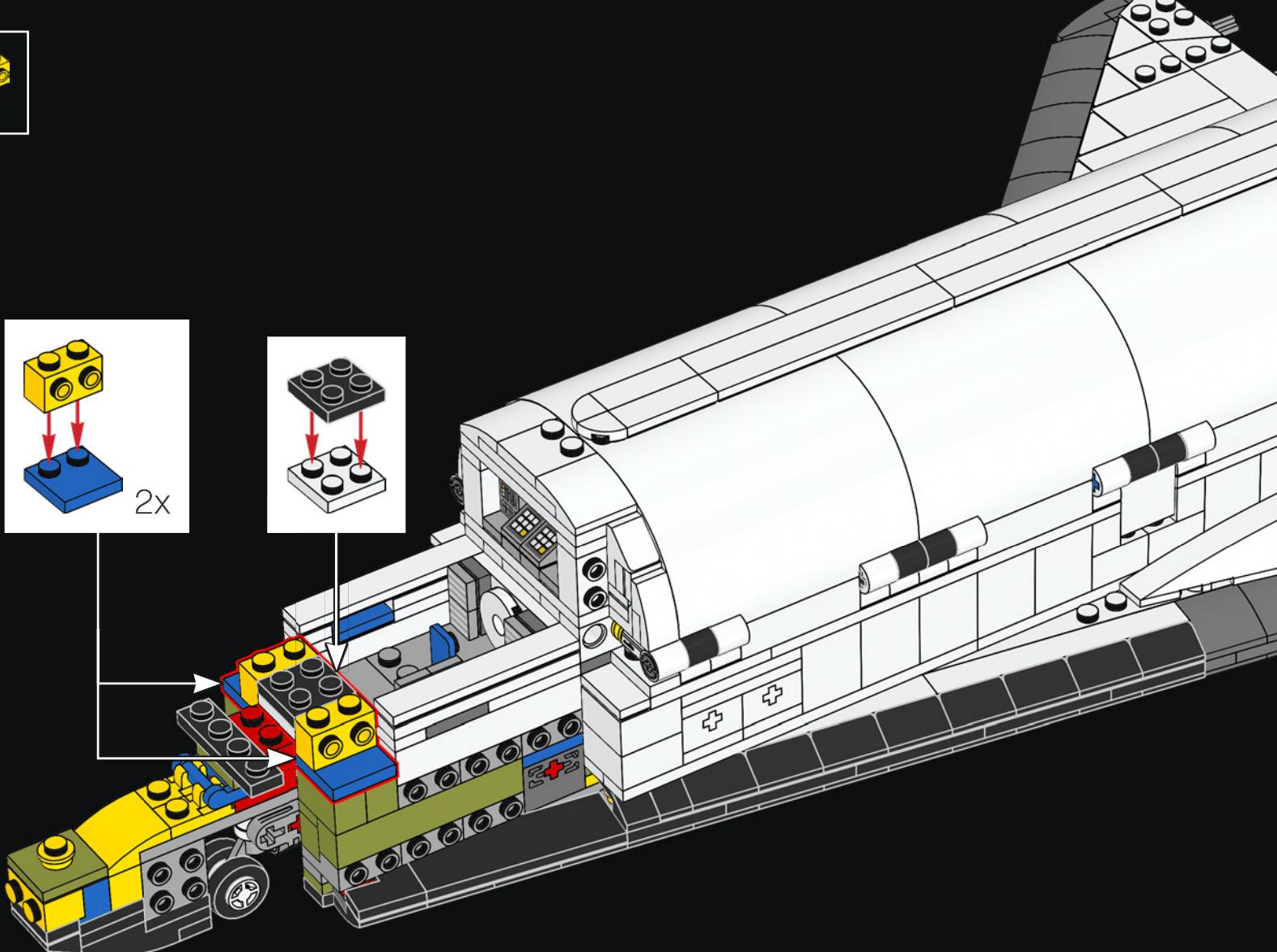
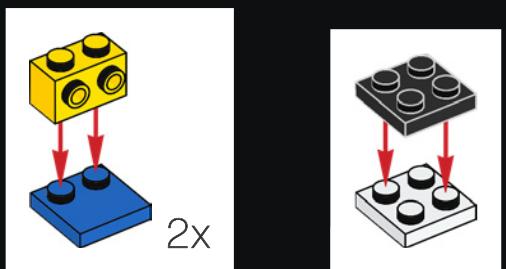


308



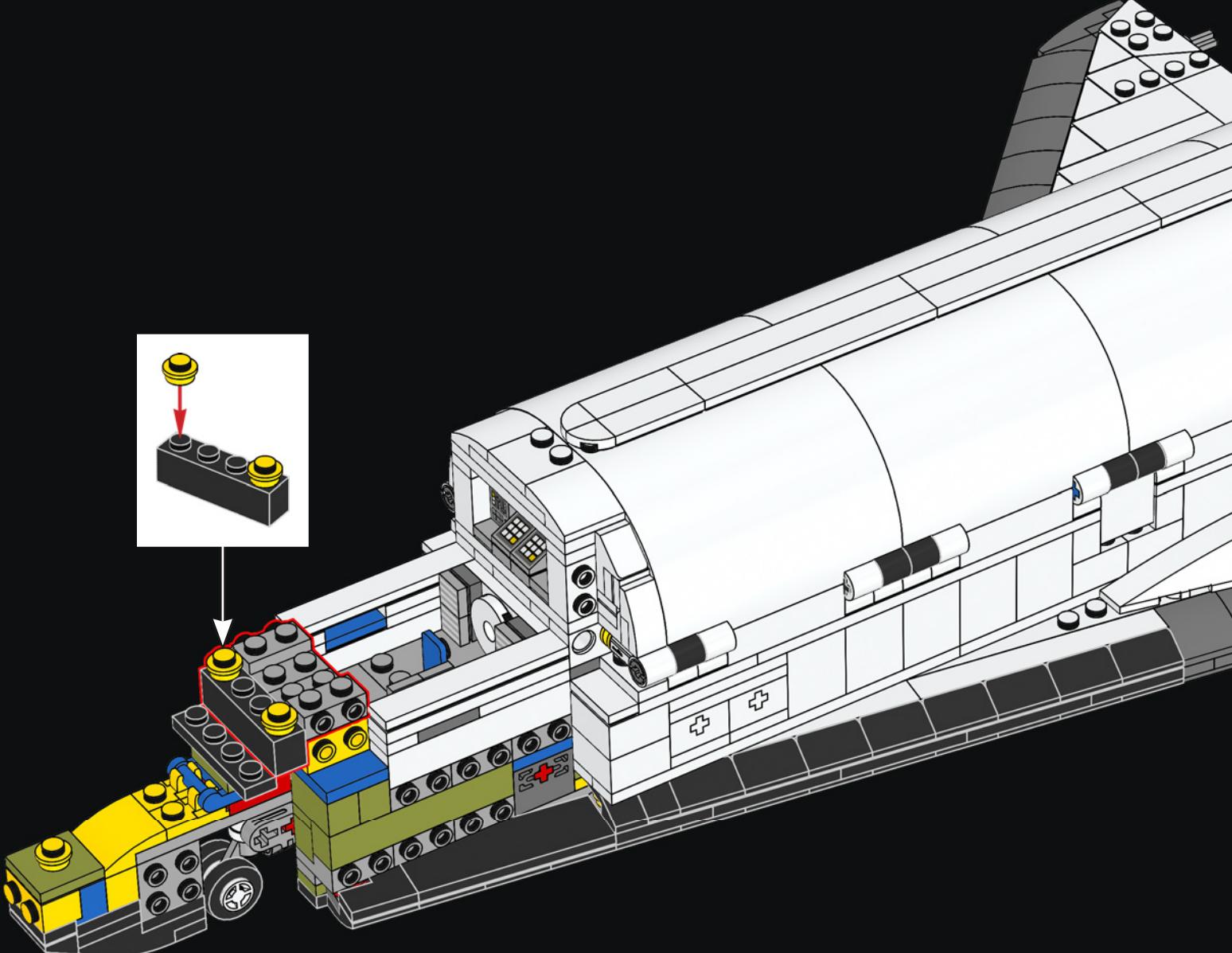


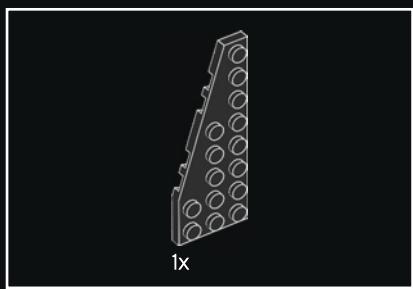
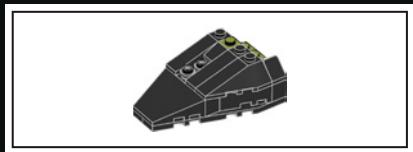
309



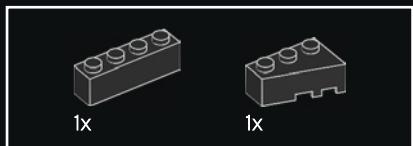
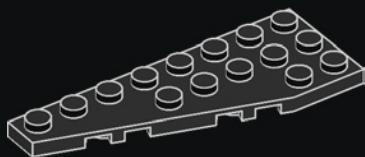


310

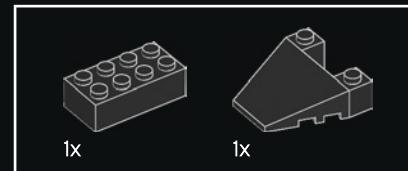
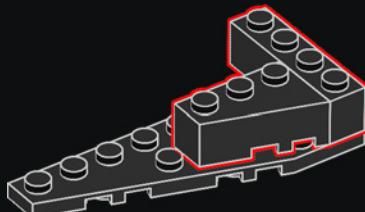




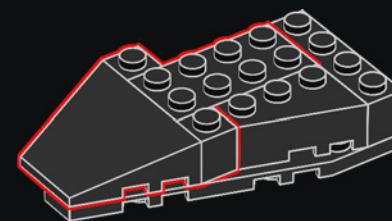
311



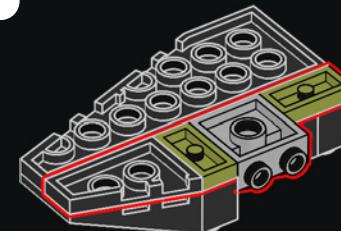
312

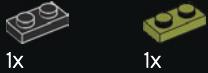


313

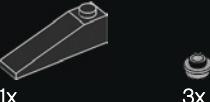
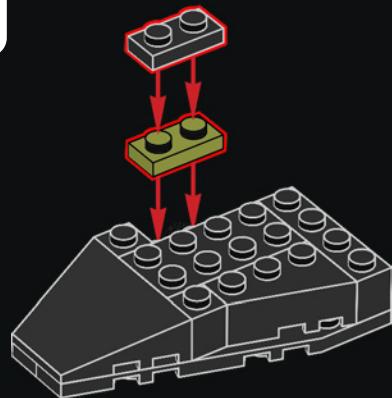


314

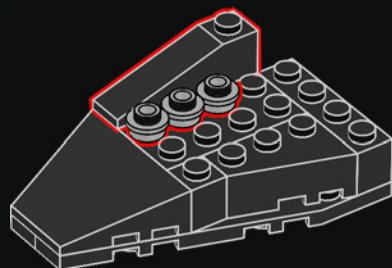




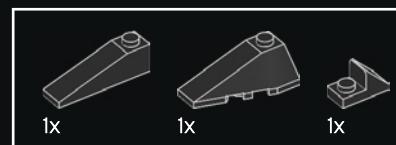
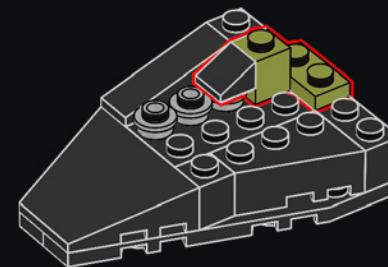
315



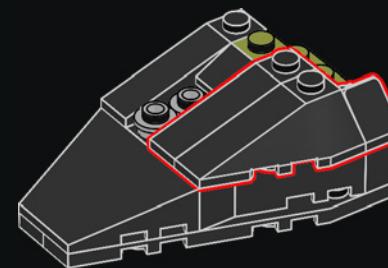
316



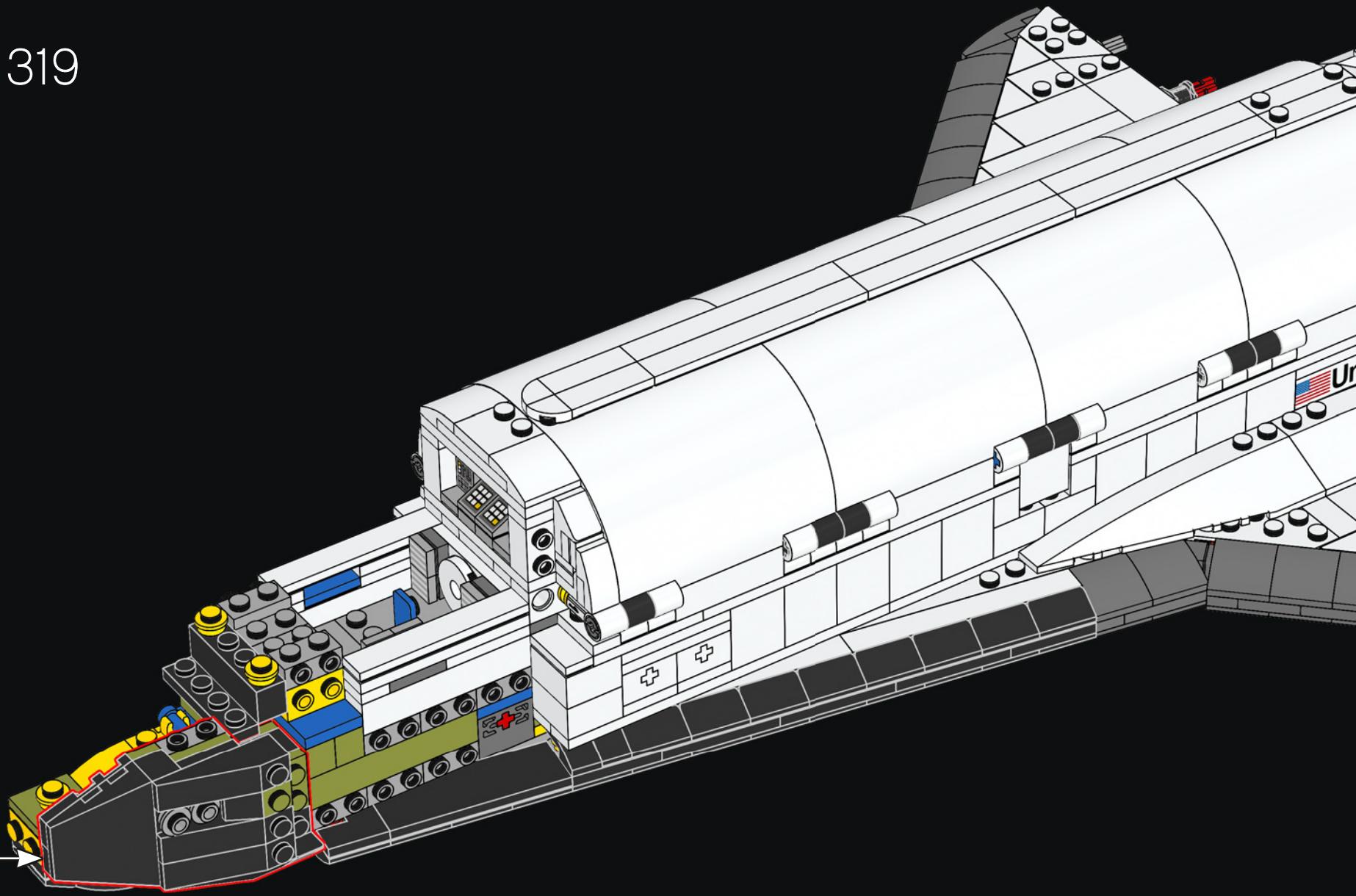
317



318

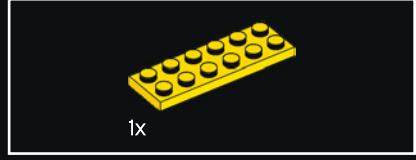
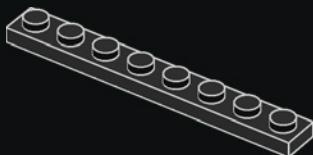


319





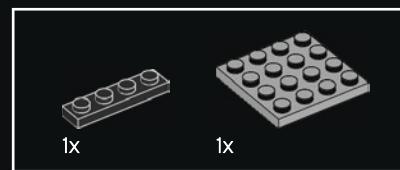
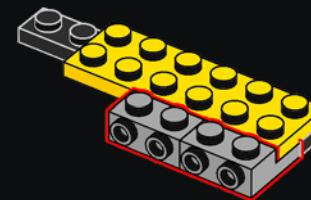
320



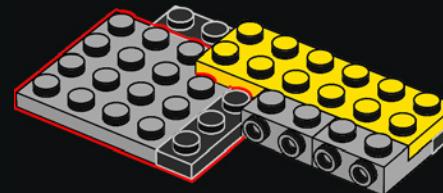
321

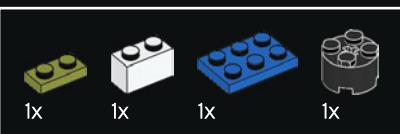


322

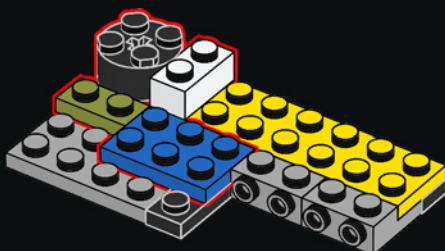


323

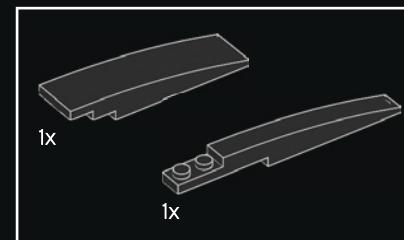
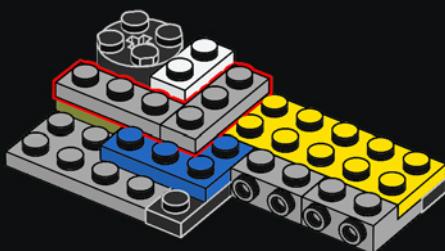




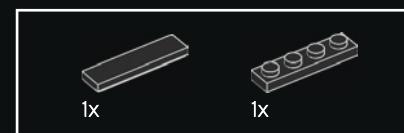
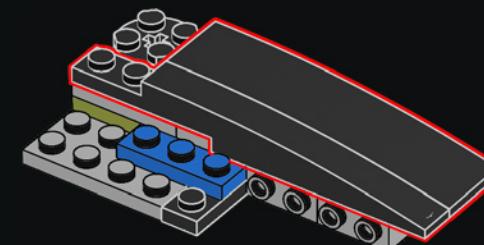
324



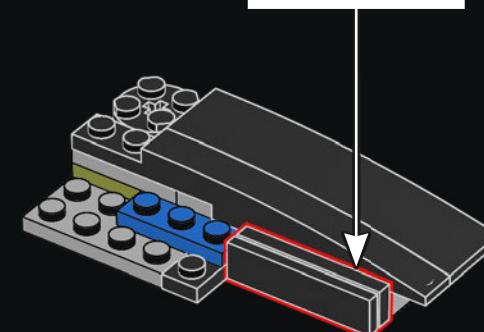
325



326



327





1x

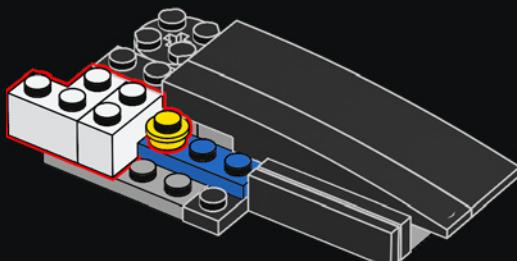


1x



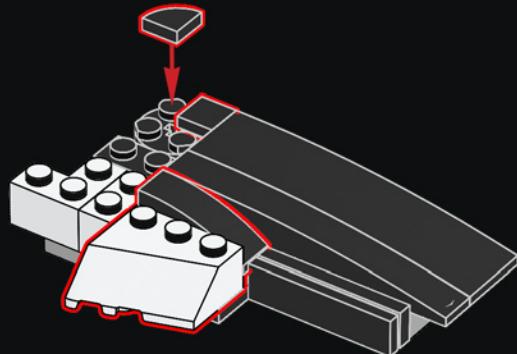
1x

328



1x 1x 1x 1x

329



250

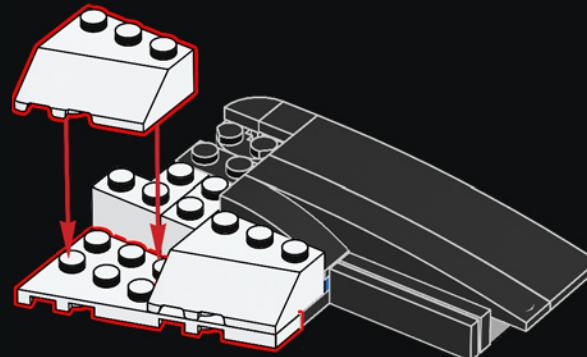


1x



1x

330



1x



2x

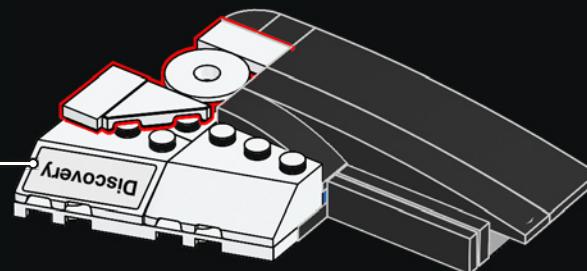


1x

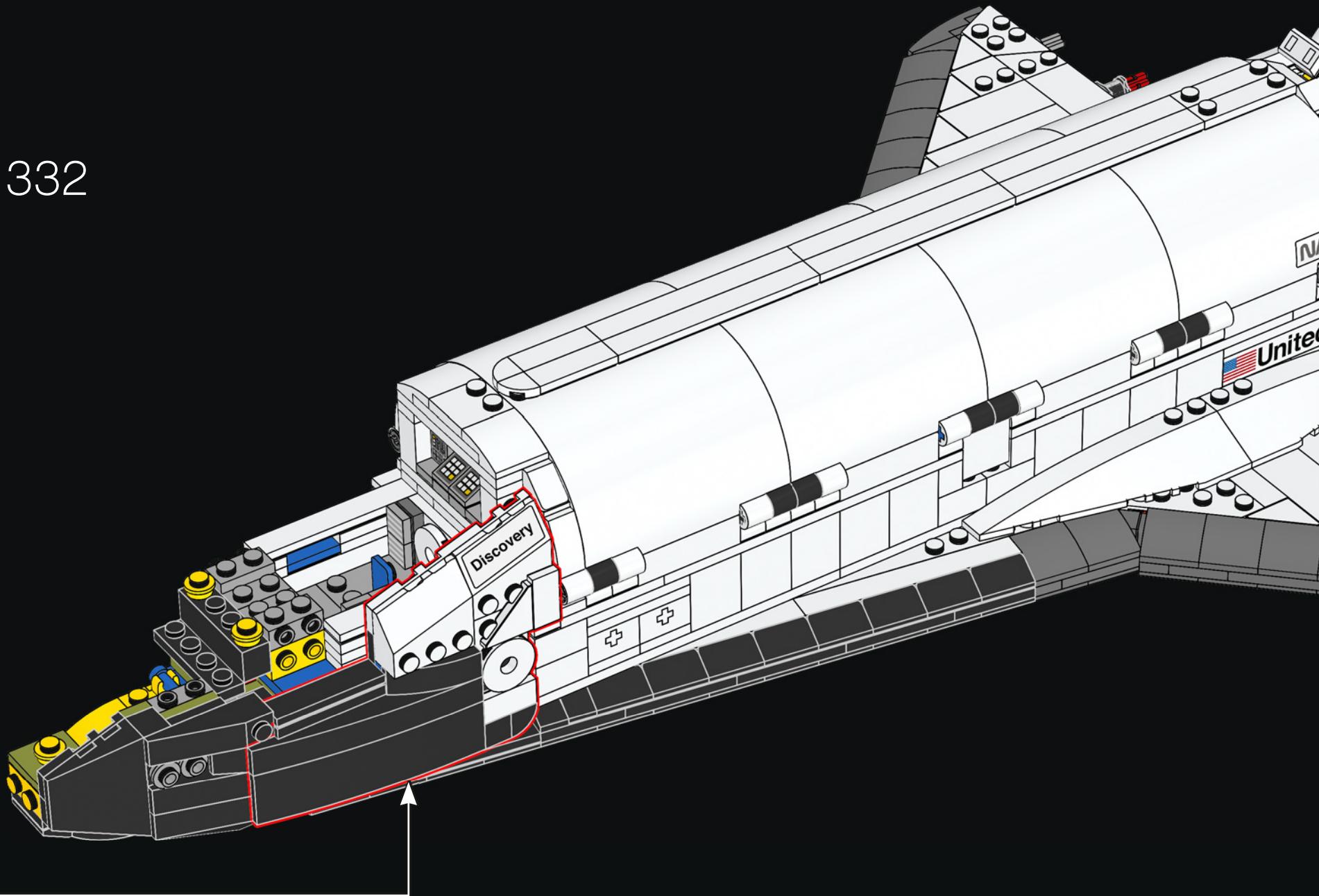
331

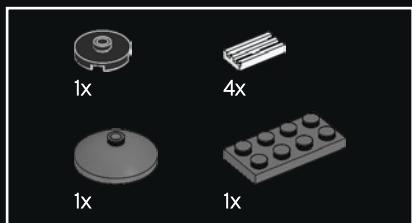


3

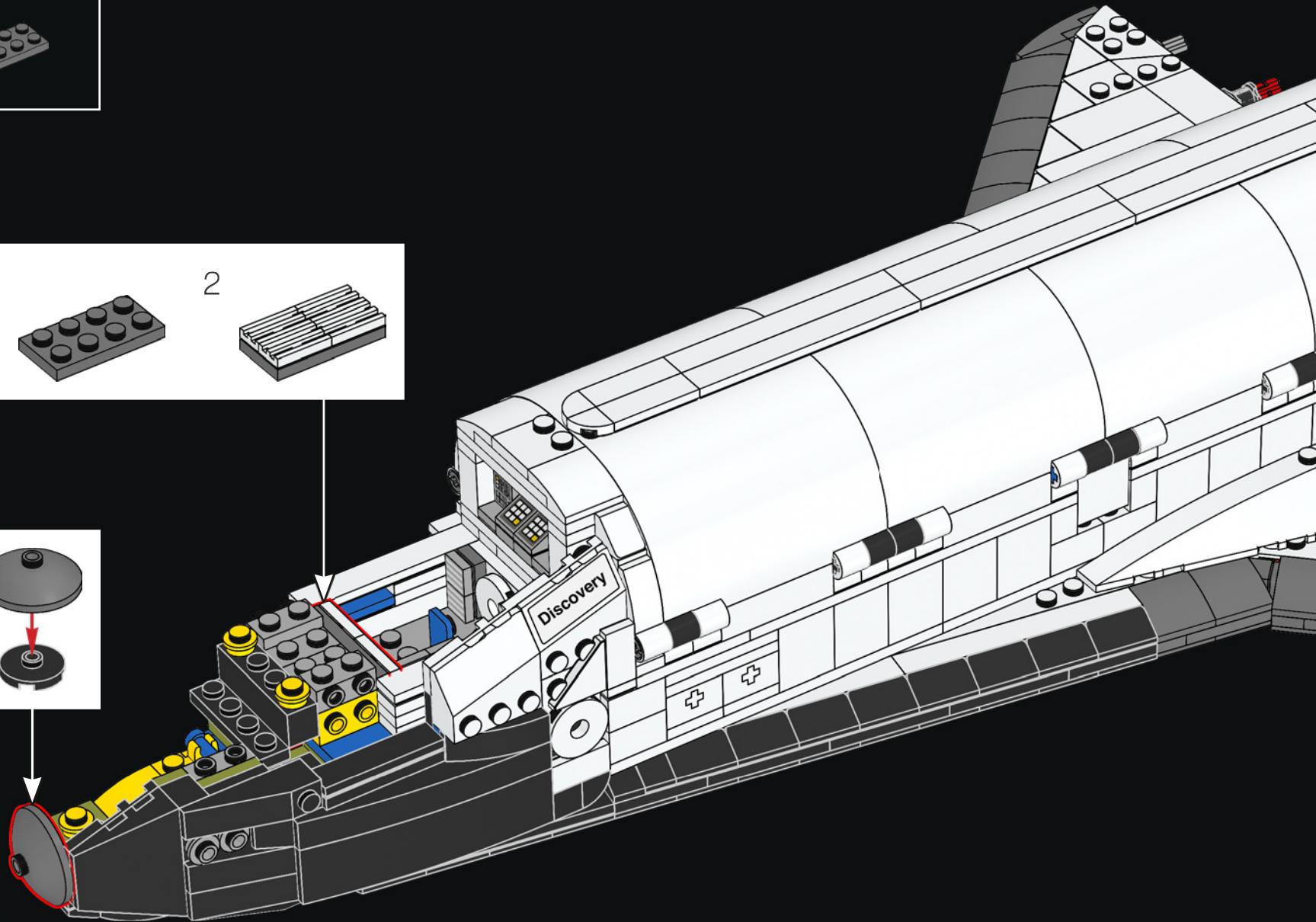
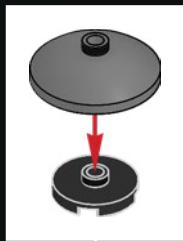
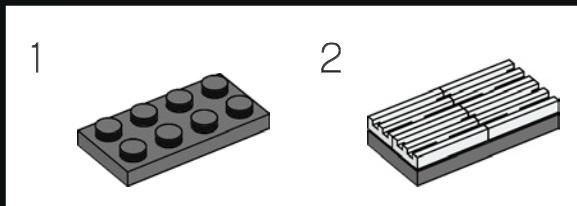


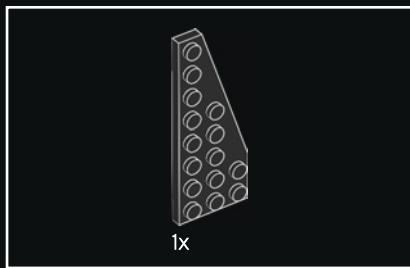
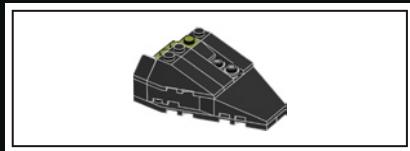
332



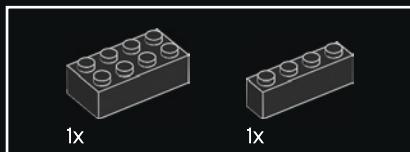
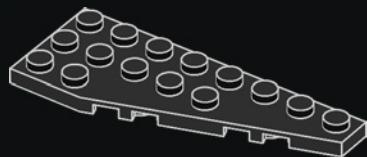


333

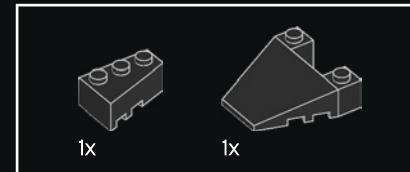
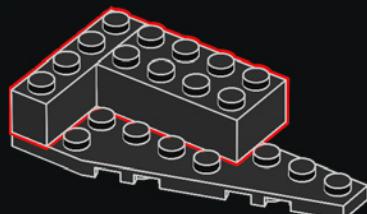




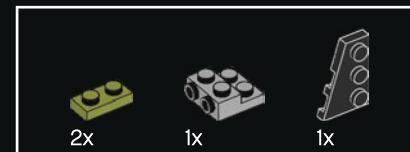
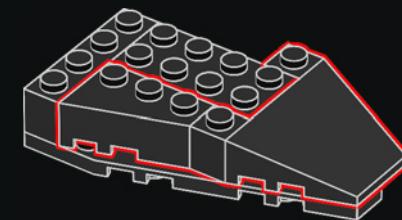
334



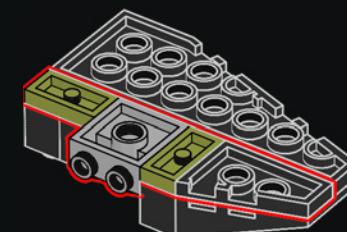
335

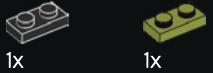


336

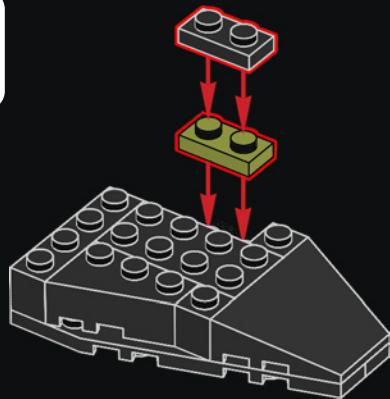


337

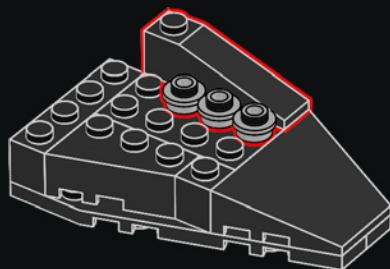




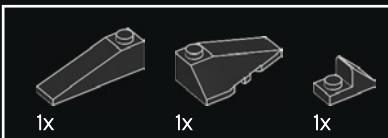
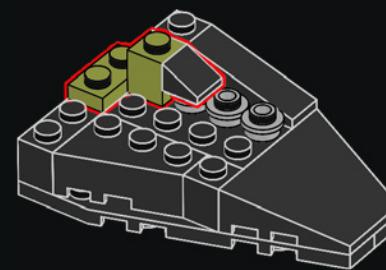
338



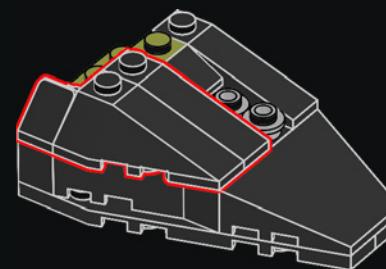
339



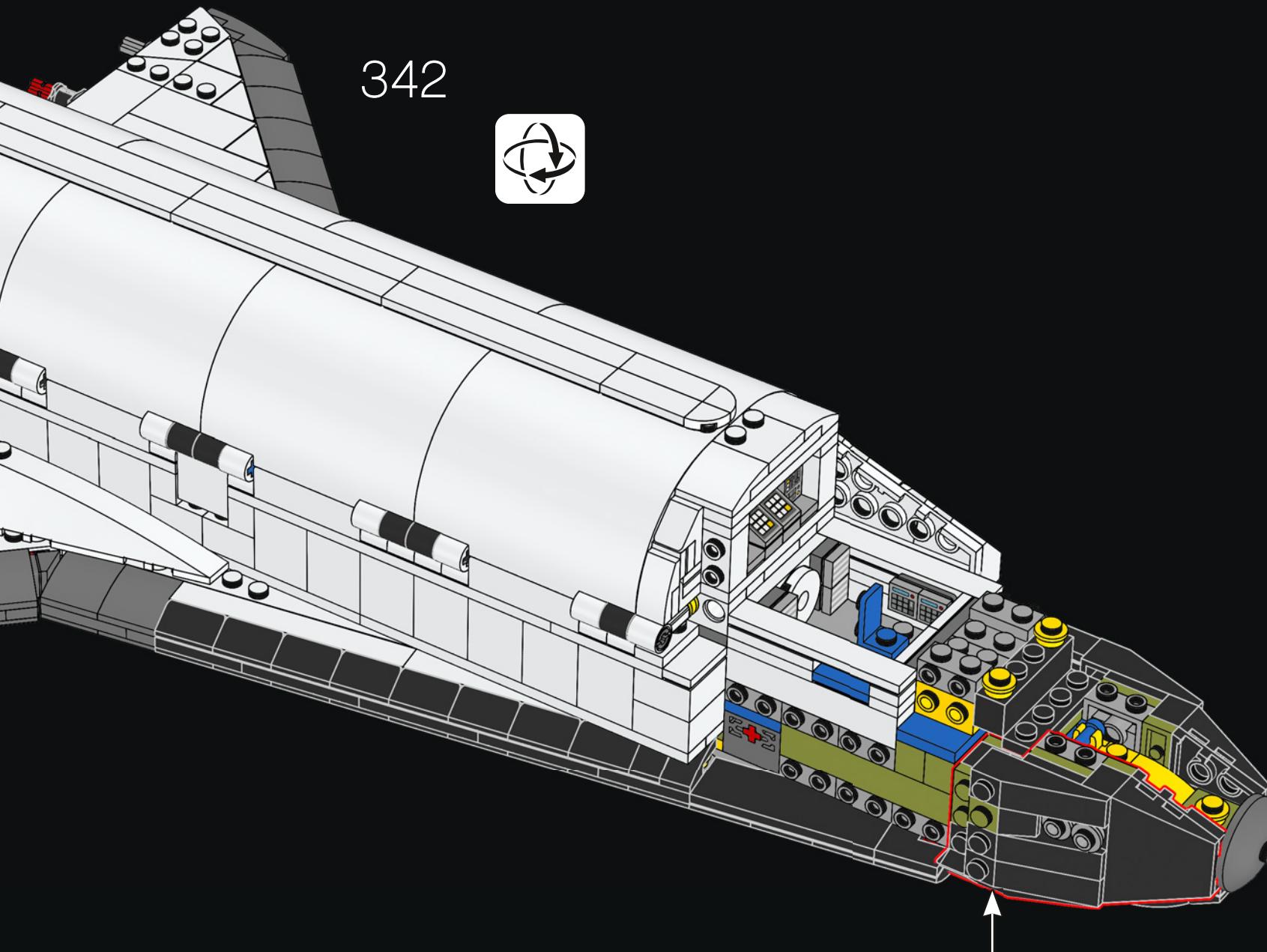
340

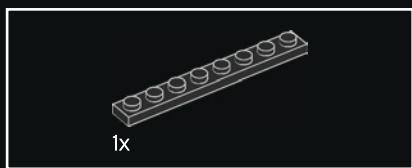
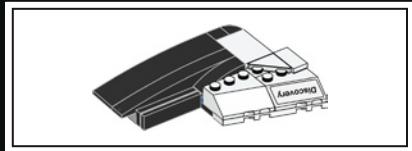


341

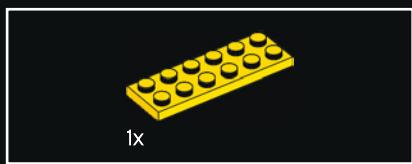
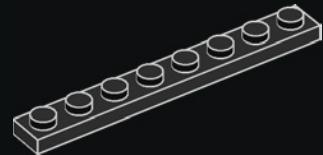


342





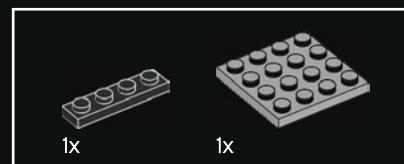
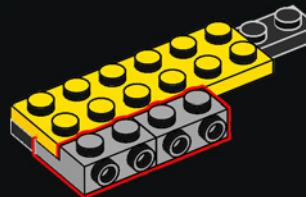
343



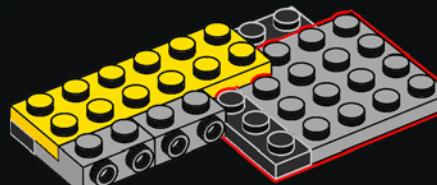
344

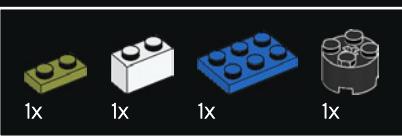


345

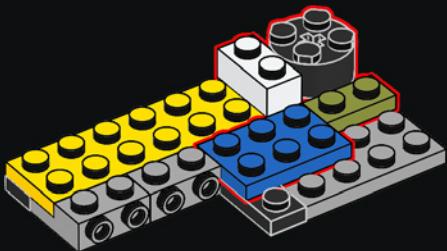


346

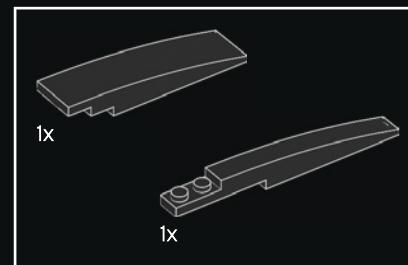
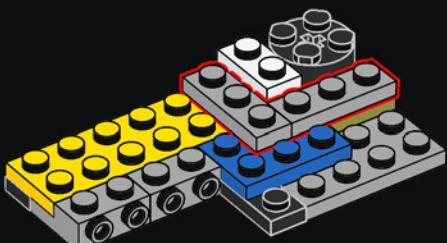




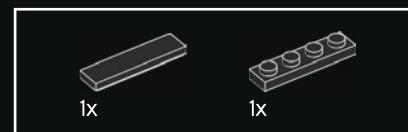
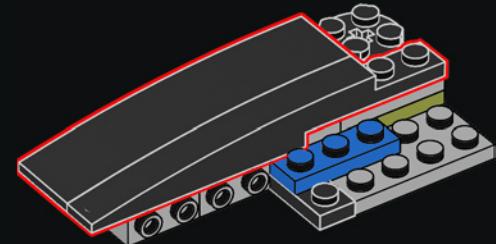
347



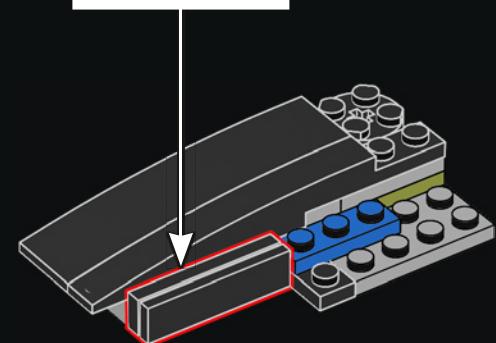
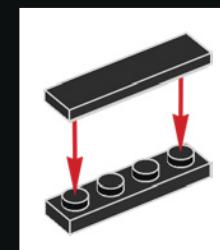
348



349



350





1x

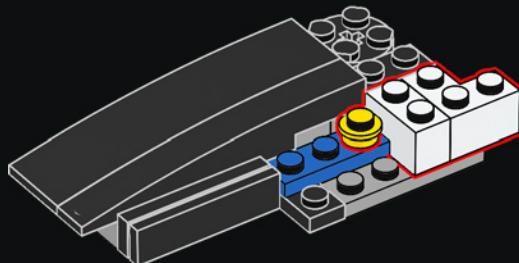


1x

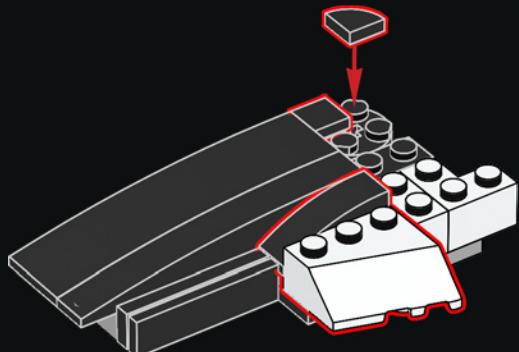


1x

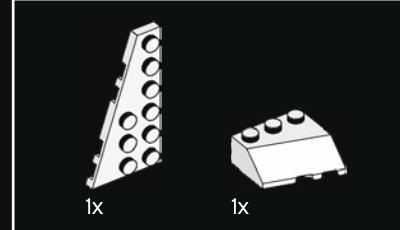
351



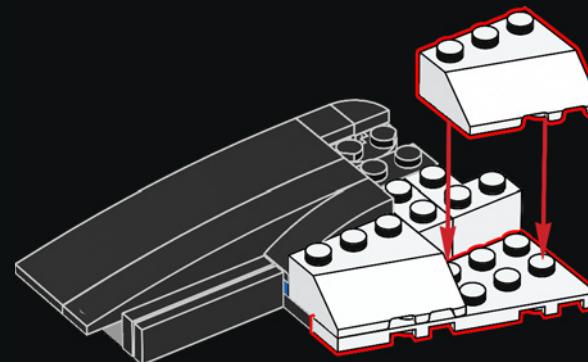
352



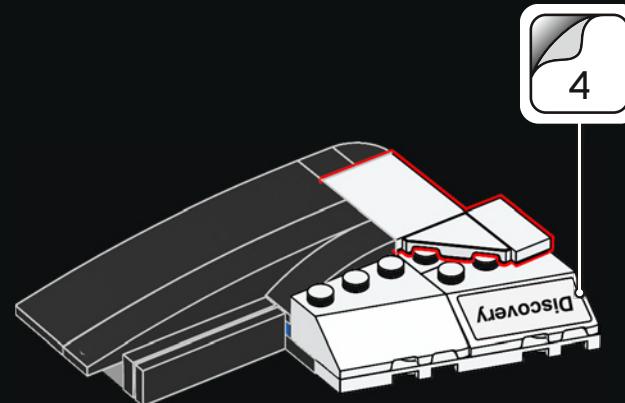
258



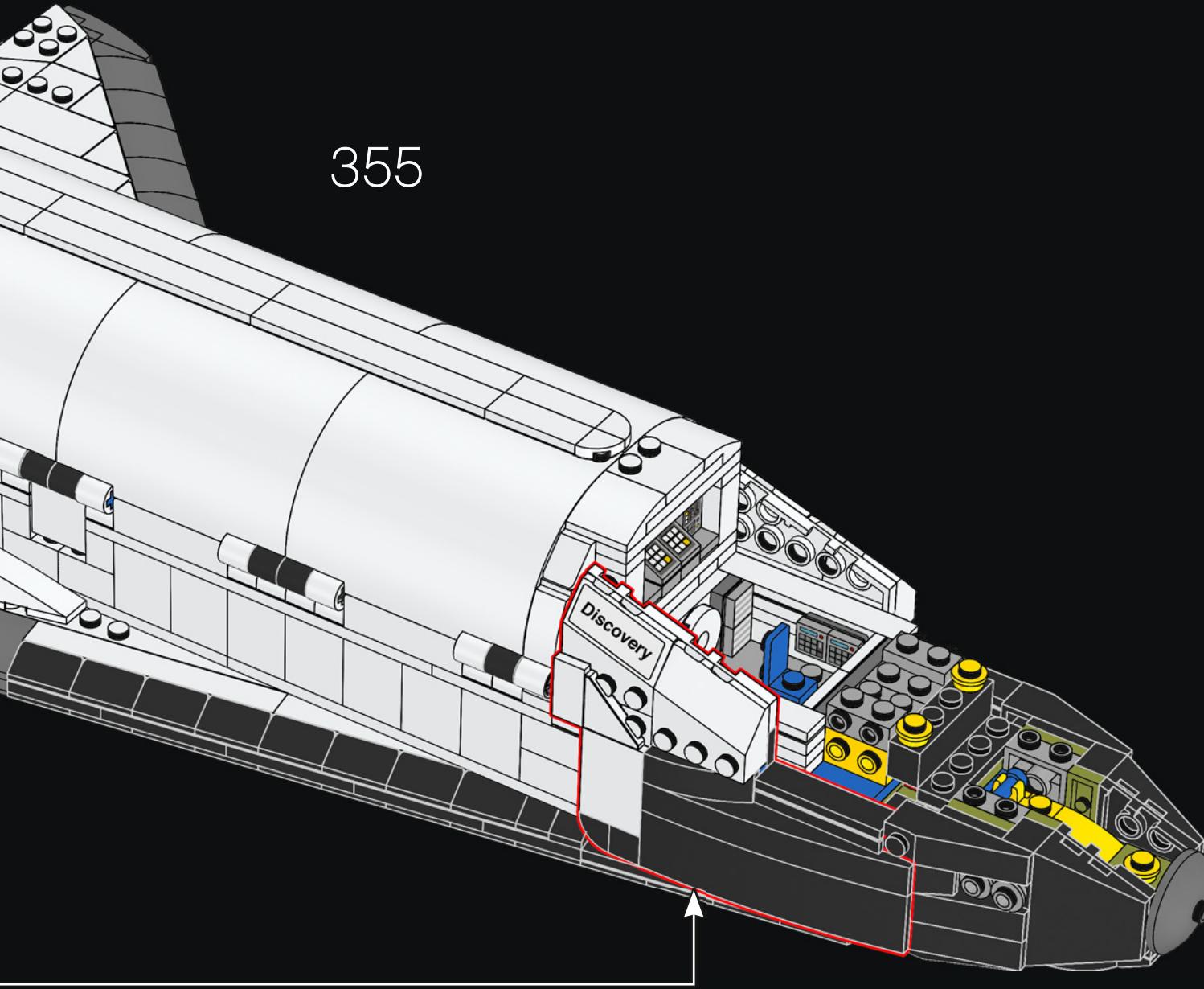
353

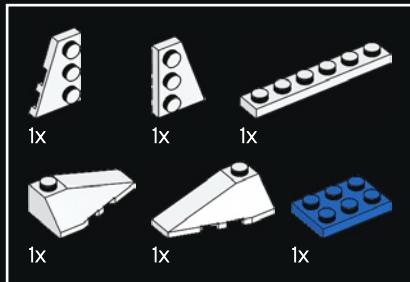


354

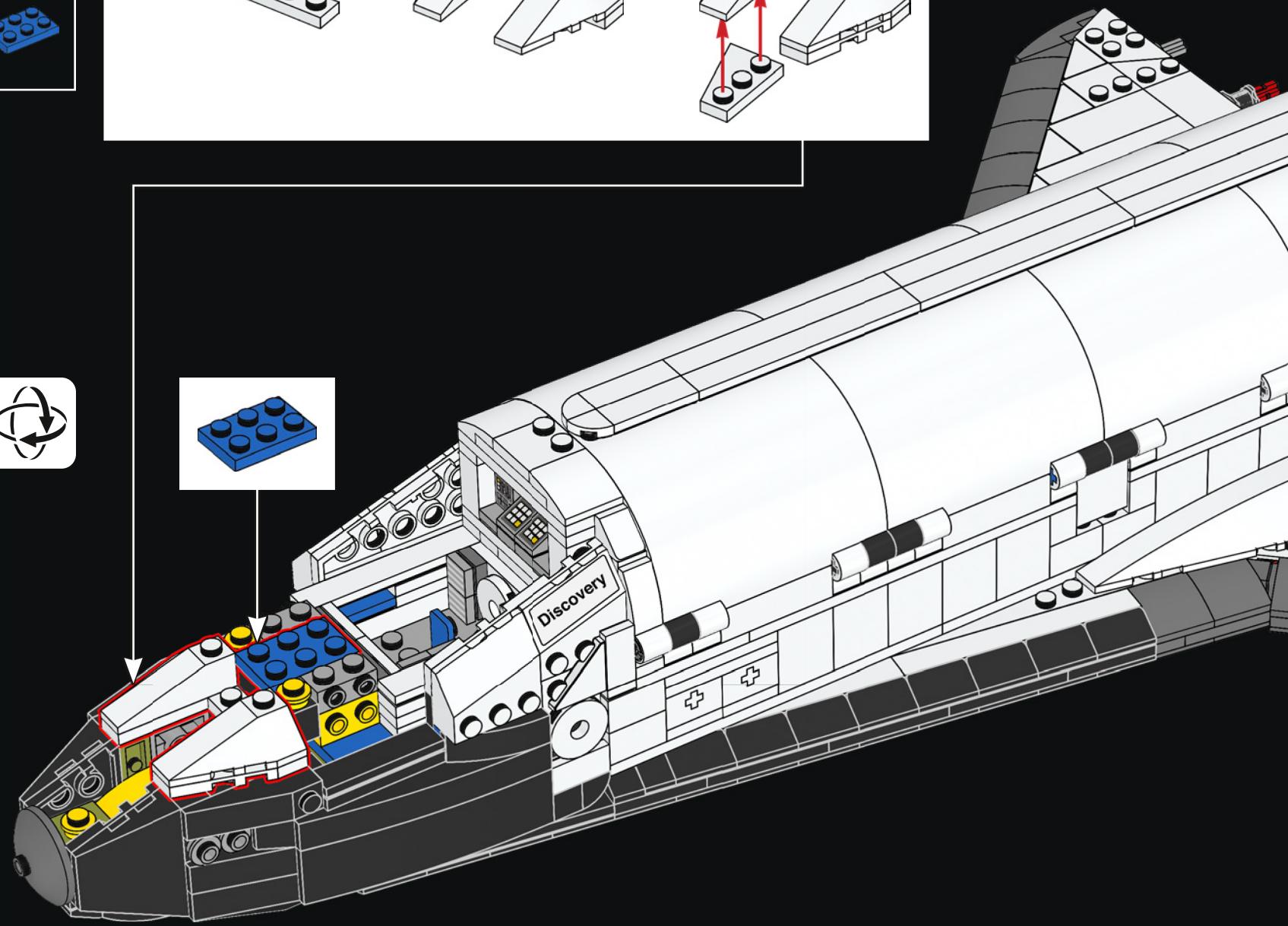
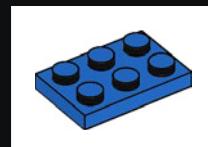
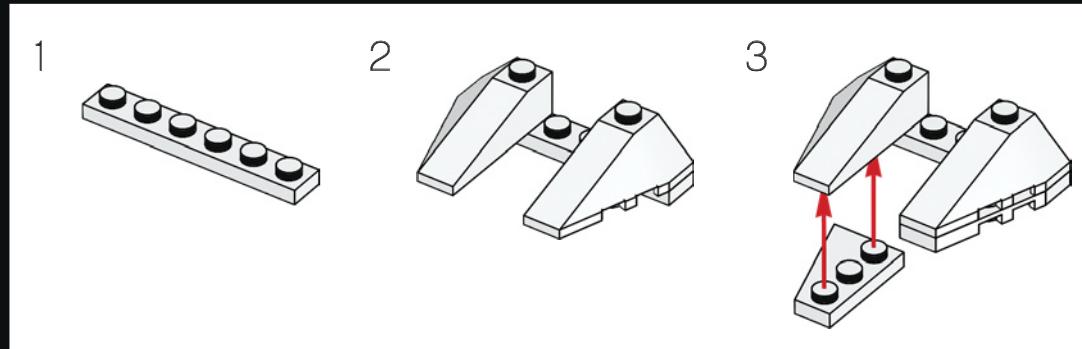


355



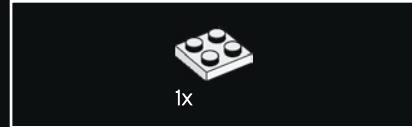
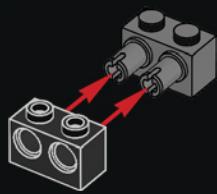


356





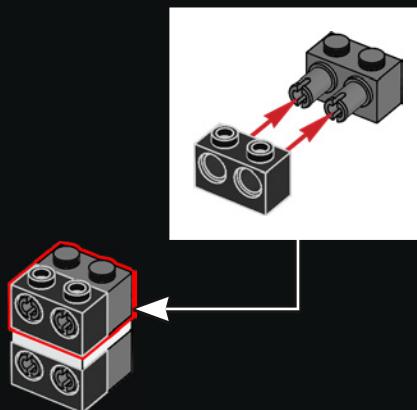
357



358



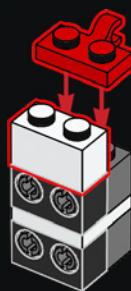
359



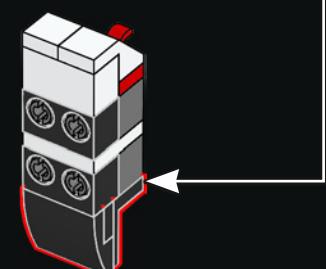
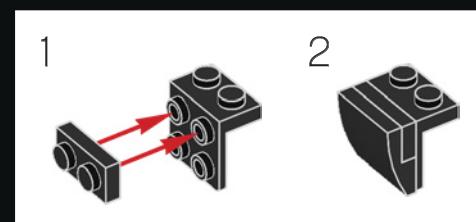
361



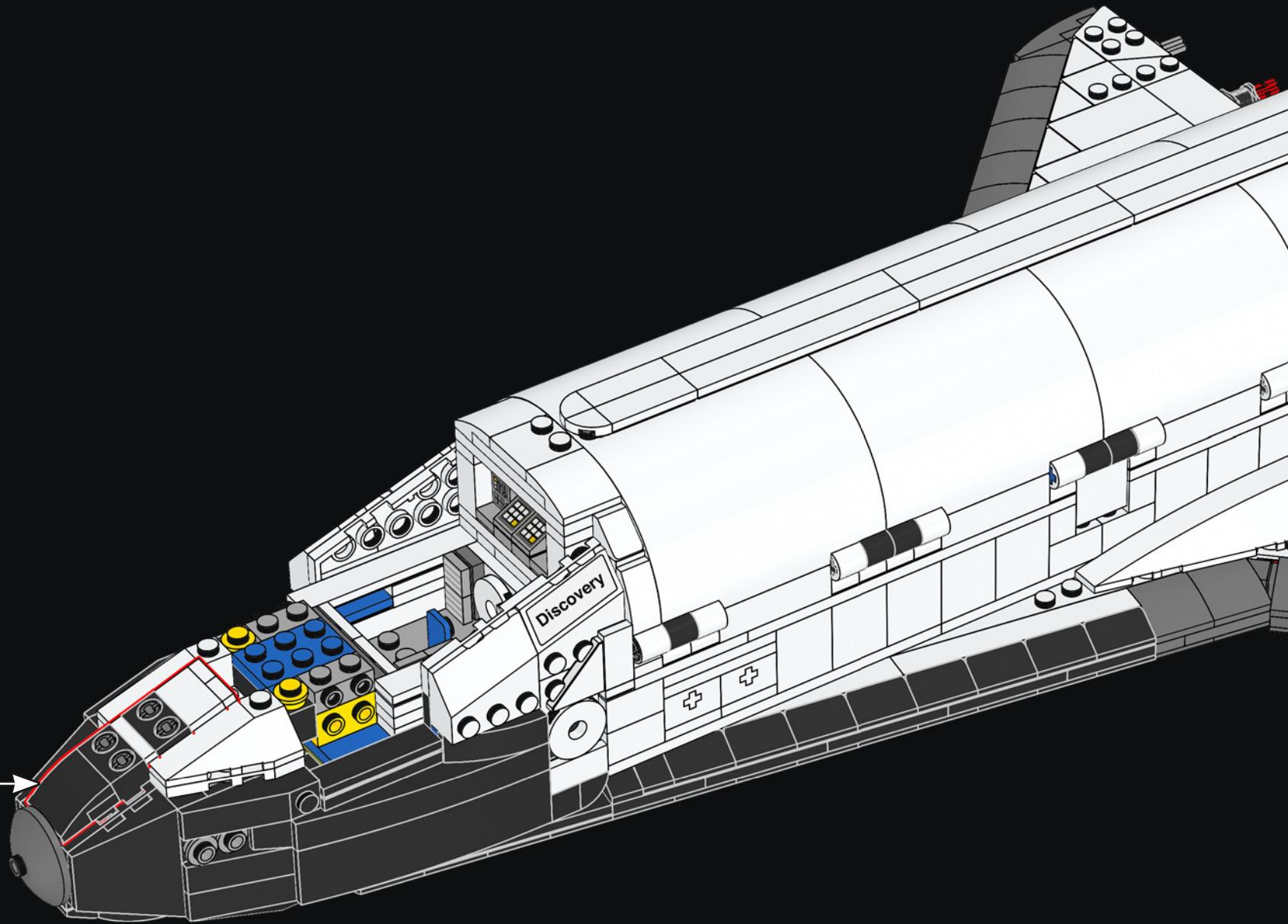
360

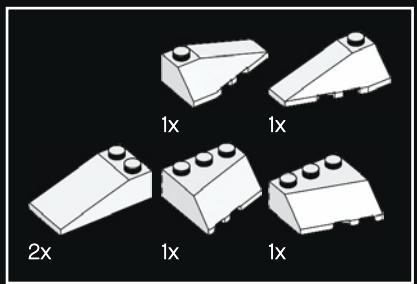


362

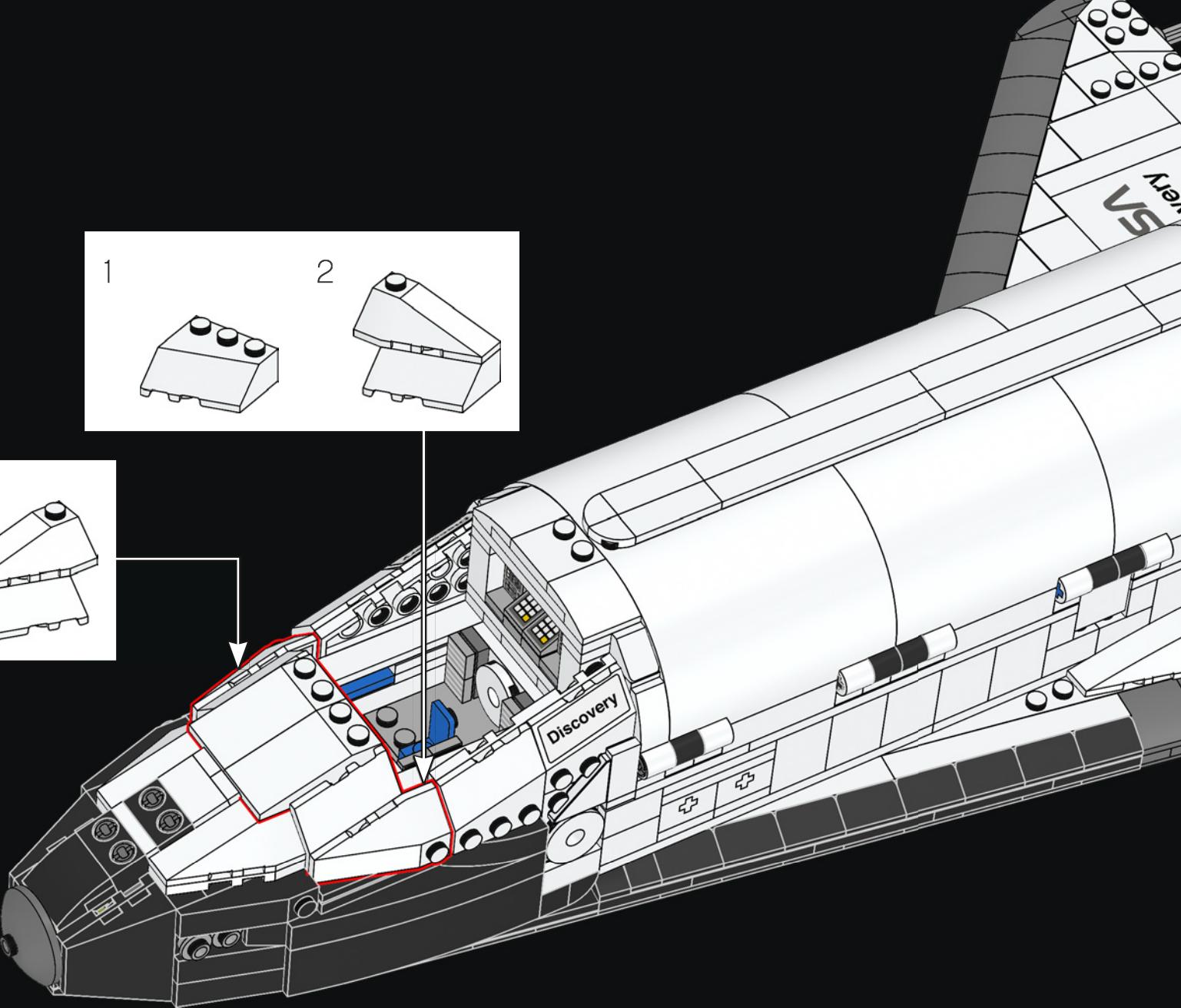
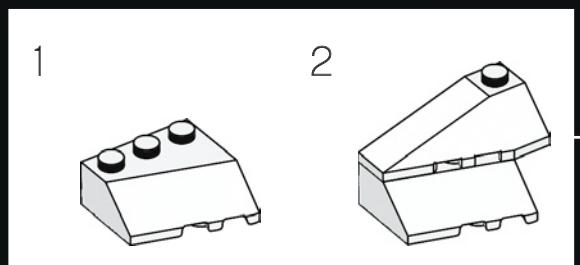
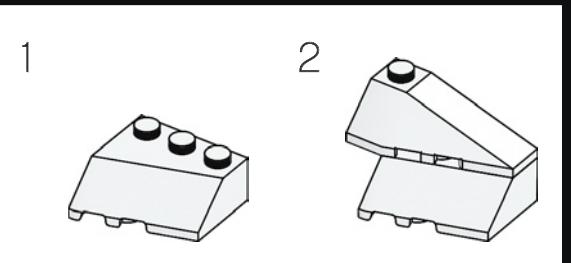


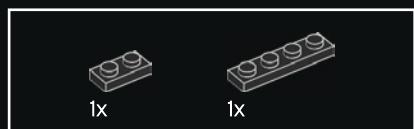
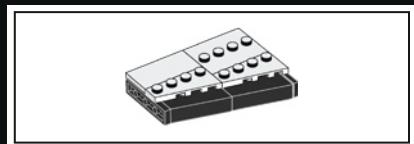
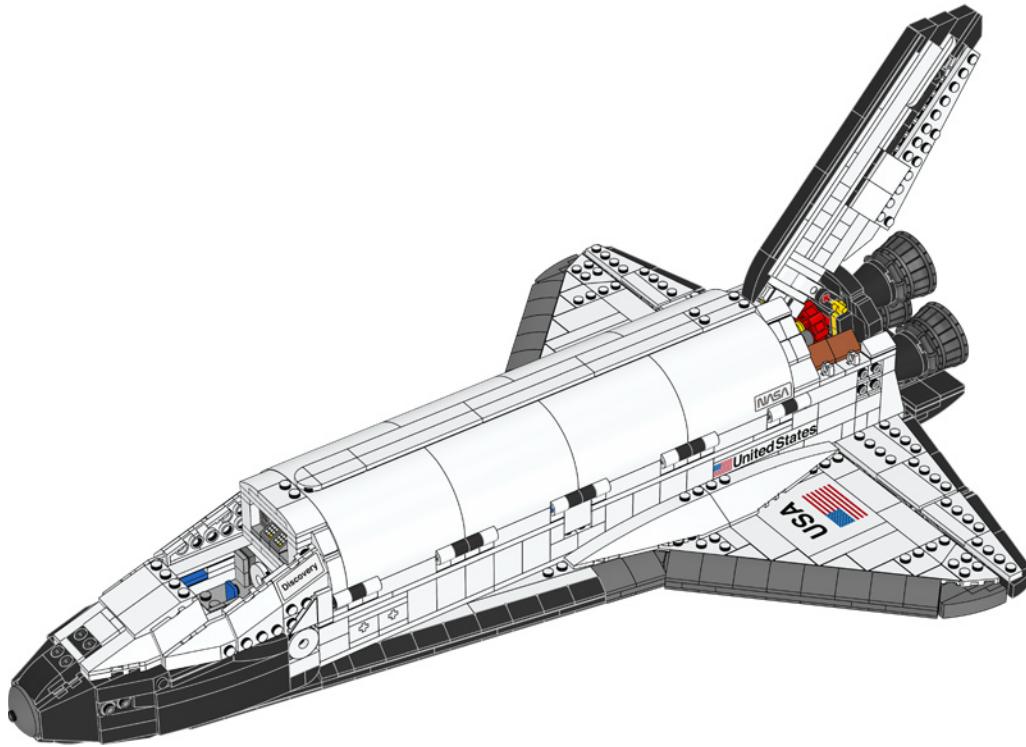
363



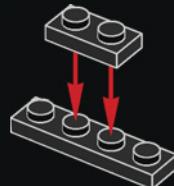


364

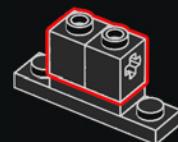




365

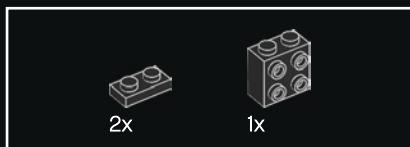
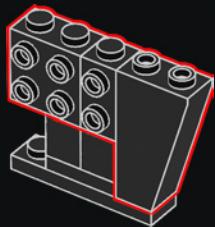


366

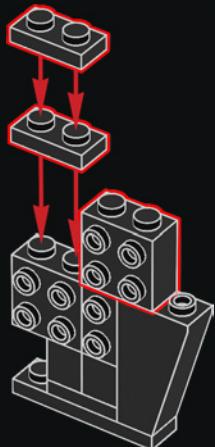




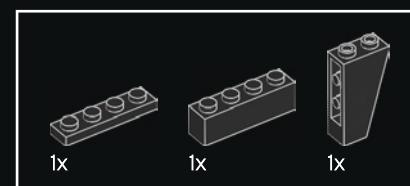
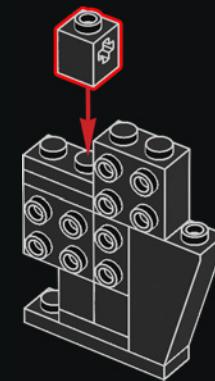
367



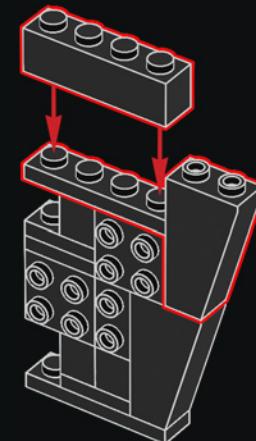
368



369

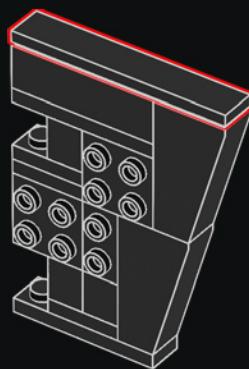


370

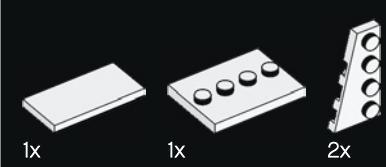




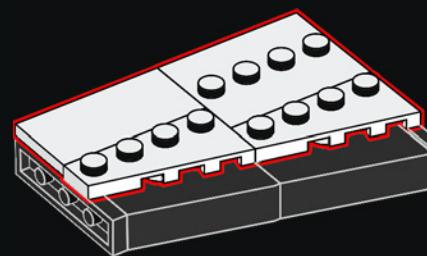
371



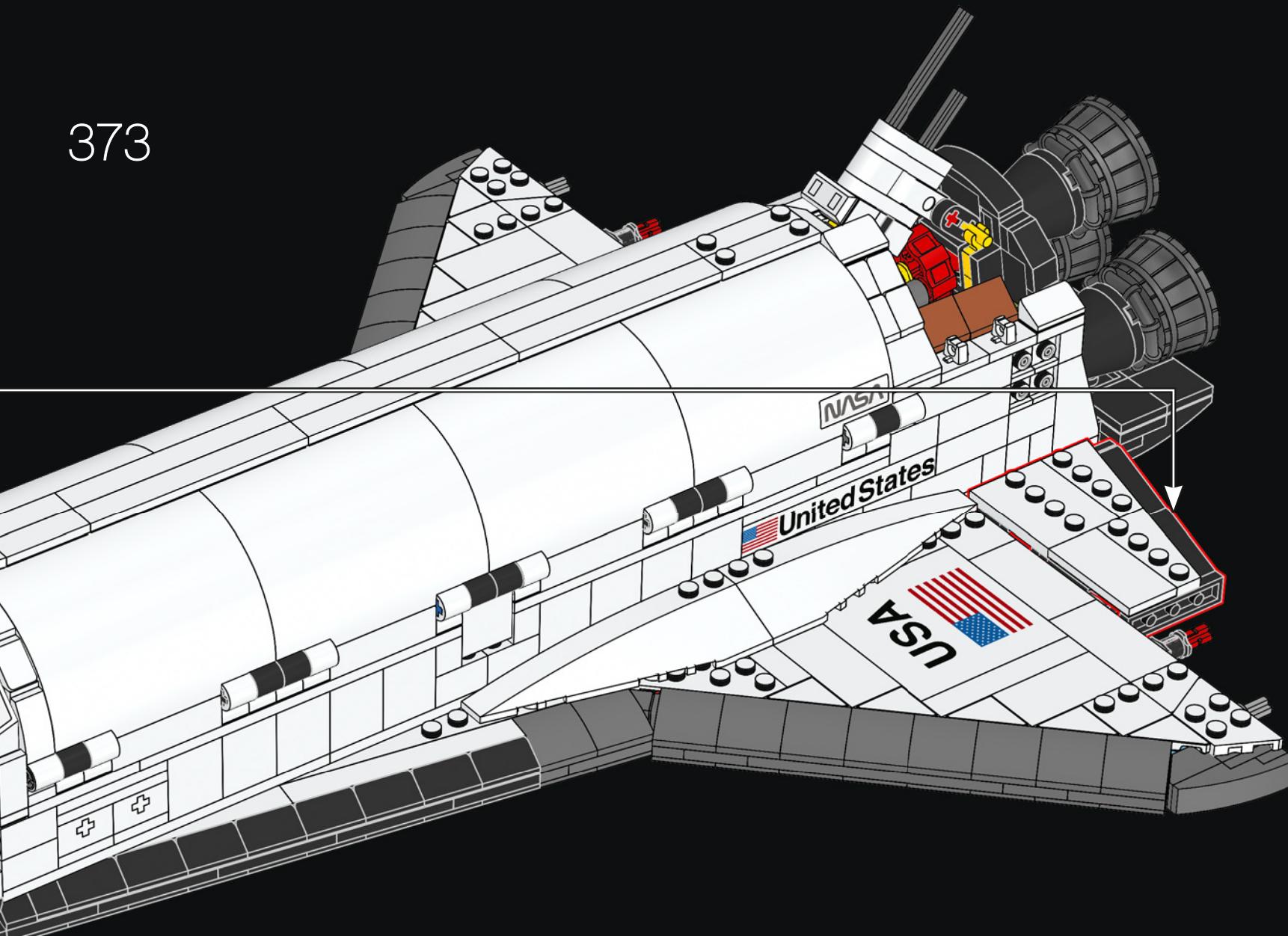
266



372

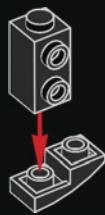


373





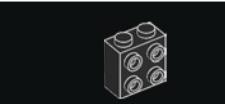
374



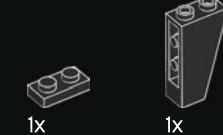
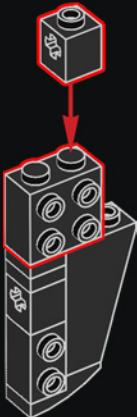
375



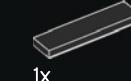
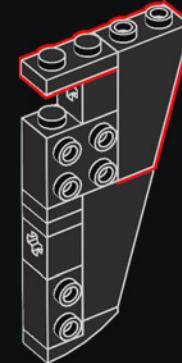
376



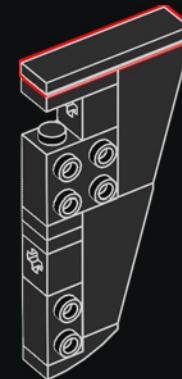
377

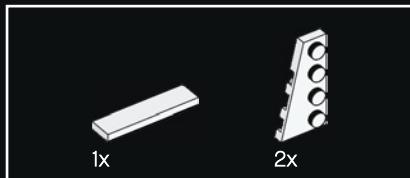


378



379

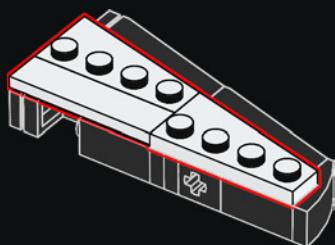




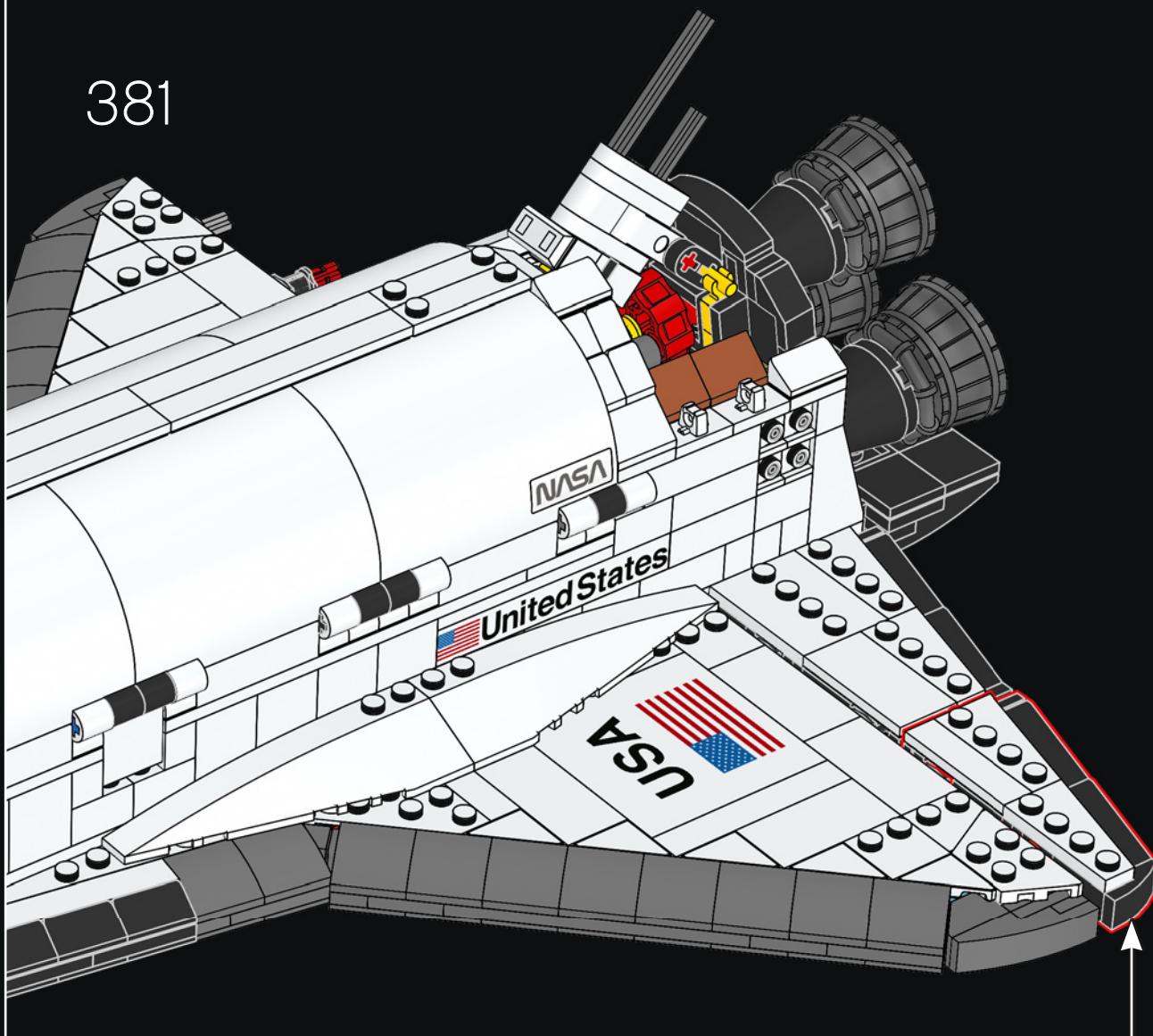
1x

2x

380

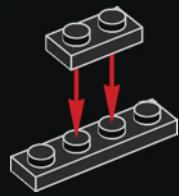


381

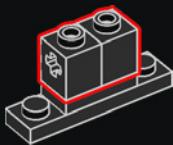




382



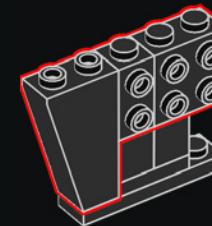
383



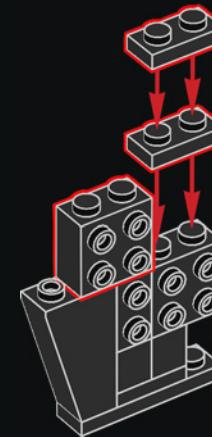
270



384

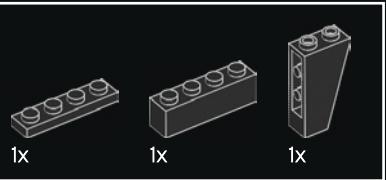
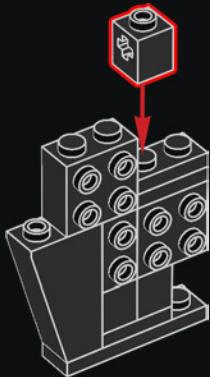


385

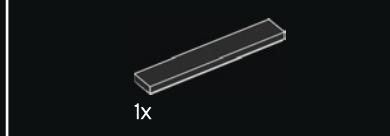
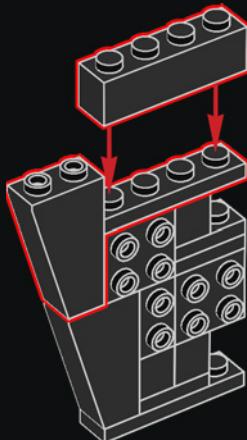




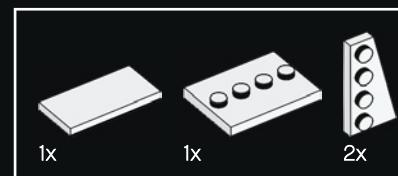
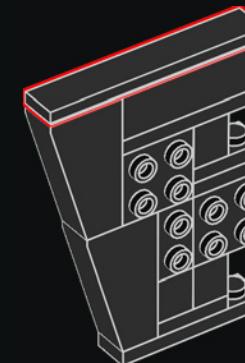
386



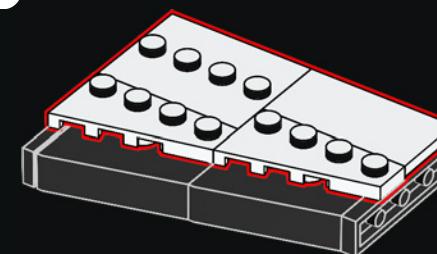
387



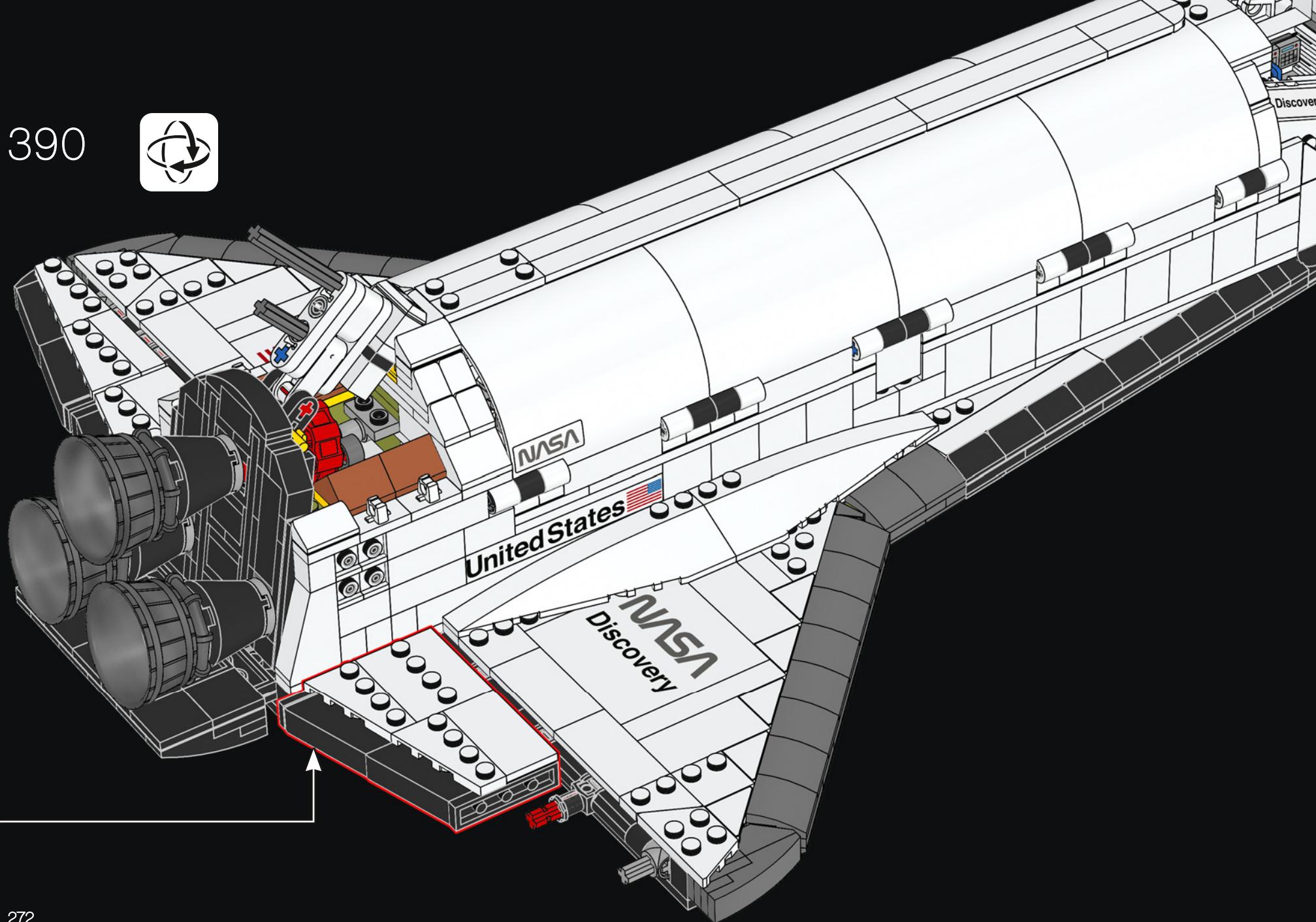
388



389



390



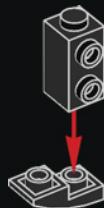


1x



1x

391



1x

393

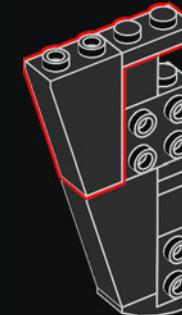


1x



1x

395



2x



1x

392

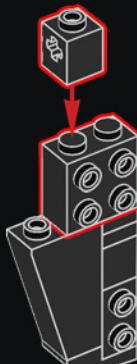


1x



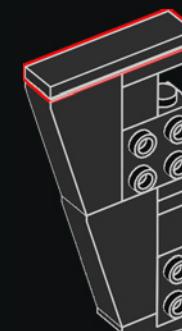
1x

394



1x

396

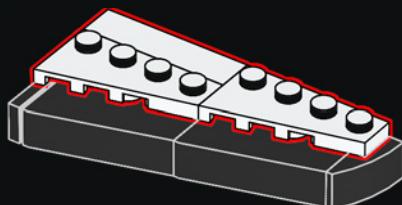




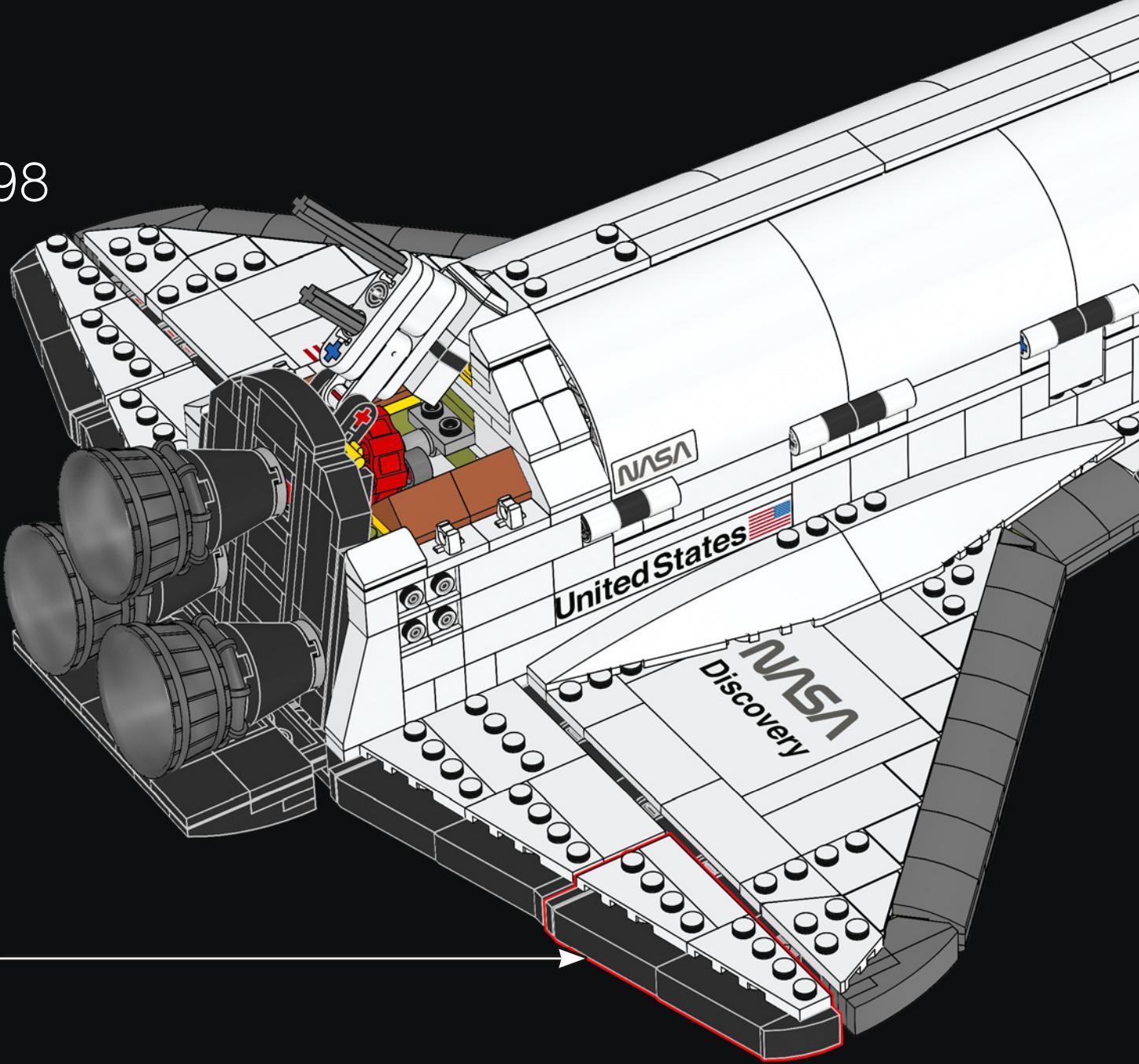
1x

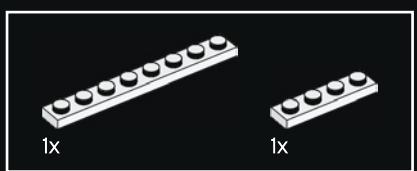
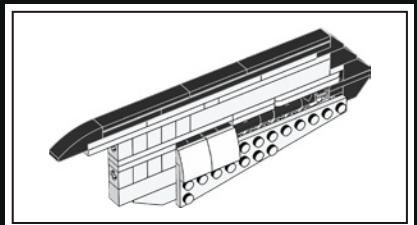
2x

397

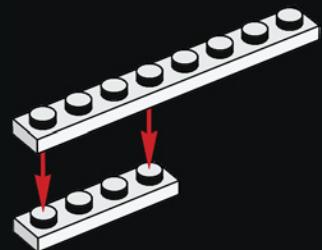


398

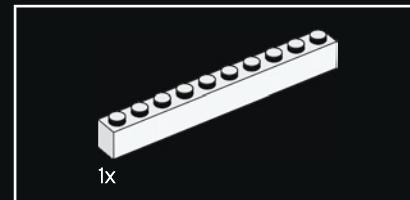
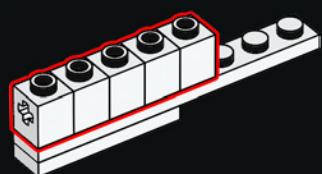




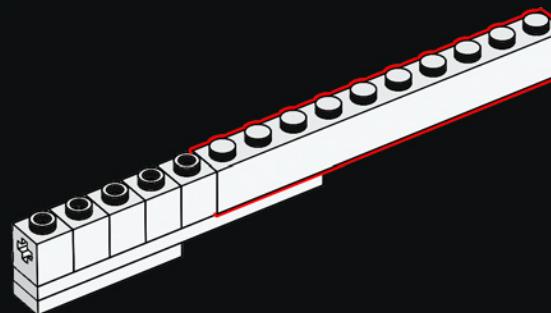
399



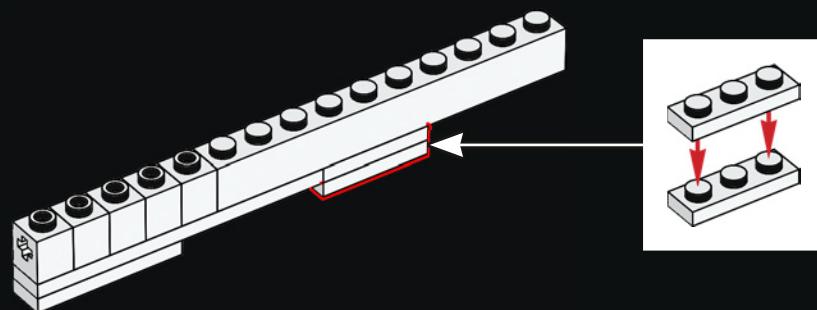
400



401

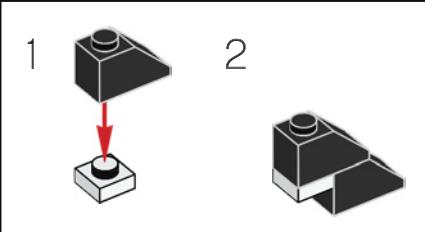
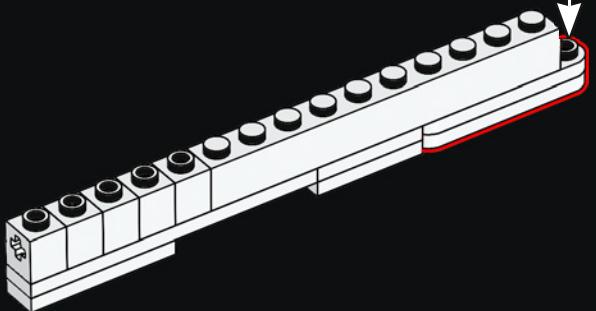
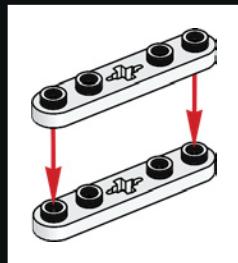


402

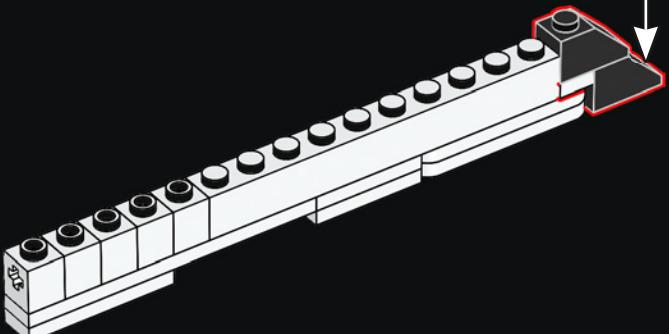




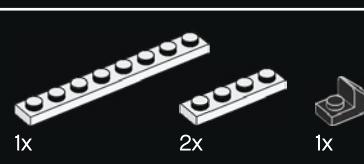
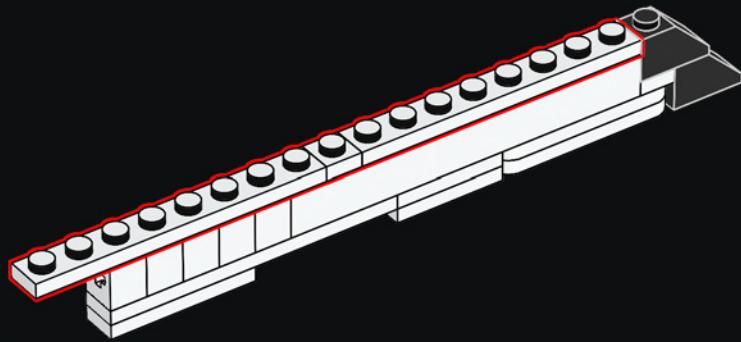
403



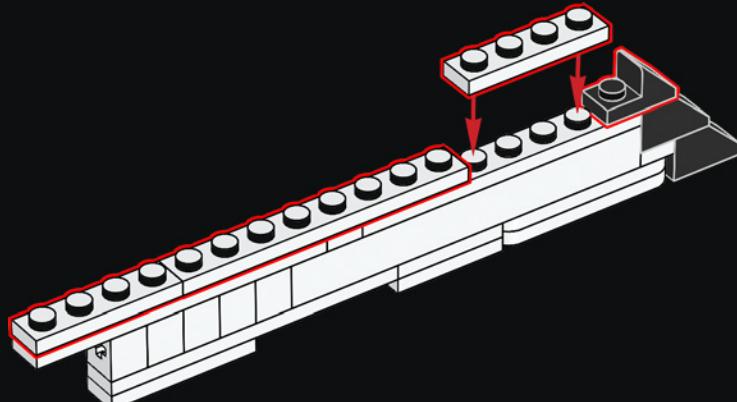
404

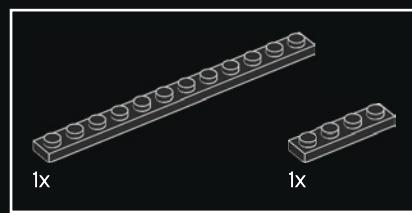


405

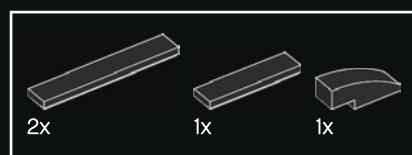
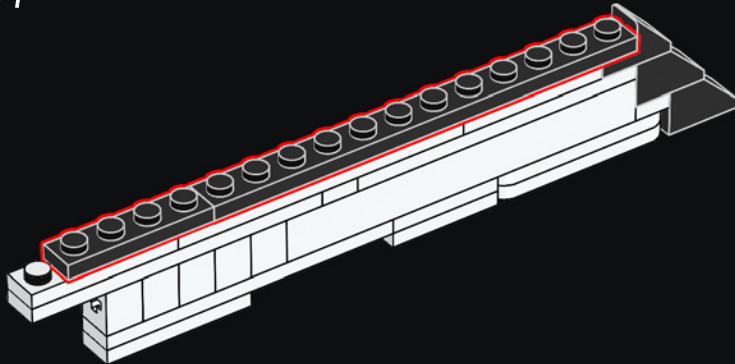


406

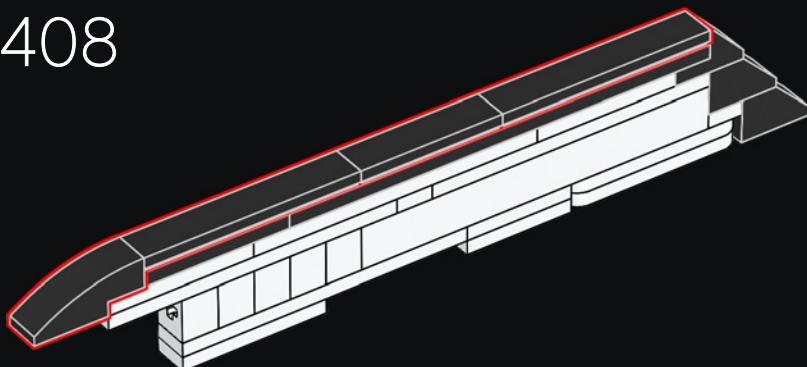




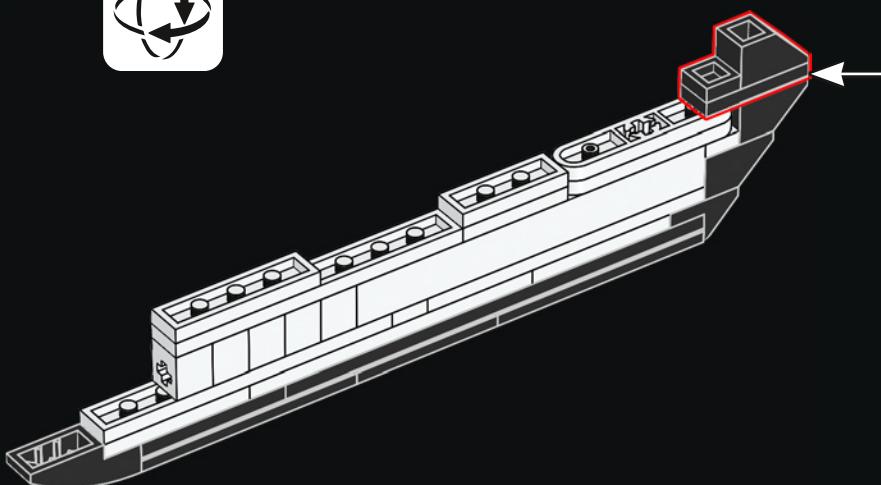
407



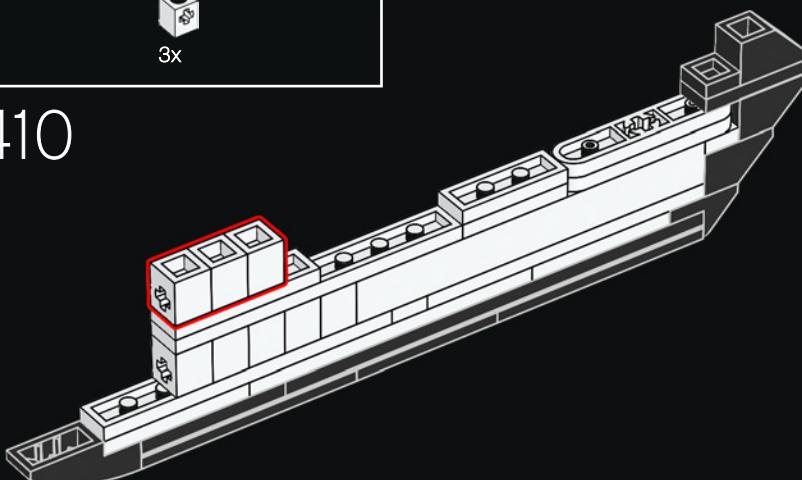
408

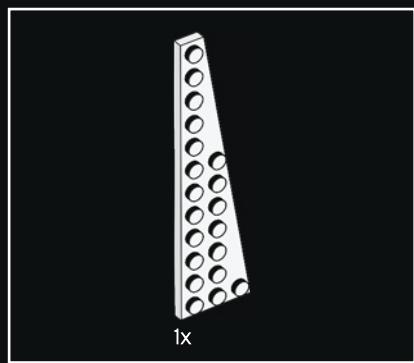
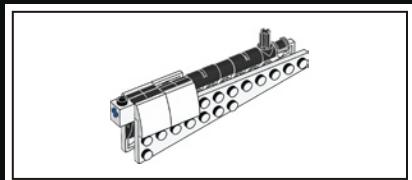


409

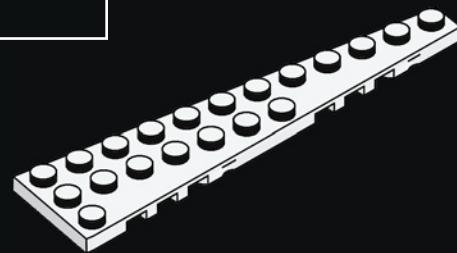


410

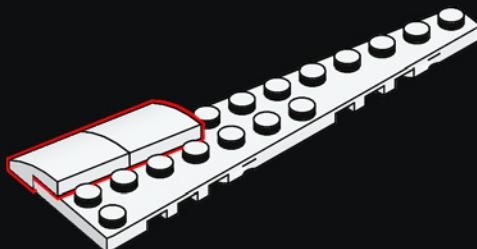




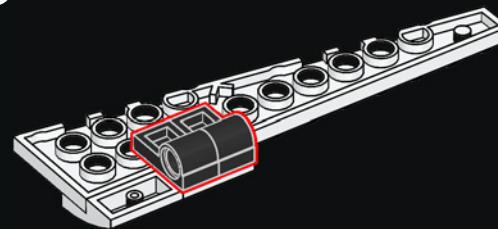
411



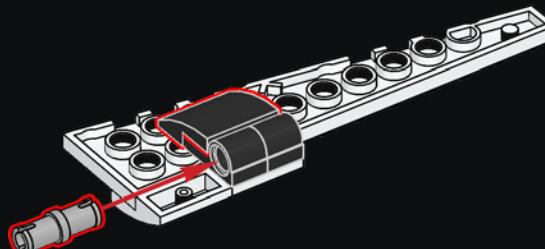
412



413

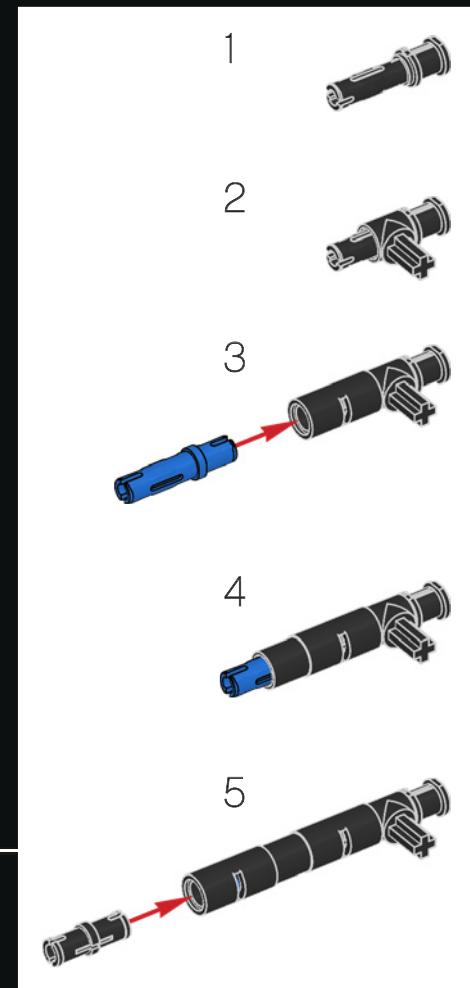
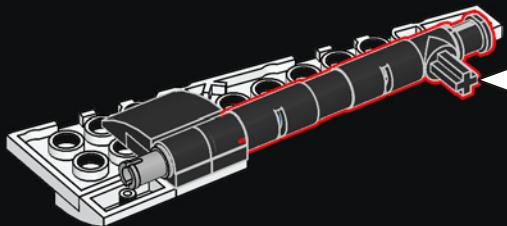


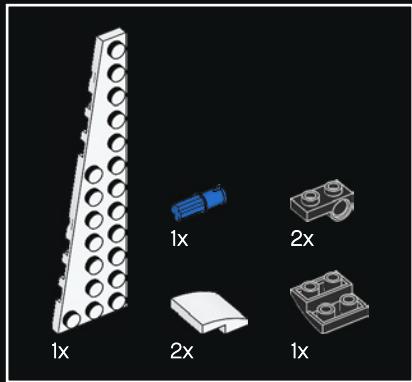
414



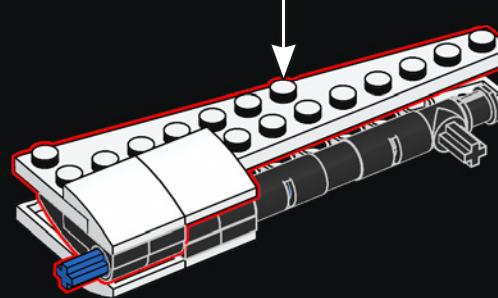
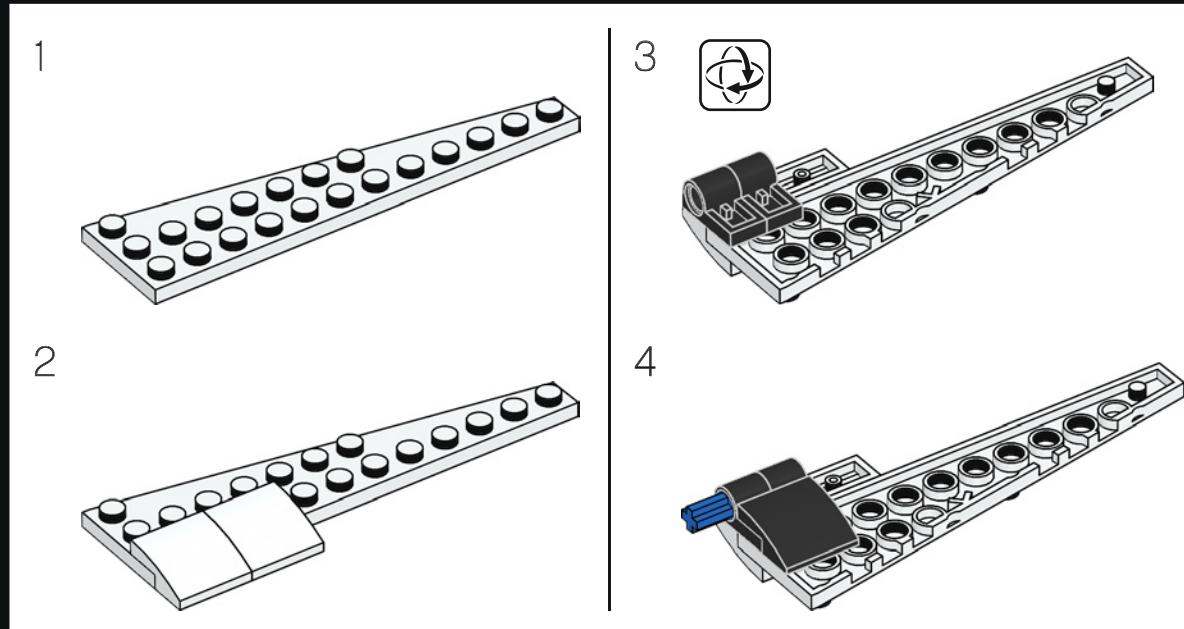


415





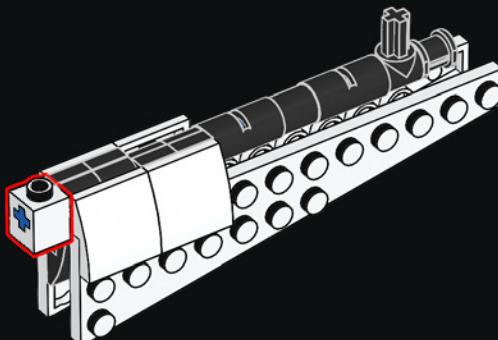
416



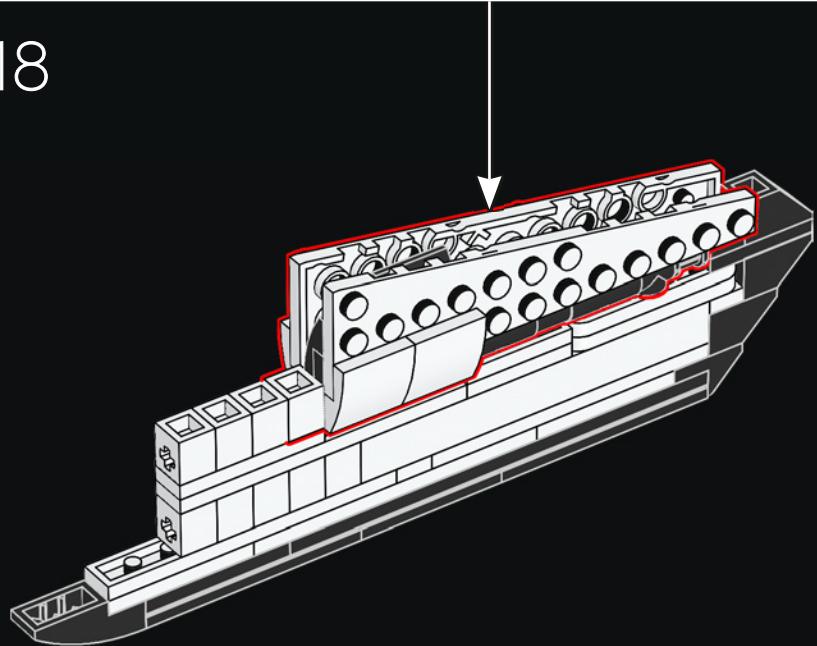


1x

417



418

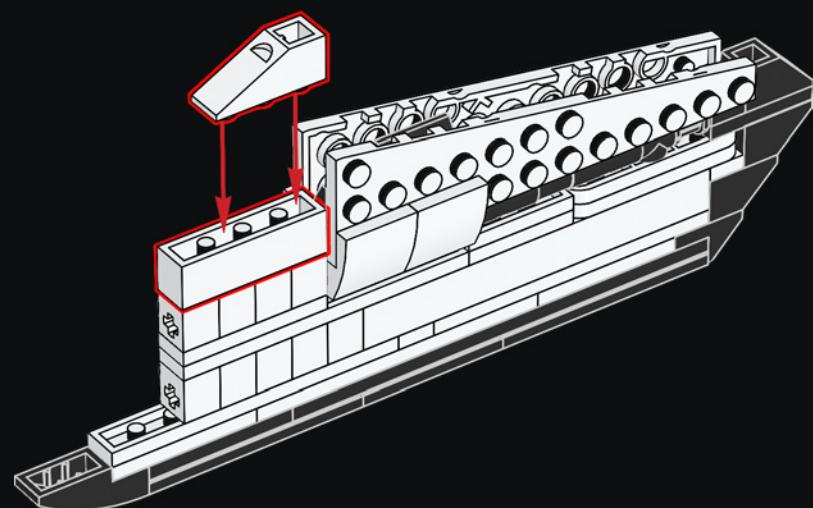


1x



1x

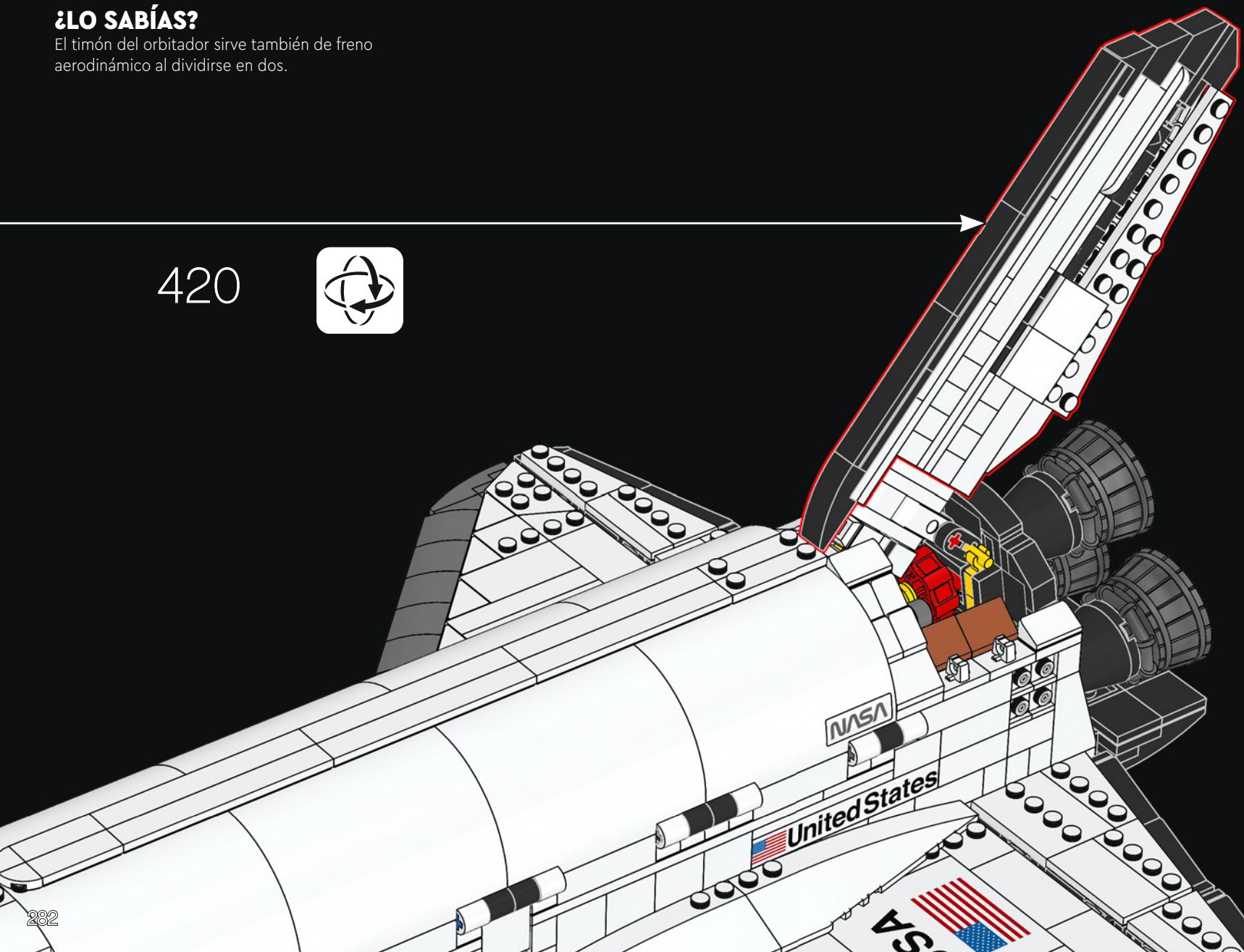
419

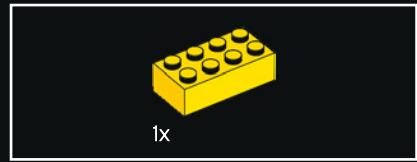
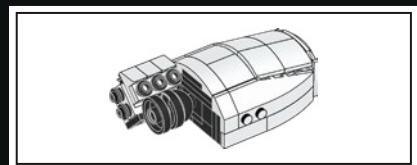
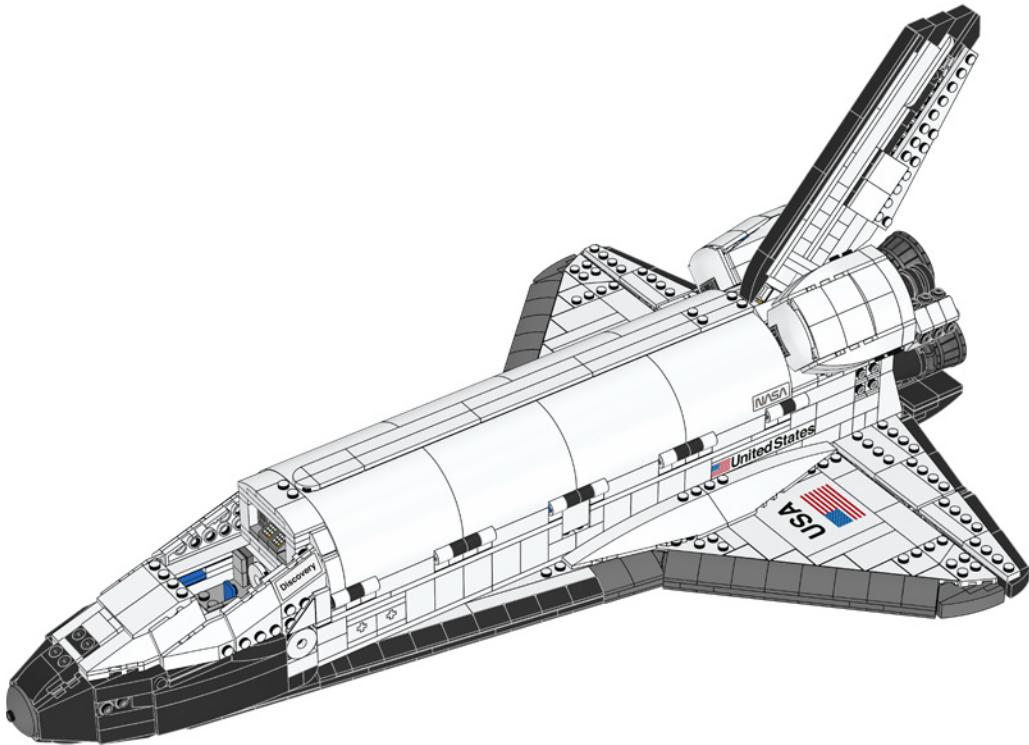


## ¿LO SABÍAS?

El timón del orbitador sirve también de freno aerodinámico al dividirse en dos.

420

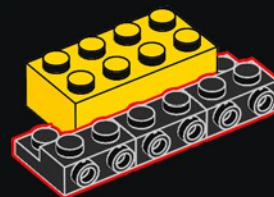




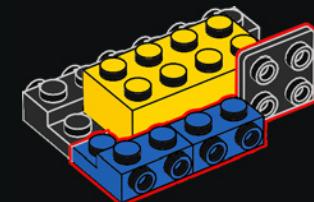
421



422

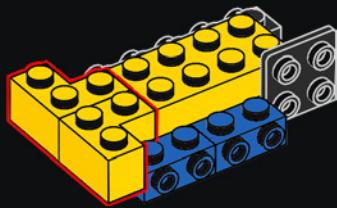


423

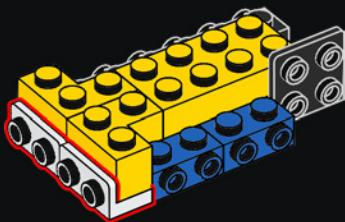




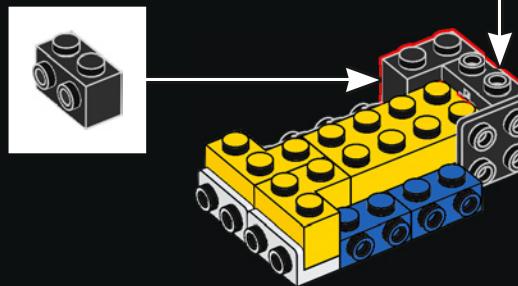
424



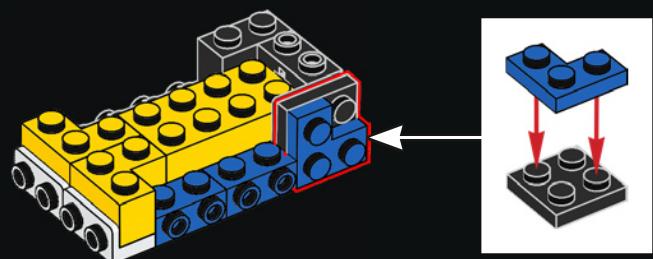
425



426



427



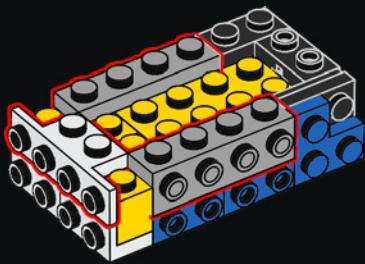


2x



1x

428

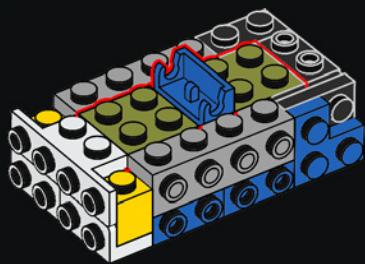


1x



2x

429

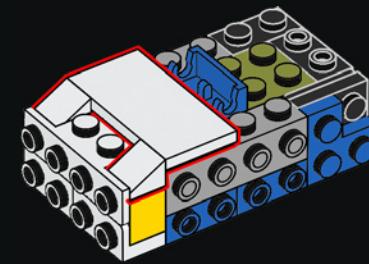


1x



2x

430

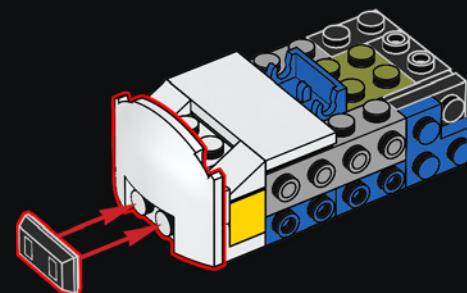


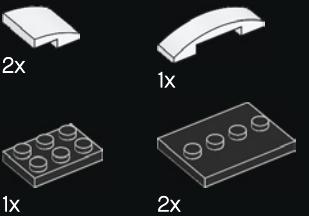
1x



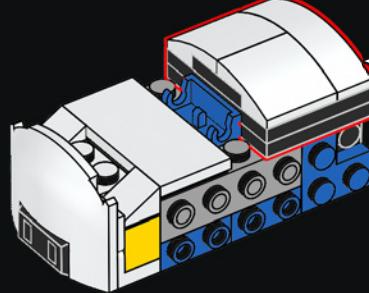
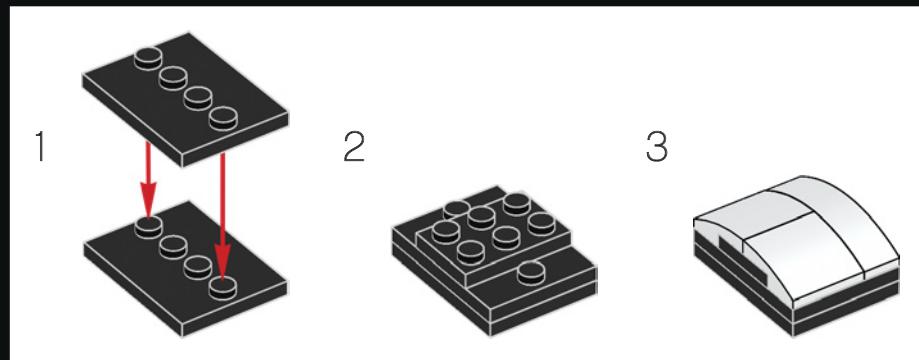
1x

431

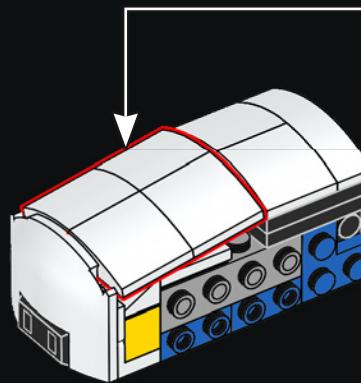




432

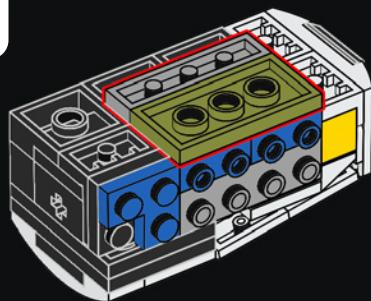


433

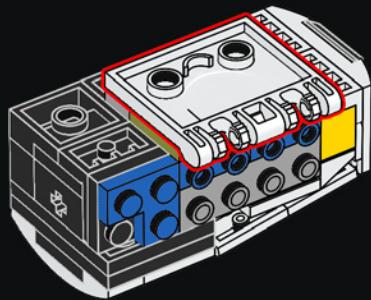




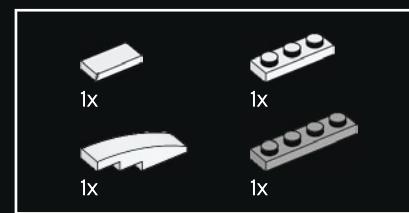
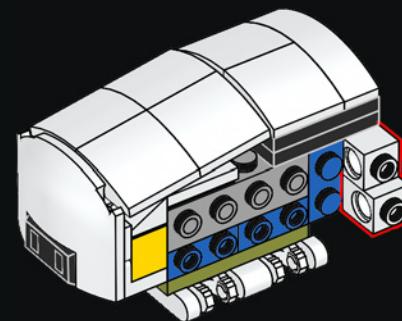
434



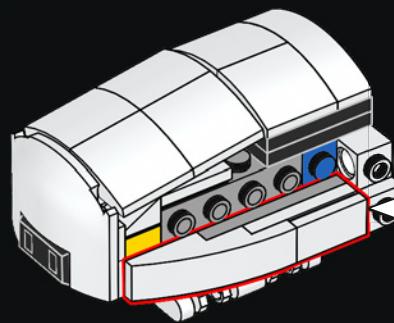
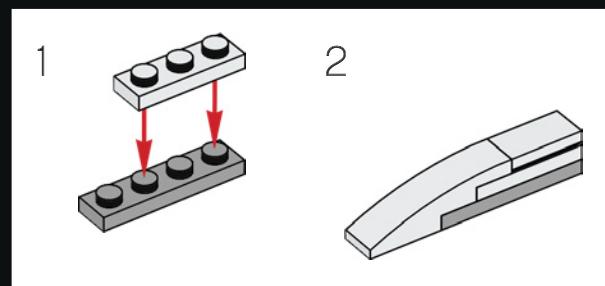
435



436

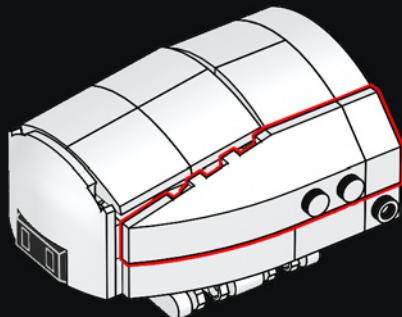


437

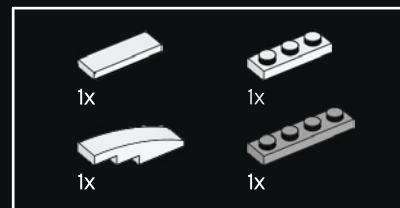
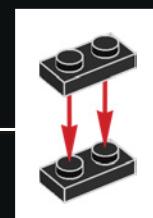
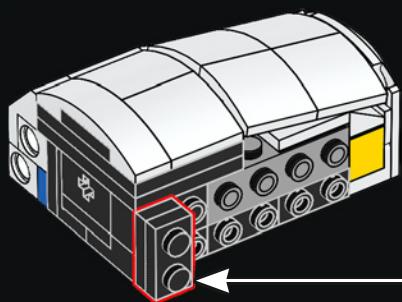




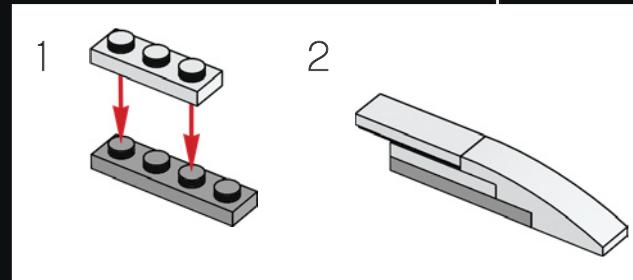
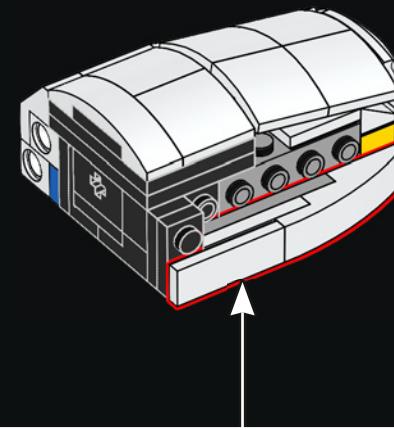
438

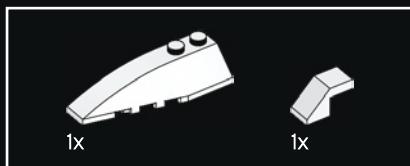


439

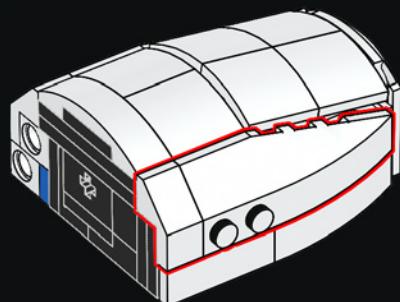


440

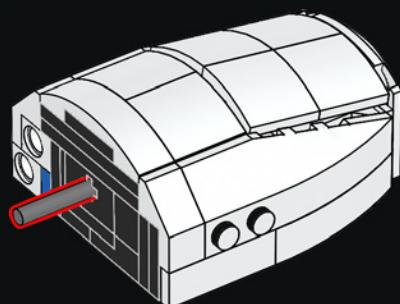




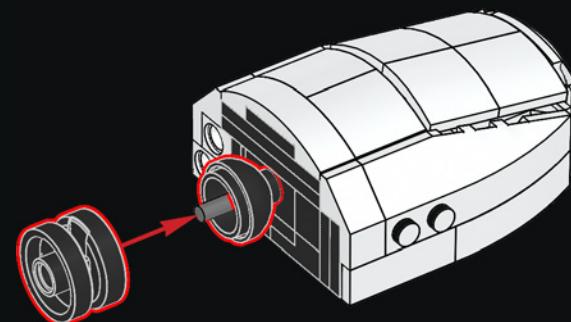
441



442

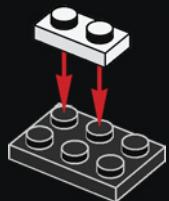


443

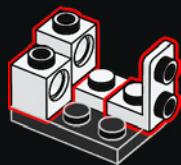




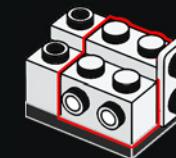
444



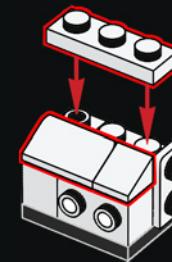
445



446



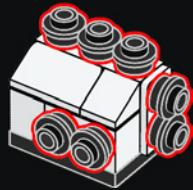
447





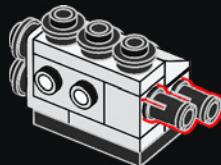
7x

448

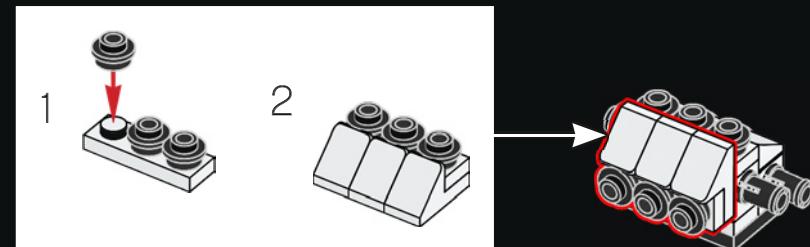


2x

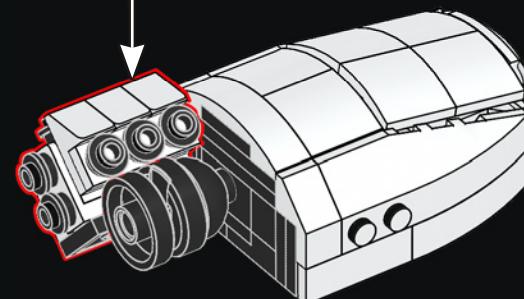
449



450



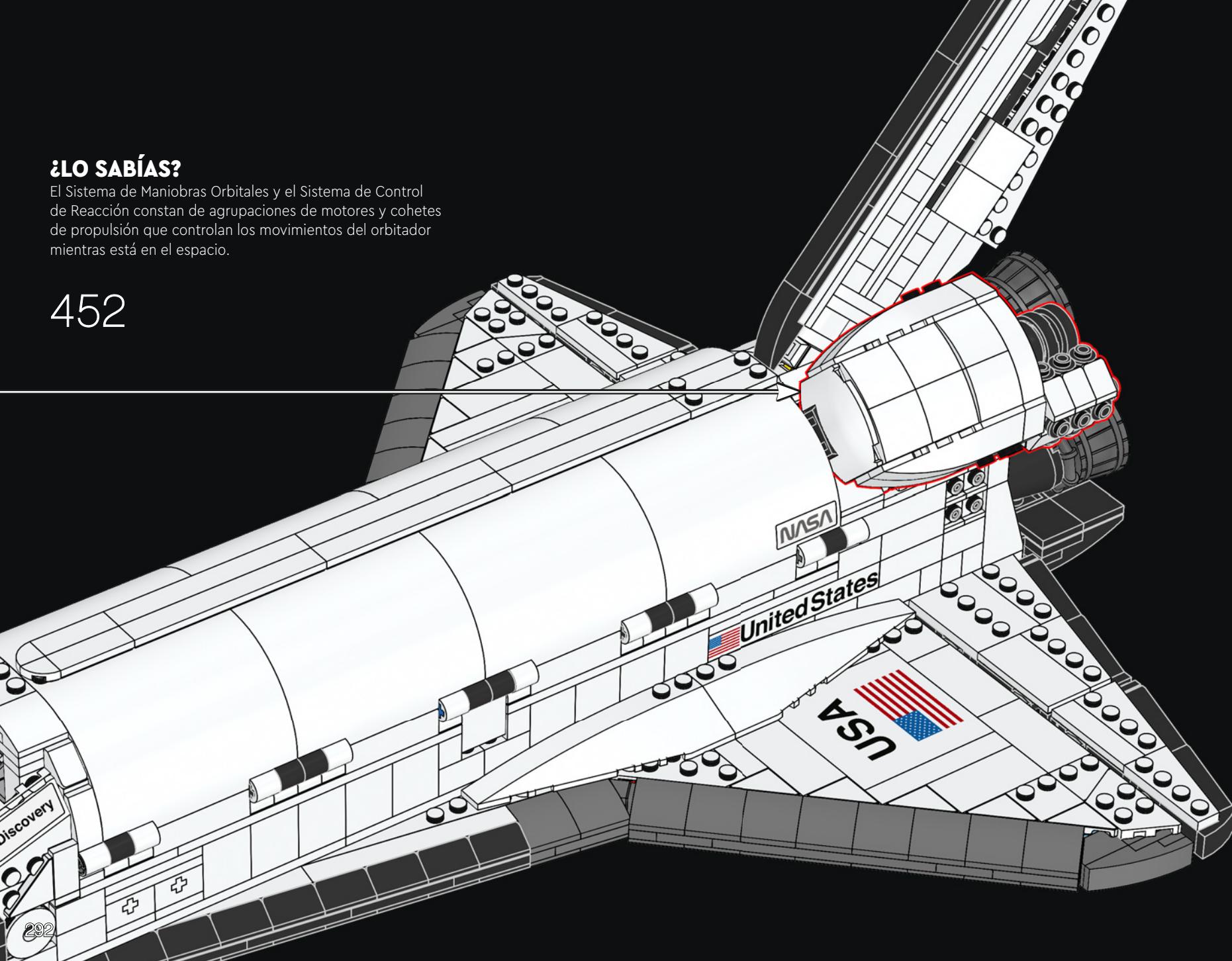
451

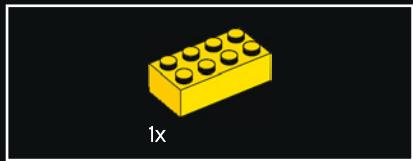
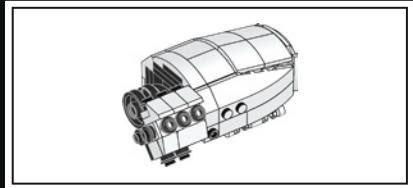


## ¿LO SABÍAS?

El Sistema de Maniobras Orbitales y el Sistema de Control de Reacción constan de agrupaciones de motores y cohetes de propulsión que controlan los movimientos del orbitador mientras está en el espacio.

452

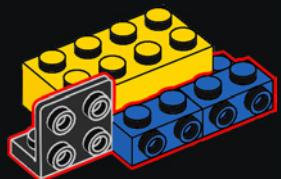




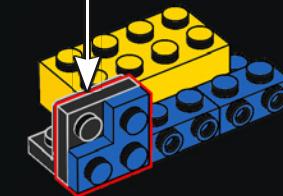
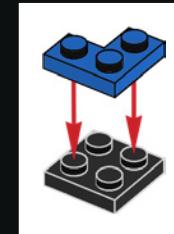
453



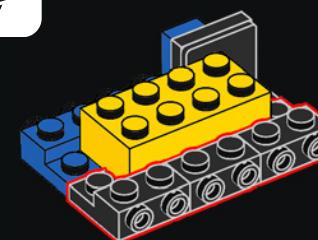
454



455

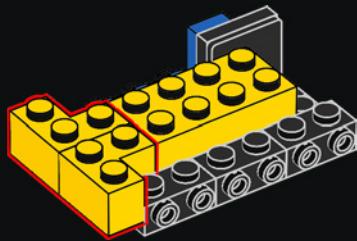


456

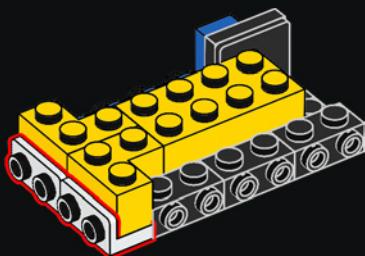




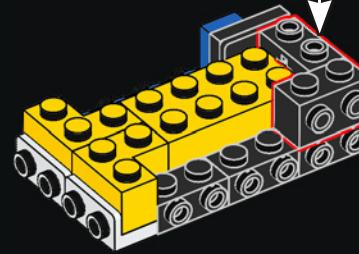
457



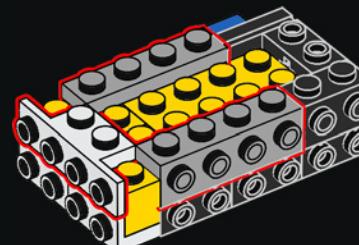
458



459



460



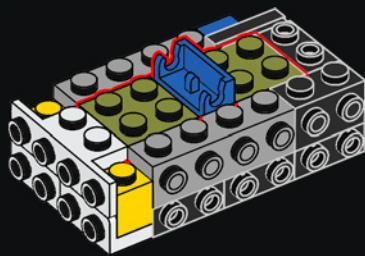


1x



2x

461

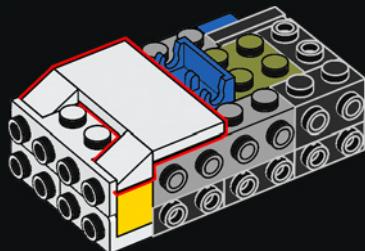


2x



1x

462

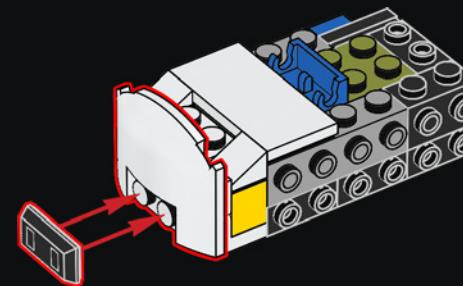


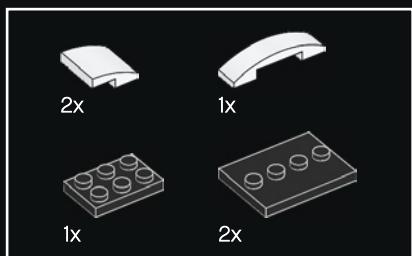
1x



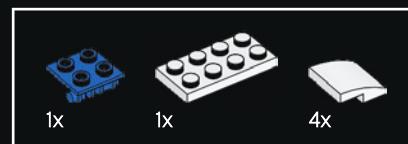
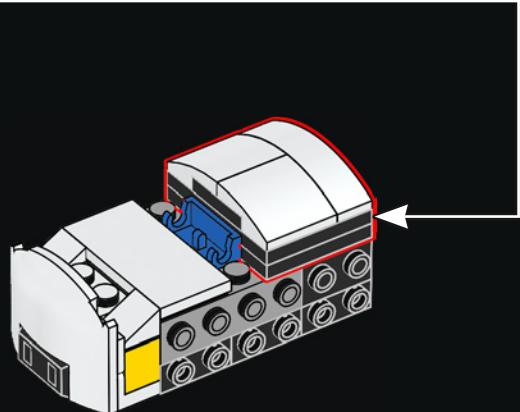
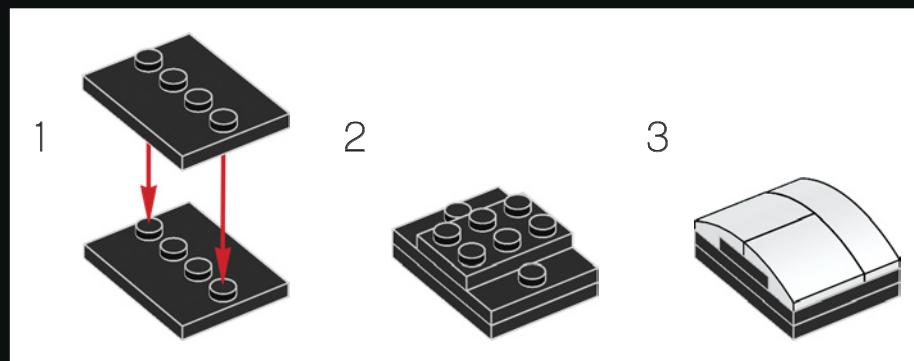
1x

463

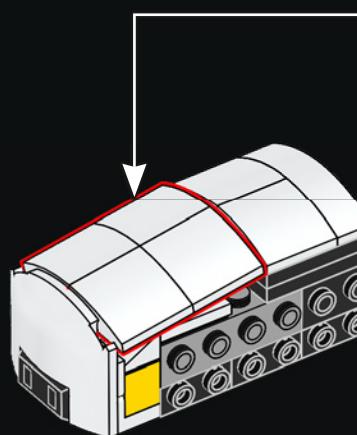
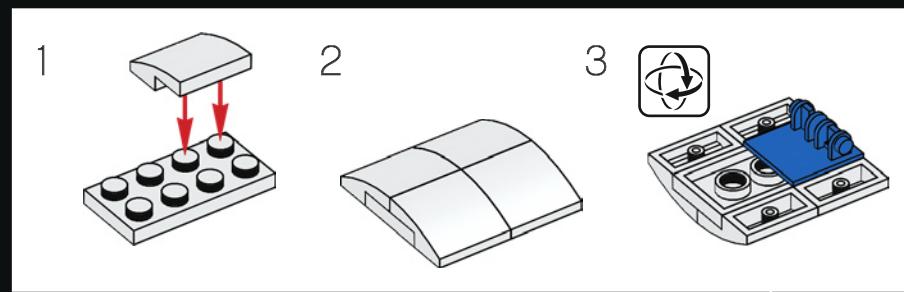




464

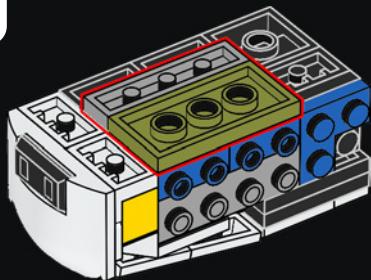


465



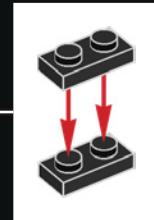
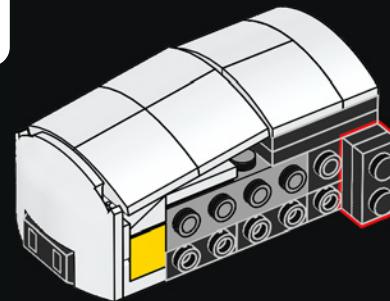


466



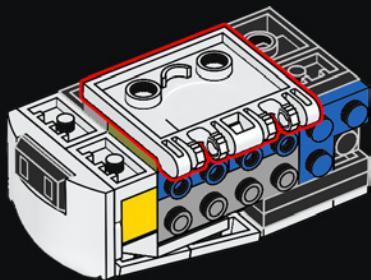
2x

468

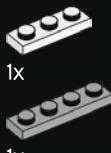


1x

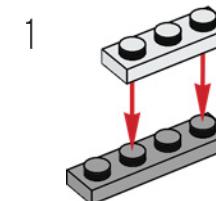
467



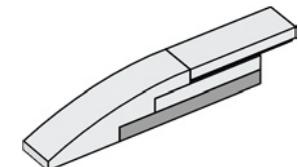
1x



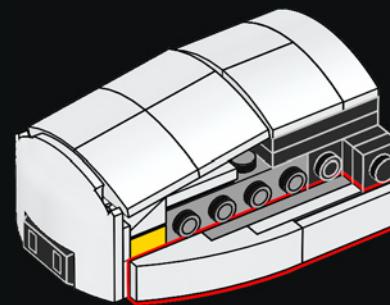
1x



2

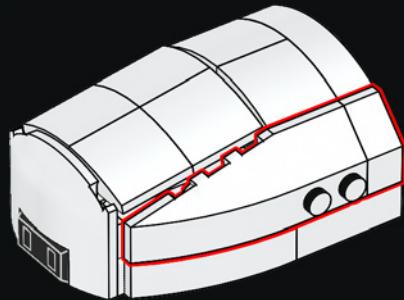


469

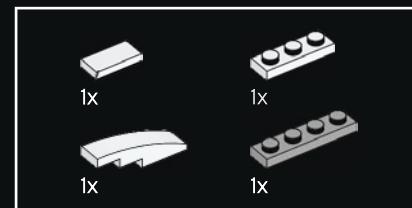
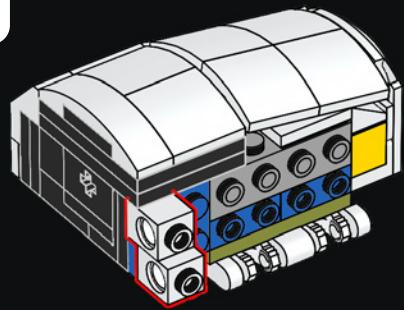




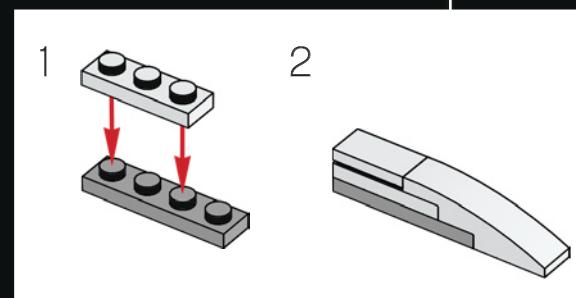
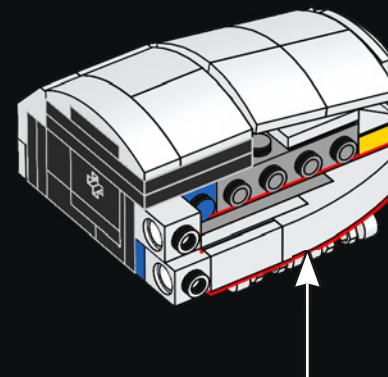
470



471



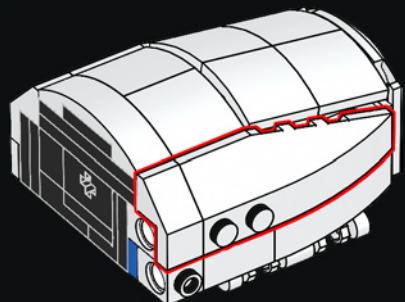
472





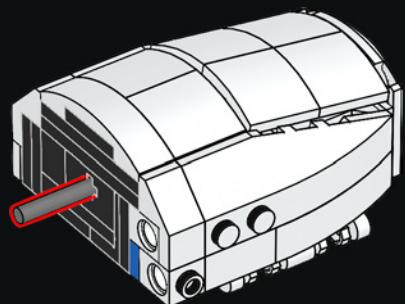
1x  
1x

473



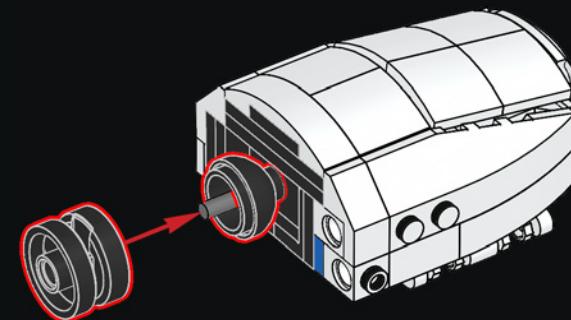
1x

474



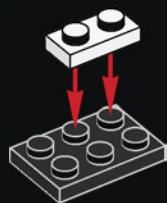
1x  
1x

475

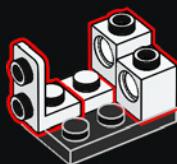




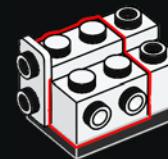
476



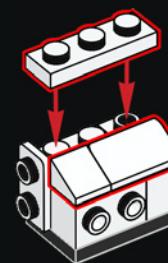
477



478



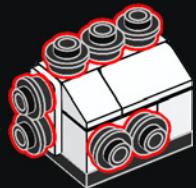
479





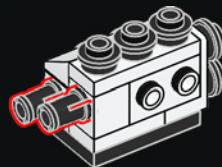
7x

480



2x

481



1x

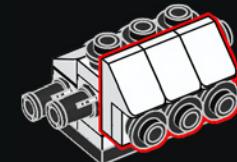
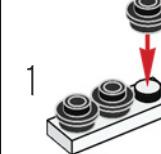


3x

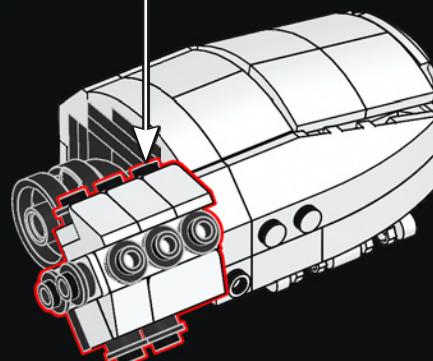


3x

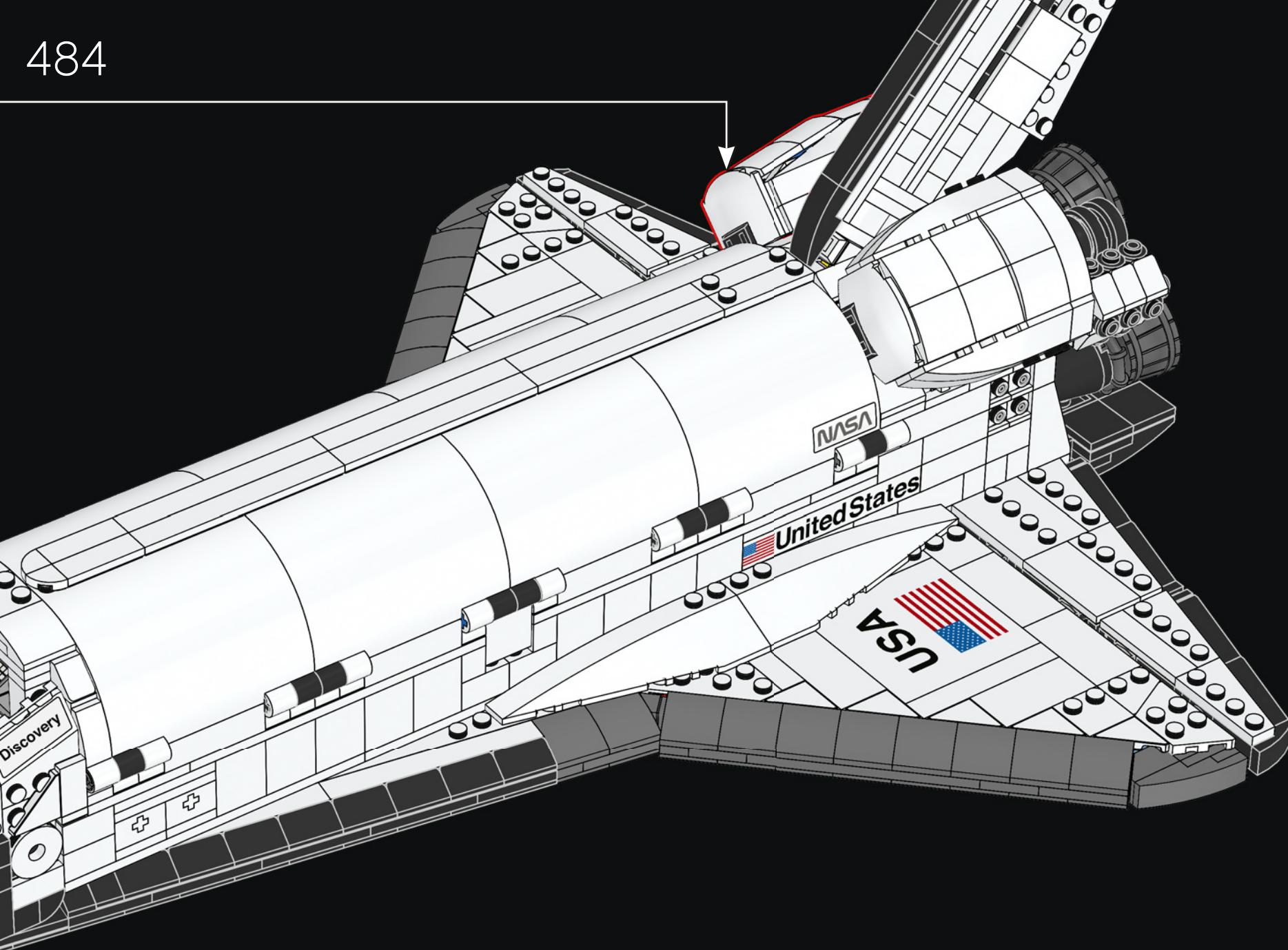
482



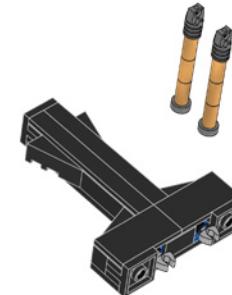
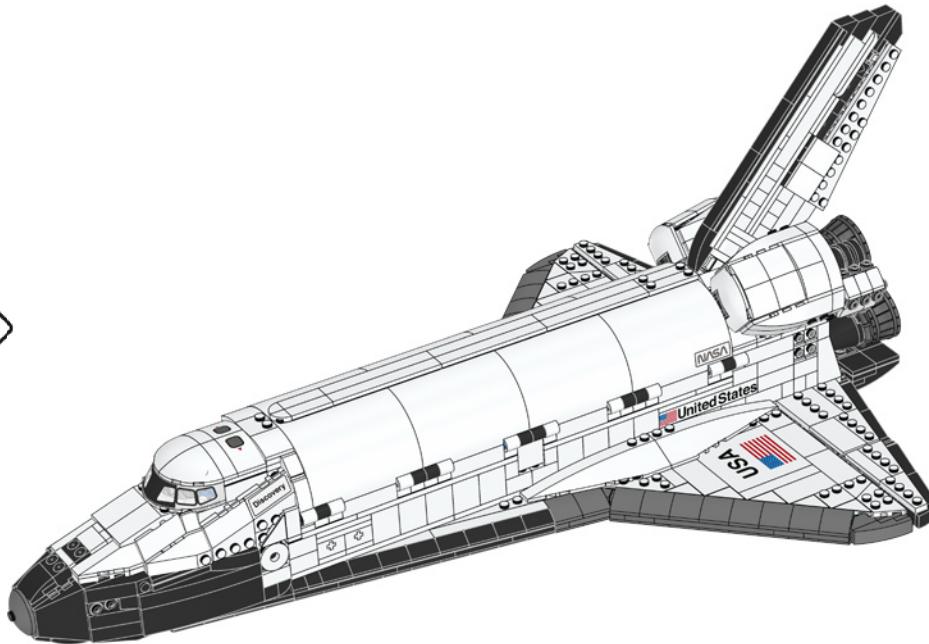
483



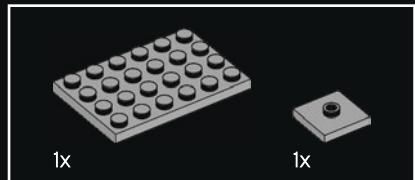
484



302

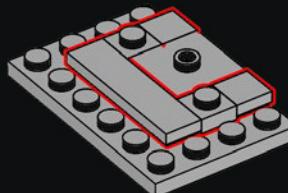
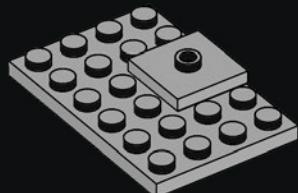


486

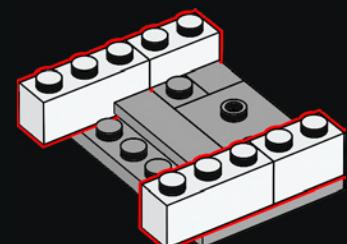


1x 1x

485

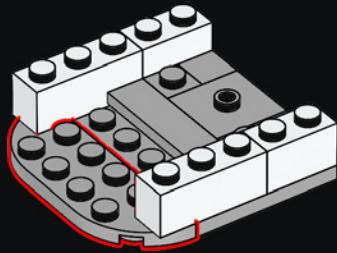


487

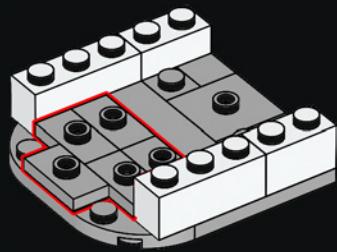




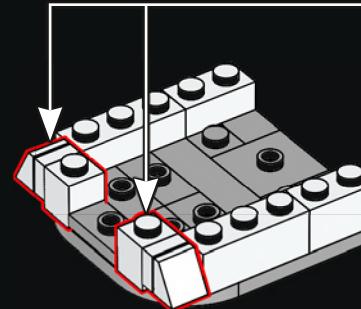
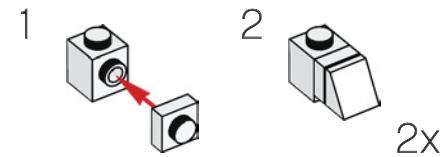
488



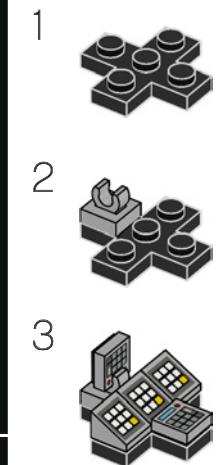
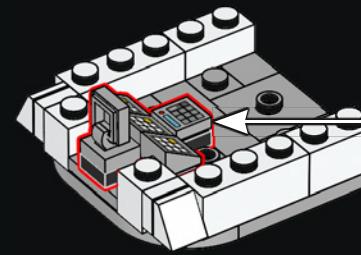
489



490

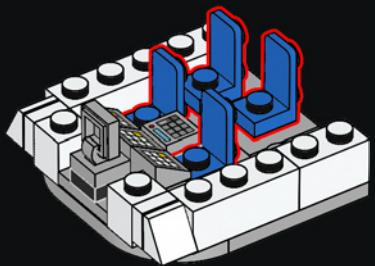


491





492

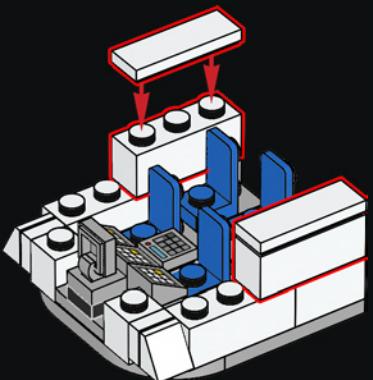


2x

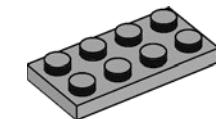
2x



493



494



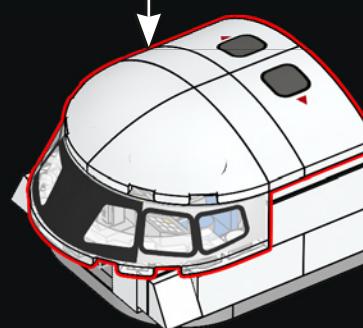
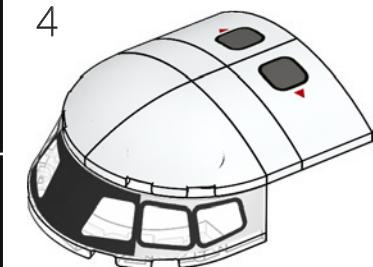
2



3



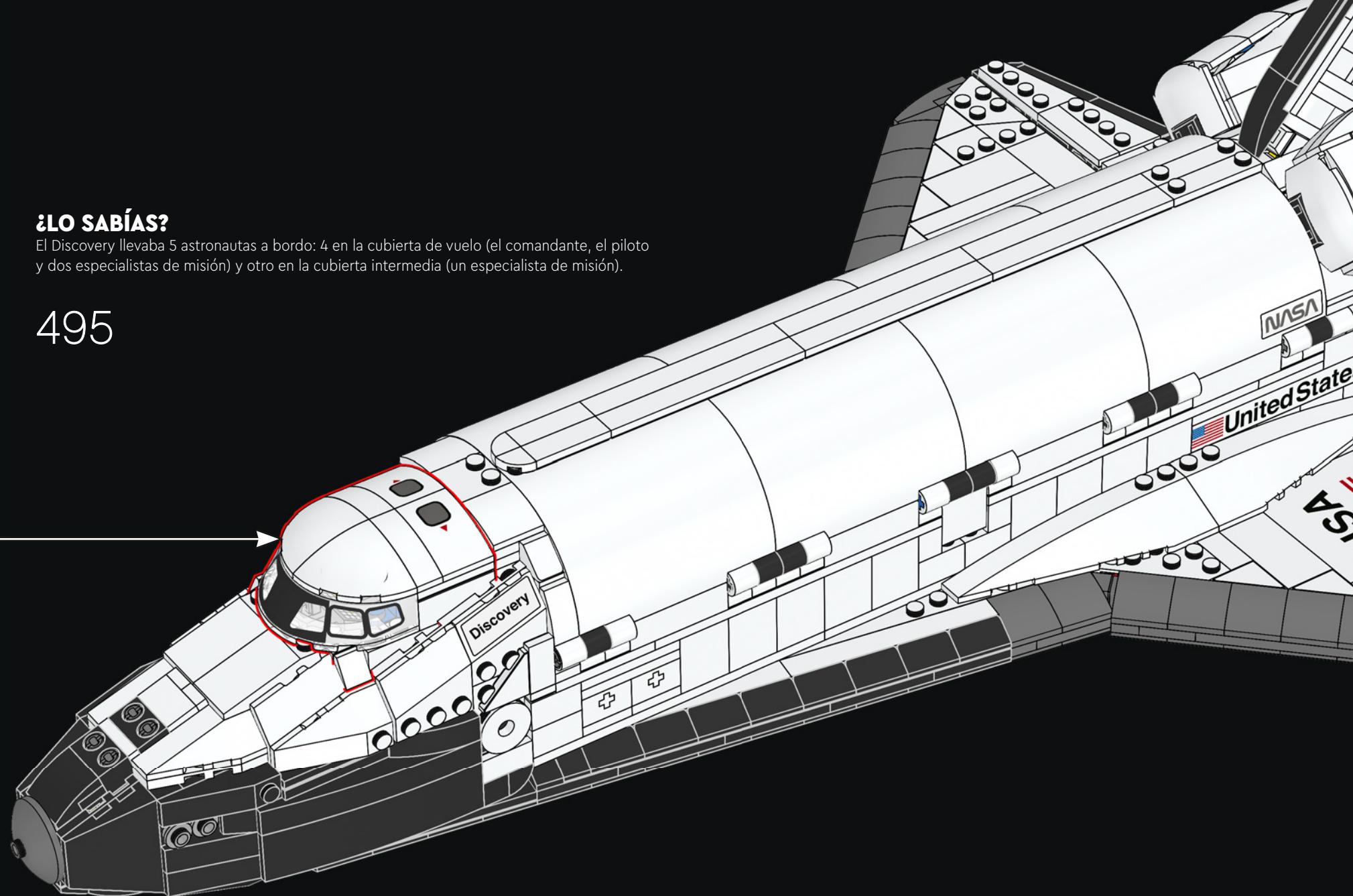
4

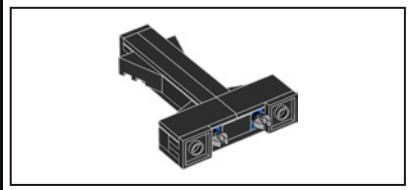


## ¿LO SABÍAS?

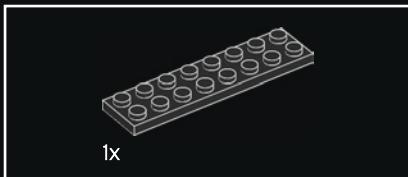
El Discovery llevaba 5 astronautas a bordo: 4 en la cubierta de vuelo (el comandante, el piloto y dos especialistas de misión) y otro en la cubierta intermedia (un especialista de misión).

495



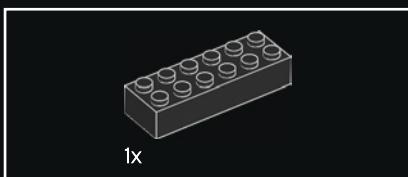
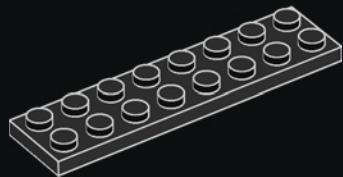


1x



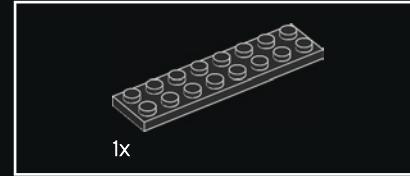
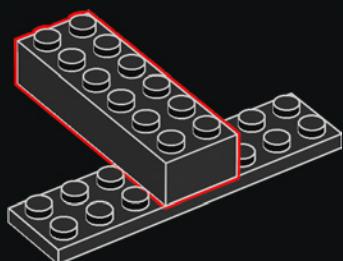
1x

496



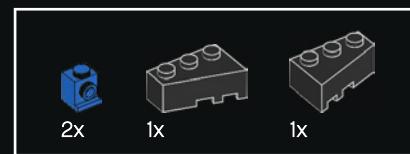
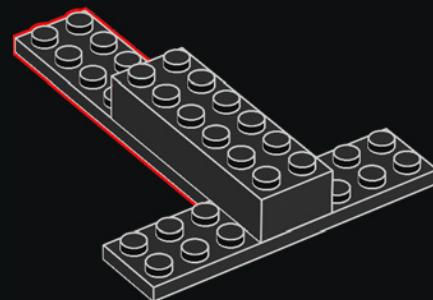
1x

497



1x

498

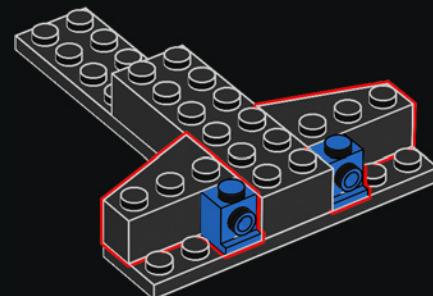


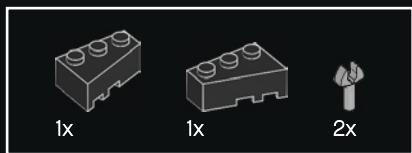
2x

1x

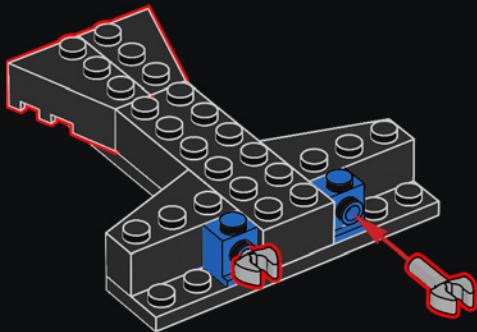
1x

499

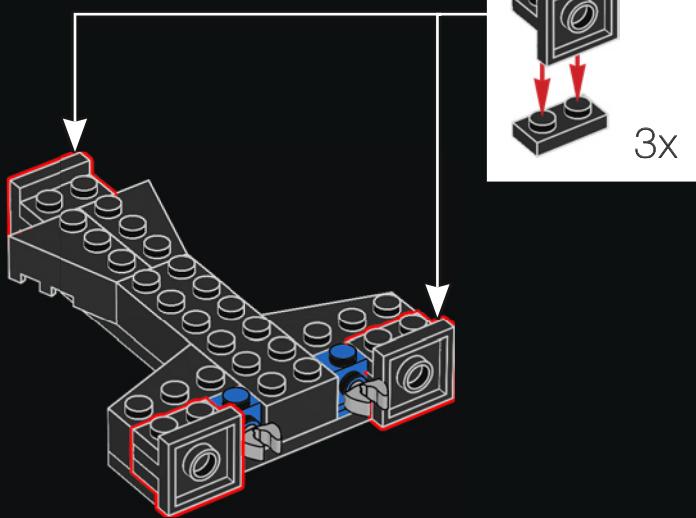




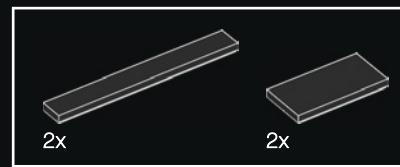
500



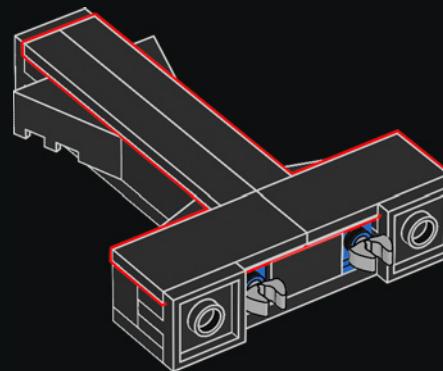
501



308

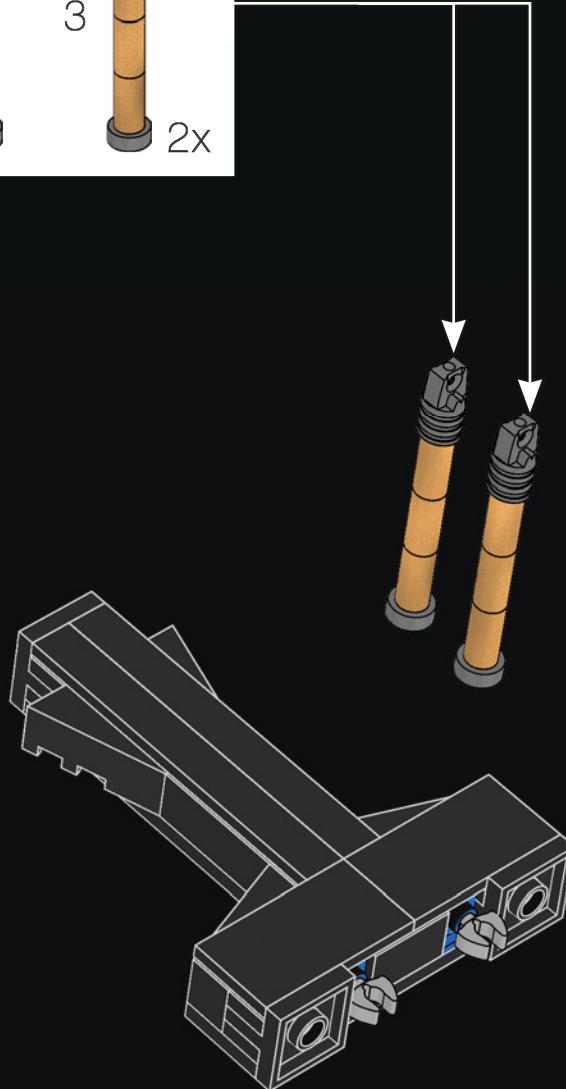
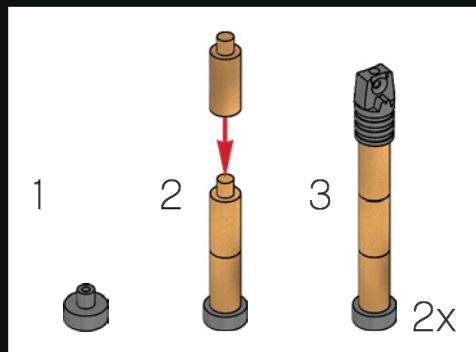


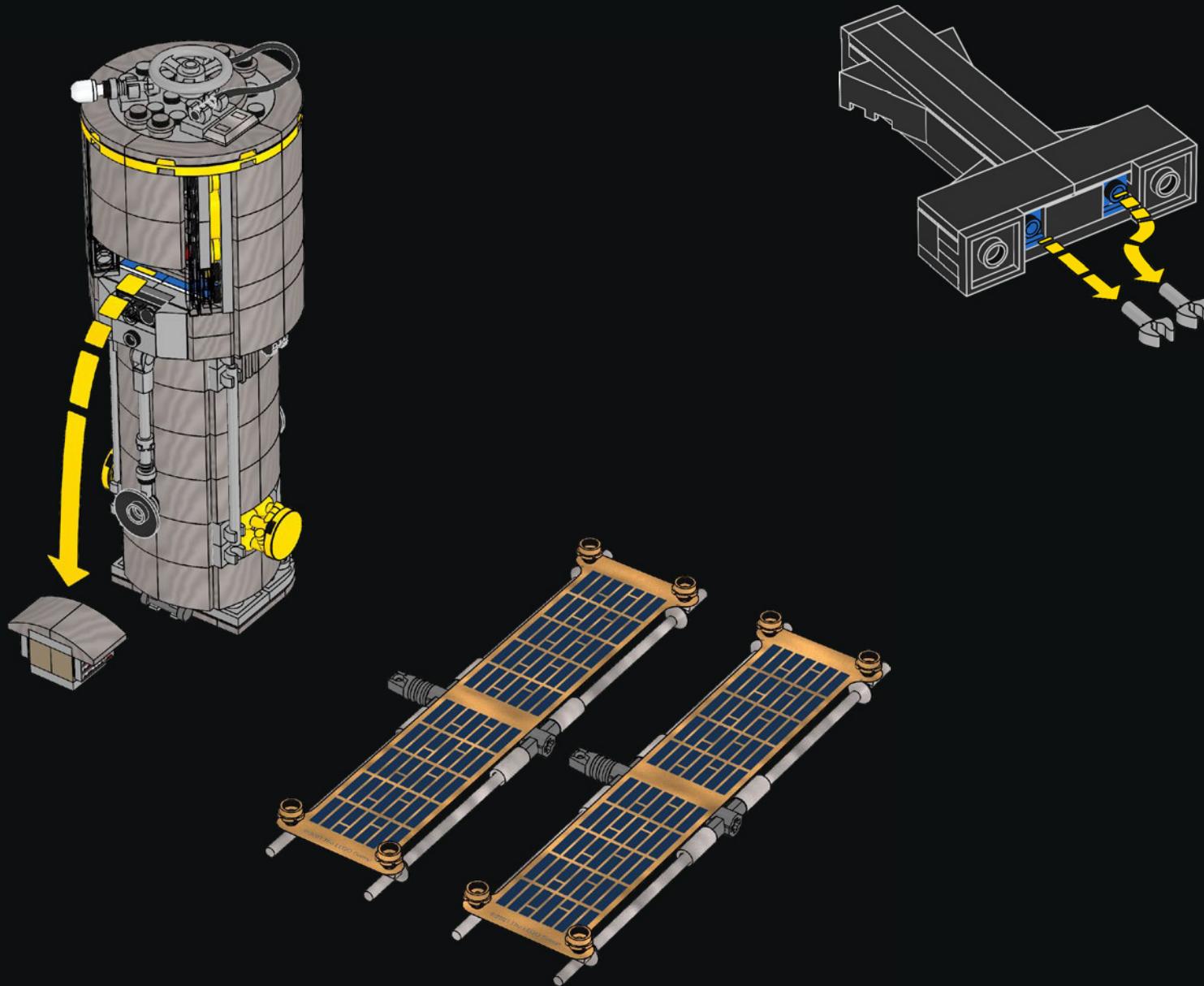
502

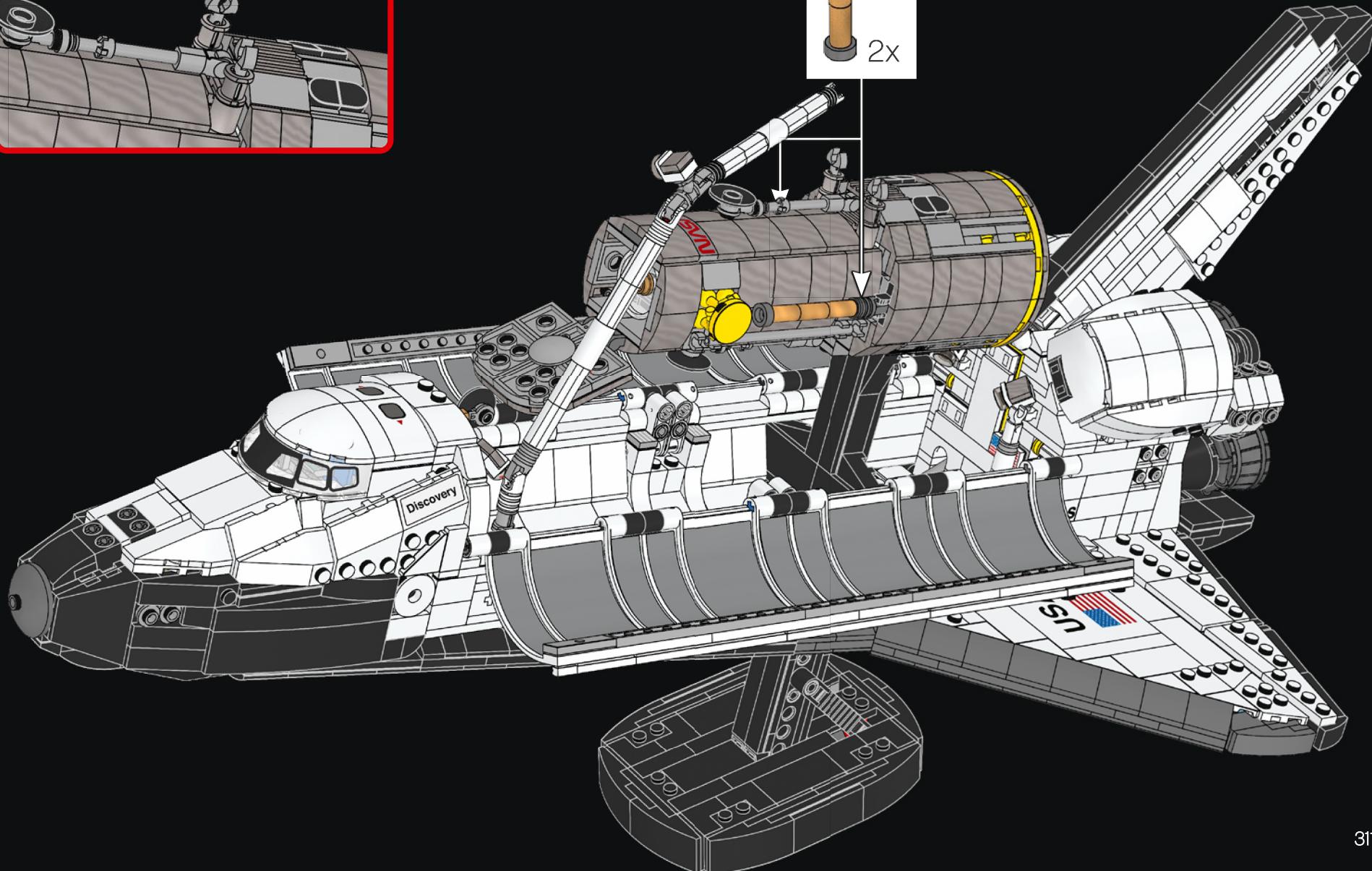
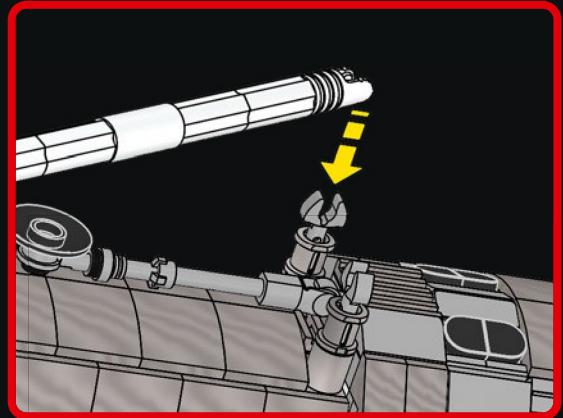


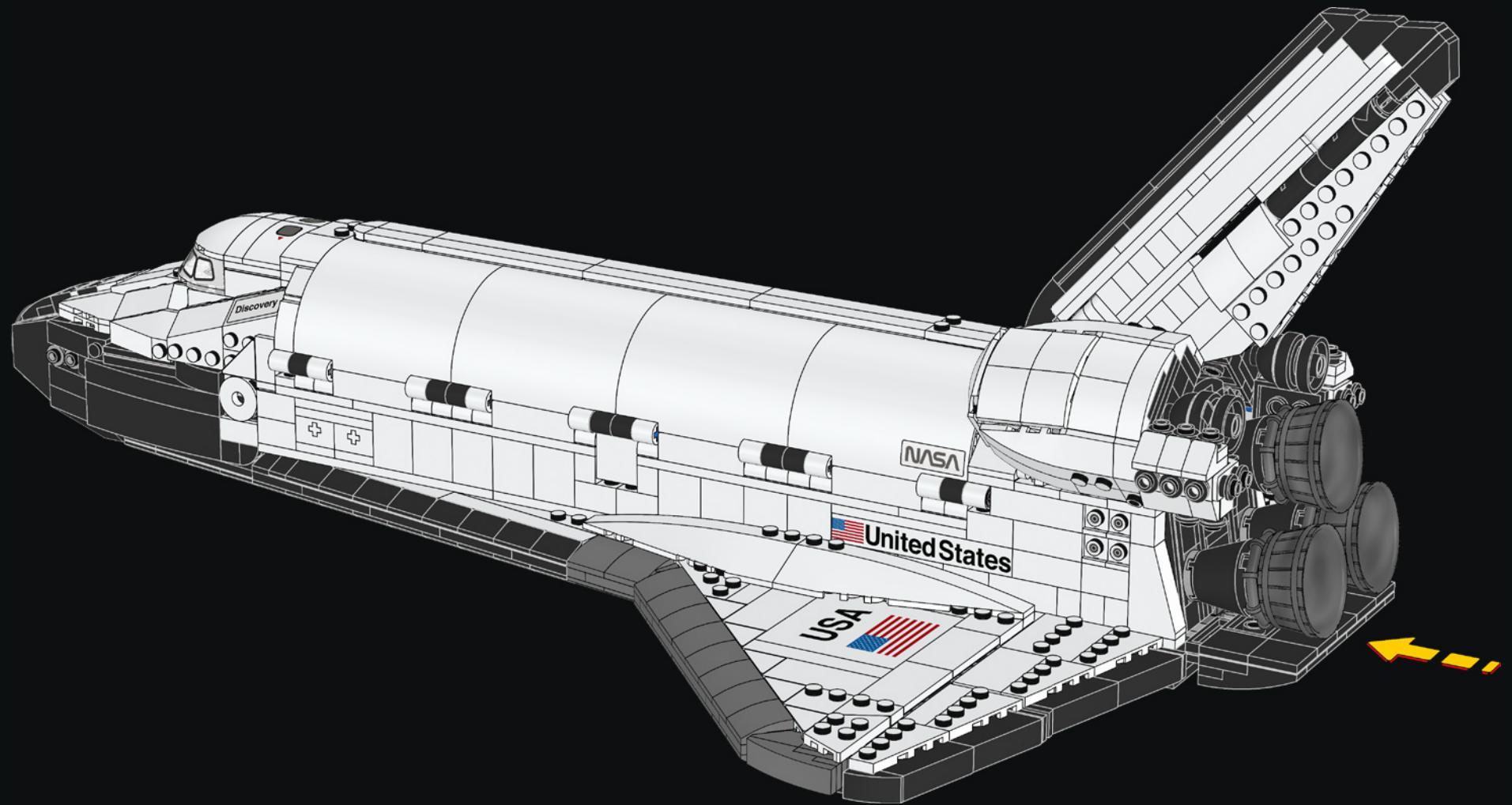


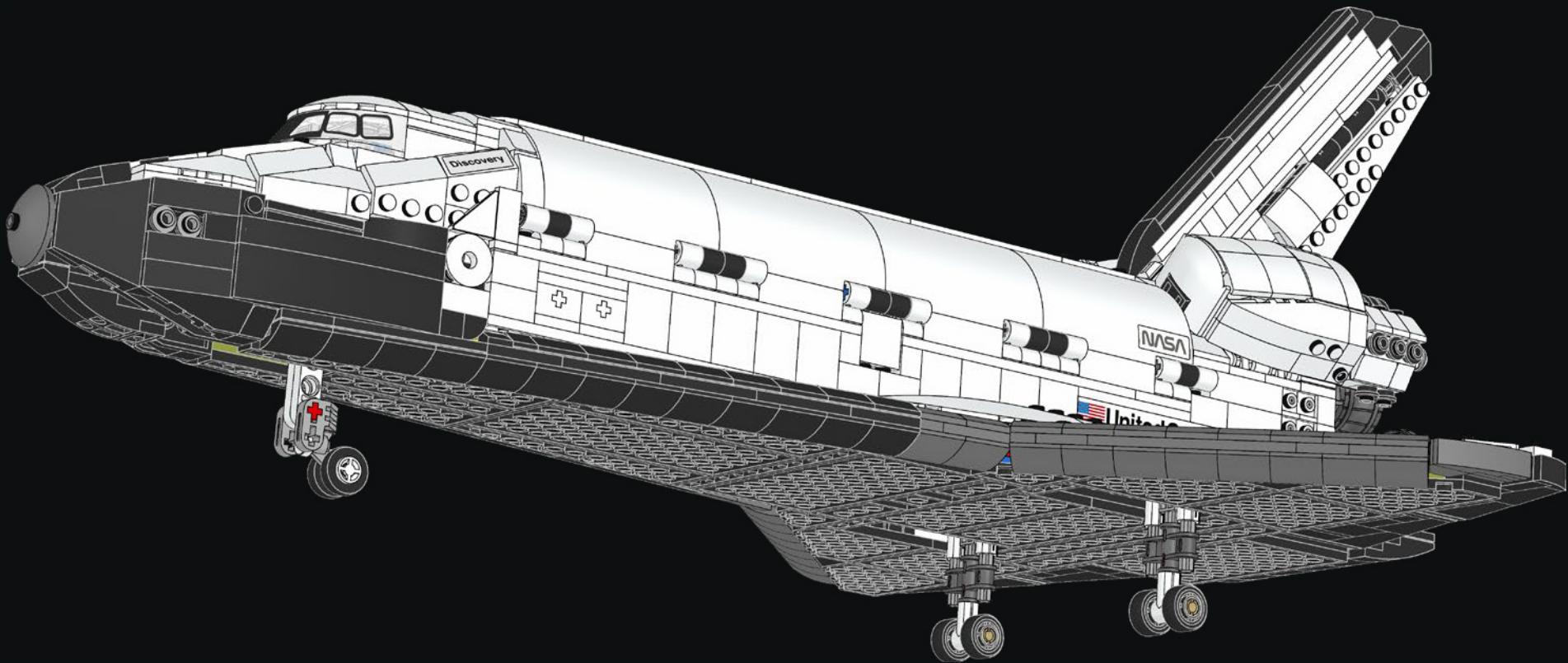
503

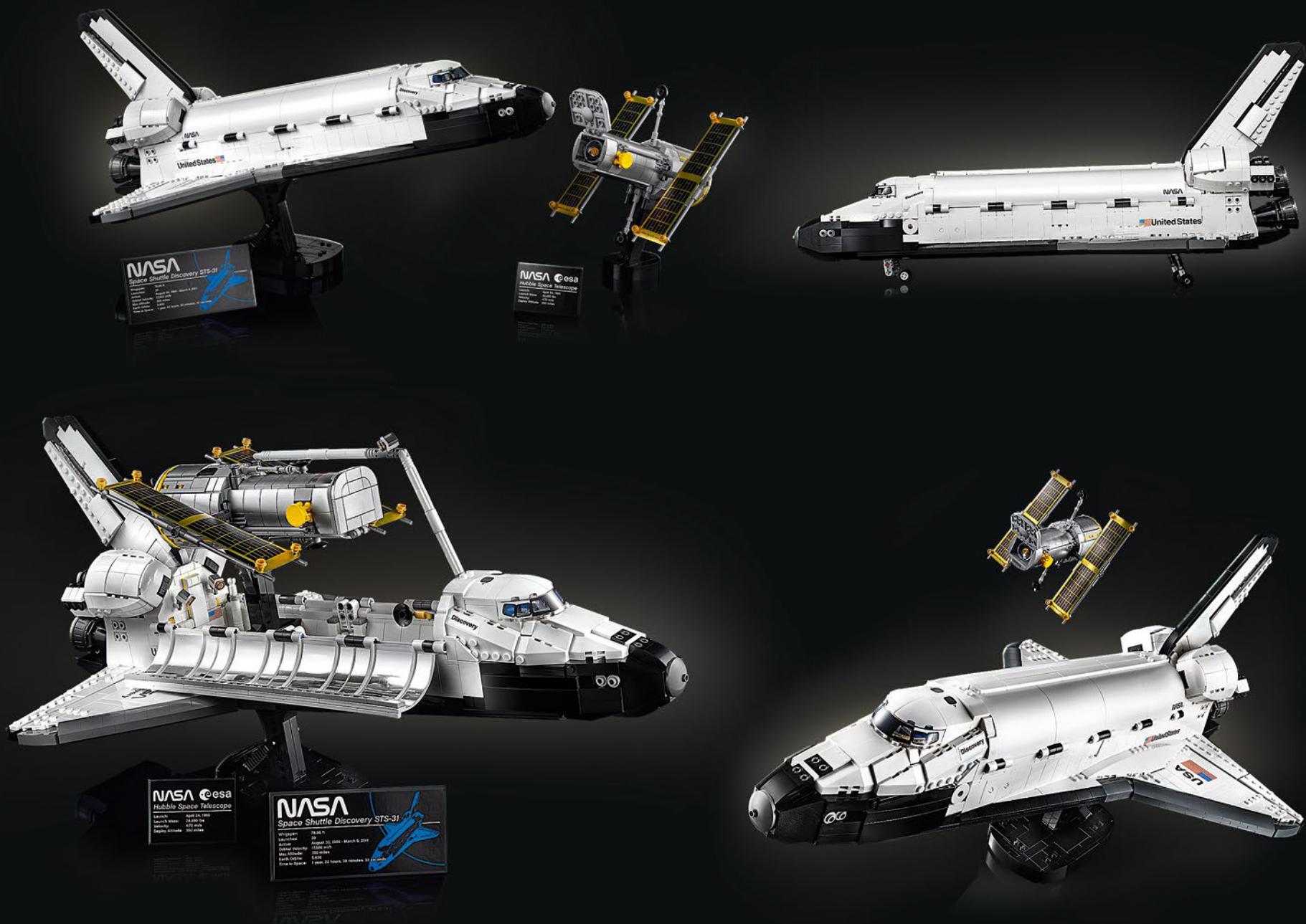














# FEEDBACK AND **WIN**



## FEEDBACK AND **WIN**

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

Please visit:

## FEEDBACK UND **GEWINNEN**

Dein Feedback trägt zur Weiterentwicklung dieser Produktreihe bei.

Geh auf:

## COMMENTEZ ET GAGNEZ

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

Rendez-vous sur :

## COMENTA Y **GANA**

Tu opinión nos ayudará a dar forma al desarrollo de esta serie de productos en el futuro.

Visita:

## 反馈 **有奖**

您的反馈将有助于我们在今后改进本系列产品。

请访问：

[LEGO.com/productfeedback](http://LEGO.com/productfeedback)

By completing, you will automatically enter a drawing to win a LEGO® set.

Terms & Conditions apply.

Durch Ausfüllen nimmst du automatisch an der Verlosung eines LEGO® Preises teil.

Es gelten die Teilnahmebedingungen.

En envoyant vos commentaires, vous serez automatiquement inscrit(e) à un tirage au sort qui vous permettra de remporter un prix LEGO®.

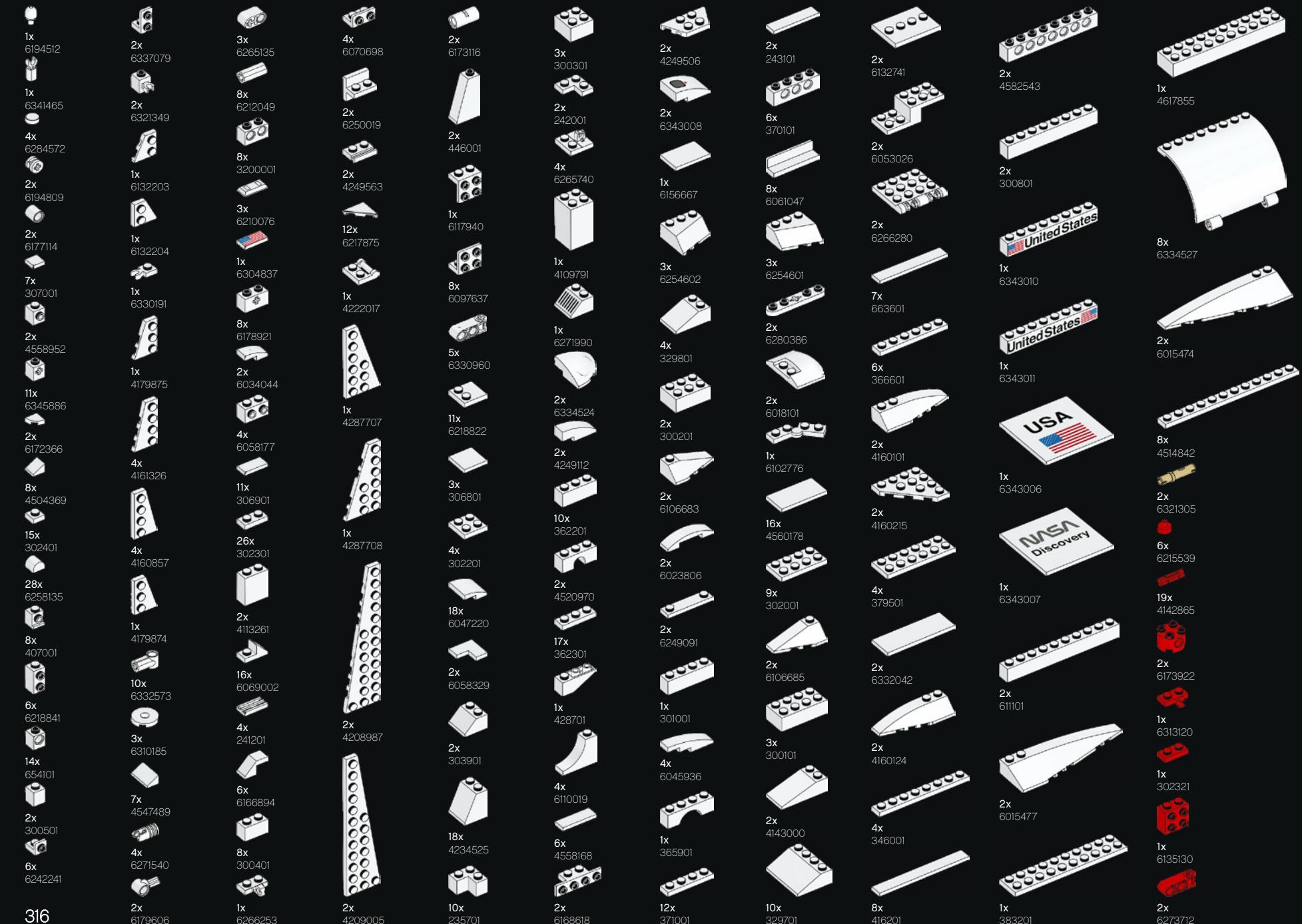
Offre soumise à conditions.

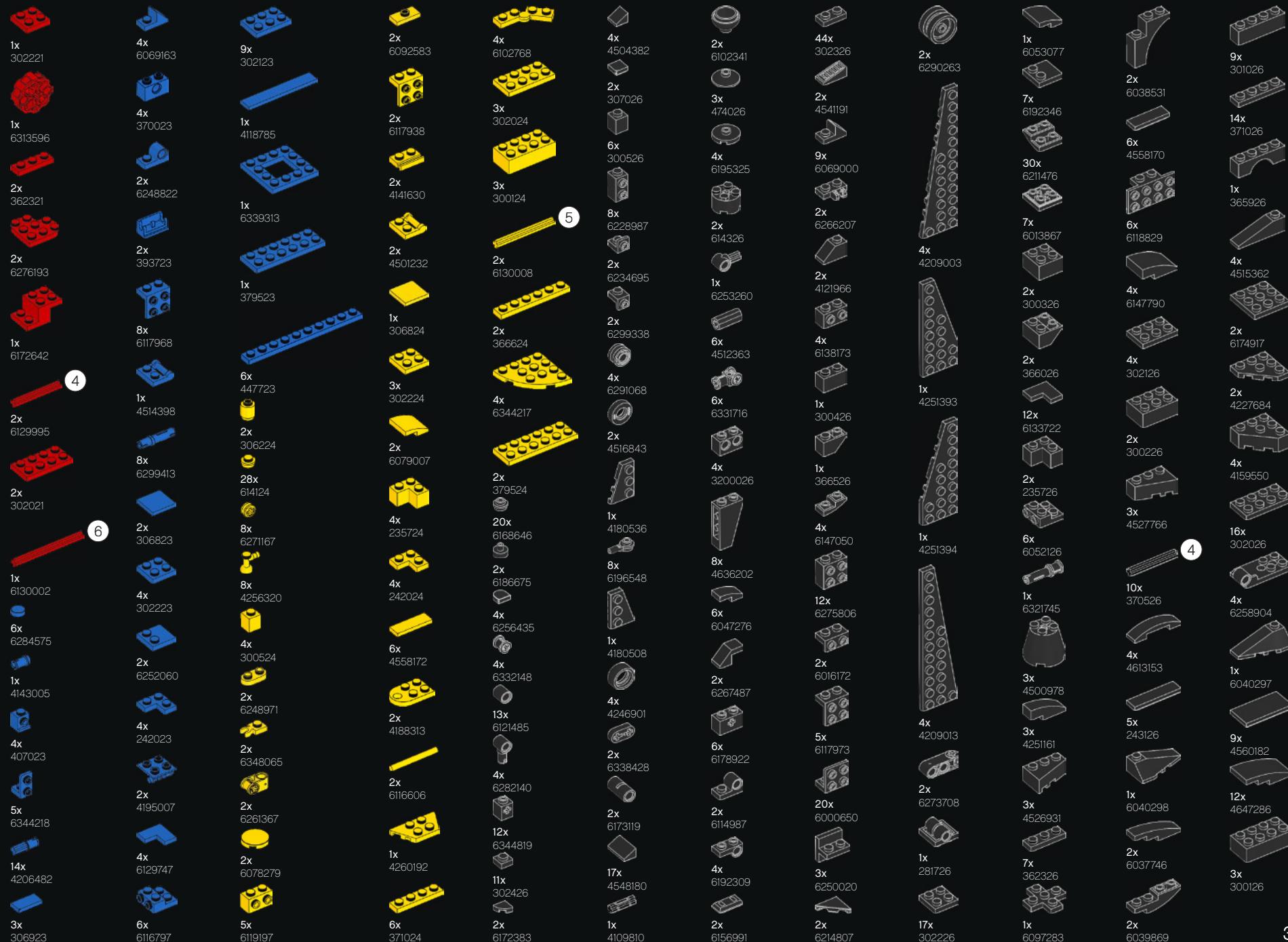
Al contestar, participarás automáticamente en el sorteo y podrás ganar un set LEGO®.

Sujeto a Términos y Condiciones.

完成我们的反馈调查，即可自动进入抽奖环节，赢取乐高®套装。

适用《条款和条件》。







1x  
6290416



2x  
6170702



2x  
4514845



2x  
416226



7x  
346026



2x  
389526



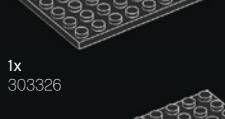
2x  
6296083



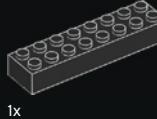
2x  
303026



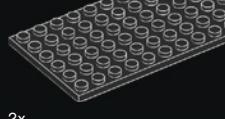
3x  
303426



1x  
303326



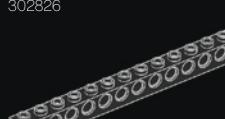
2x  
6344219



1x  
6037390



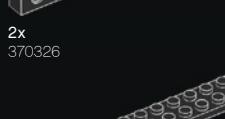
12x  
663626



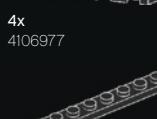
2x  
302826



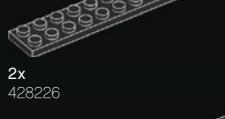
2x  
6327430



2x  
395826



4x  
4106977



2x  
370326



2x  
447726



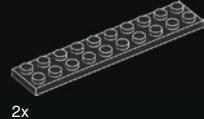
2x  
428226



2x  
6318582



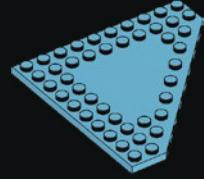
1x  
4603646



2x  
383226



1x  
4161067



2x  
6278156



1x  
6271165



1x  
6275844



2x  
4211483



6x  
4558953



2x  
6315800



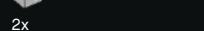
4x  
6274744



2x  
6310835



3x  
4539481



1x  
6212288



1x  
6240515



2x  
6220959



1x  
6244730



1x  
6163477



1x  
6163478



4x  
4211476



4x  
6186657



5x  
6343004



8x  
6286223



1x  
6163479



8x  
4211469



2x  
4211470



2x  
6043639



5x  
4645412



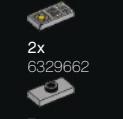
25x  
4654577



1x  
4211395



2x  
4514192



2x  
6265704



2x  
6296894



4x  
6227897



2x  
6123809



7x  
6066097



2x  
4211536



2x  
4560183



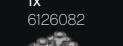
2x  
4565433



1x  
4580510



12x  
4211429



2x  
6129340



2x  
6347992



1x  
4211837



2x  
4243797



1x  
6015349



1x  
4211805



6x  
4211445



4x  
4211636



3x  
6257593



2x  
4645412



1x  
4211395



2x  
4514192



2x  
4211639



1x  
6028811



3x  
6105964



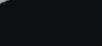
8x  
4211438



2x  
4211549



1x  
4211549



2x  
4211549



1x  
4211549



2x  
4211549



1x  
4211549



2x  
4211549



1x  
4211549



2x  
4211549



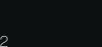
1x  
4211549



2x  
4211549



1x  
4211549



2x  
4211549



1x  
4211549





Customer Service

#### Kundenservice

Service Consommateurs

Servicio Al Consumidor

[LEGO.com/service](http://LEGO.com/service) or dial

[EduGlossary.org](http://EduGlossary.org)





LEGO and the LEGO logo are trademarks of the LEGO Group. ©2021 The LEGO Group.

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

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