



NASA
Space Shuttle Discovery STS-31

Wingspan:	78.04 ft
Launches:	29
Active:	August 30, 1984 - March 9, 2011
Orbital Velocity:	17,500 mph
Max Altitude:	258 miles
Earth Orbits:	5,830
Time in Space:	1 year, 22 hours, 29 minutes, 33 seconds



NASA **esa**
Hubble Space Telescope

Launch:	April 24, 1990
Launch Mass:	24,290 lbs
Velocity:	672 mph
Deploy Altitude:	355 miles

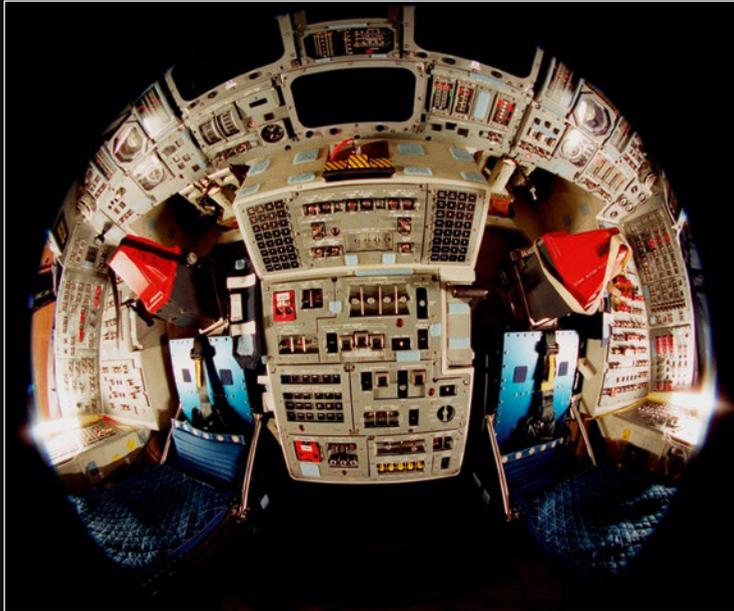


UN'ICONA DEL VOLO SPAZIALE

La flotta del sistema di trasporto spaziale (STS) della NASA comprendeva cinque Space Shuttle Orbiter: Columbia, Challenger, Discovery, Atlantis ed Endeavour. Insieme, parteciparono a 135 missioni trasportando 355 persone nello spazio. Discovery effettuò più missioni di tutti, trasportando il maggior numero di passeggeri e viaggiando più lontano e più in alto rispetto agli altri orbiter. Il Discovery lanciò inoltre il telescopio spaziale Hubble nell'aprile 1990 nell'ambito della missione STS-31. Il 2021 sarà il 40° anniversario del programma Space Shuttle e cogliamo quindi questa occasione per rivisitare questa famosa missione.

LA MISSIONE

Il lancio e la messa in orbita del telescopio spaziale Hubble nell'aprile 1990 hanno segnato uno dei progressi più significativi nell'astronomia dai tempi del telescopio di Galileo. È stato il primo grande telescopio ottico a essere posizionato nello spazio, un'impresa straordinaria. Al di sopra della distorsione atmosferica della Terra, delle nuvole e dell'inquinamento luminoso, Hubble aveva una visuale completamente libera dell'universo. Gli scienziati hanno utilizzato il telescopio Hubble per osservare le stelle e le galassie più distanti, nonché i pianeti del nostro sistema solare.



IL DESIGN TEAM

Lo Space Shuttle è uno dei veicoli più complessi mai realizzati e ricrearlo con i mattoncini LEGO® non è stato facile. Dovevamo realizzare un esterno liscio e un interno in grado di supportare il carico utile, ma la sfida più grande è stata aggiungere il carrello di atterraggio, che doveva essere funzionante. Provare ad accoppiare il carrello anteriore e quello principale senza sottrarre spazio al vano di carico e senza compromettere la struttura del modello è stato davvero complicato! È facile rimanere sbalorditi dalla complessa ingegneria e dalla potenza di questi veicoli, ma per me la cosa più affascinante del volo spaziale è l'elemento umano. Ecco perché la mia parte preferita di questo modello sono i piccoli sedili blu che hanno trasportato 5 esseri umani in questa missione speciale. Da bambino, ho trascorso ore a costruire le mie versioni del Lunar Lander e del Discovery Orbiter in mattoncini LEGO, quindi essere stato invitato a lavorare a questo progetto è stato emozionante e un privilegio allo stesso tempo.

LEGO® Designer, Milan Madge



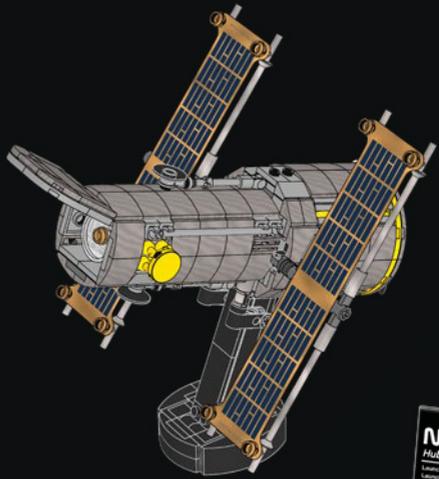
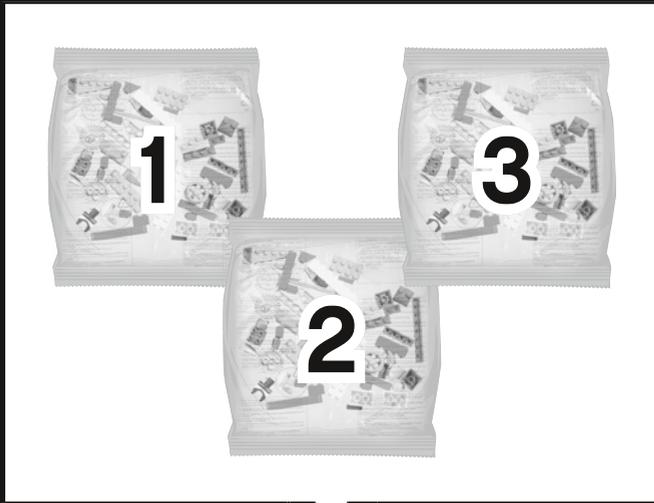


PROGRAMMI FUTURI

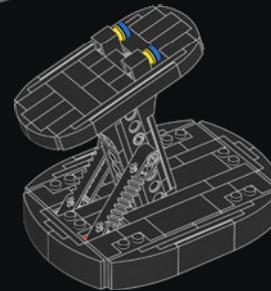
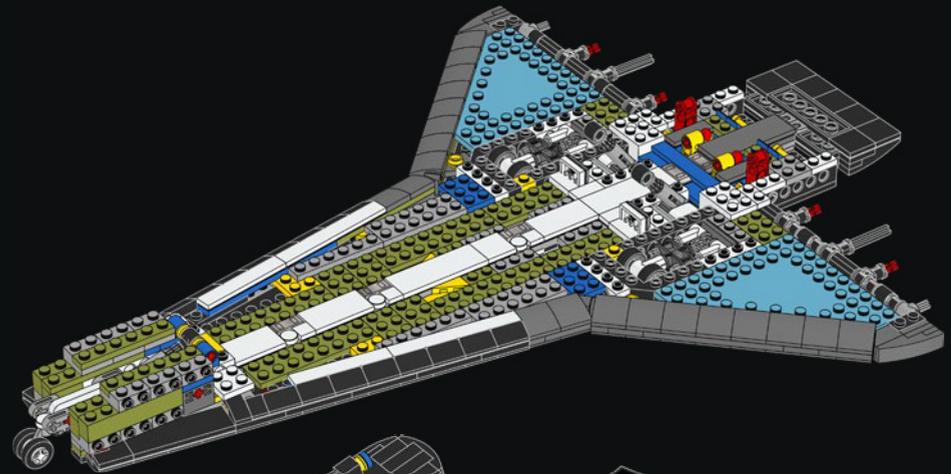
Da quando lo space shuttle è stato messo fuori servizio nel 2011, la NASA ha creato partnership con le società private Boeing e SpaceX per sviluppare e gestire una nuova generazione di veicoli spaziali e sistemi di lancio, in grado di trasportare gli equipaggi nell'orbita terrestre bassa e fino alla Stazione Spaziale Internazionale. Le collaborazioni con il settore privato a progetti di trasporto spaziale da e verso l'orbita terrestre bassa consente alla NASA di concentrare la sua attenzione sulla costruzione di veicoli spaziali e razzi per i prossimi entusiasmanti programmi, che prevedono missioni spaziali sulla Luna e su Marte.



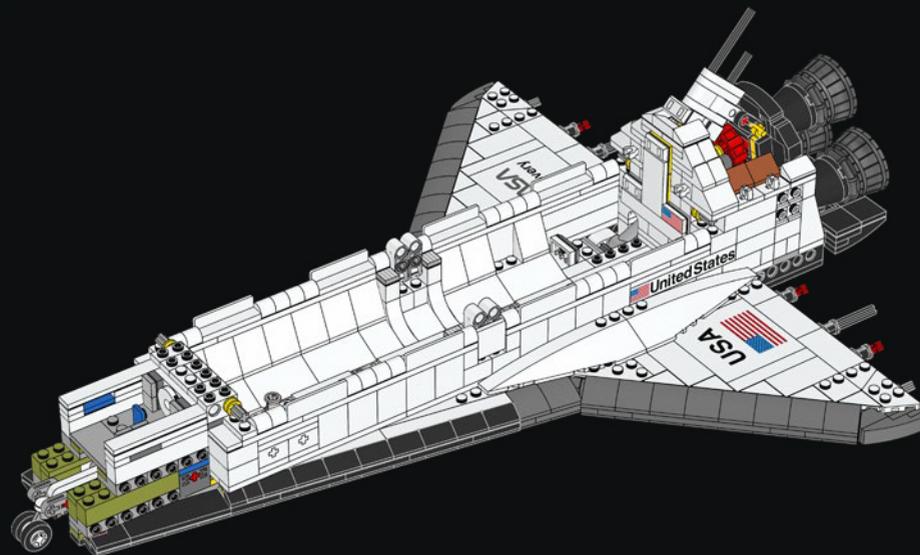
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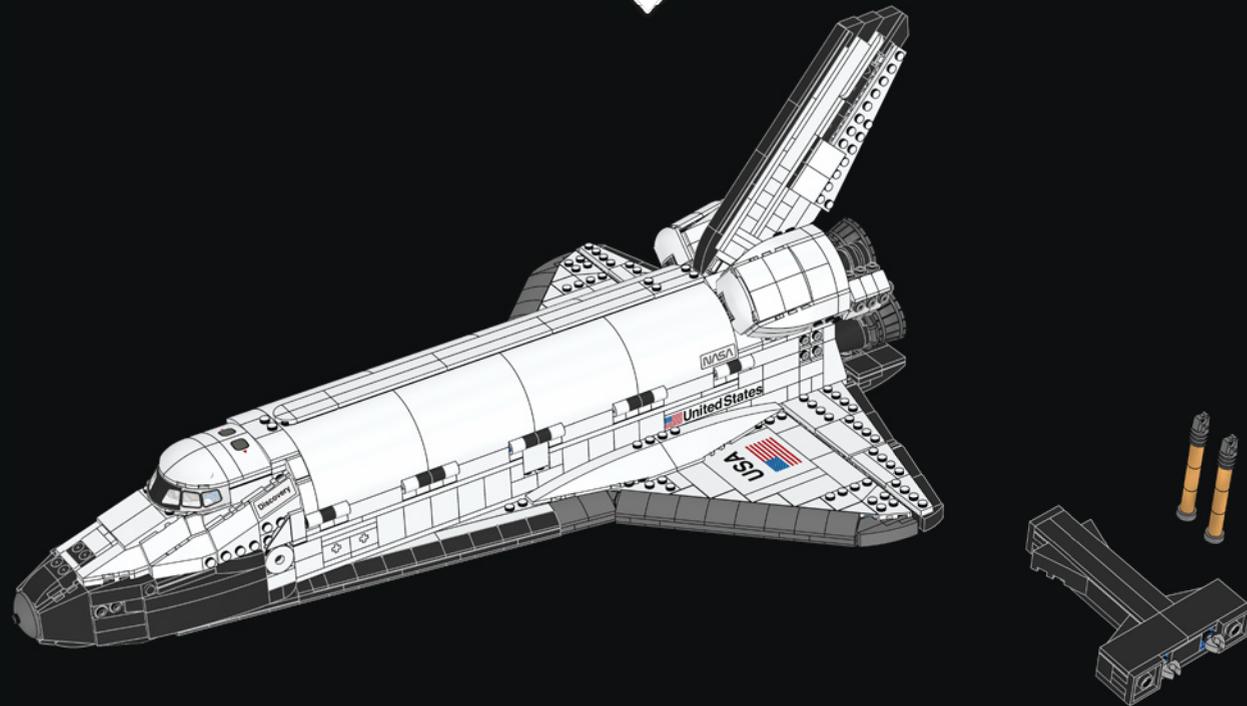


NASA **esa**
Hubble Space Telescope
Launched: April 24, 1990
Launch Weight: 13,120 lbs
Orbiting Altitude: 340 miles



NASA
Space Shuttle Discovery STS-31
Launched: February 24, 1984
Launch Weight: 24,000 lbs
Orbiting Altitude: 200 miles





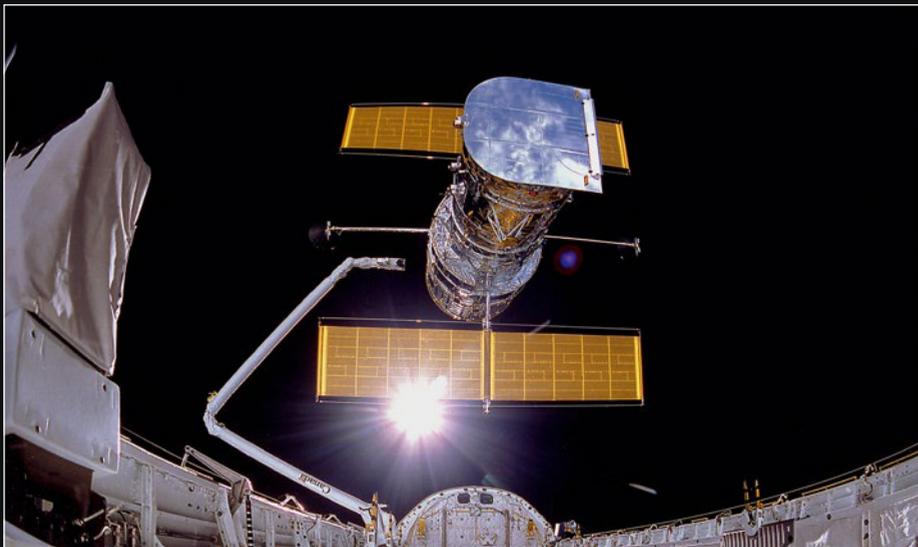
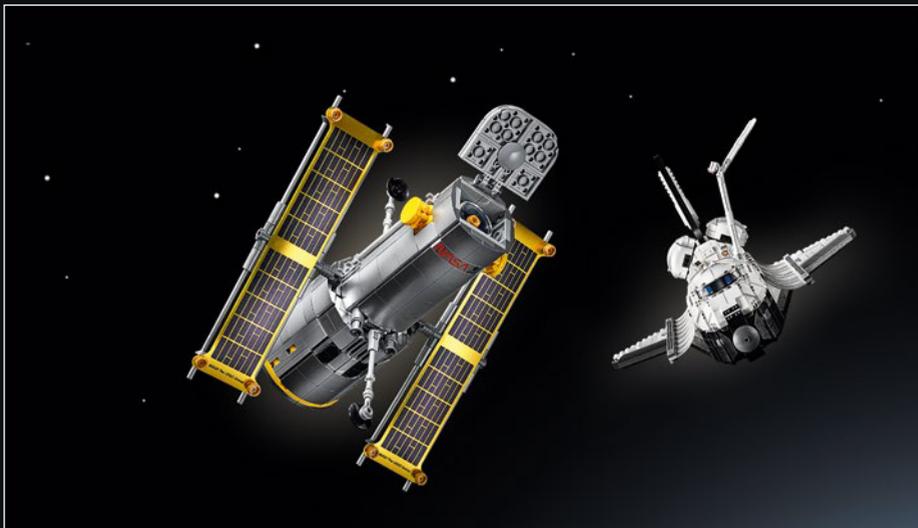
TELESCOPIO SPAZIALE HUBBLE

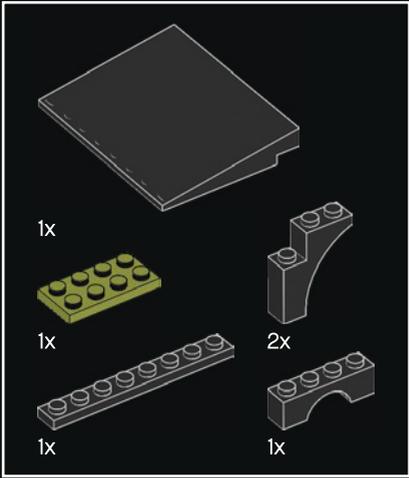
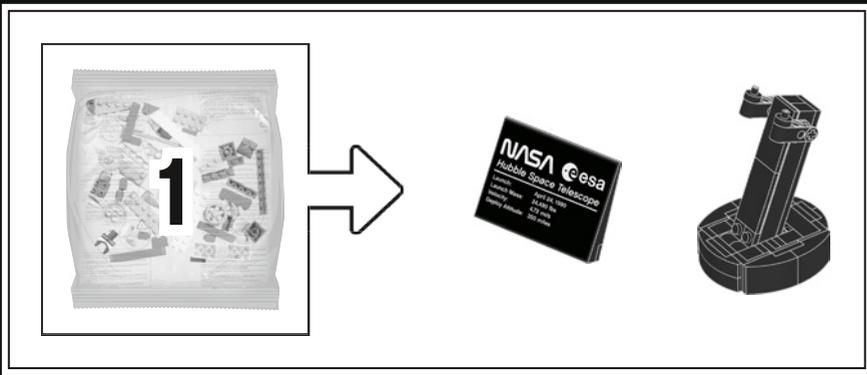
Il telescopio spaziale Hubble è stato creato grazie a una collaborazione tra la NASA e il suo partner europeo, l'Agenzia spaziale europea (ESA). Dal suo punto di osservazione a circa 550 km sopra la Terra, il telescopio, lungo 13,2 m e largo 4,2 m, può rilevare le emissioni luminose grazie a una risoluzione pari a 20 volte quella dei migliori telescopi sulla Terra.



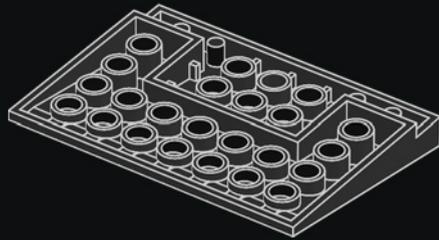
IL PRIMO GRANDE OSSERVATORIO NELLO SPAZIO

La missione del telescopio Hubble era trascorrere almeno 15 anni a sondare i confini più remoti del cosmo. Grazie a cinque missioni di servizio dello Space Shuttle svoltesi tra il 1993 e il 2009, questo obiettivo è stato ampiamente superato, e le osservazioni durano ormai da oltre 30 anni. Durante il tempo trascorso in orbita, il telescopio ha effettuato più di 1,4 milioni di osservazioni e gli astronomi hanno utilizzato questi dati per pubblicare oltre 17.000 articoli scientifici su una vasta gamma di argomenti.

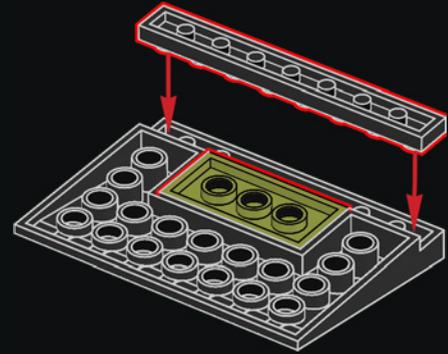




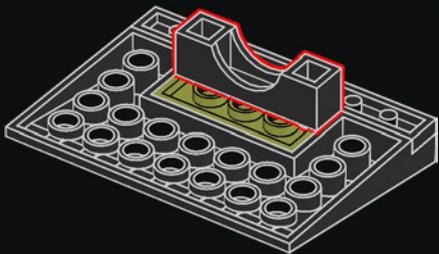
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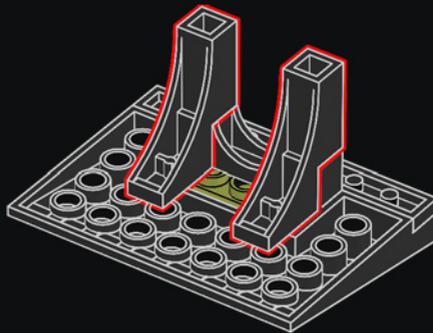
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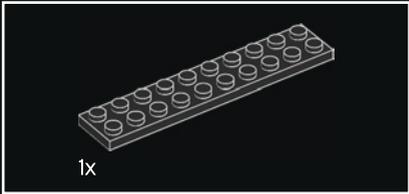
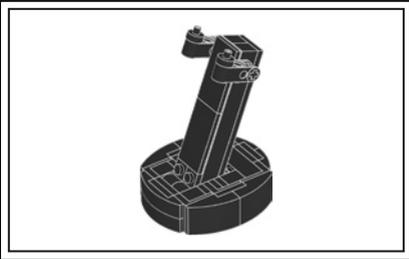


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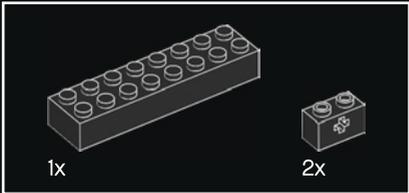
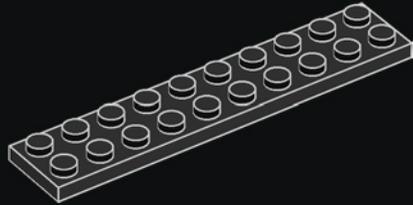
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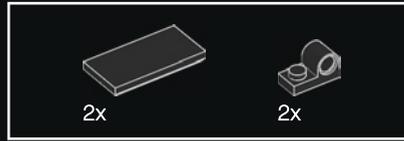
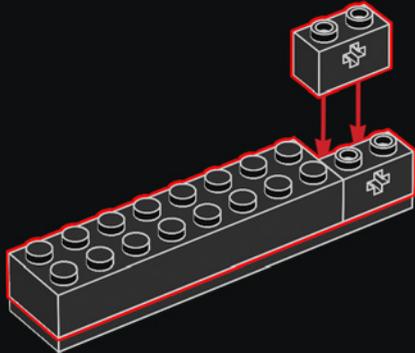
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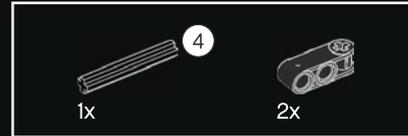
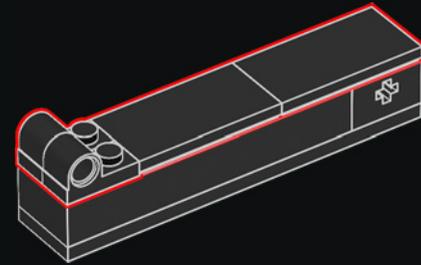
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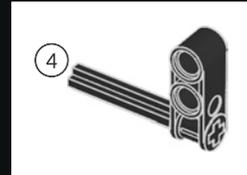
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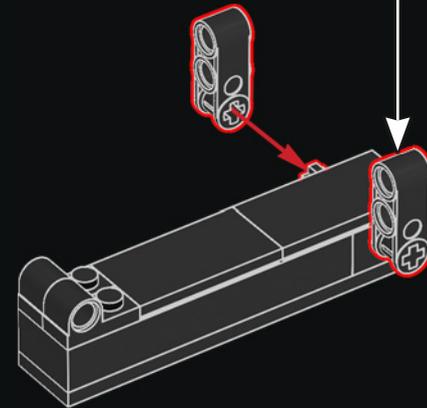
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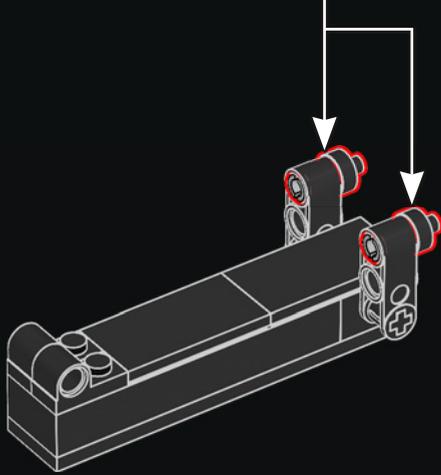
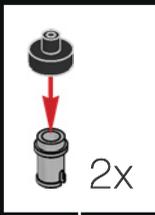


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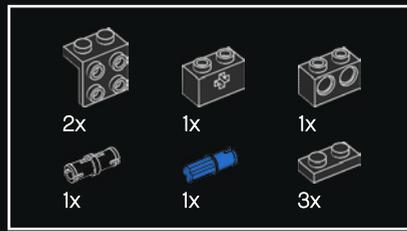
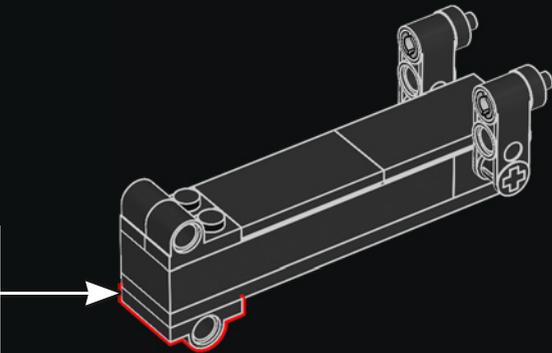




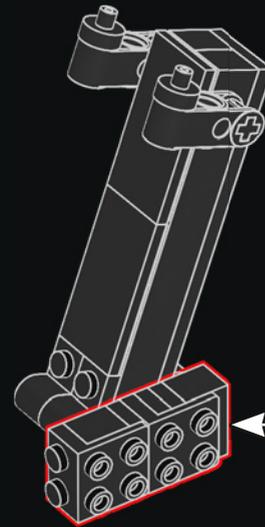
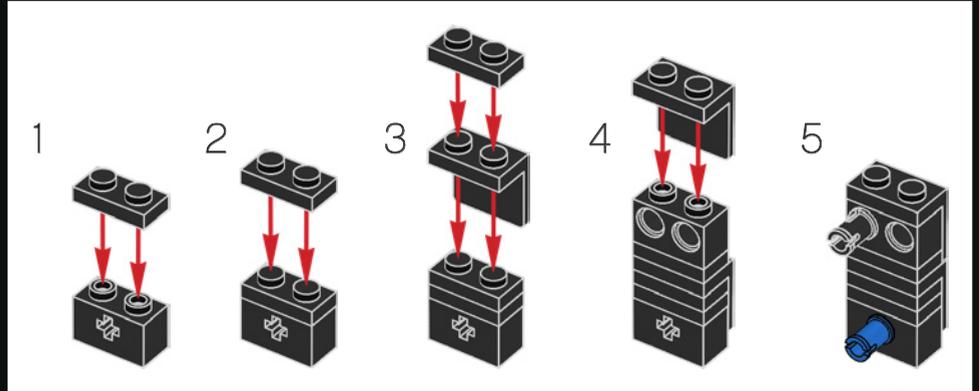
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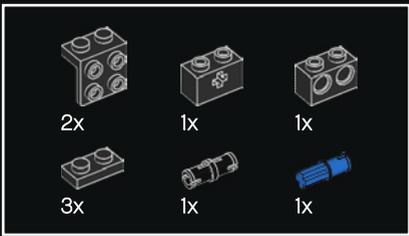


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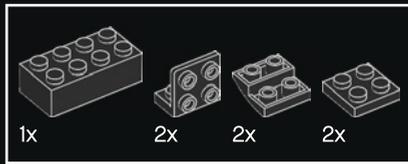
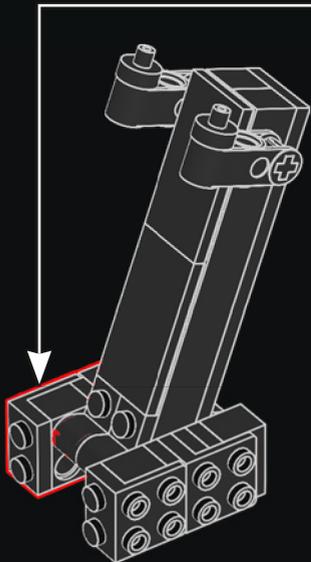
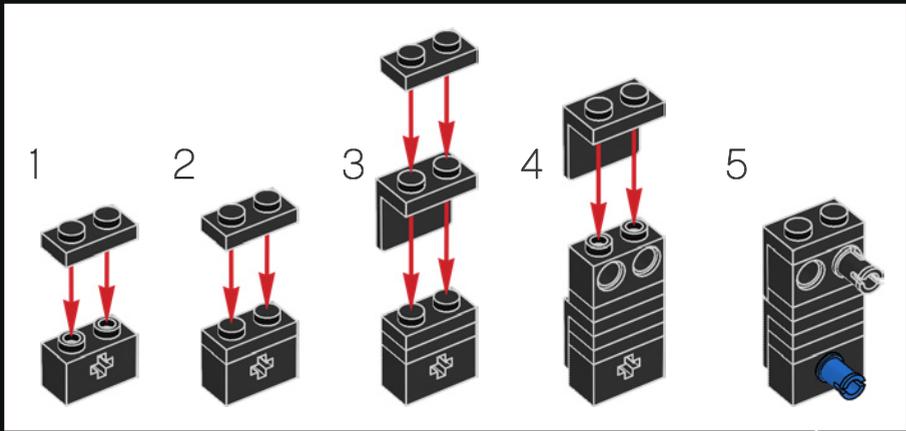


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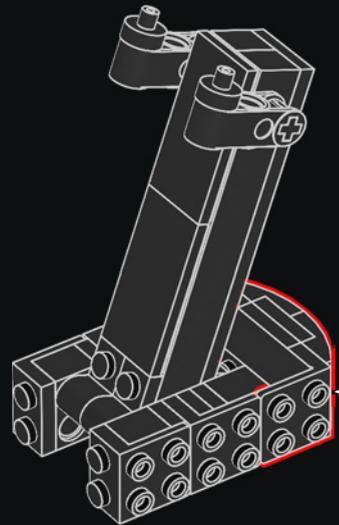
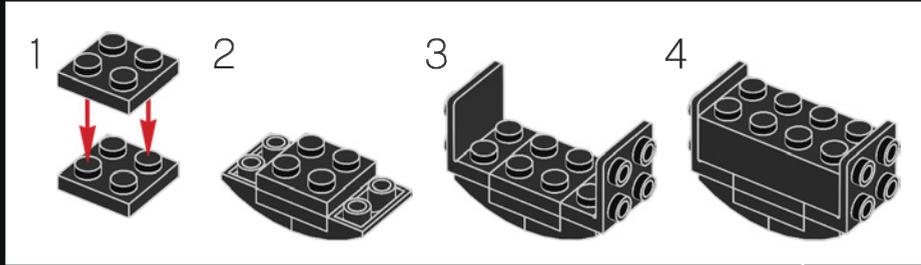




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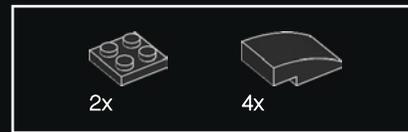
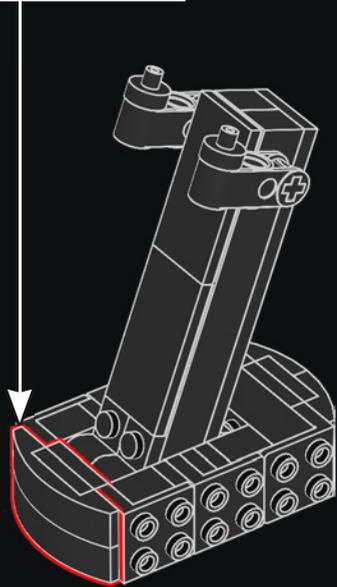
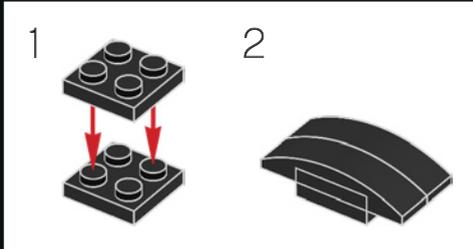


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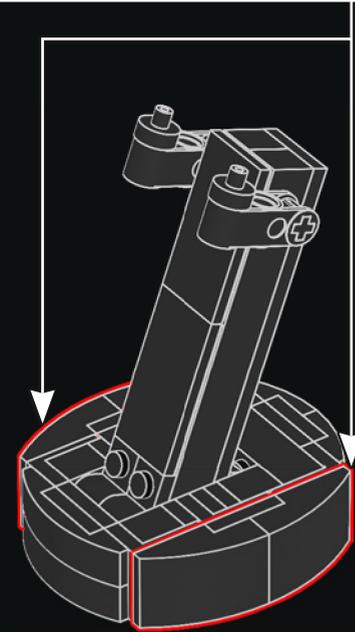
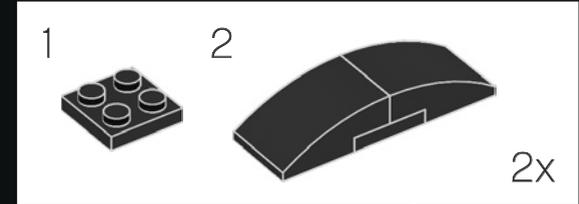




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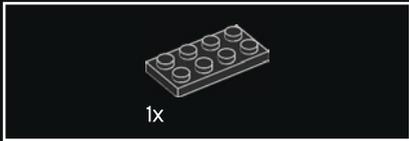
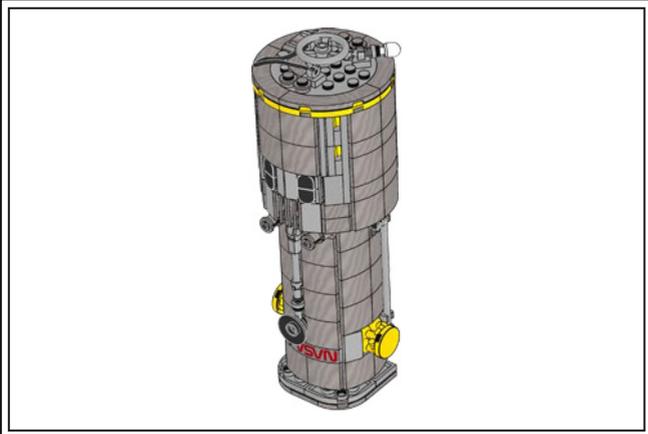
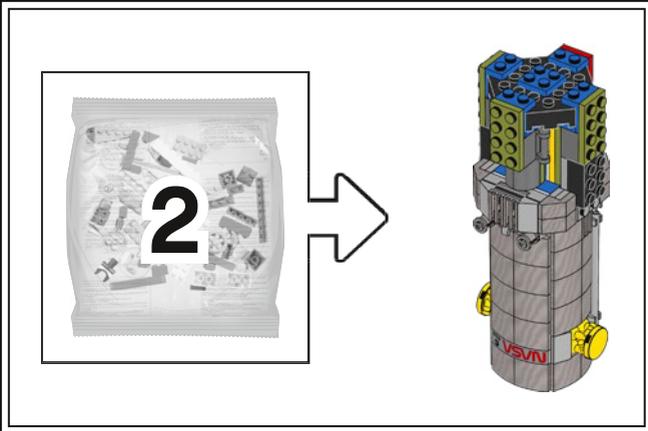


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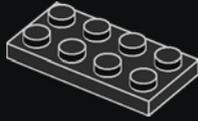


LO SAPEVI?

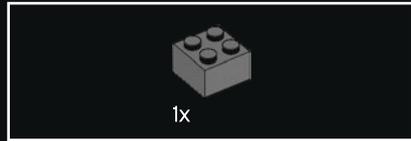
Concepito per la prima volta negli anni '40, il telescopio spaziale Hubble ha richiesto decenni di pianificazione prima del suo lancio nel 1990.



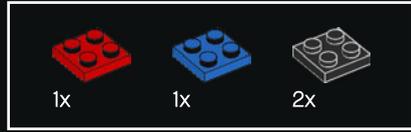
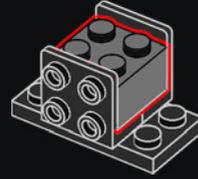
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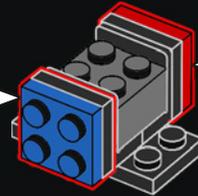
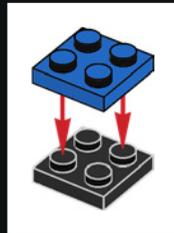
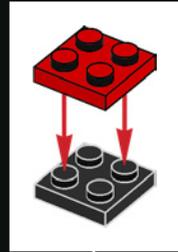
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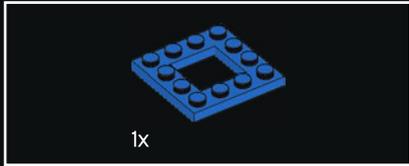
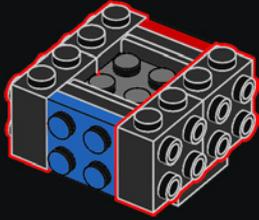


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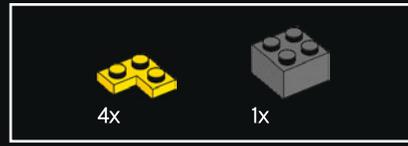
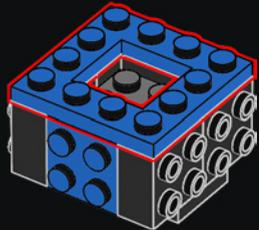




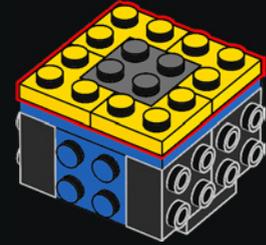
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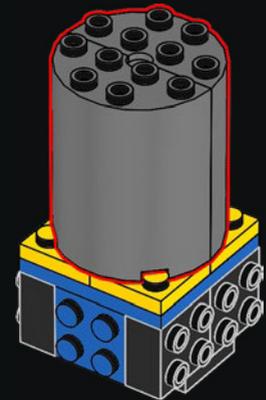
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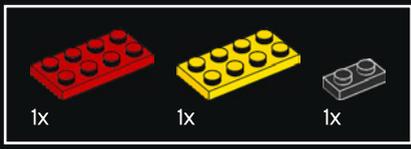


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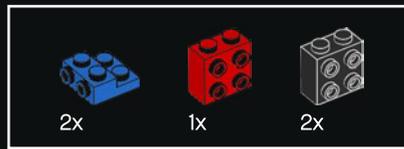
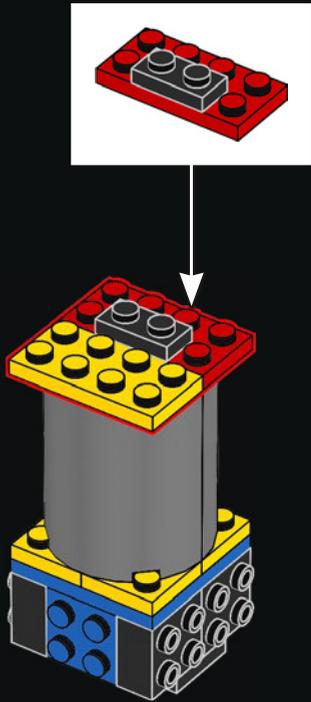


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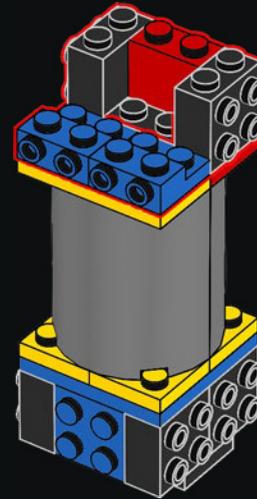




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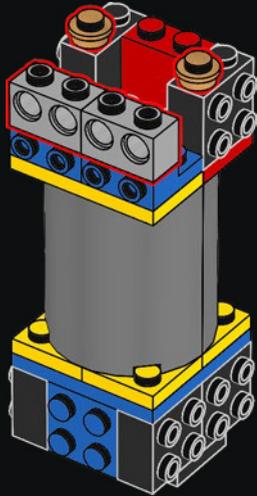


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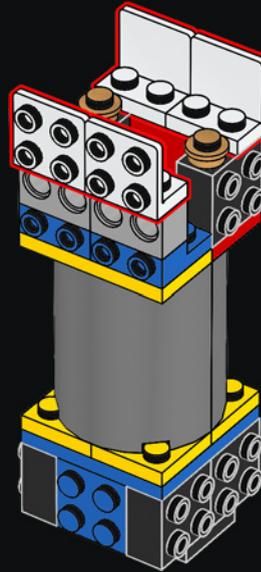


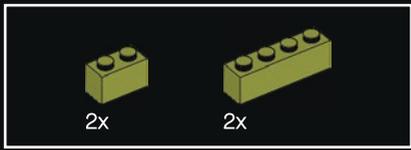


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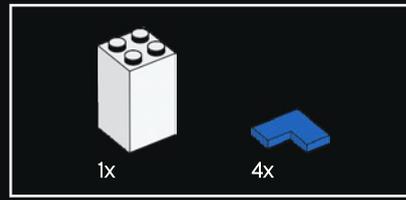
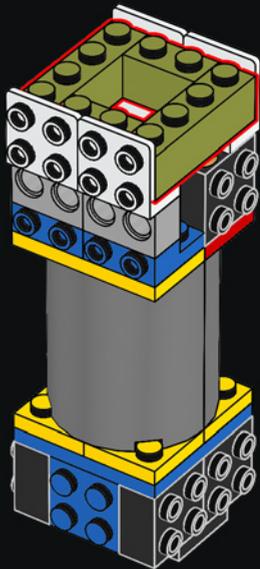


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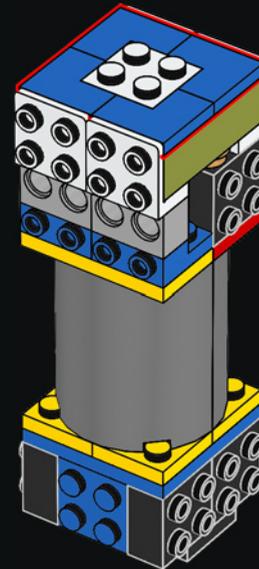




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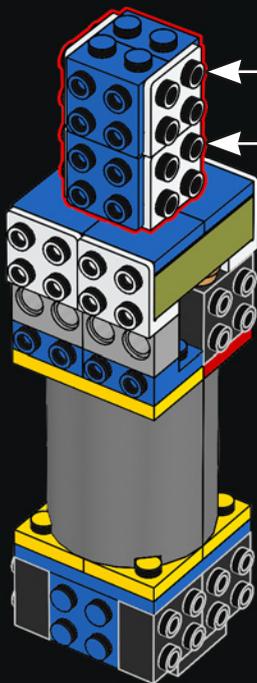
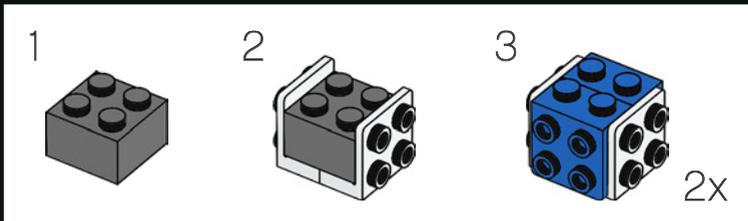


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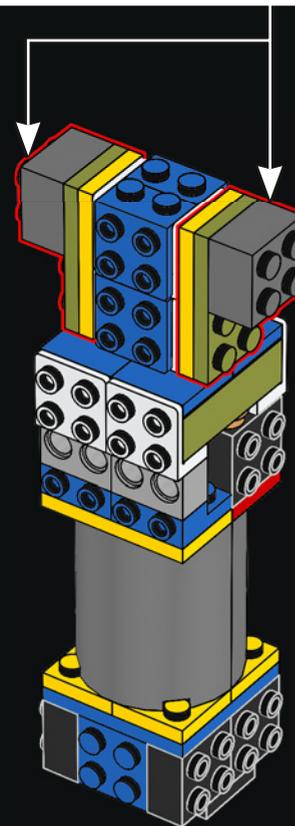
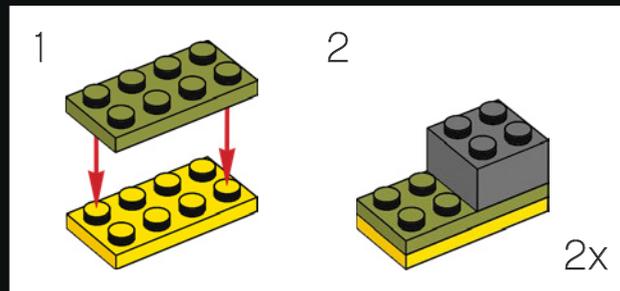


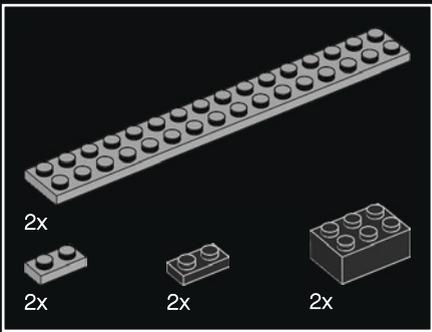


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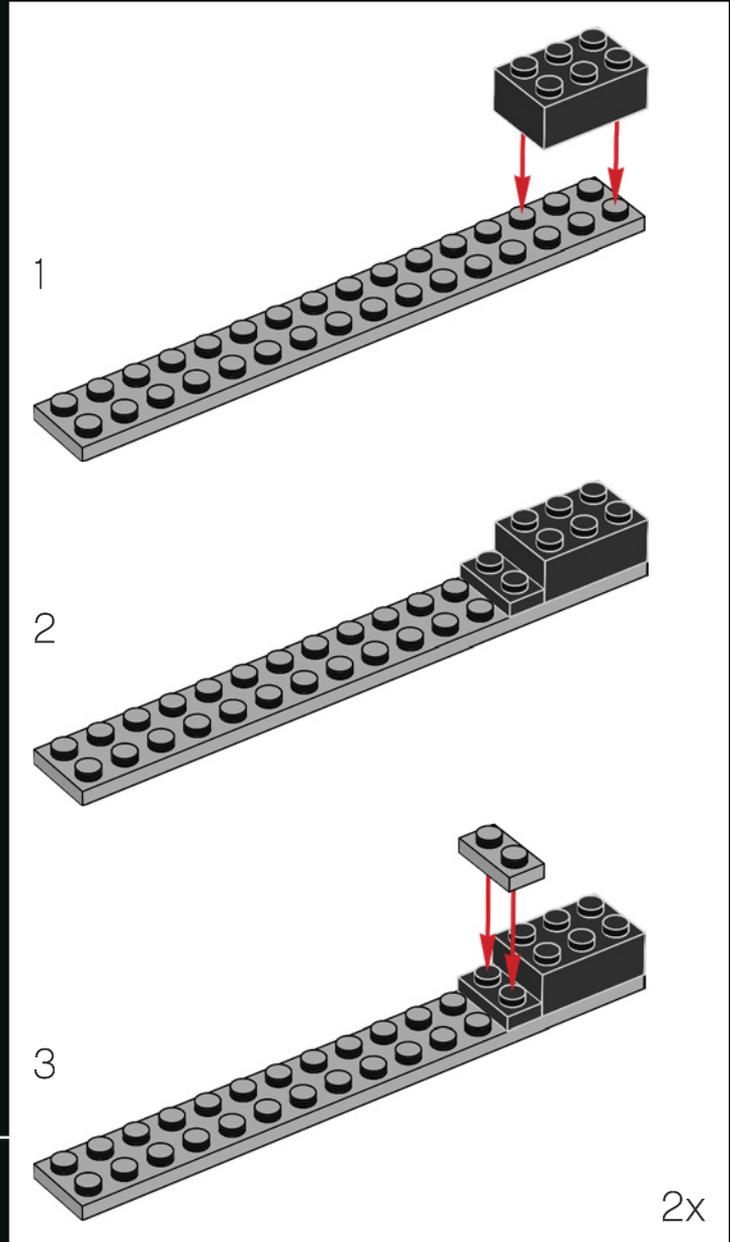
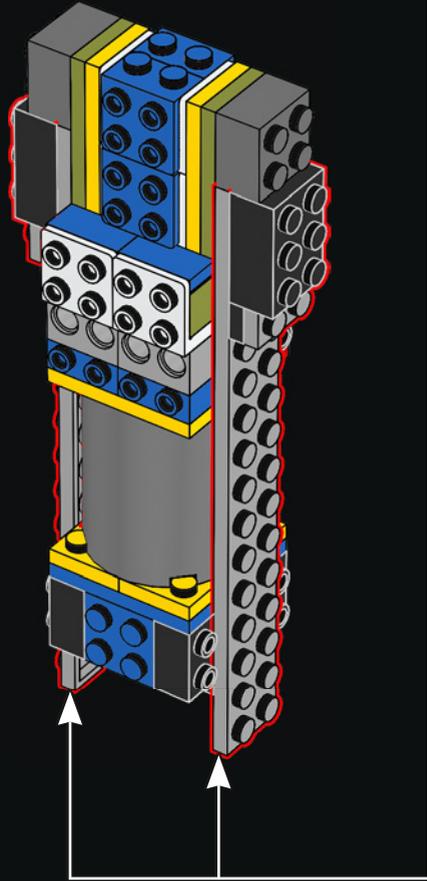


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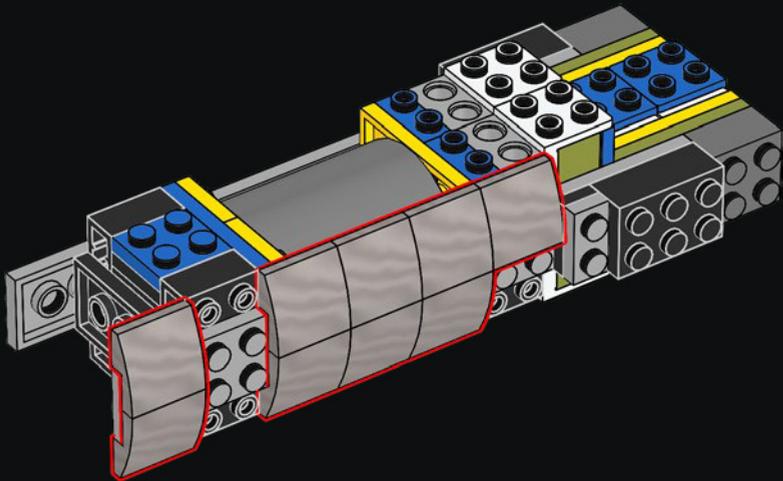


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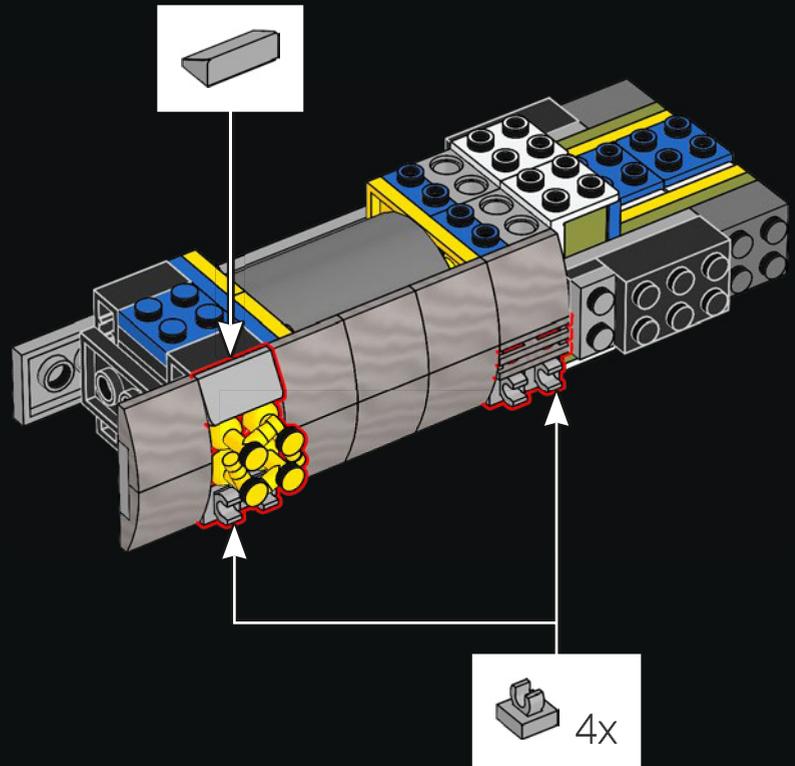




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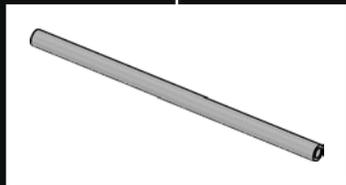
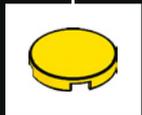
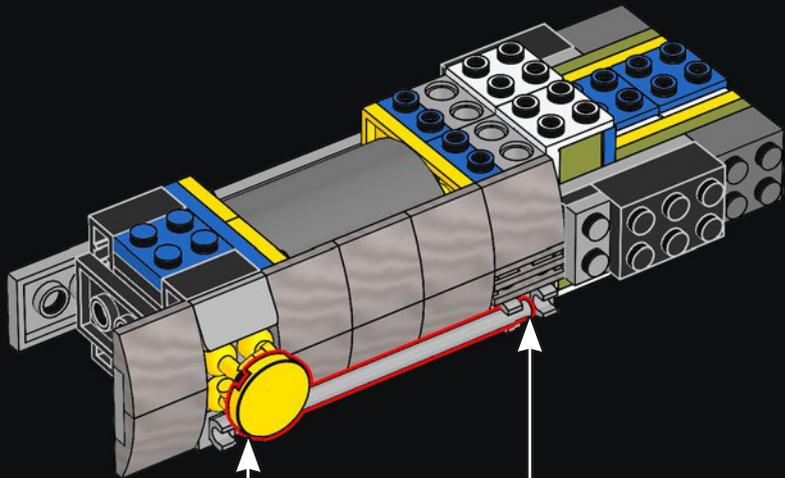


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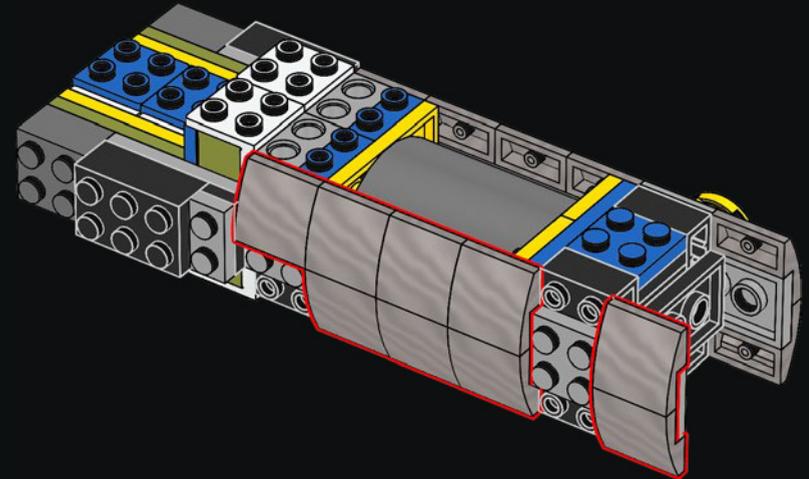


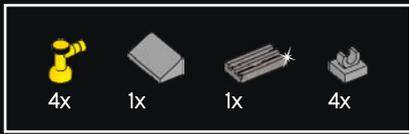


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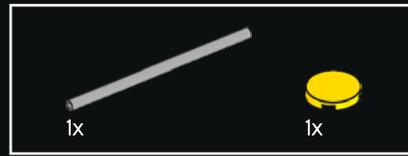
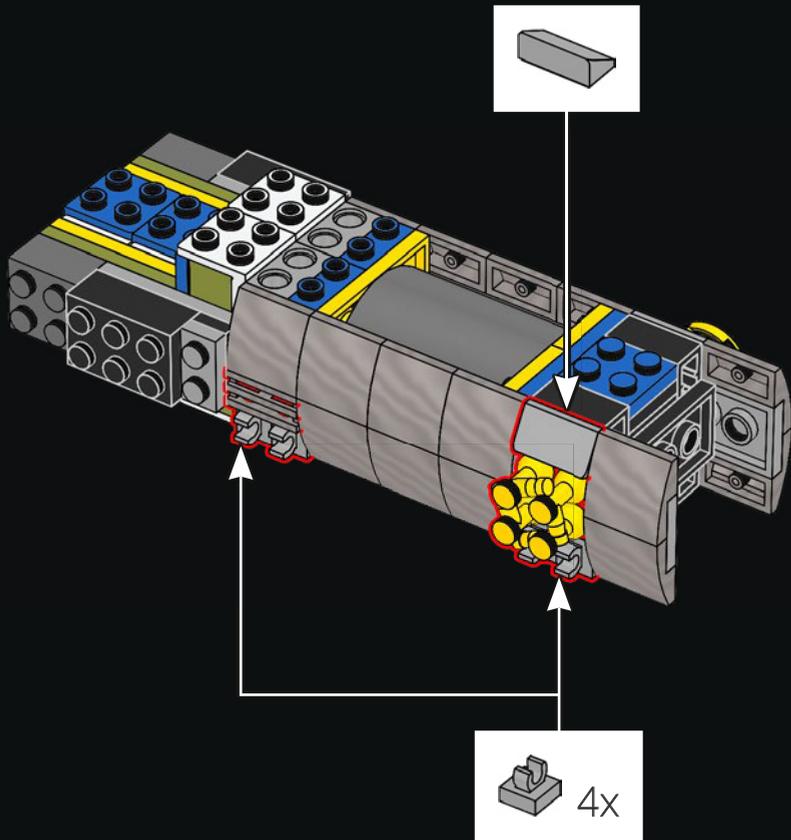


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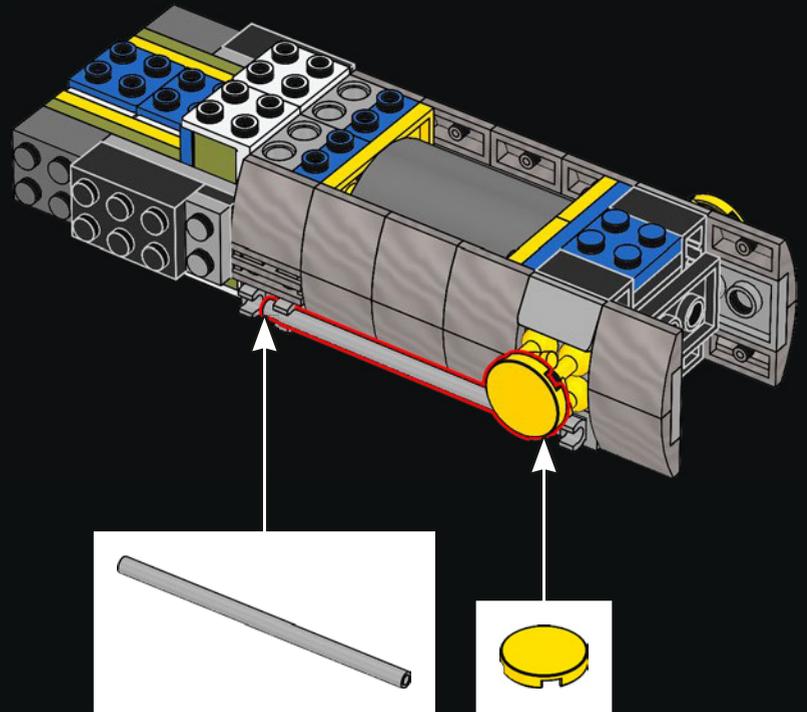


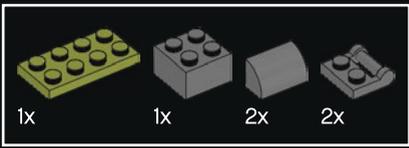


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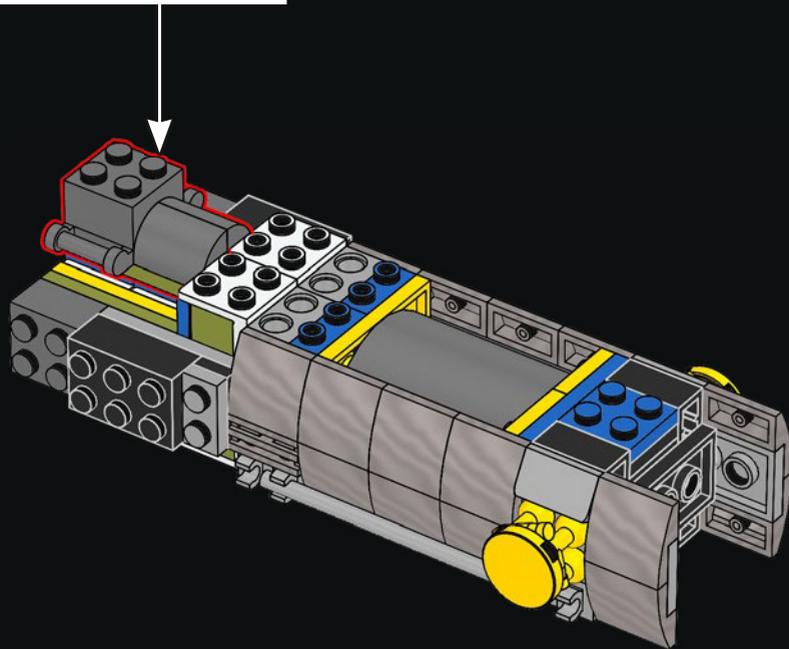
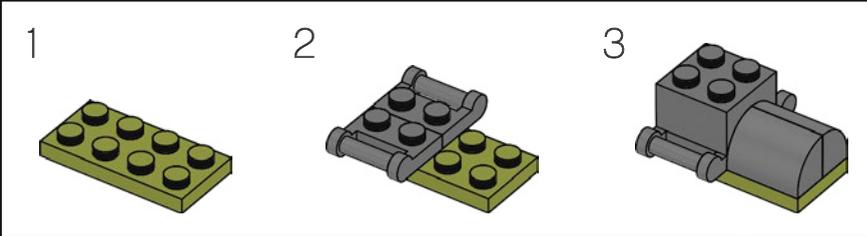


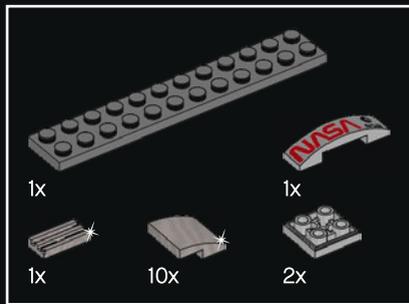
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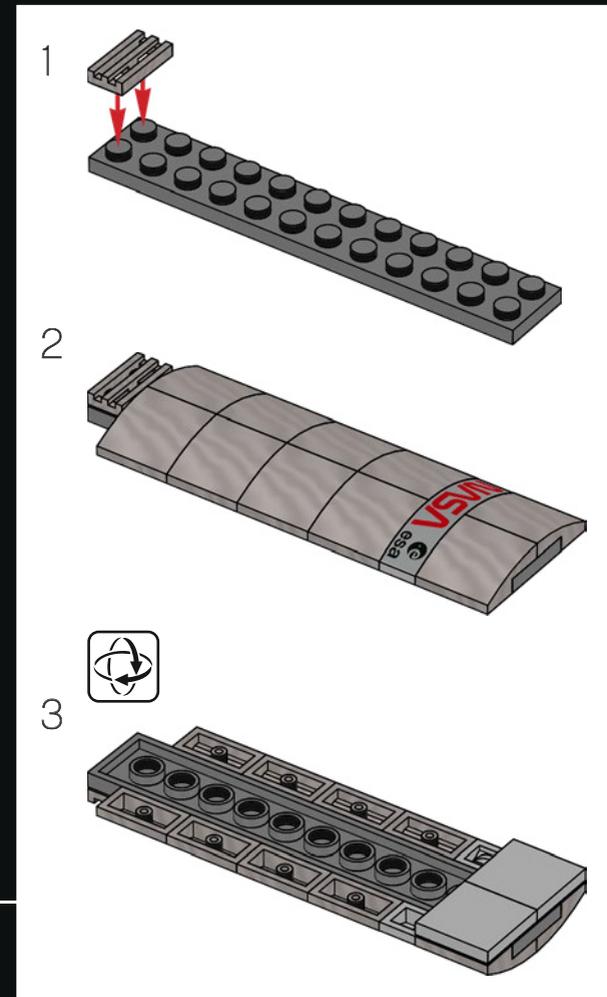
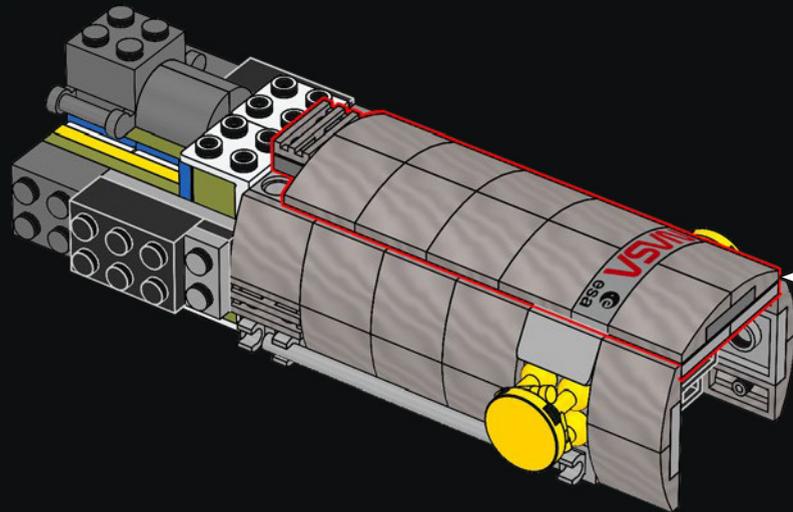


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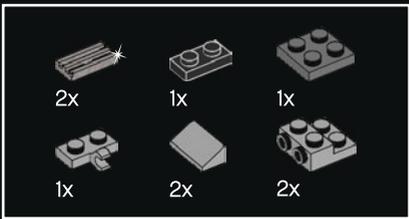


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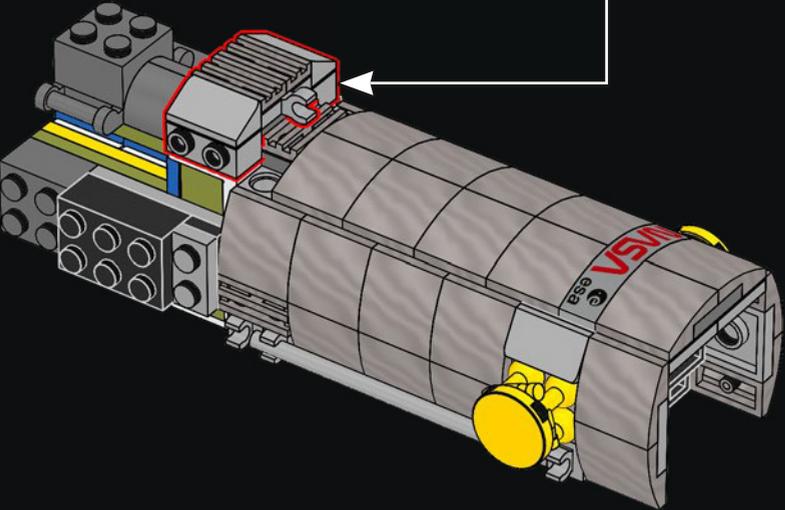
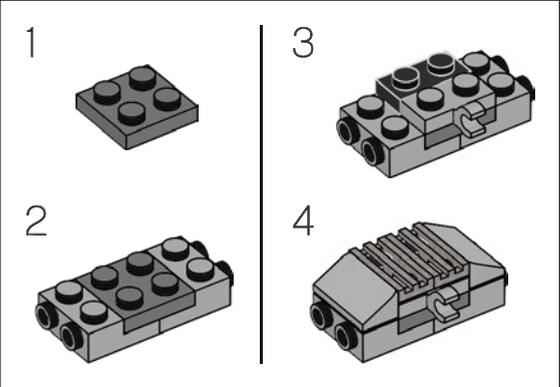


LO SAPEVI?

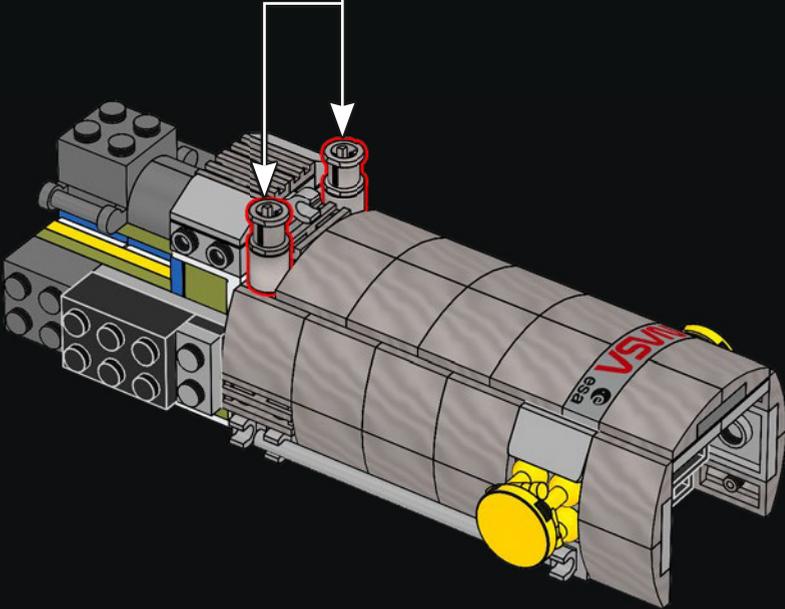
Il telescopio spaziale prende il nome dall'astronomo americano Edwin Hubble (1889-1953).

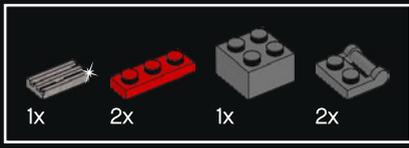


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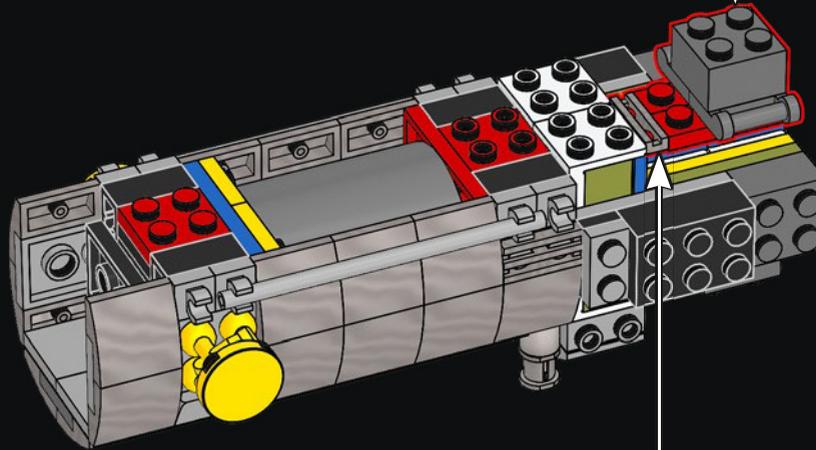
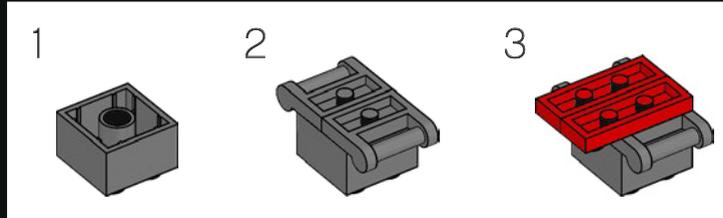


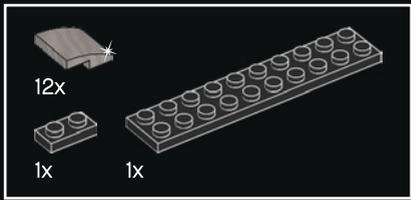
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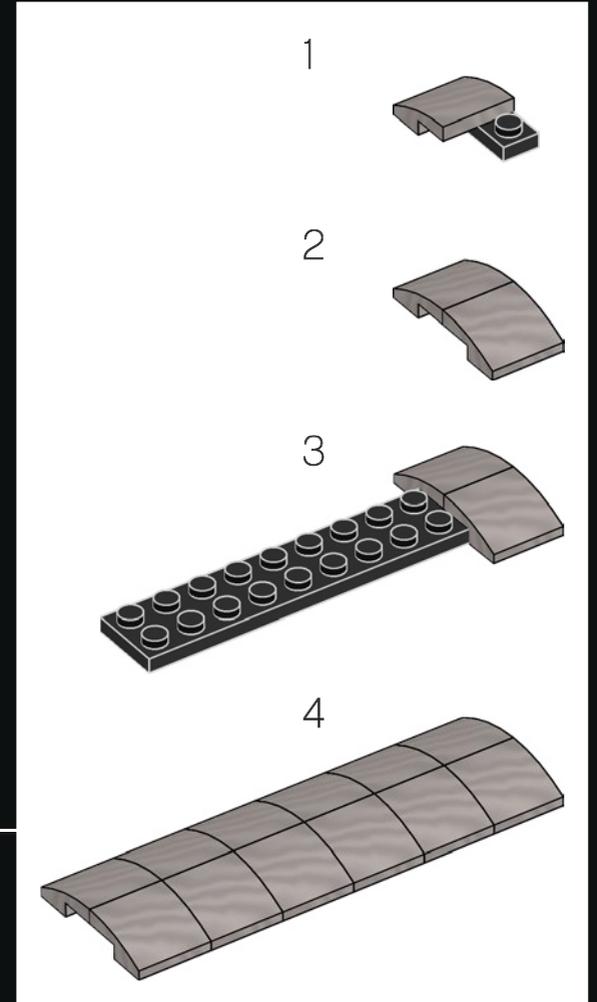
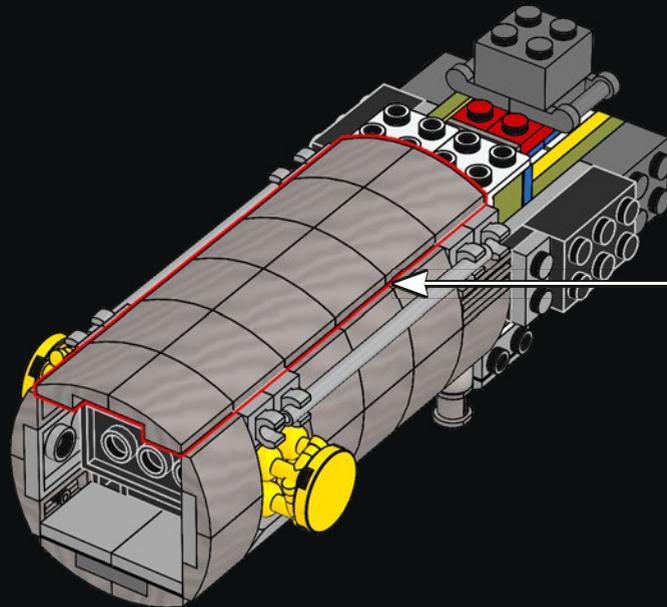


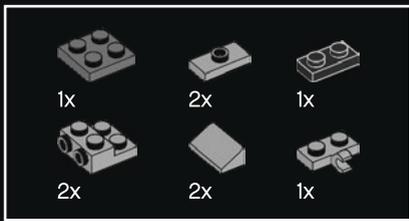
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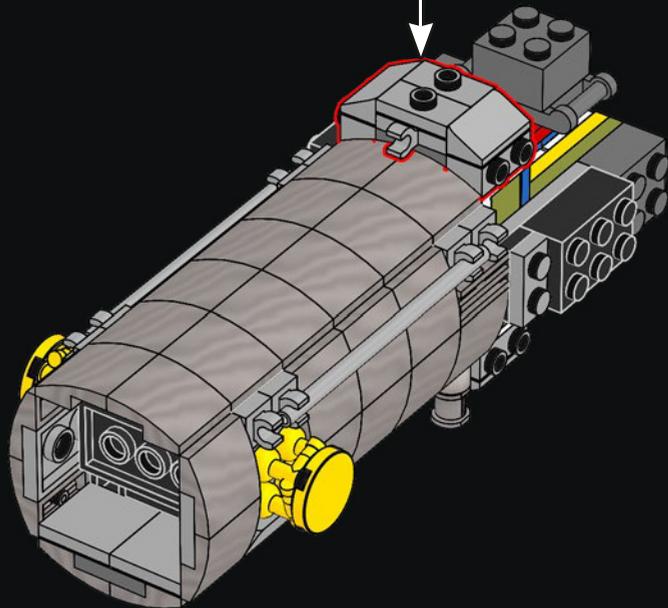
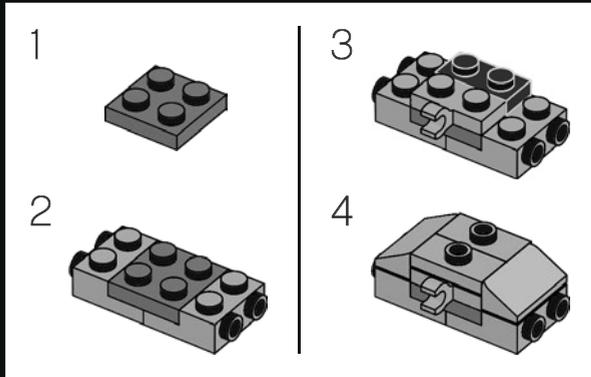


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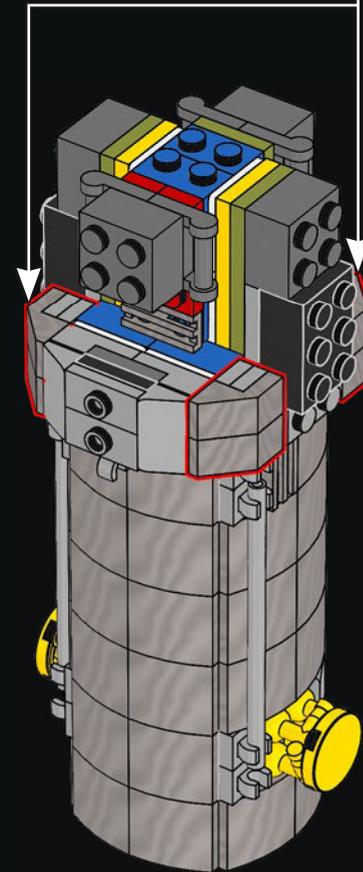
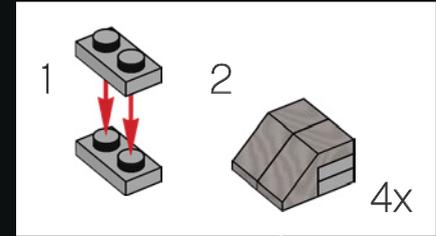


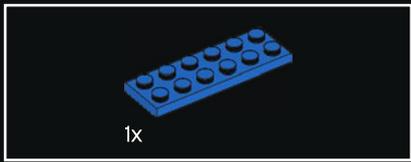


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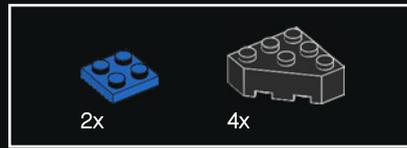
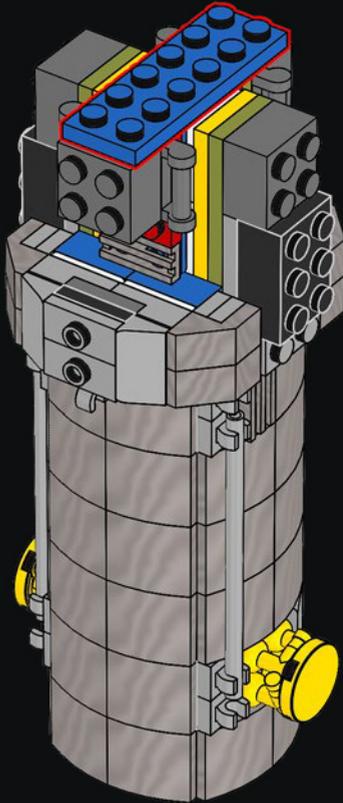


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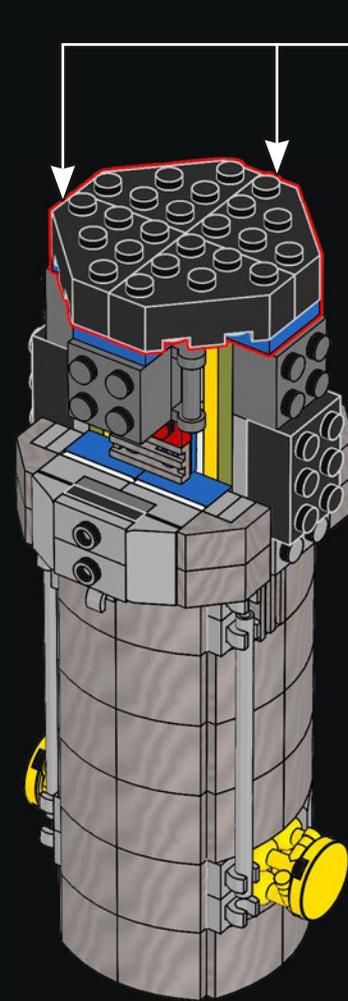
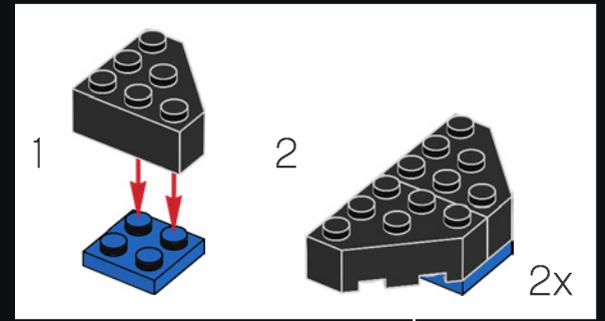




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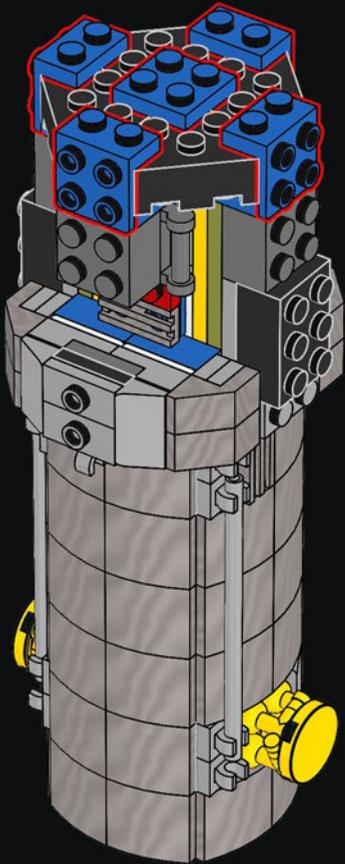


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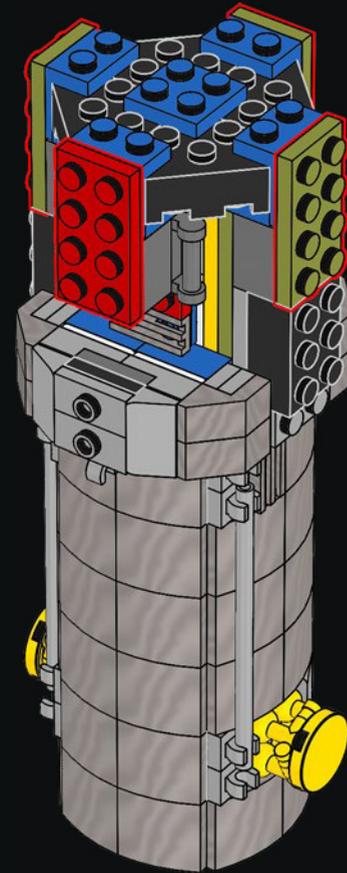




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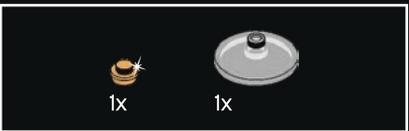
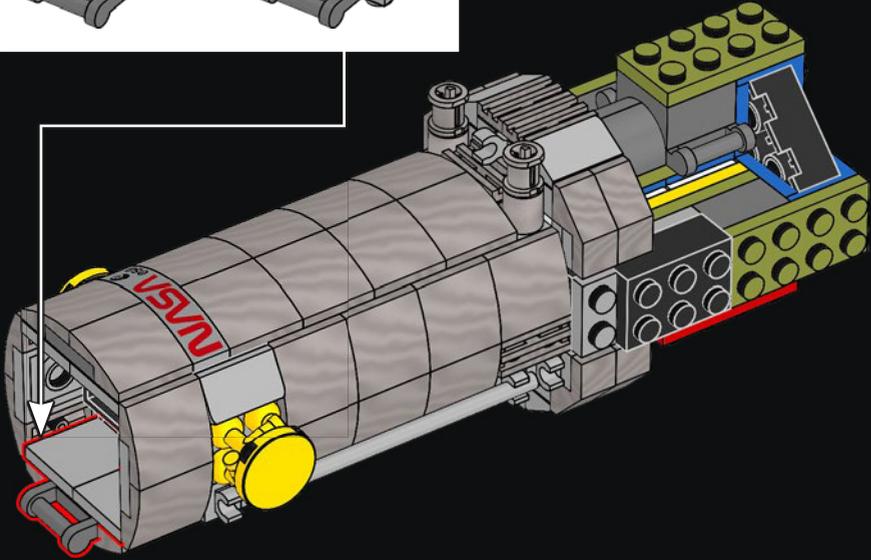
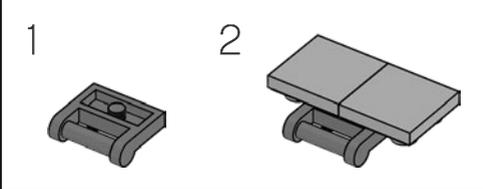


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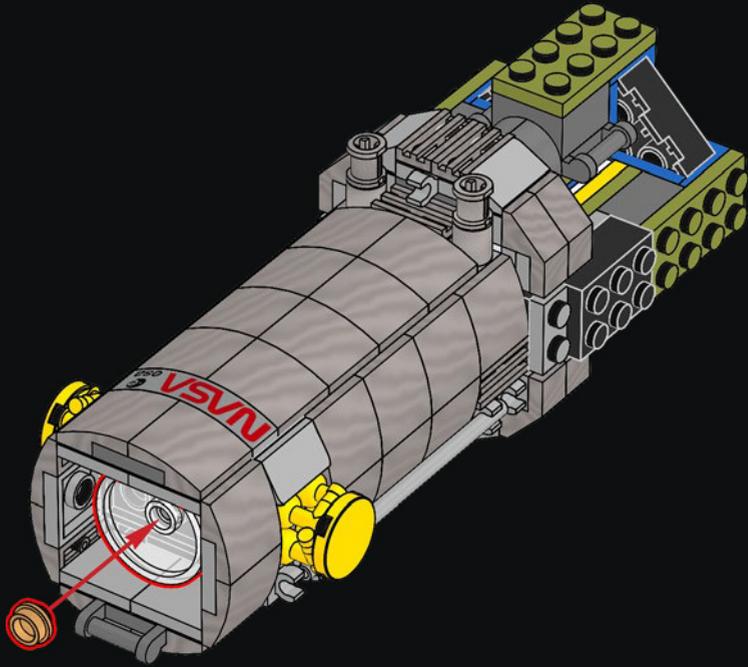


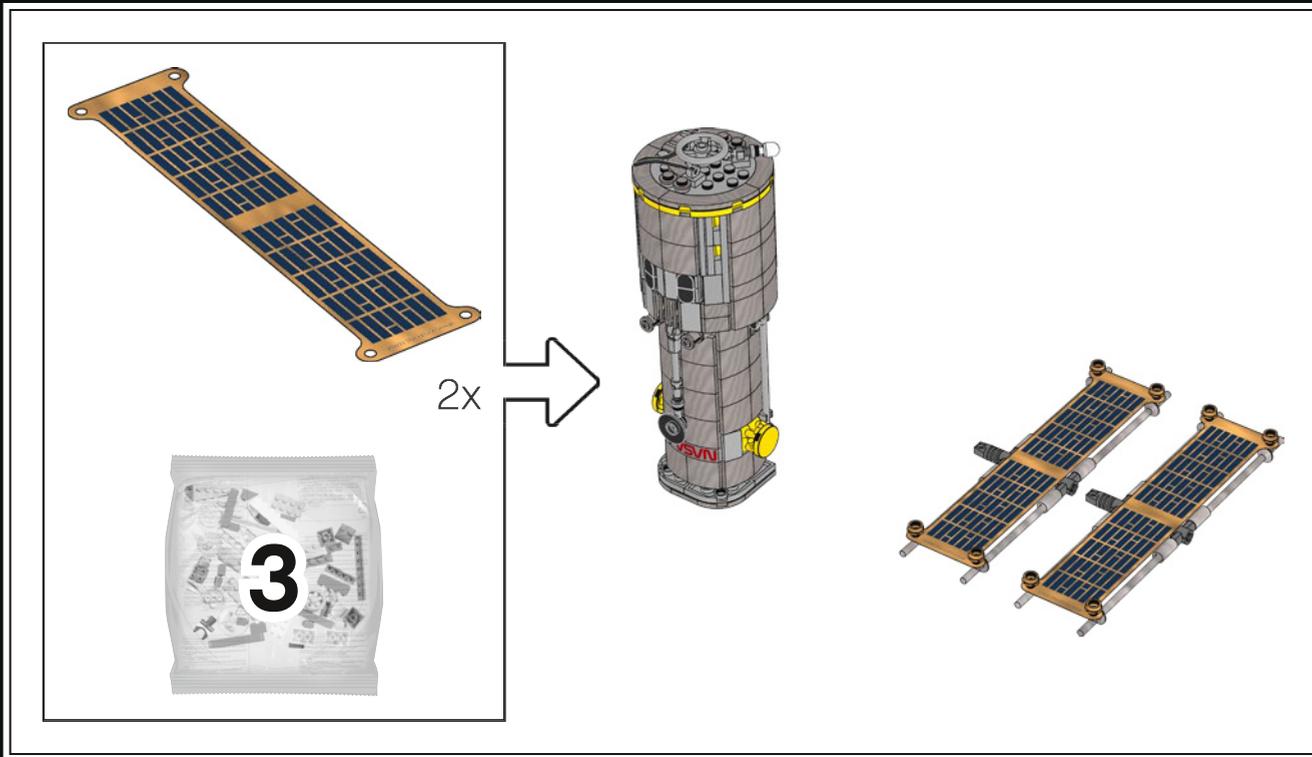


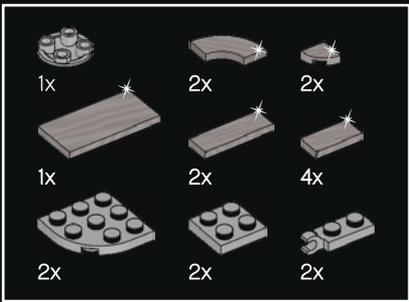
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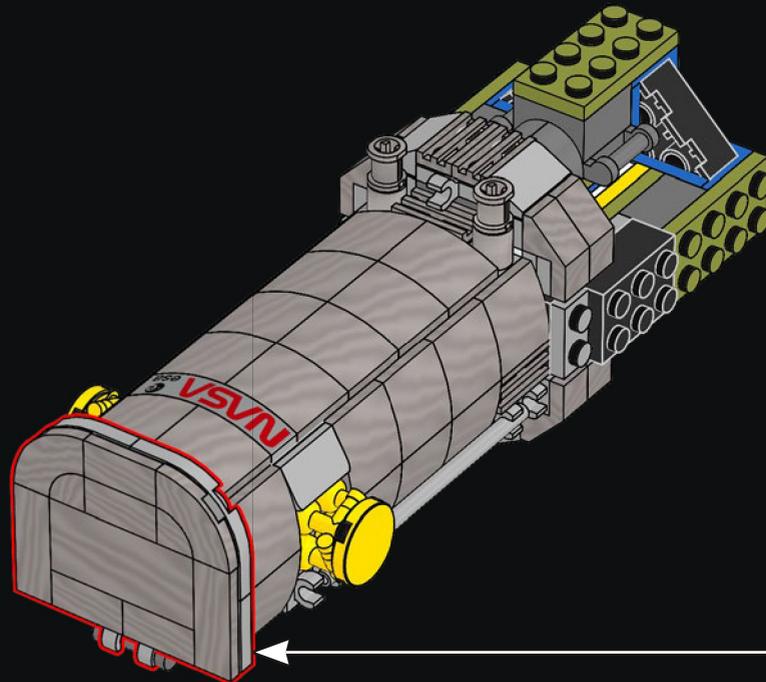
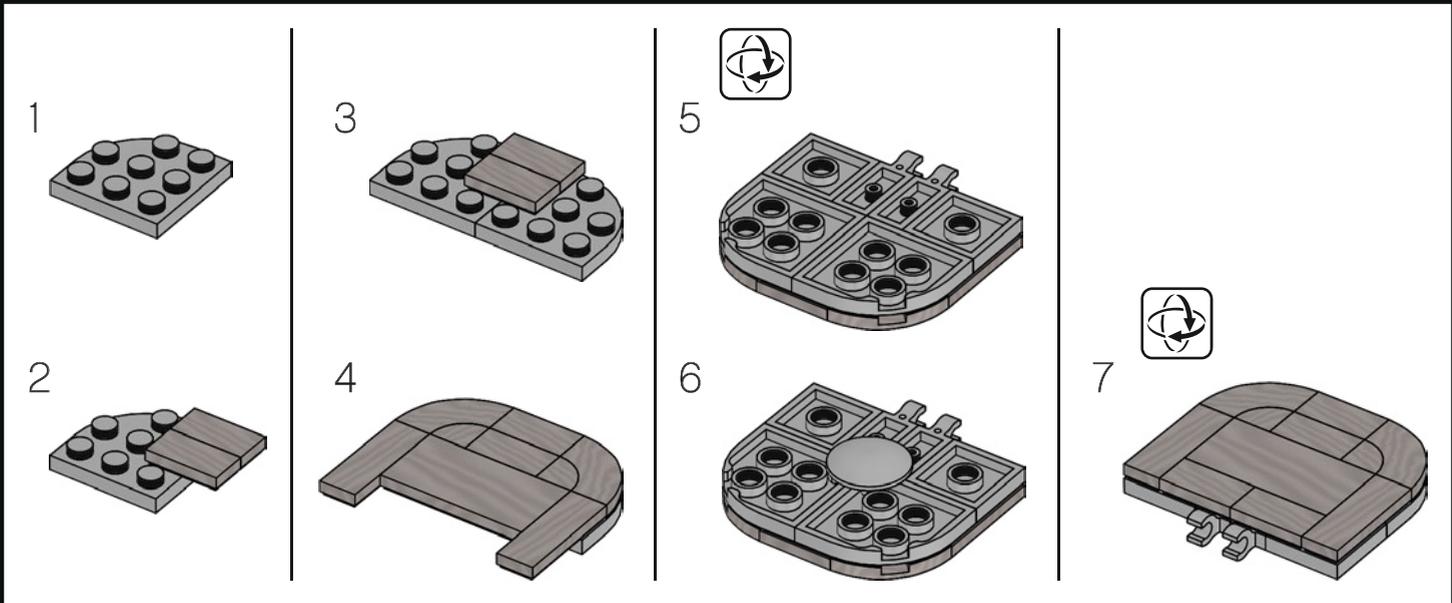
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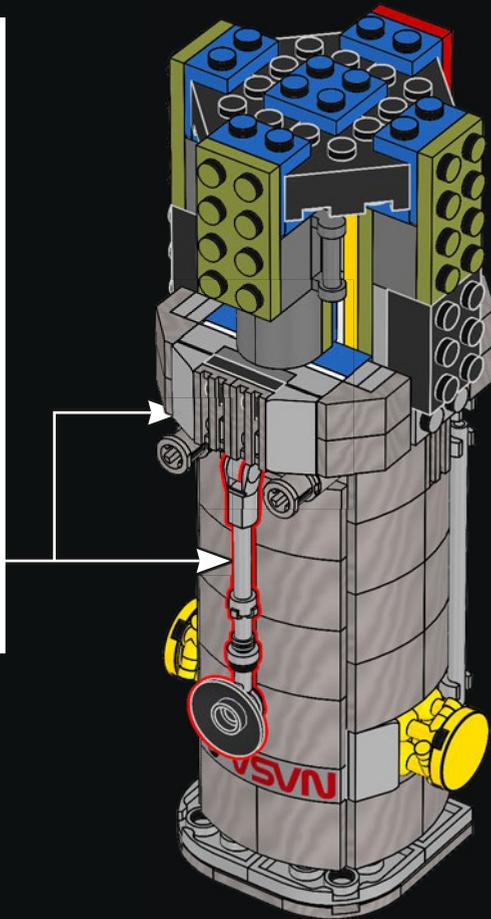
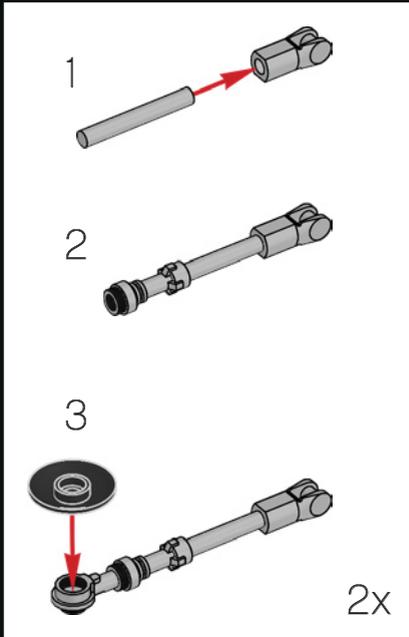


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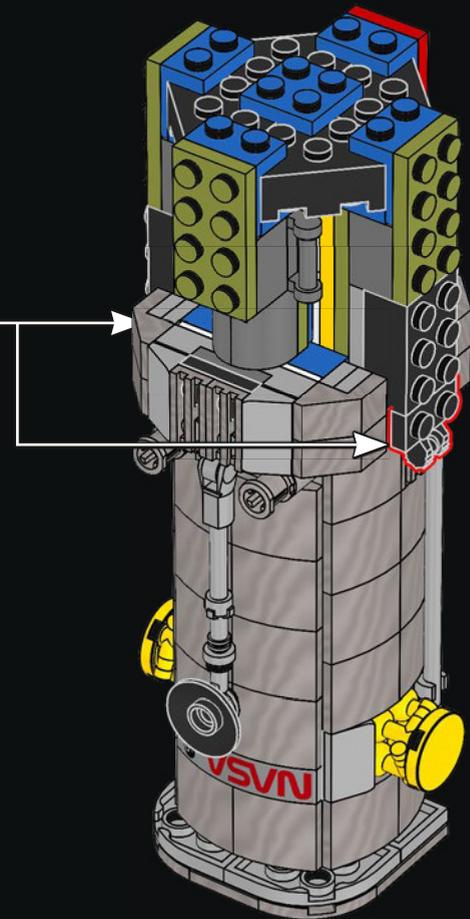
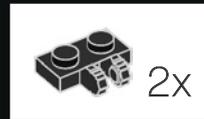


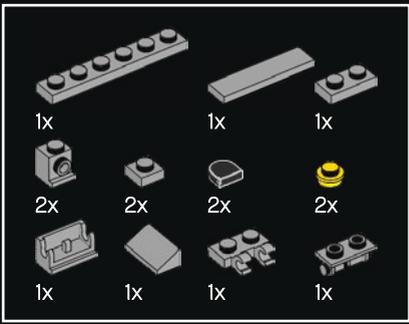


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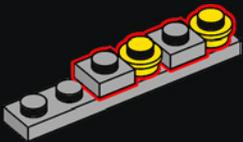


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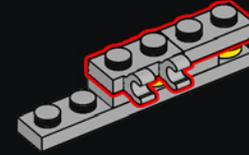
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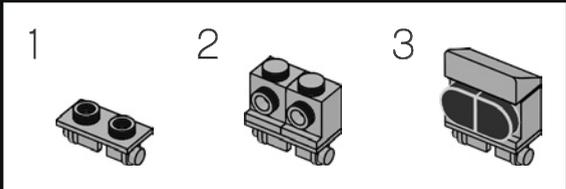
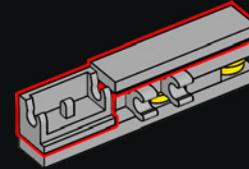
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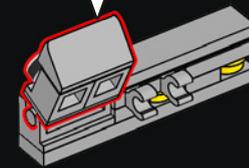
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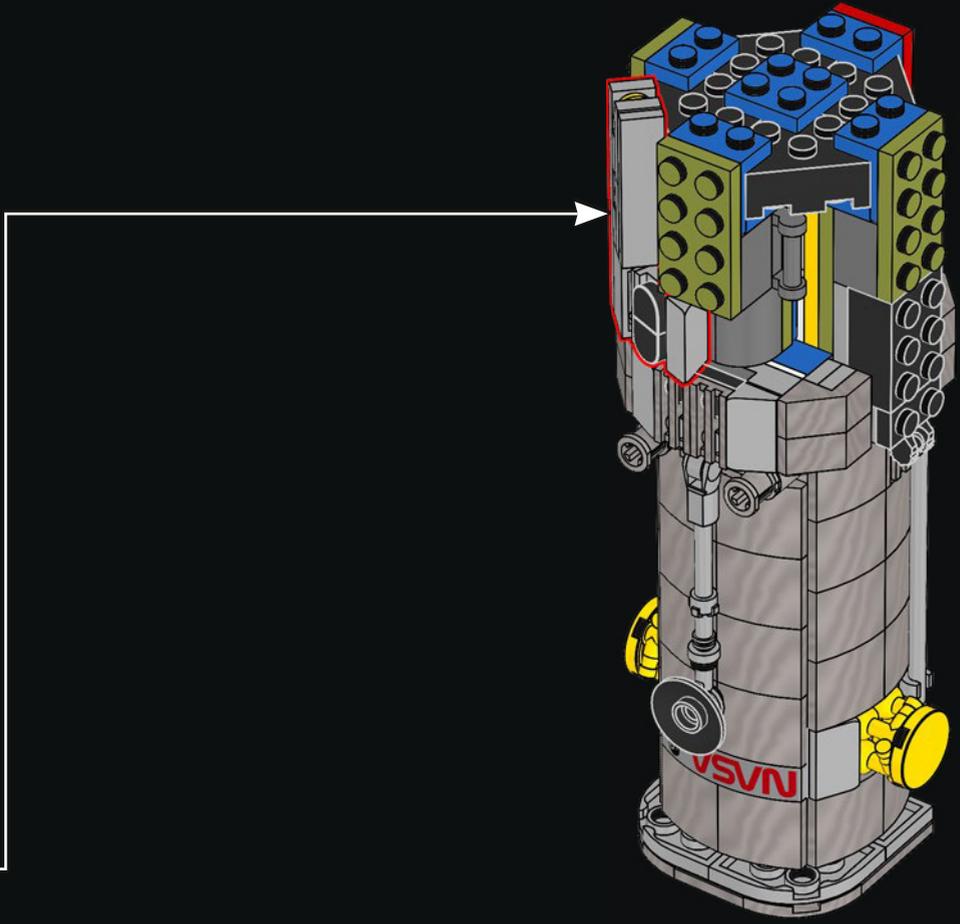


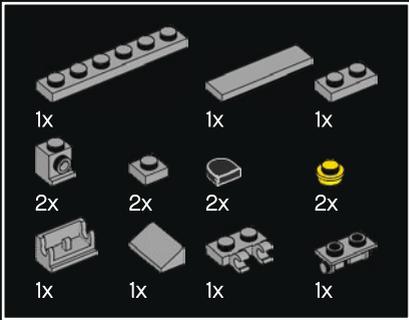
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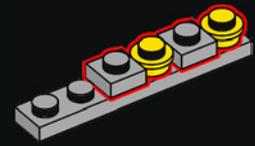


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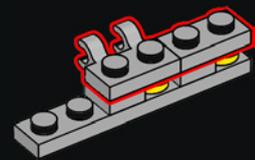
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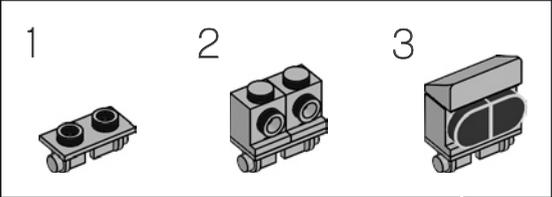
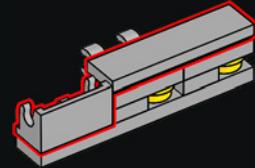
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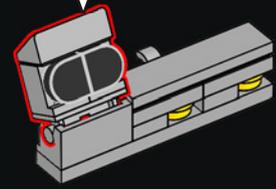
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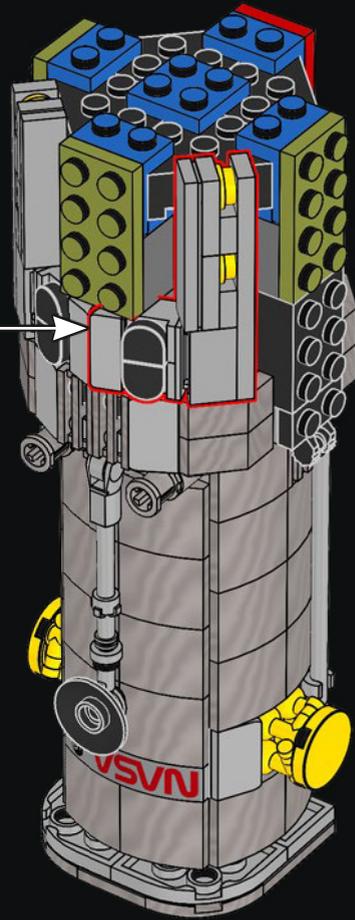


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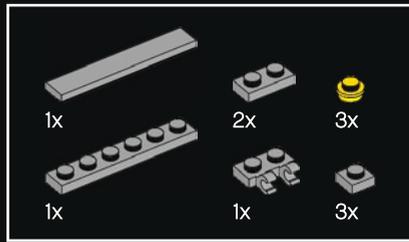
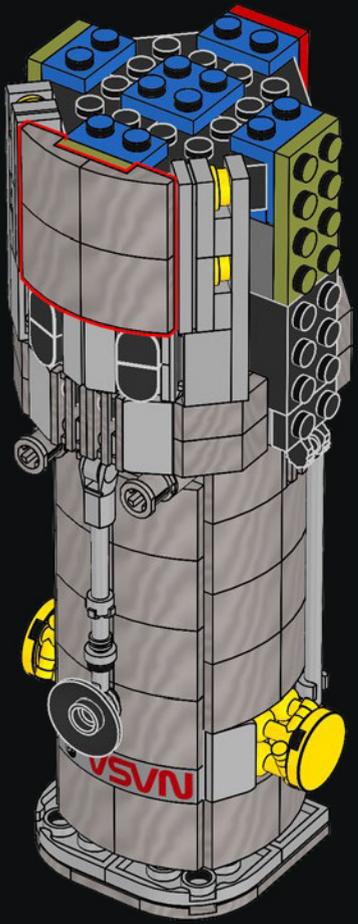
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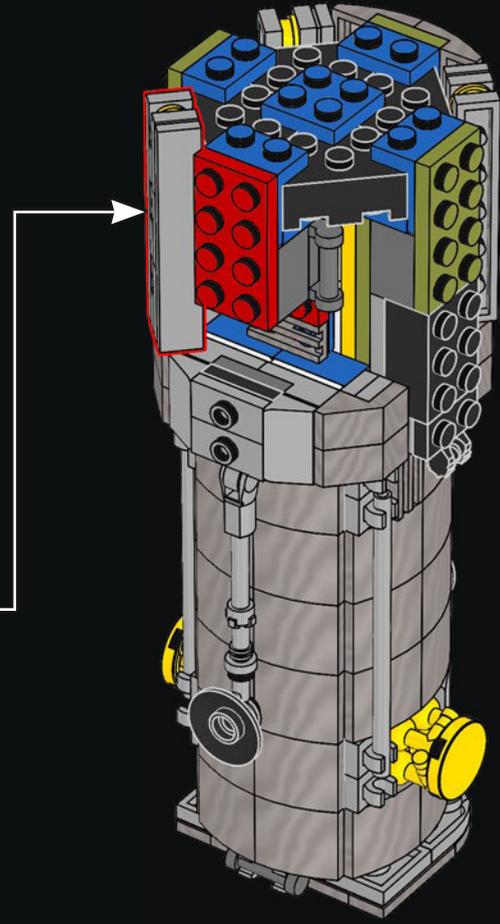
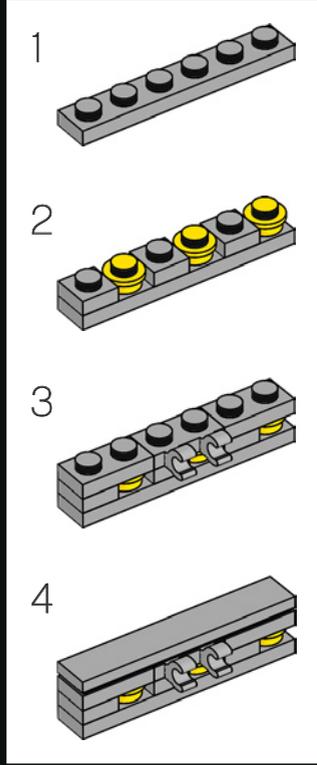


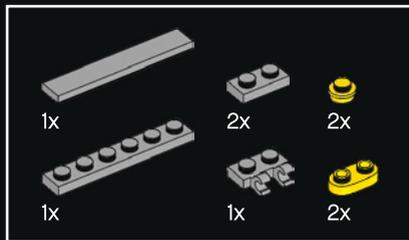


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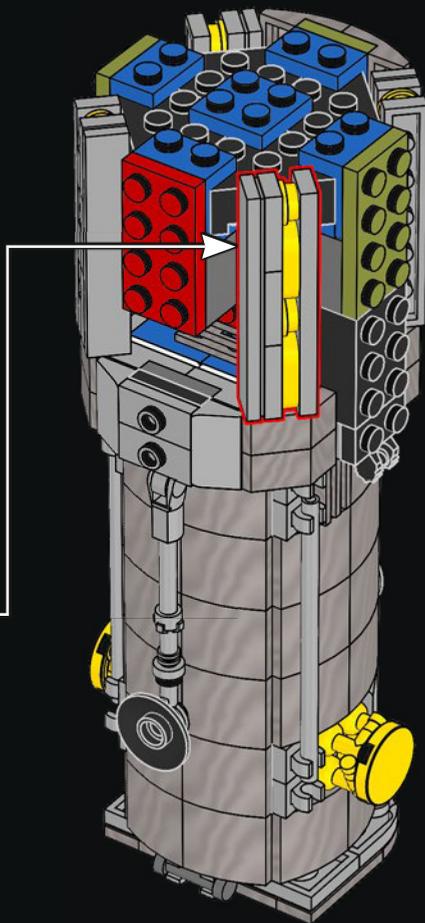
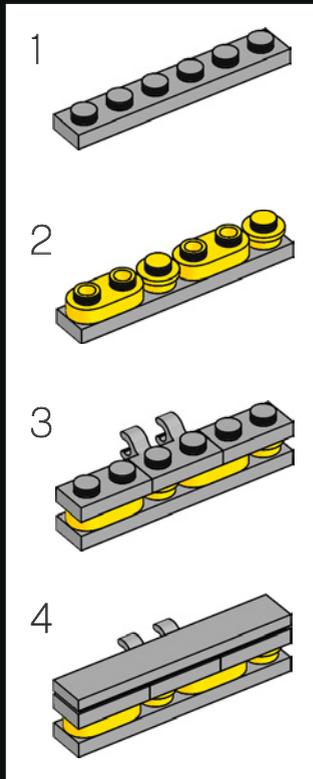


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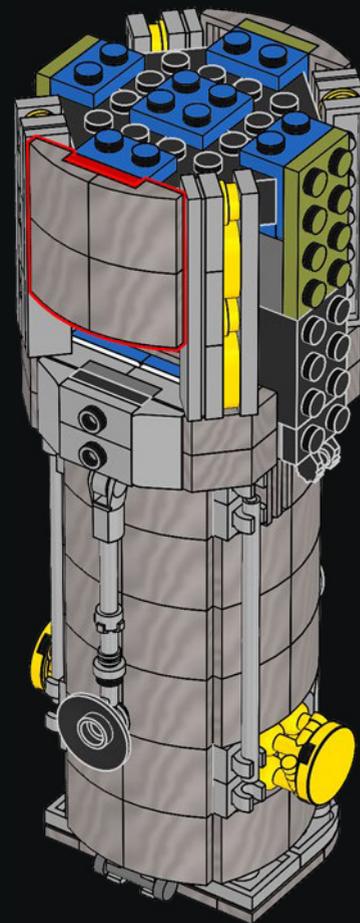




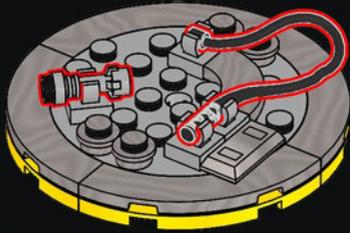
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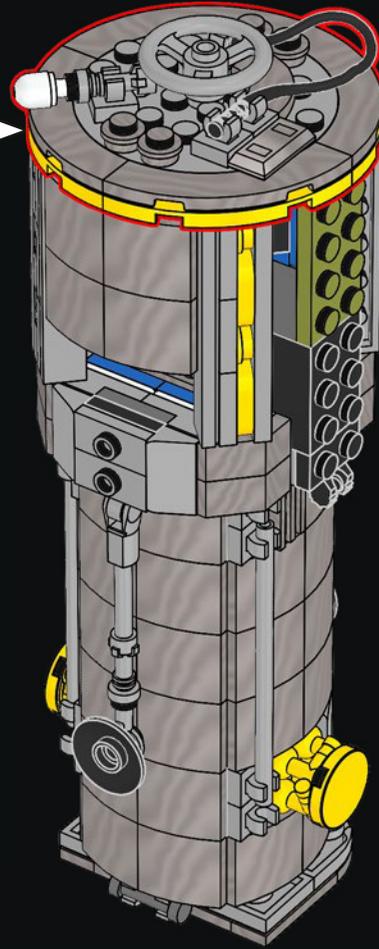
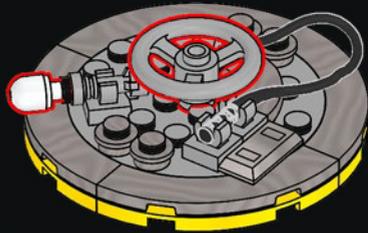
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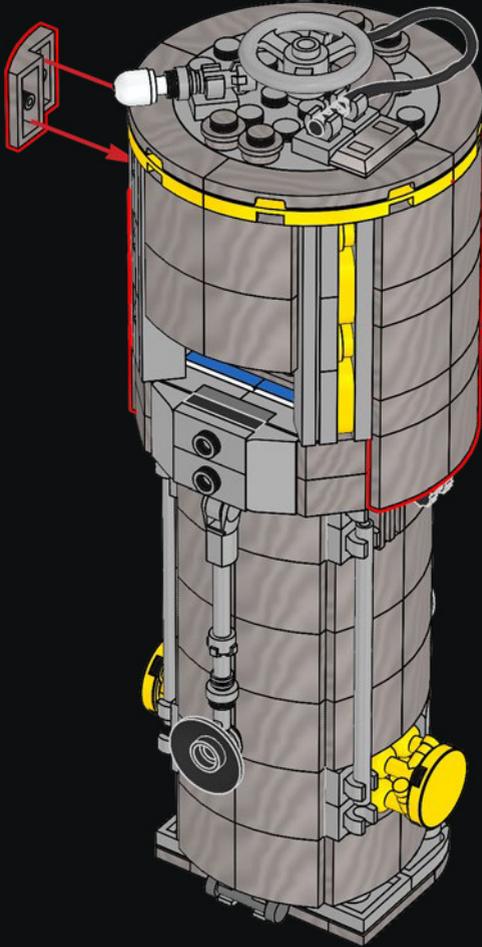


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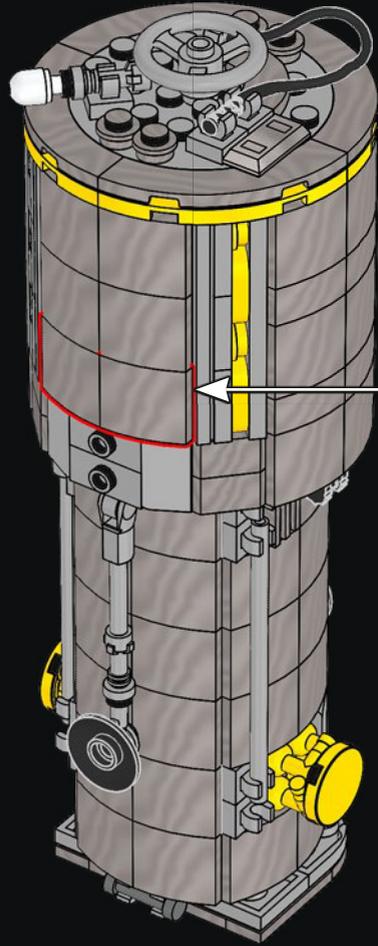
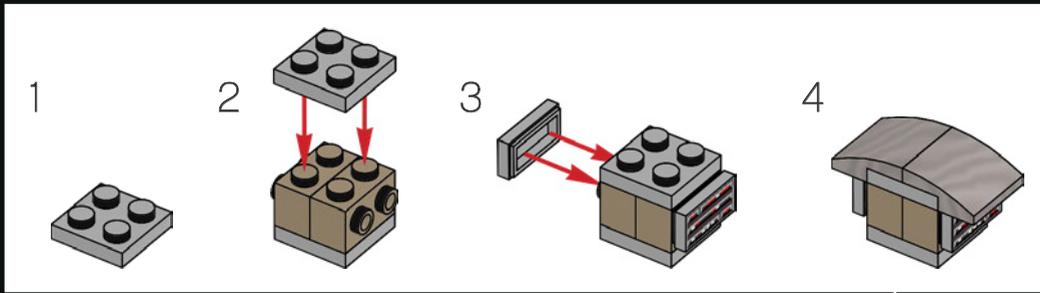


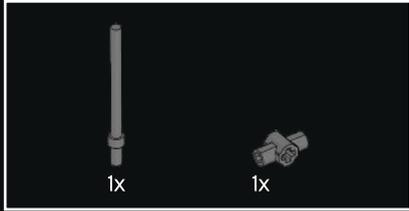
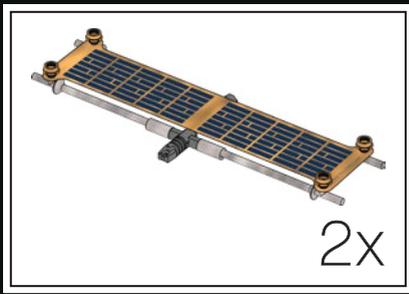
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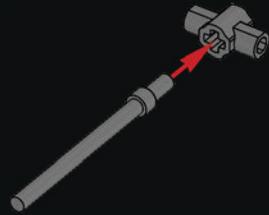


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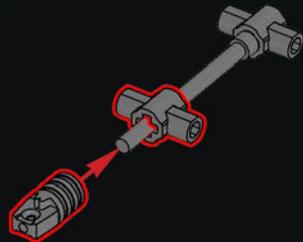




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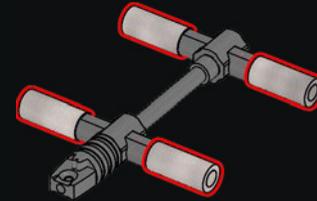
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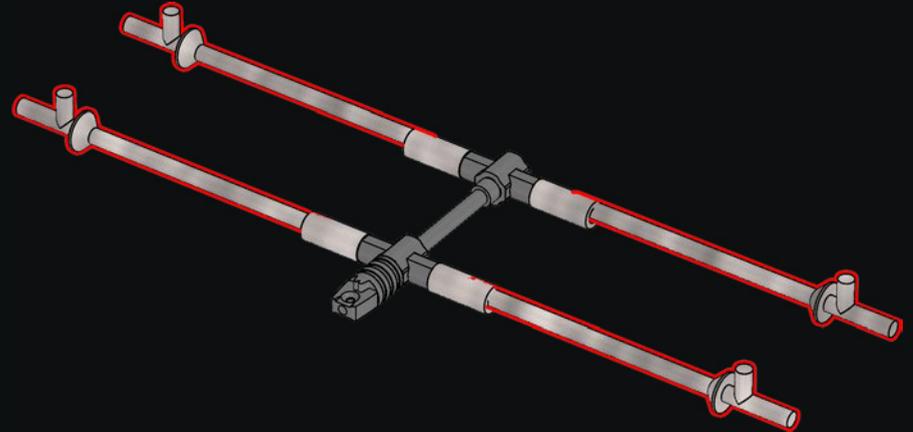
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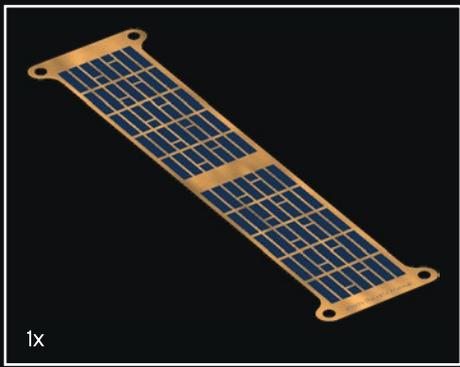


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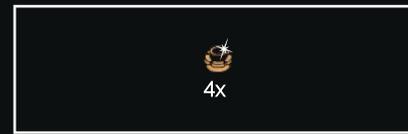
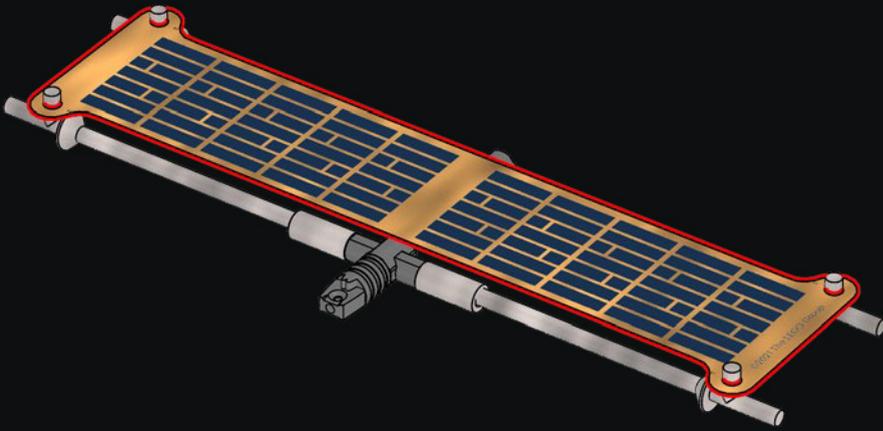


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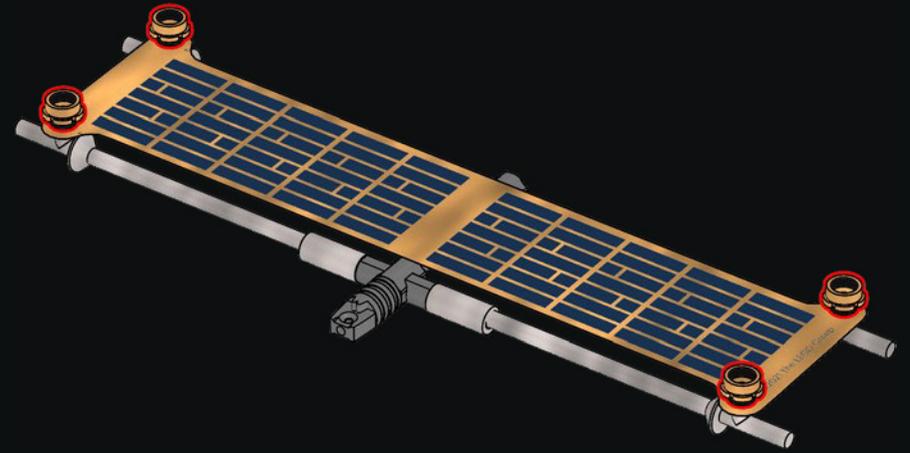




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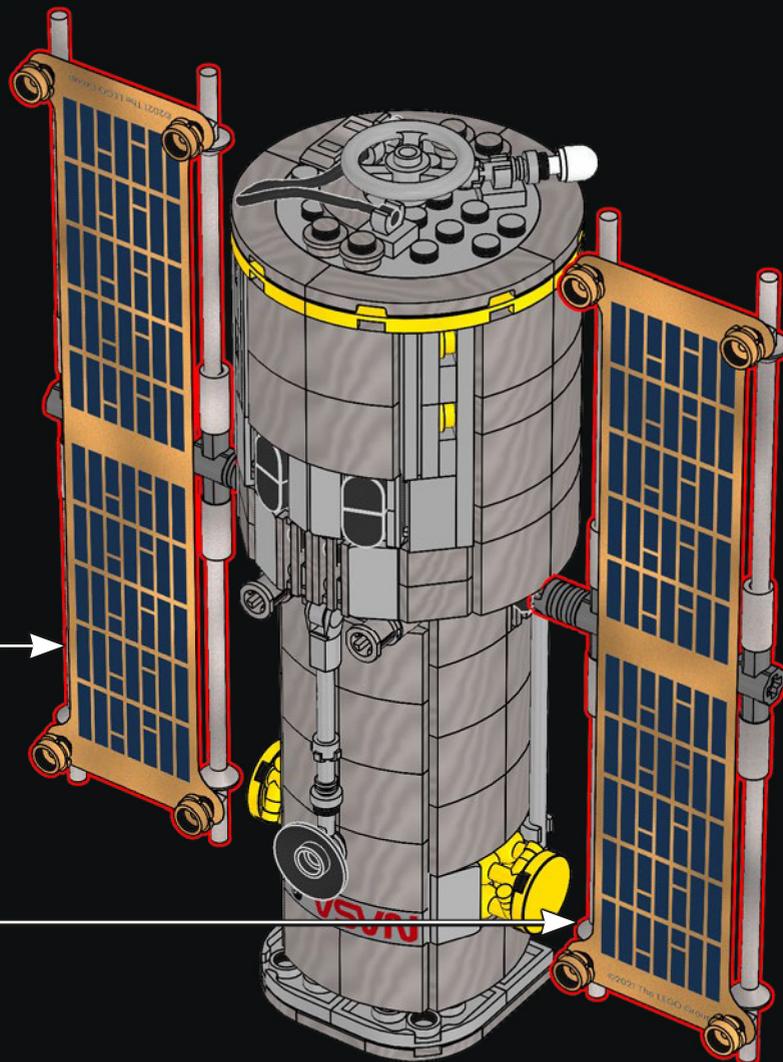
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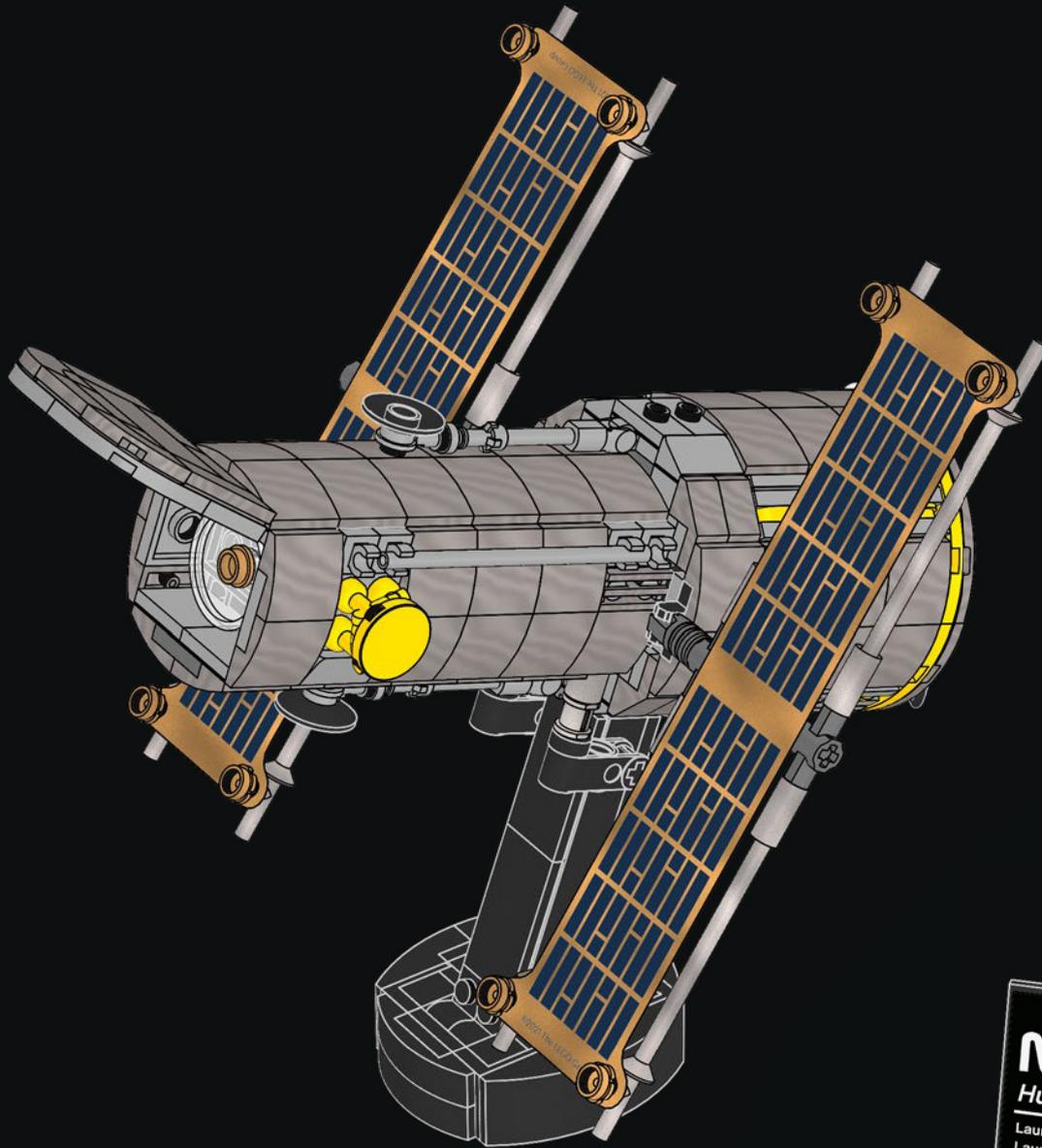


2x

LO SAPEVI?

Il telescopio spaziale Hubble ha fornito le immagini a più alta risoluzione dell'universo mai registrate, che ritraggono alcune galassie a oltre 13 miliardi di anni luce di distanza.



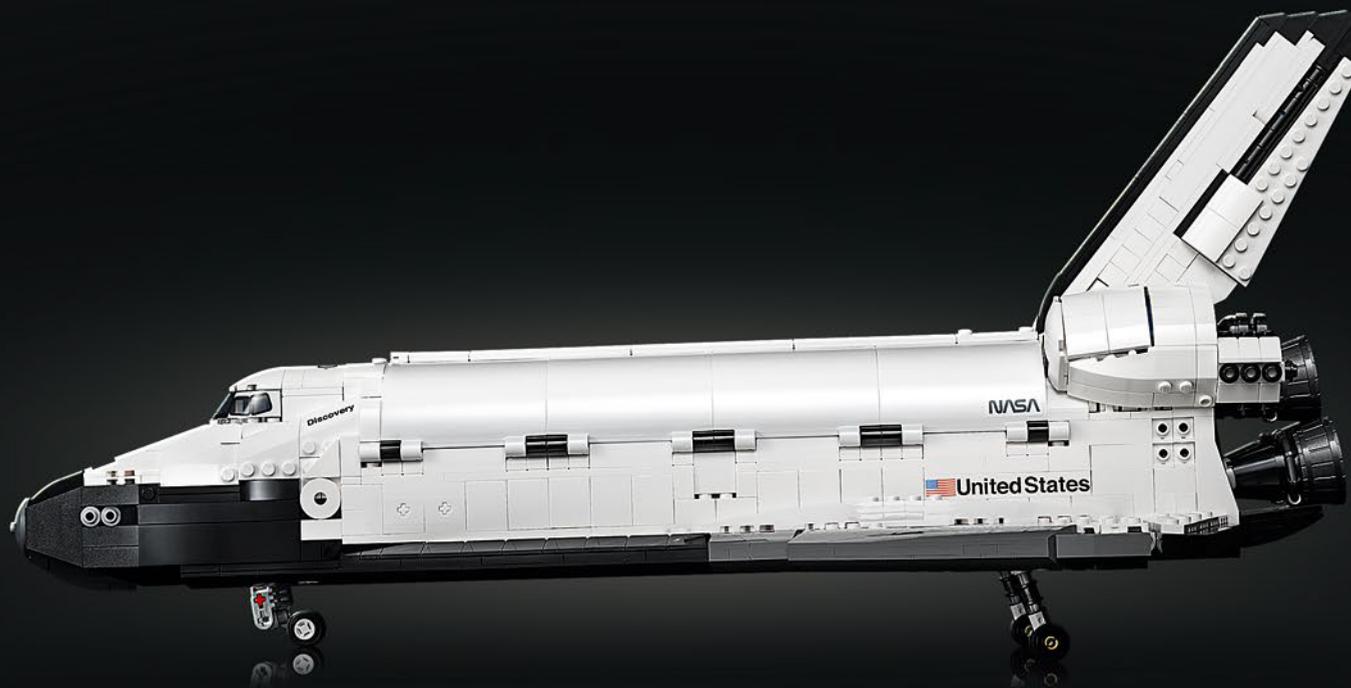


NASA  **esa**
Hubble Space Telescope

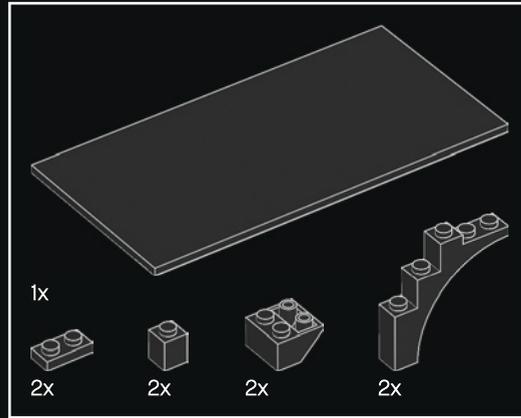
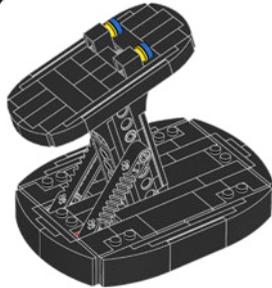
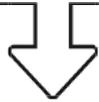
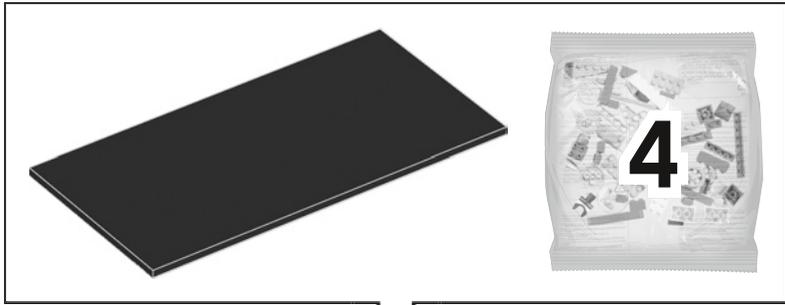
Launch: April 24, 1990
Launch Mass: 24,490 lbs
Velocity: 4.72 mi/s
Deploy Altitude: 350 miles

SPACE SHUTTLE DISCOVERY

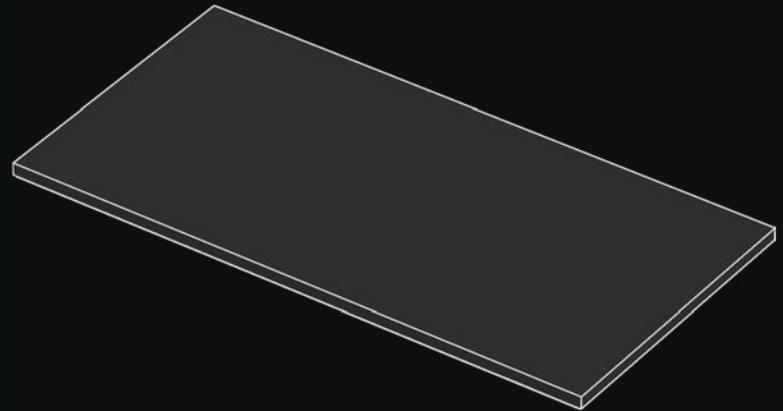
Il programma Space Shuttle prevedeva la costruzione di veicoli spaziali riutilizzabili in grado di trasportare grandi carichi utili in orbita. Discovery (OV-103) è stato il terzo "veicolo orbitale" della NASA, inaugurato nel novembre 1983. Avrebbe portato a termine 39 missioni, volando per 238 milioni di chilometri, completando 5.830 orbite della Terra e trascorrendo quasi 365 giorni nello spazio durante i suoi 27 anni di servizio. La missione di 5 giorni per mettere in orbita l'Hubble fu avviata dal Kennedy Space Center della NASA il 24 aprile 1990. I progettisti crearono il telescopio perché si adattasse perfettamente all'interno del vano di carico della navetta.







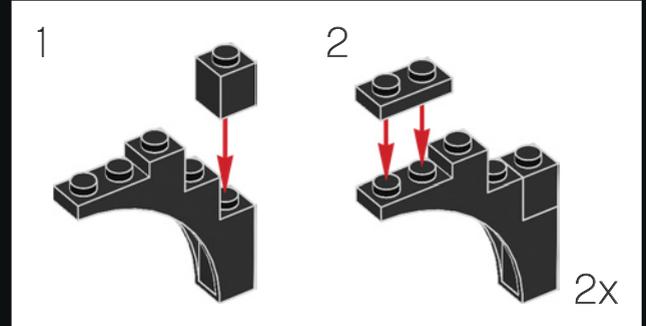
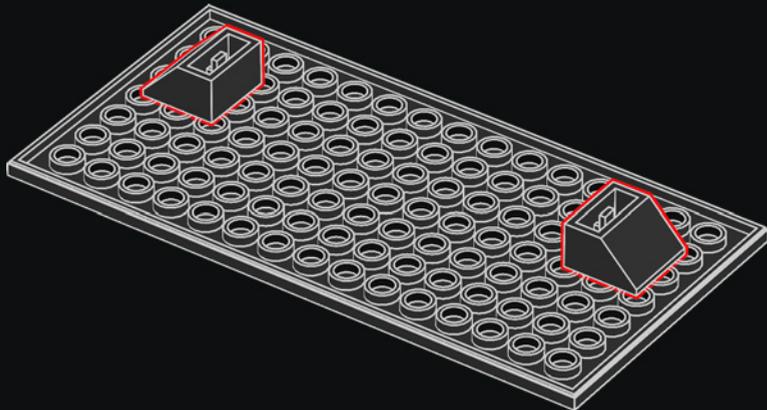
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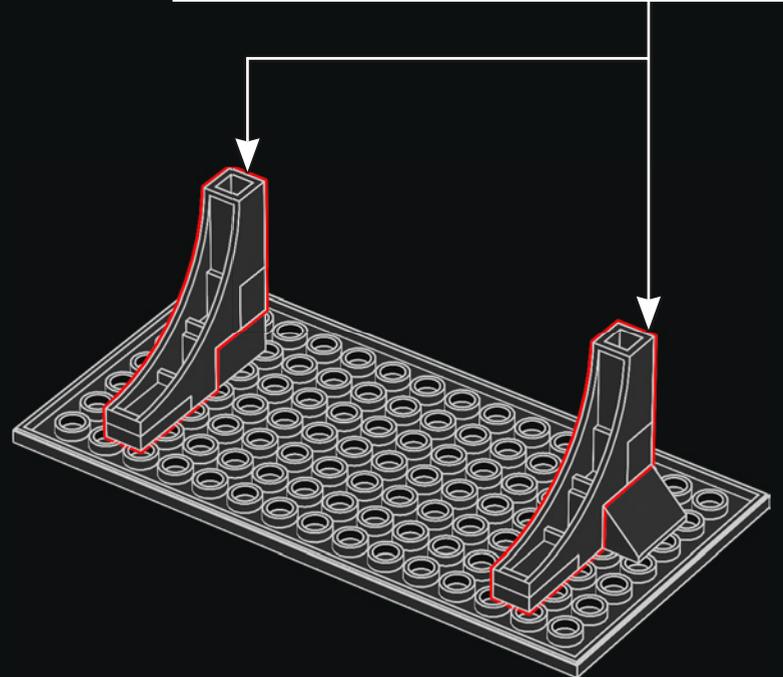
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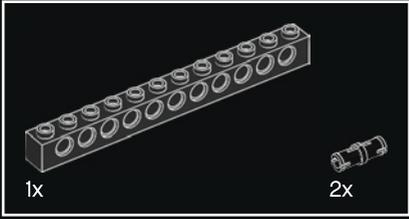
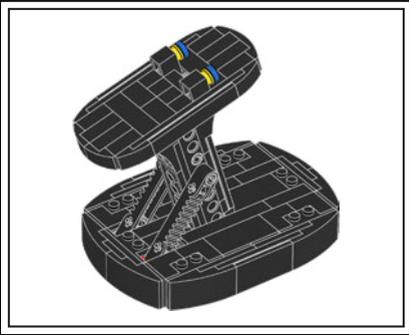


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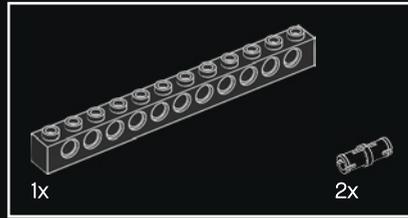
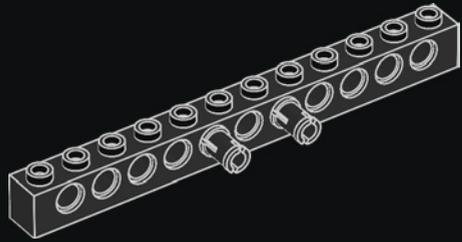


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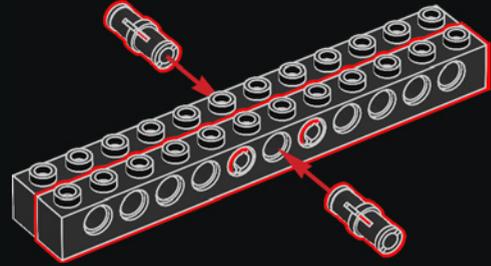




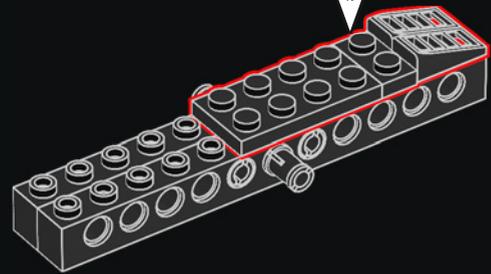
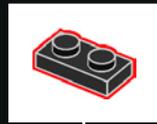
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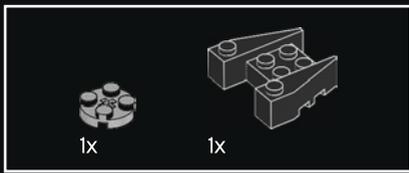


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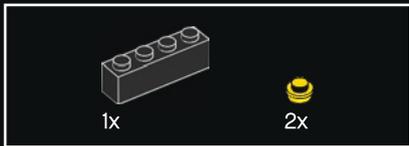
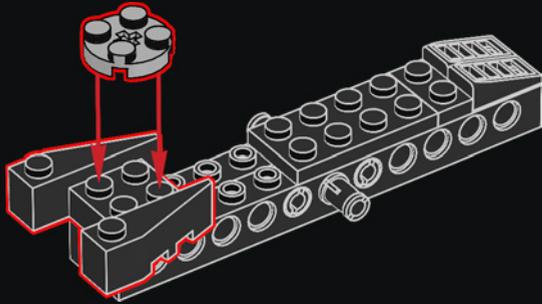


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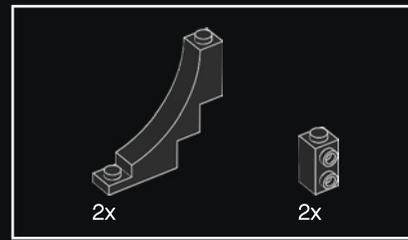
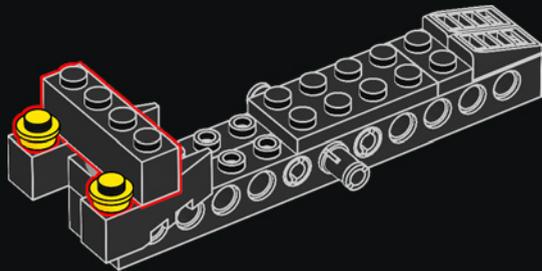




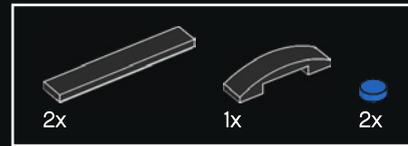
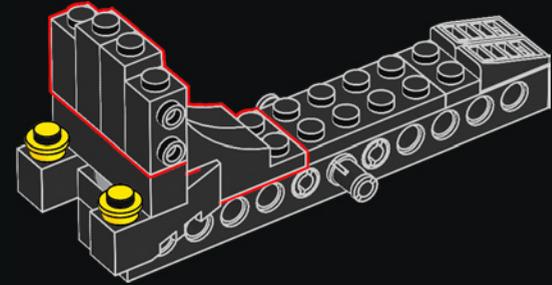
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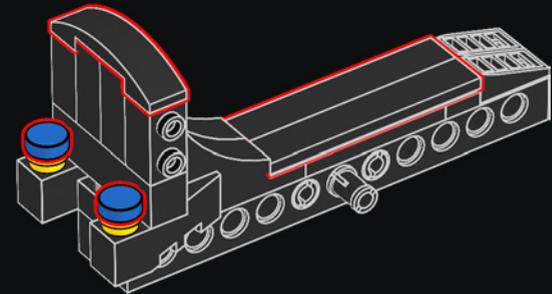
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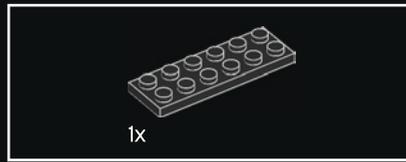
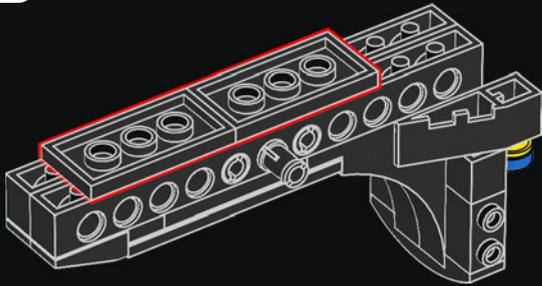


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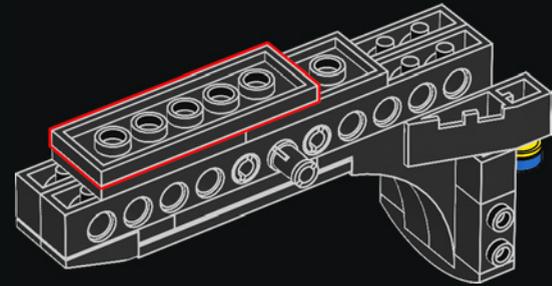


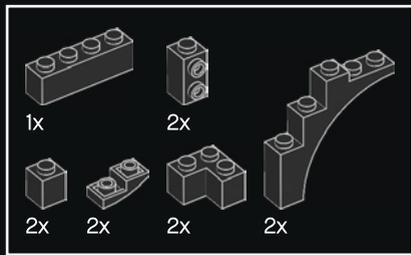


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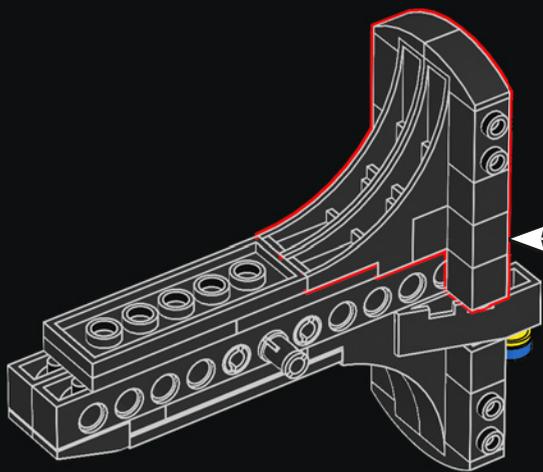
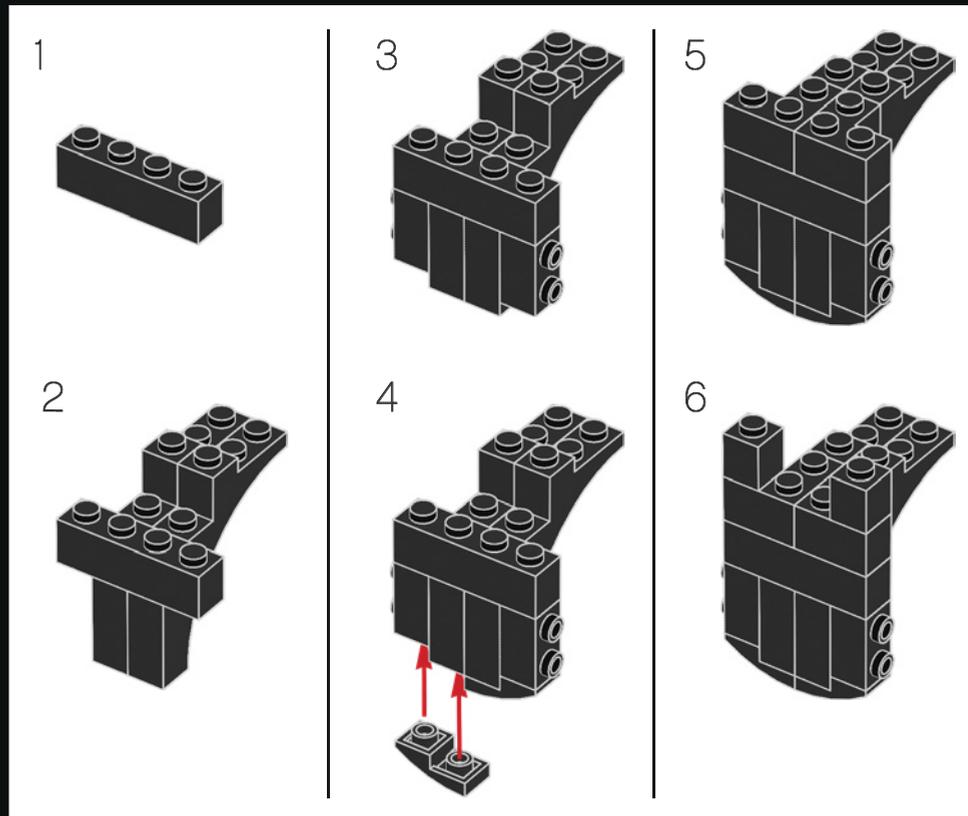


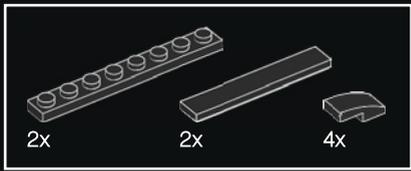
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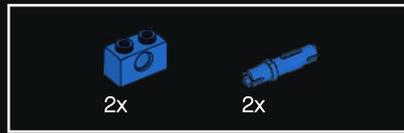
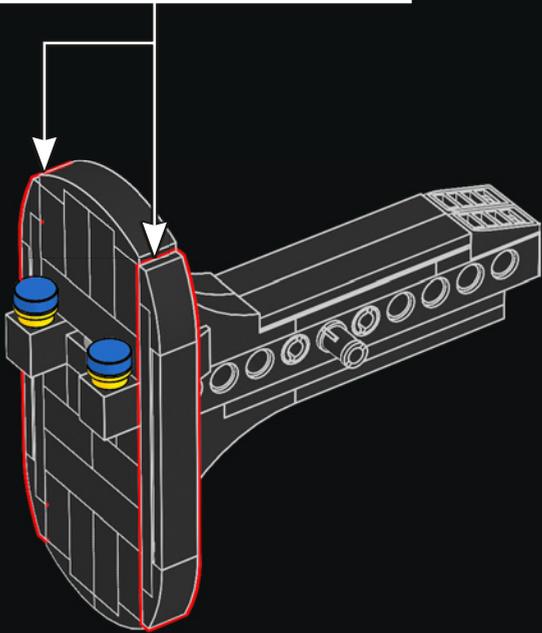
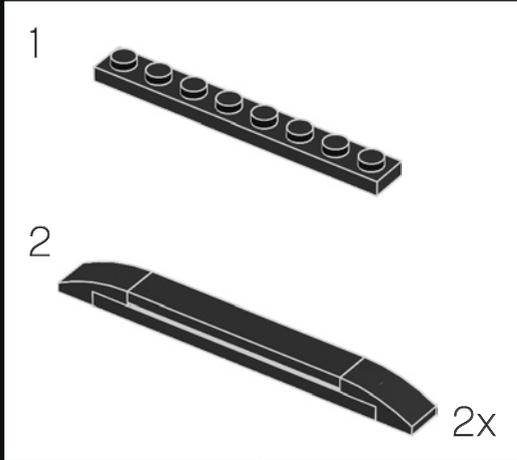


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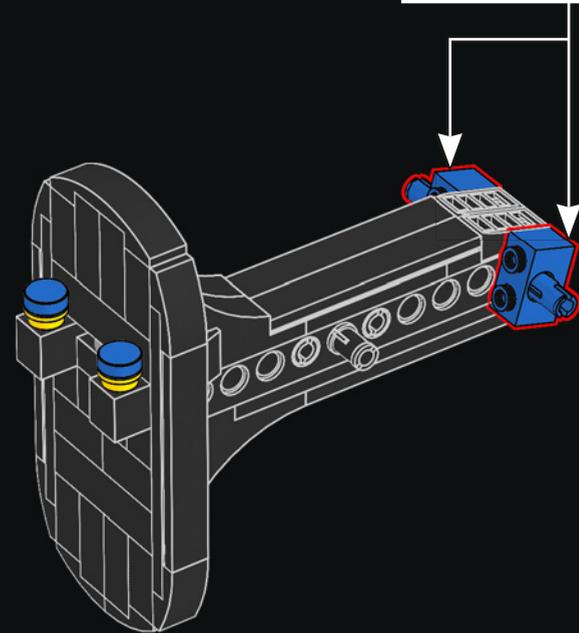
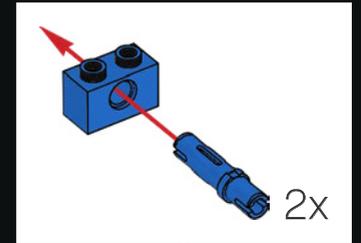


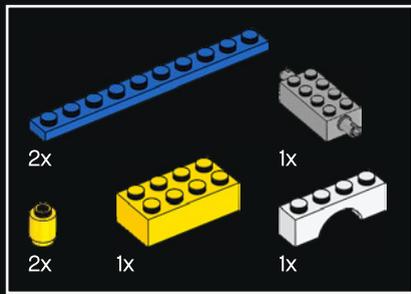


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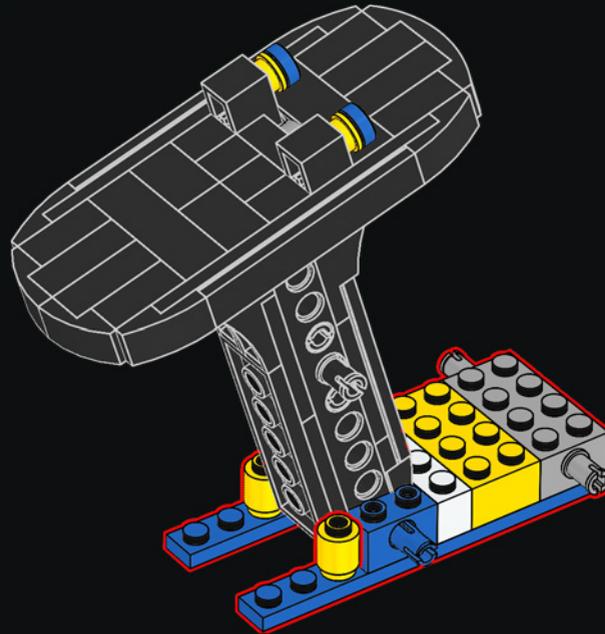
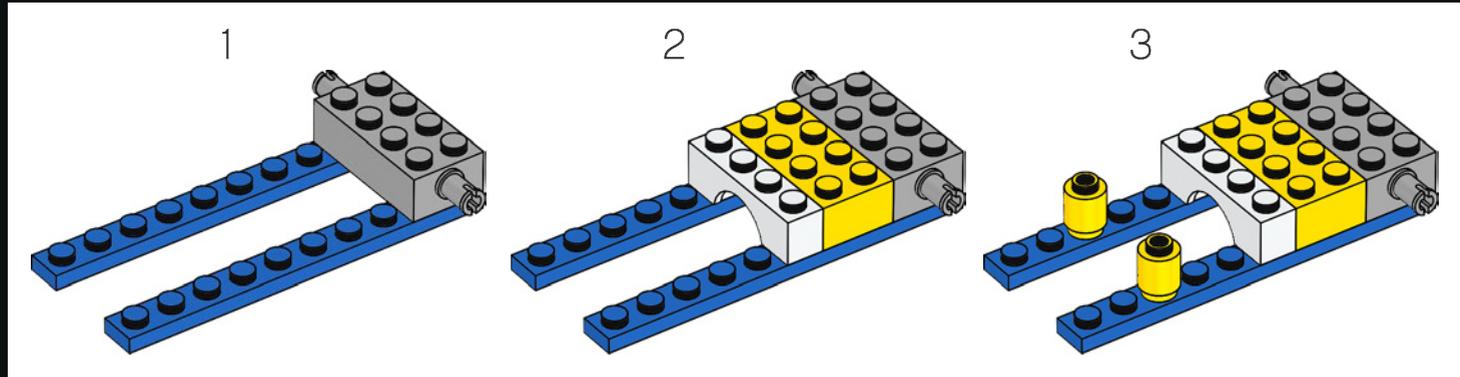


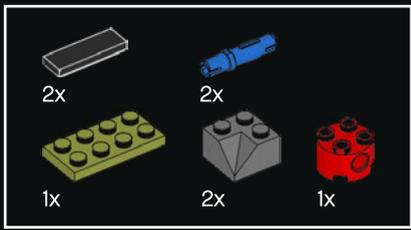
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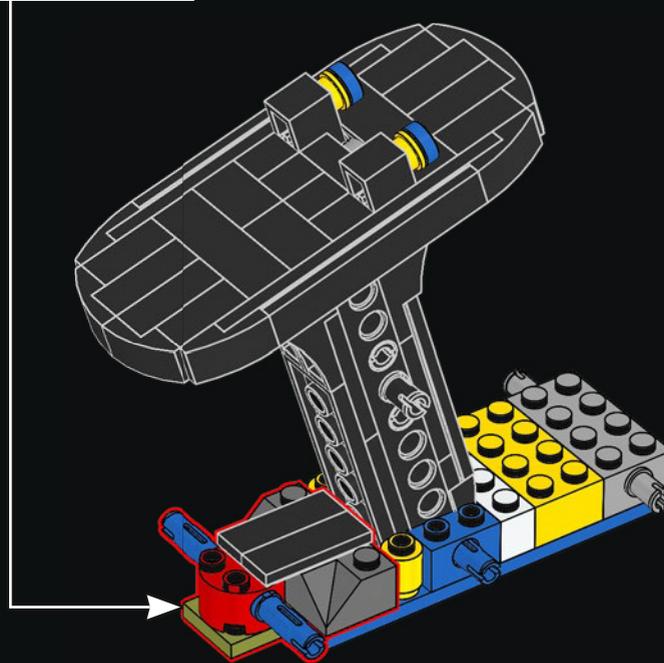
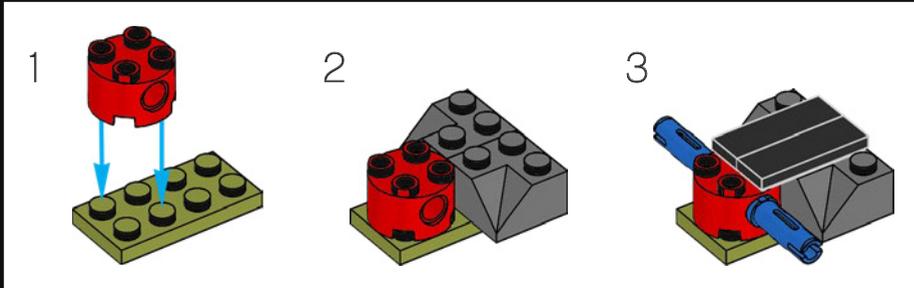


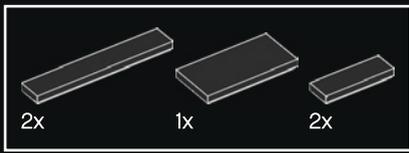
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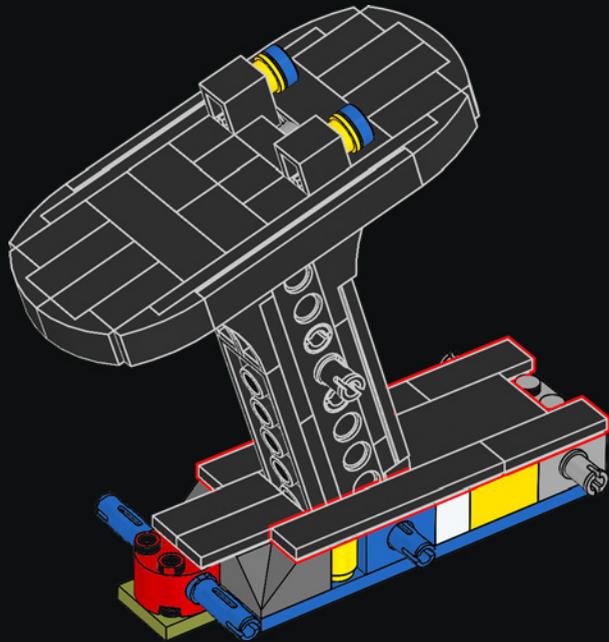


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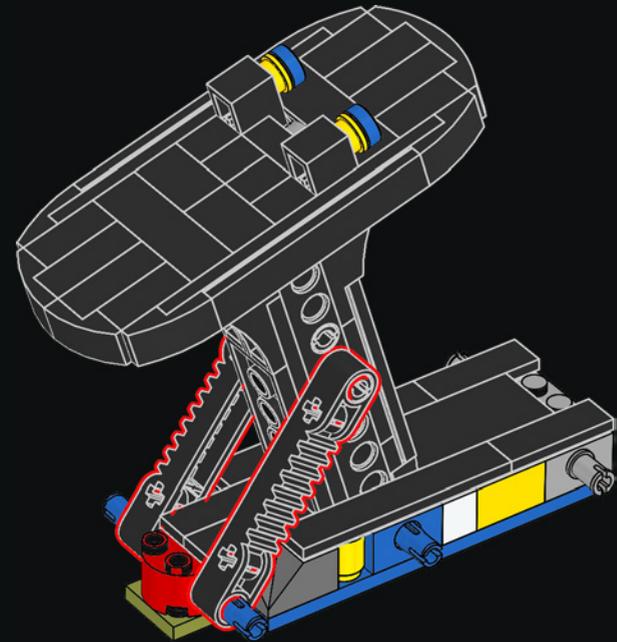


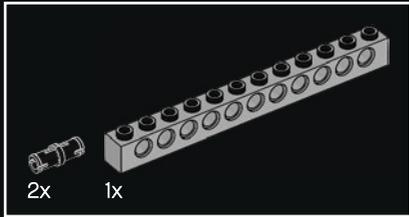
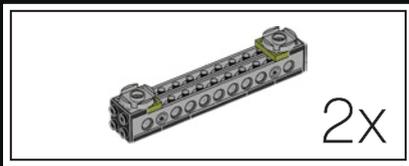


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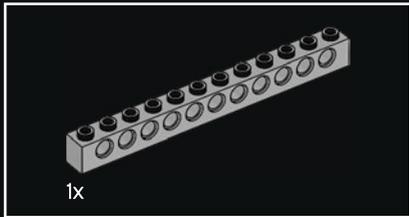
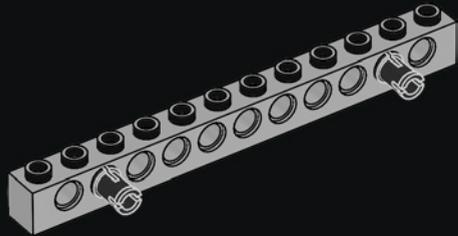


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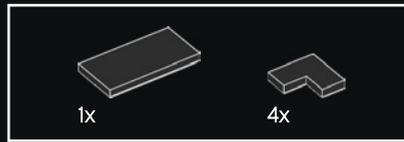
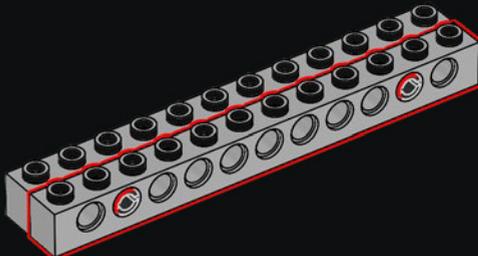




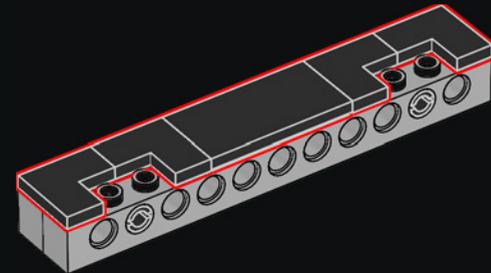
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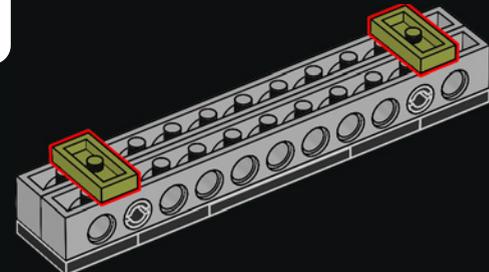
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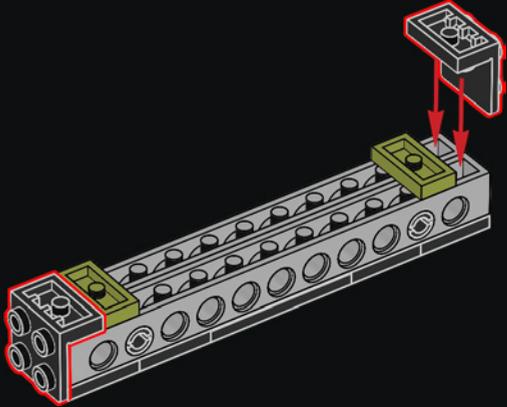


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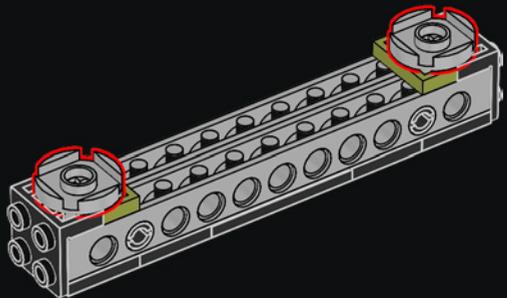




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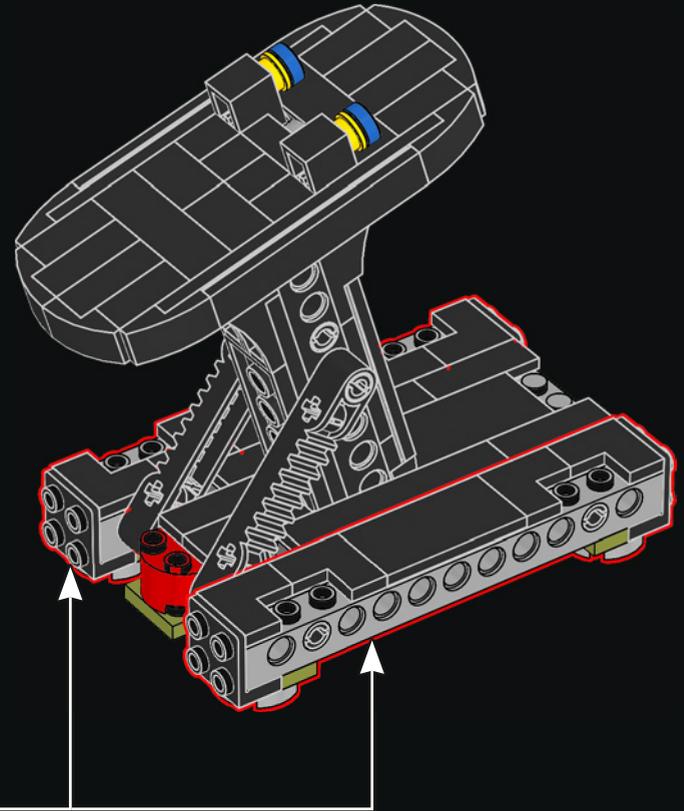


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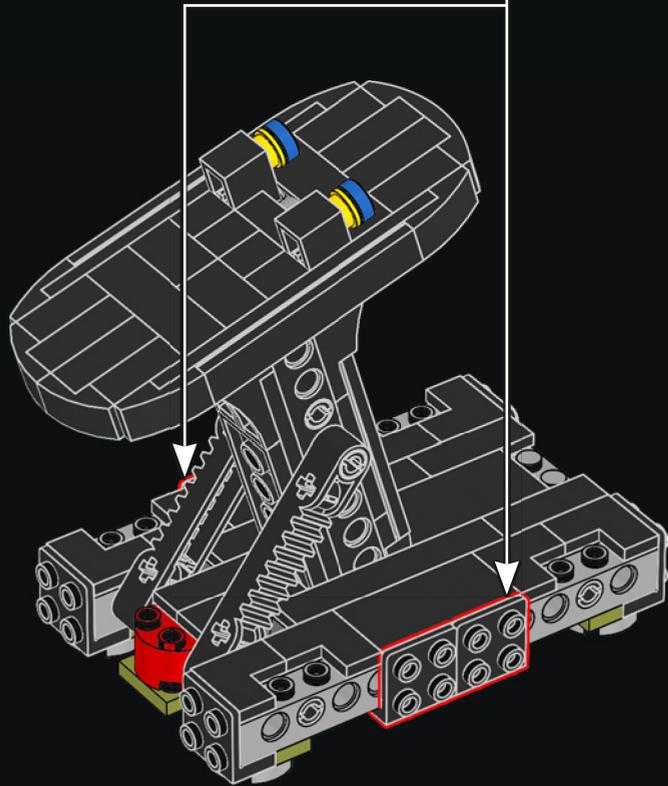


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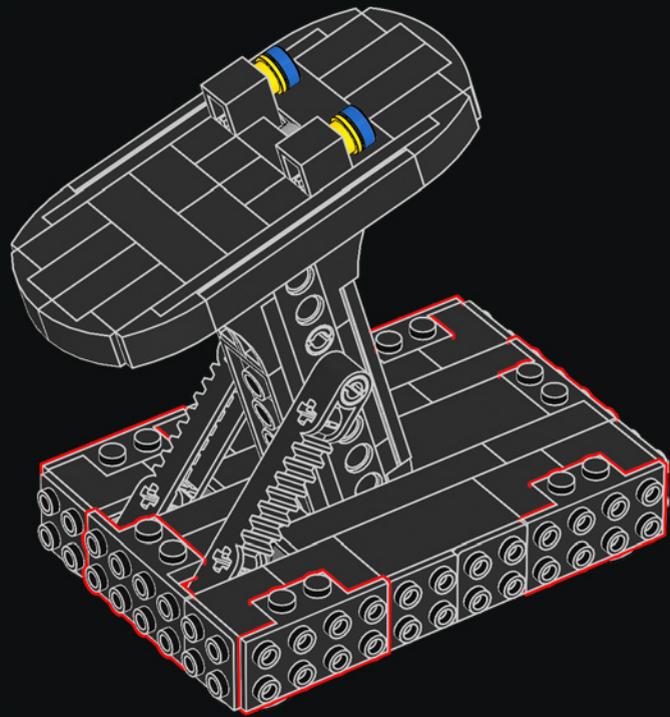


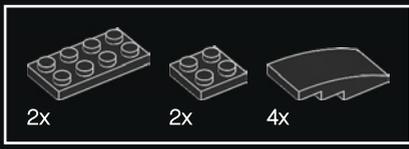
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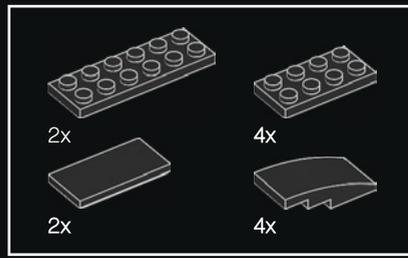
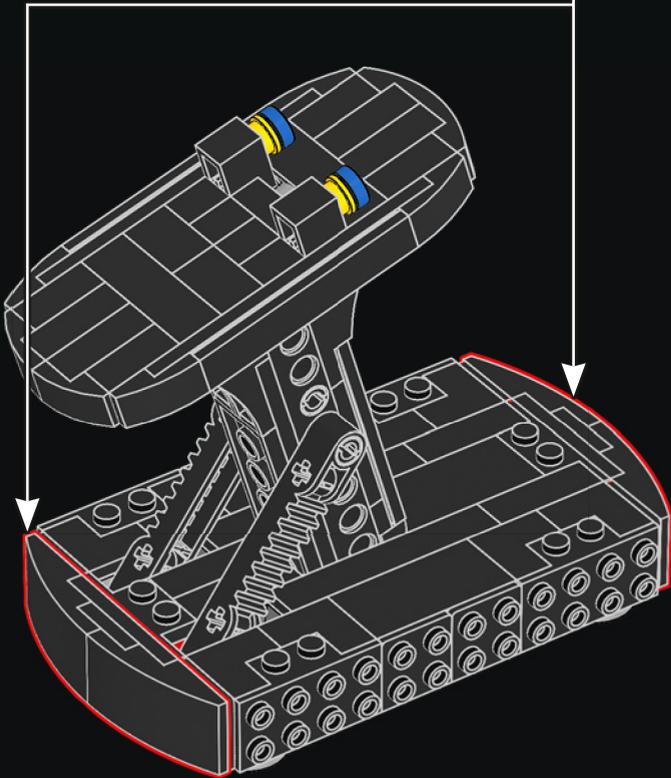
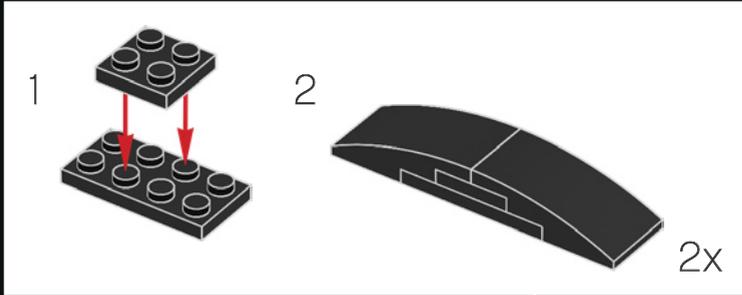
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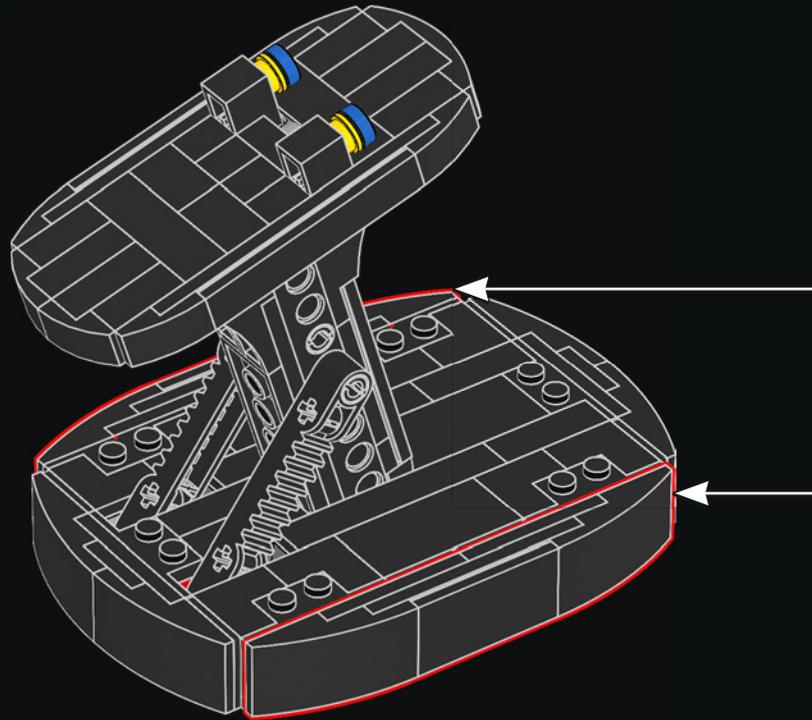
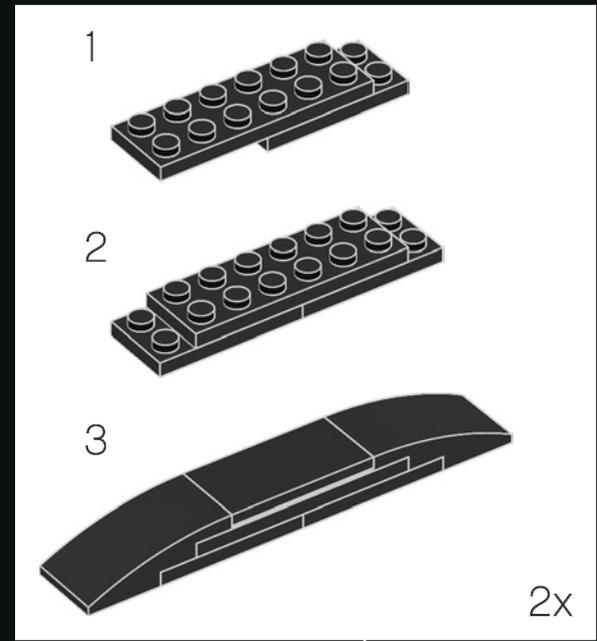


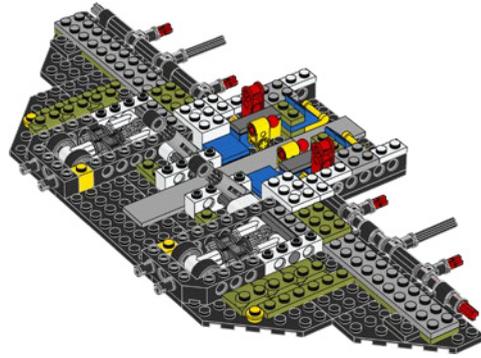
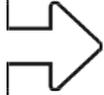


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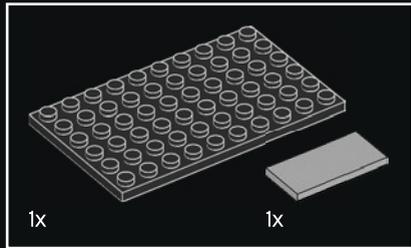
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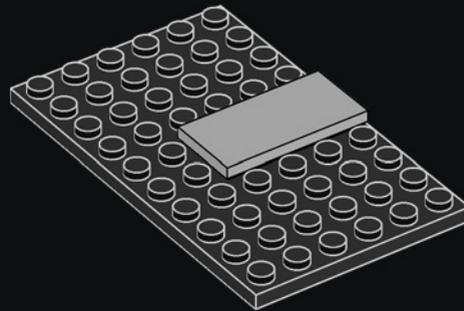


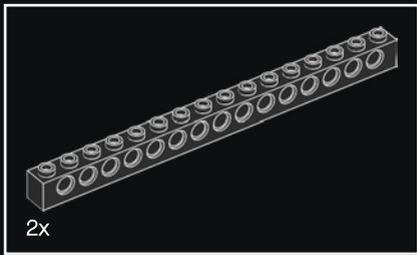
LO SAPEVI?

Il Discovery trasportò 222 persone durante la sua attività nello spazio, più di qualsiasi altro space shuttle.

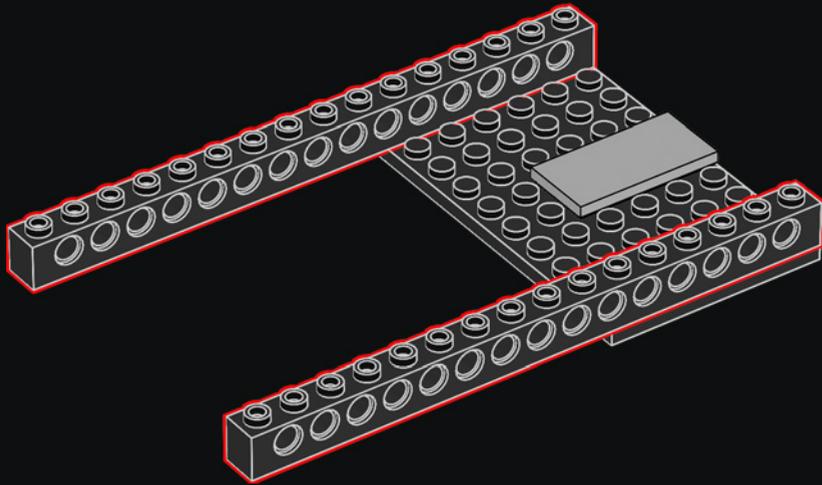


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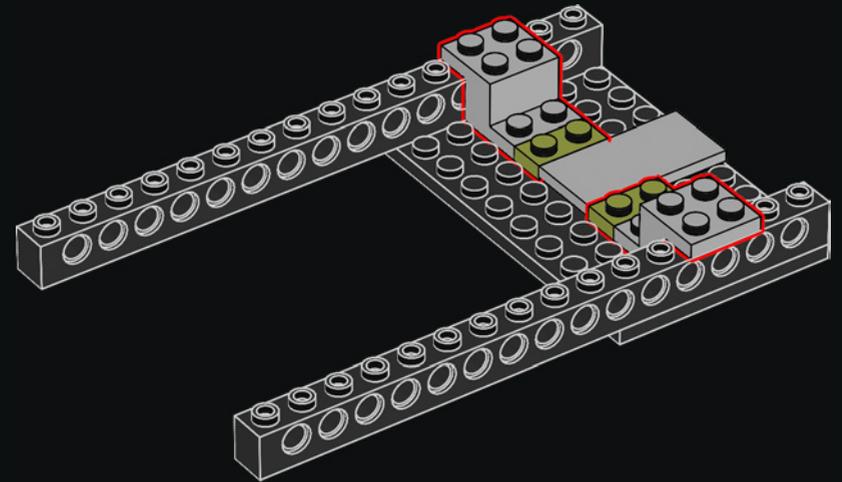


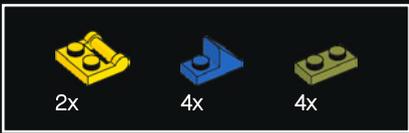


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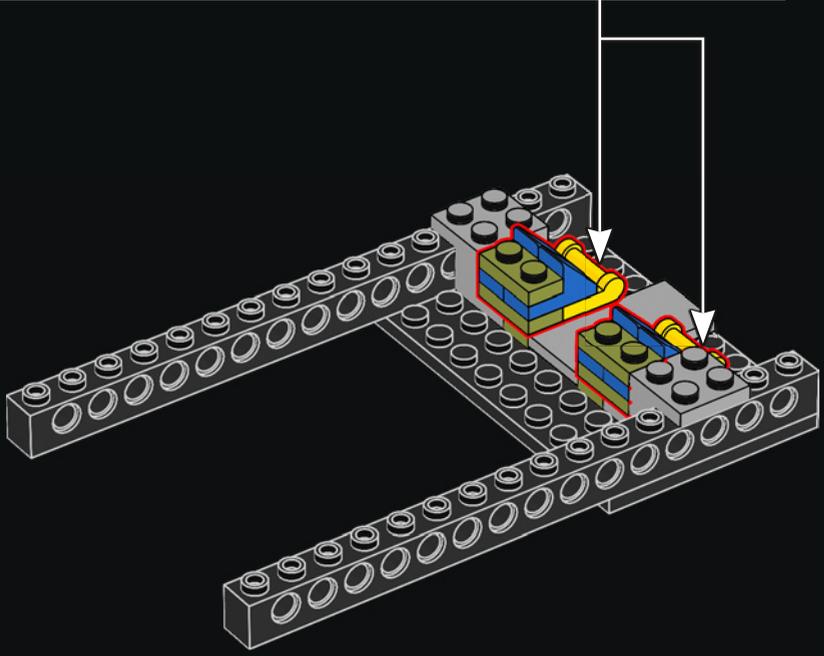
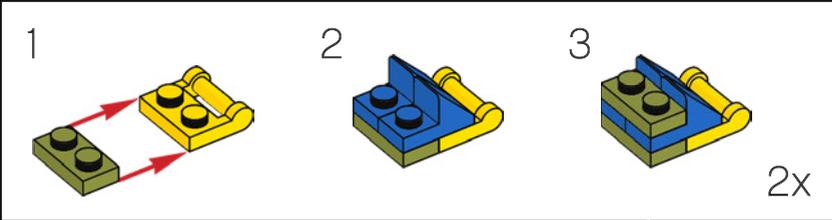


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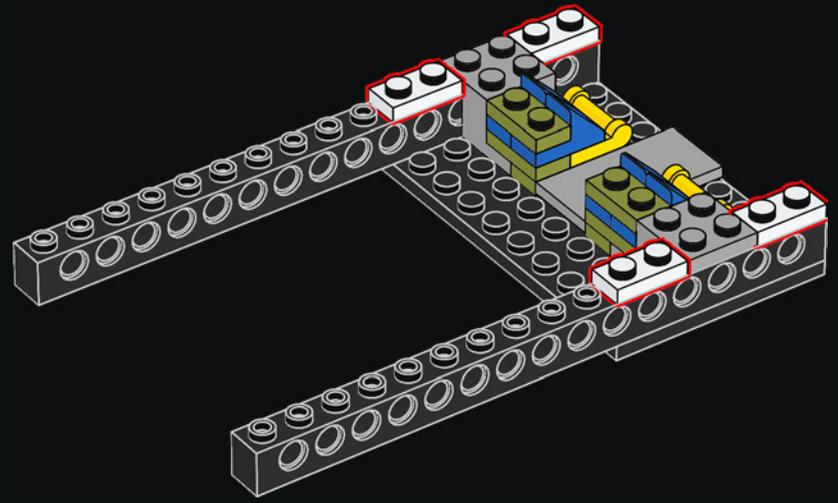




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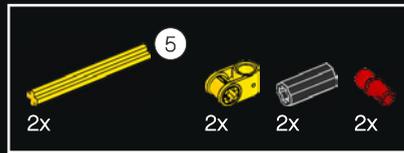
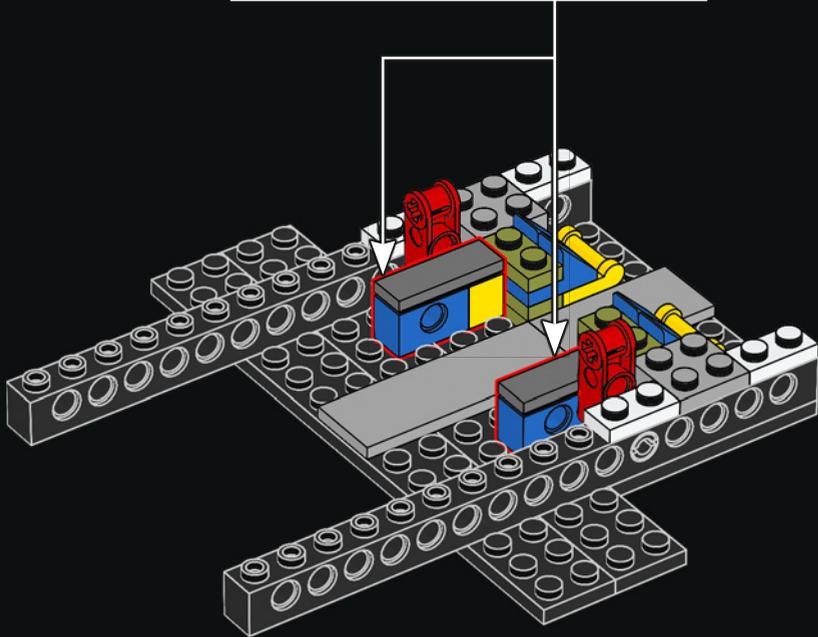
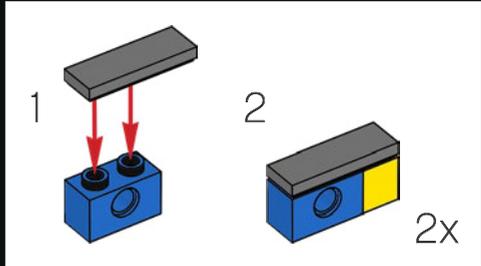


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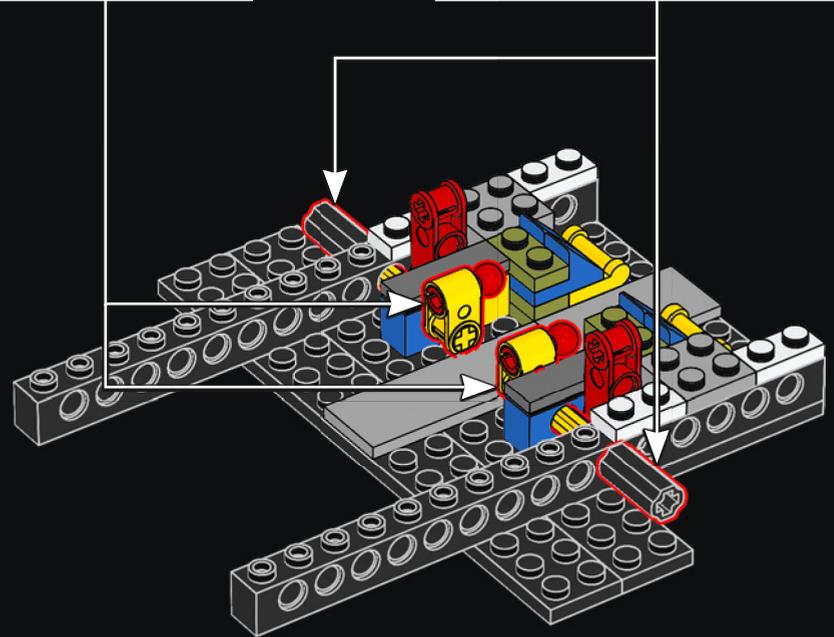
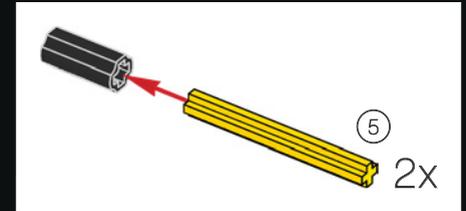
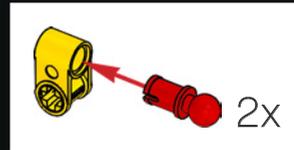


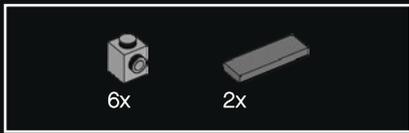


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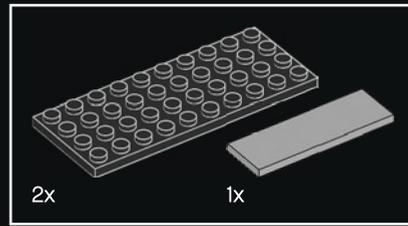
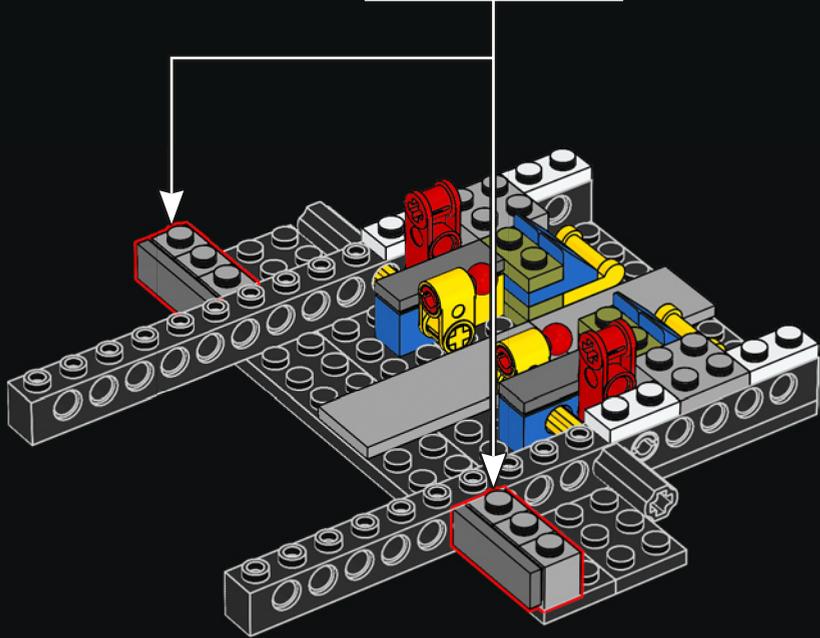
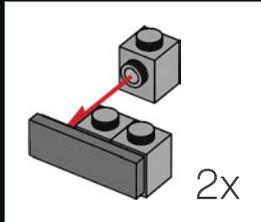


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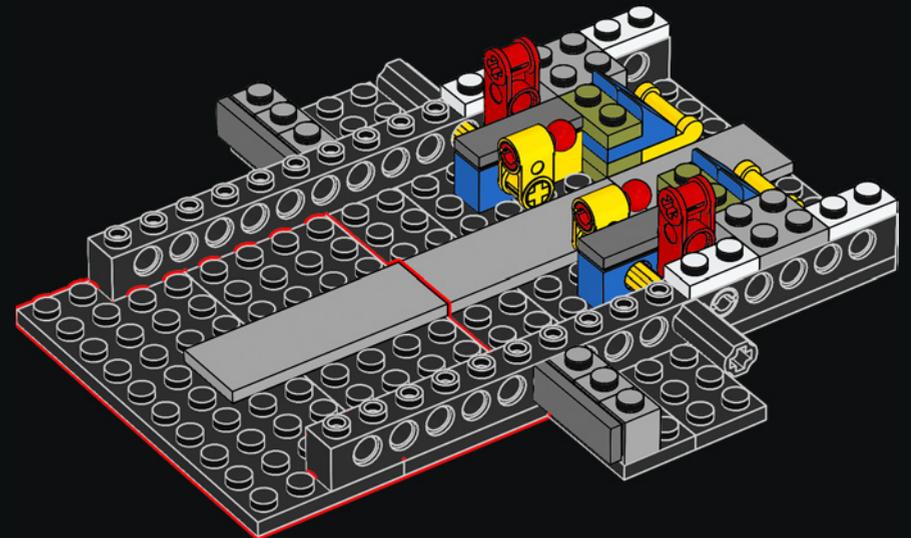


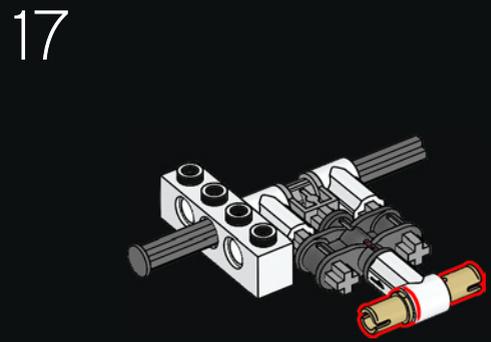
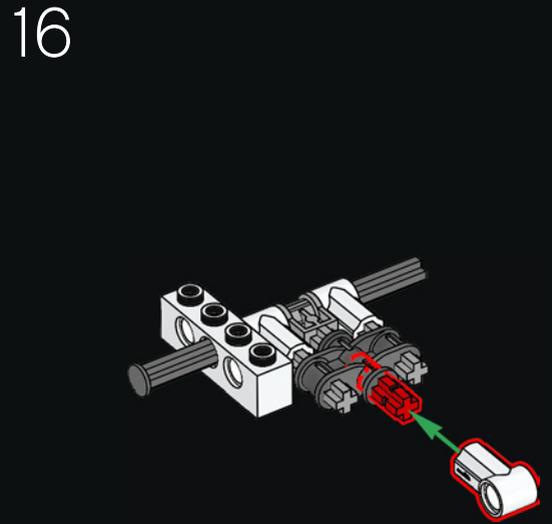
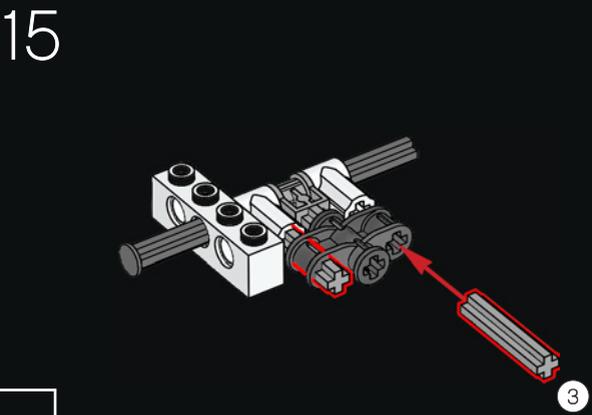
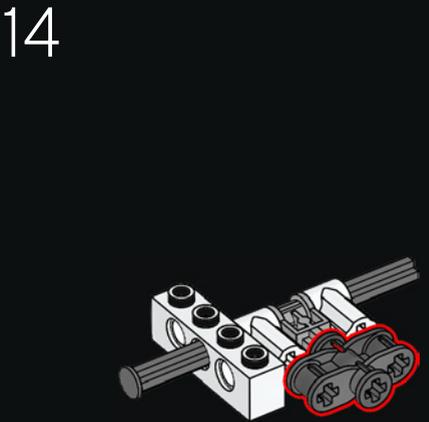
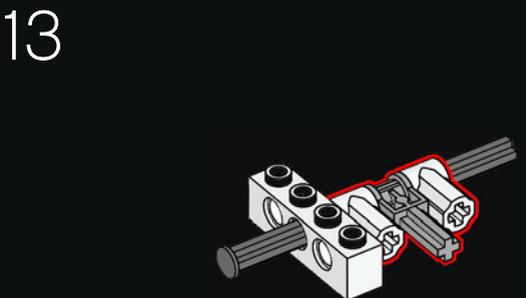
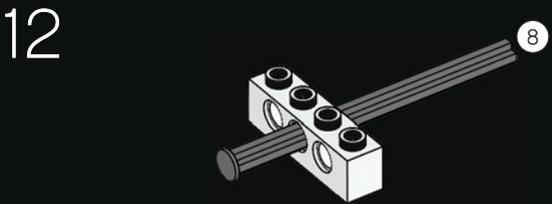
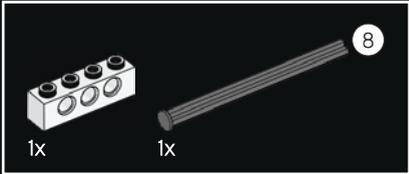
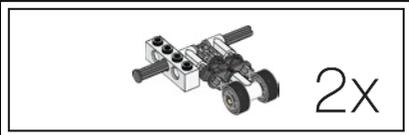


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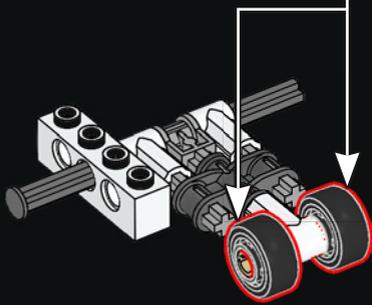
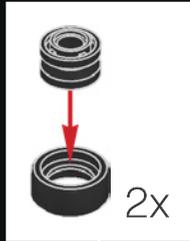
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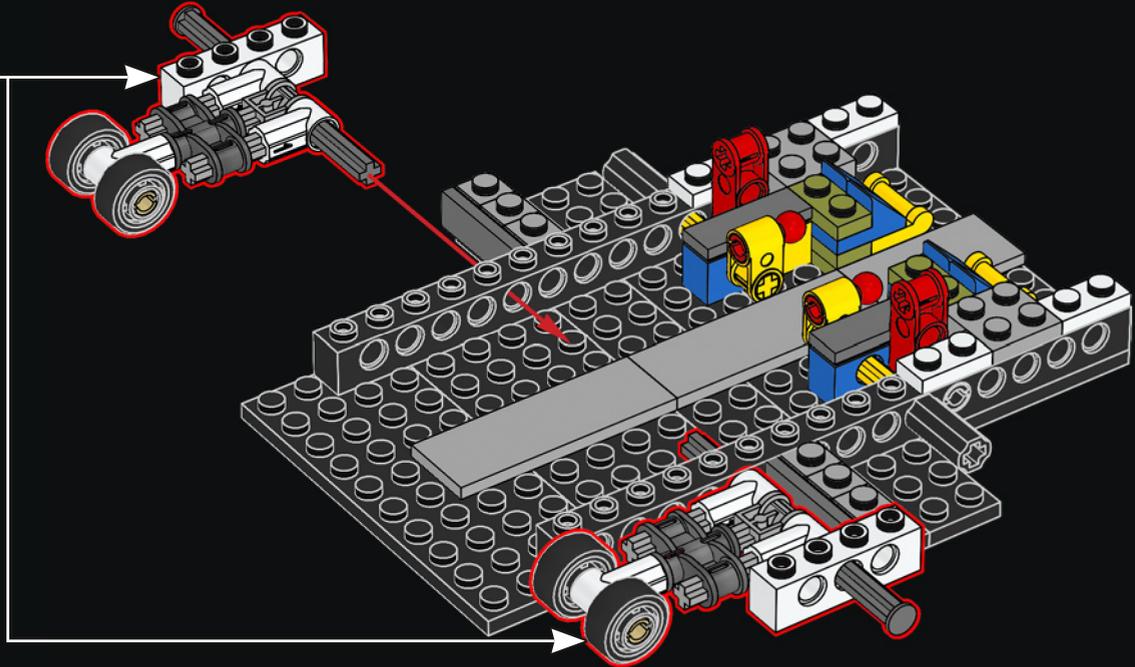


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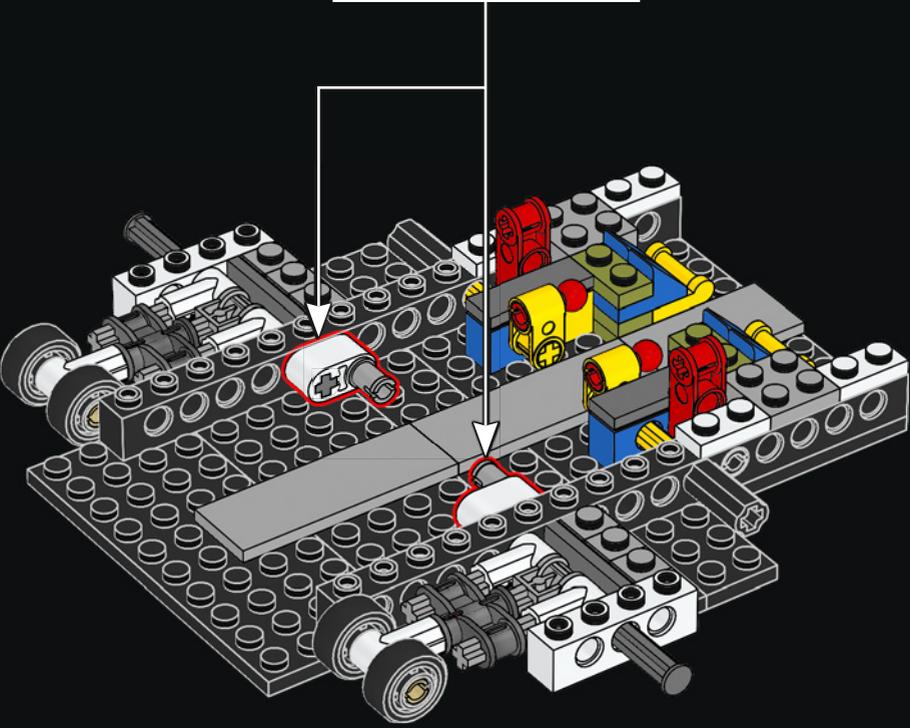
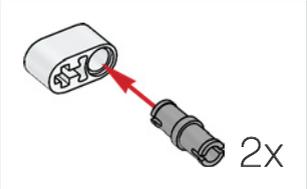
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19



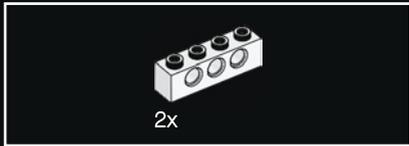
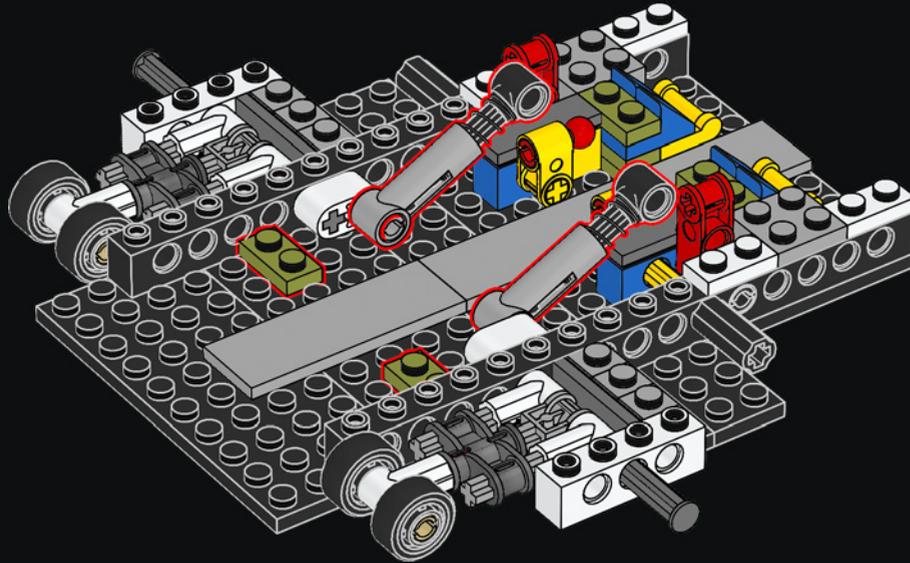


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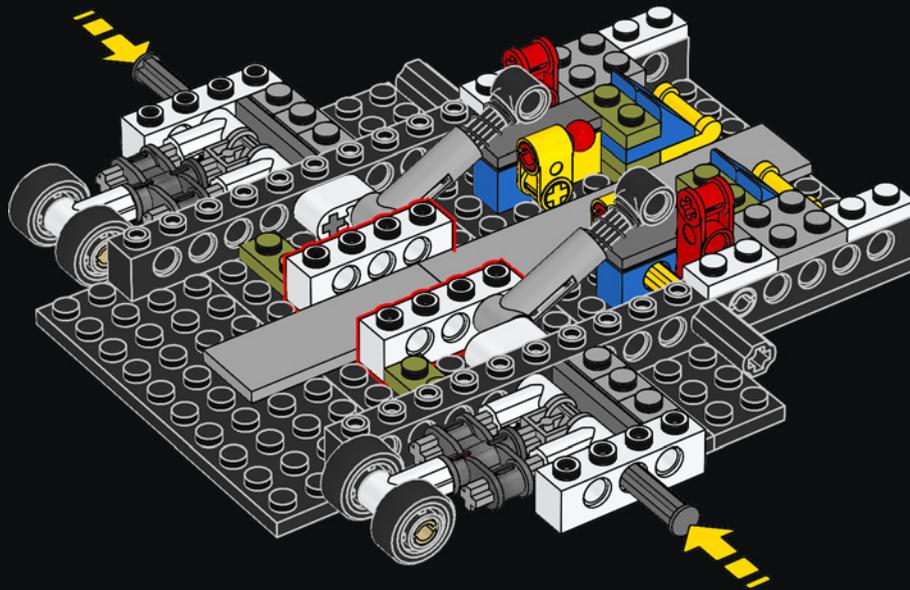


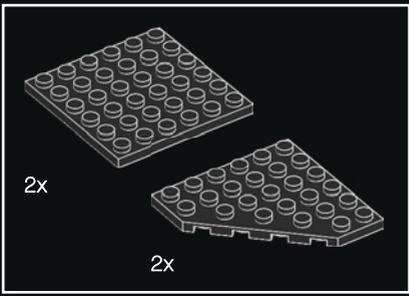


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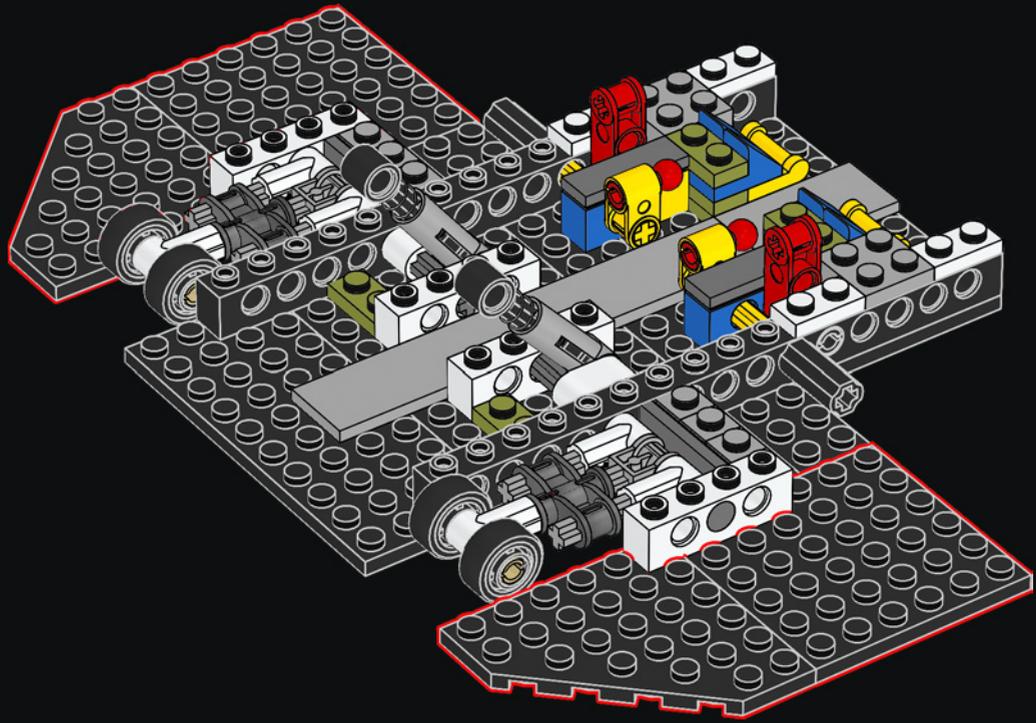


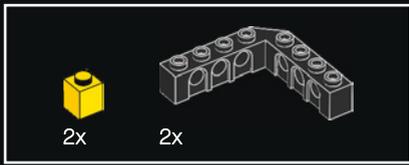
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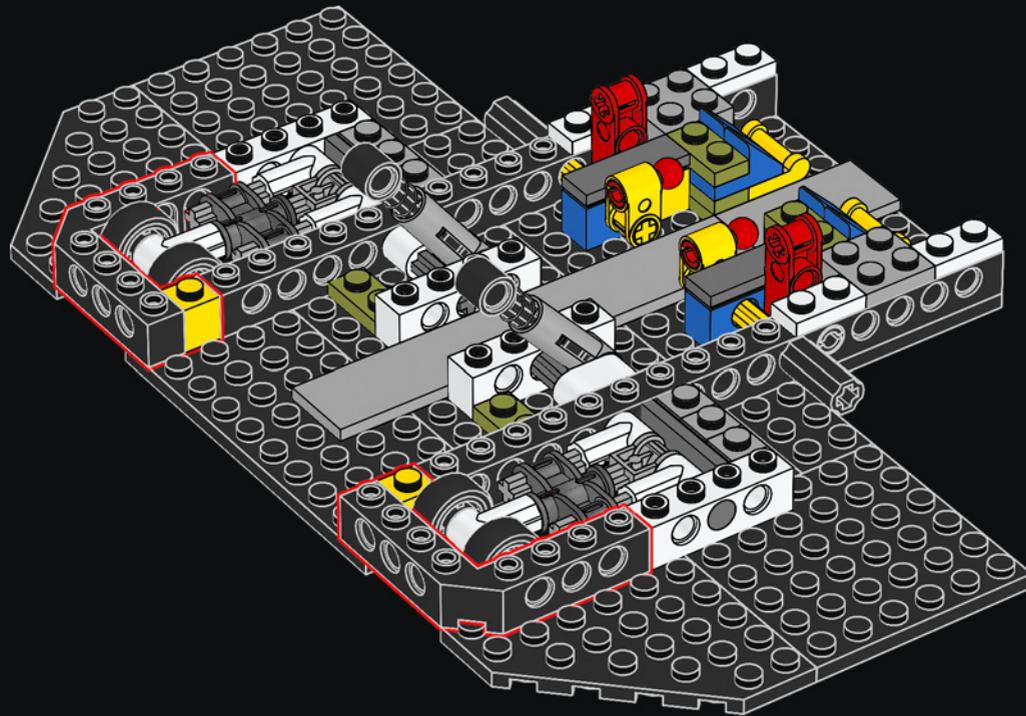


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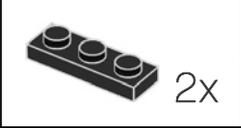
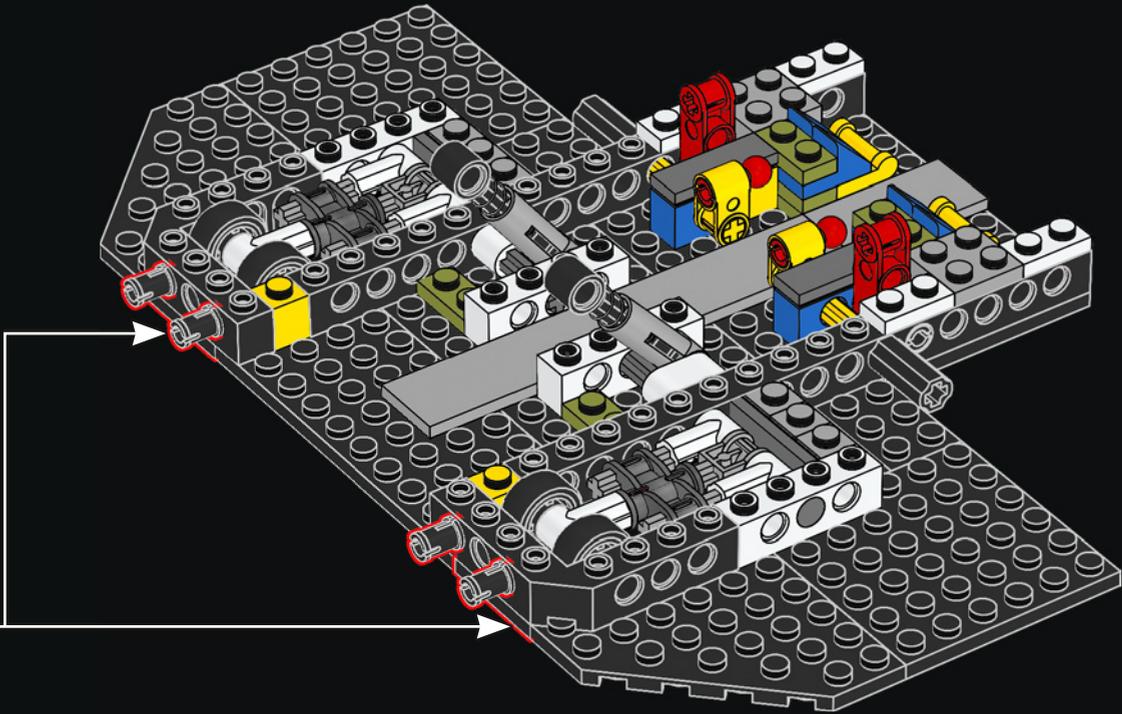


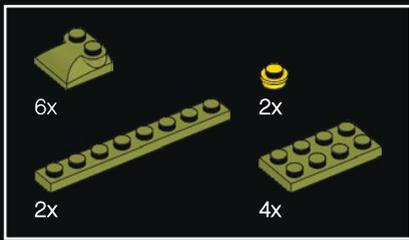
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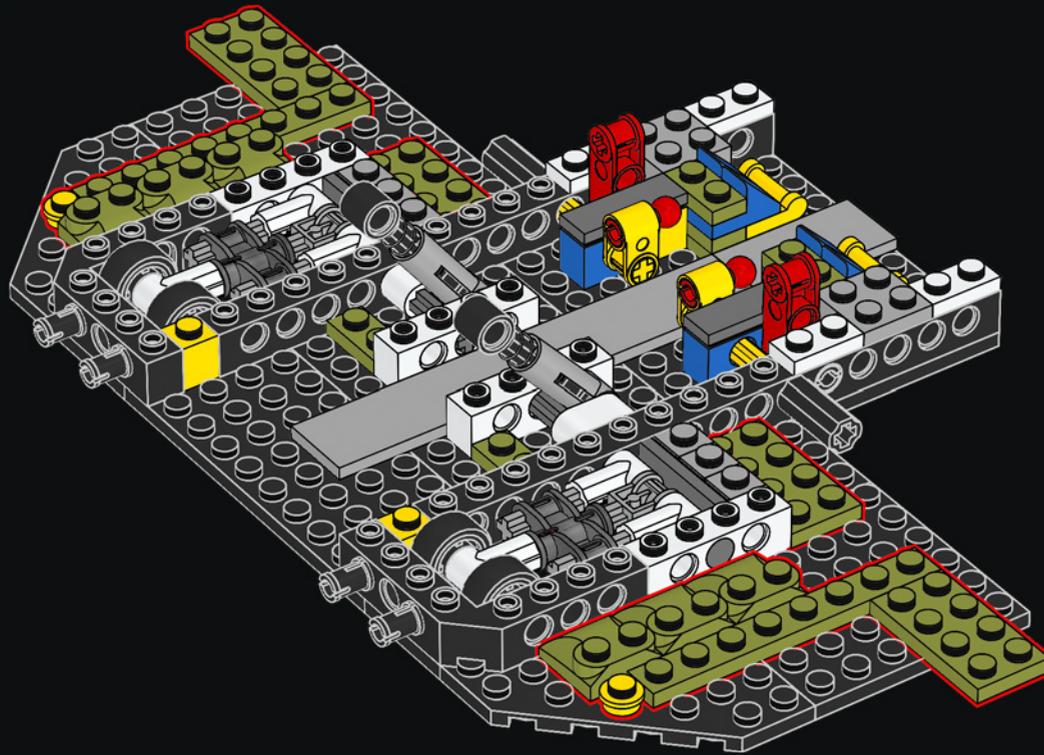


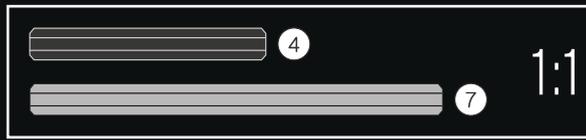
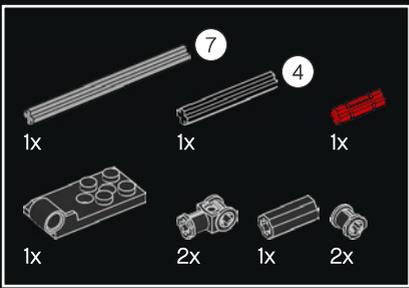
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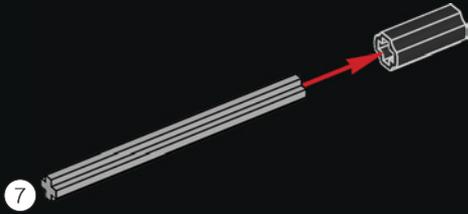
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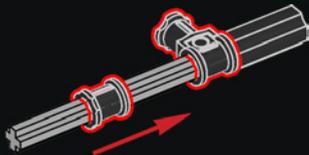


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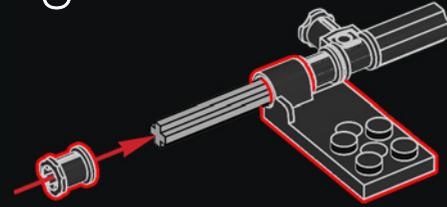
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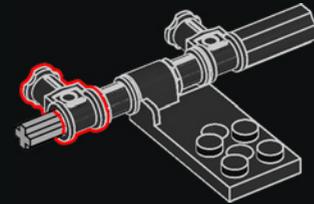
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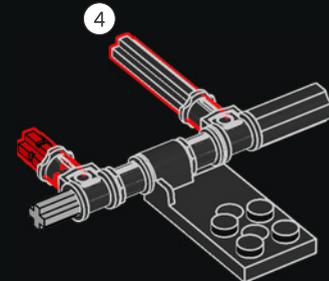
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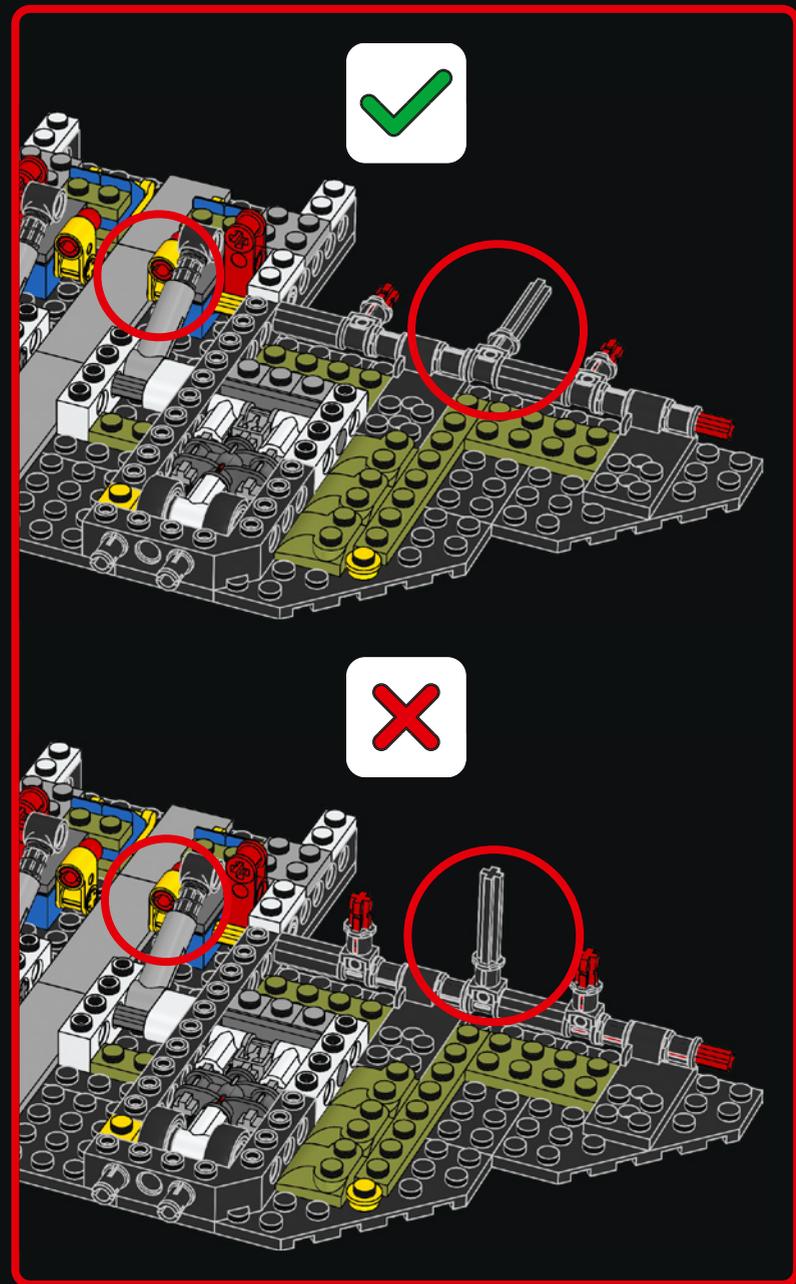
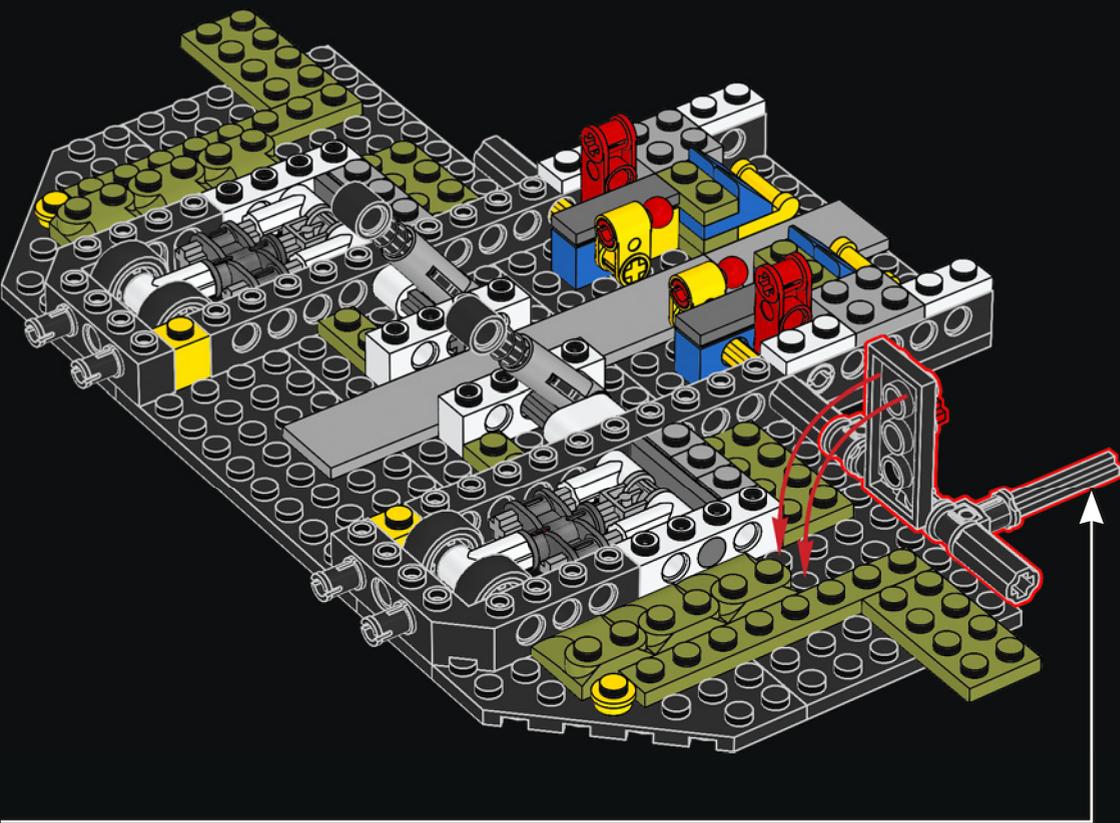


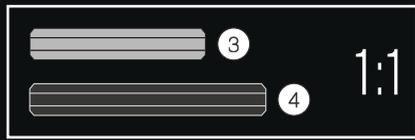
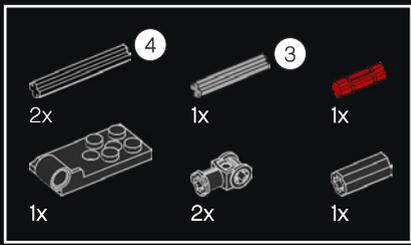
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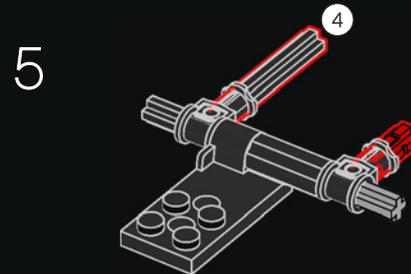
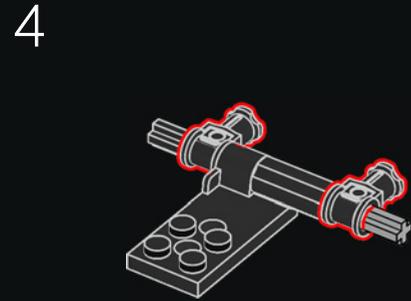
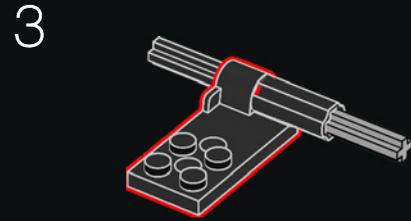
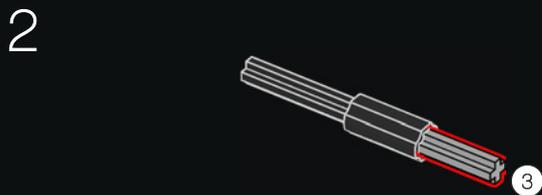
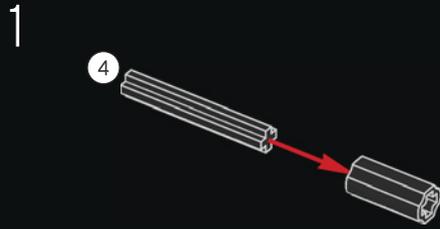
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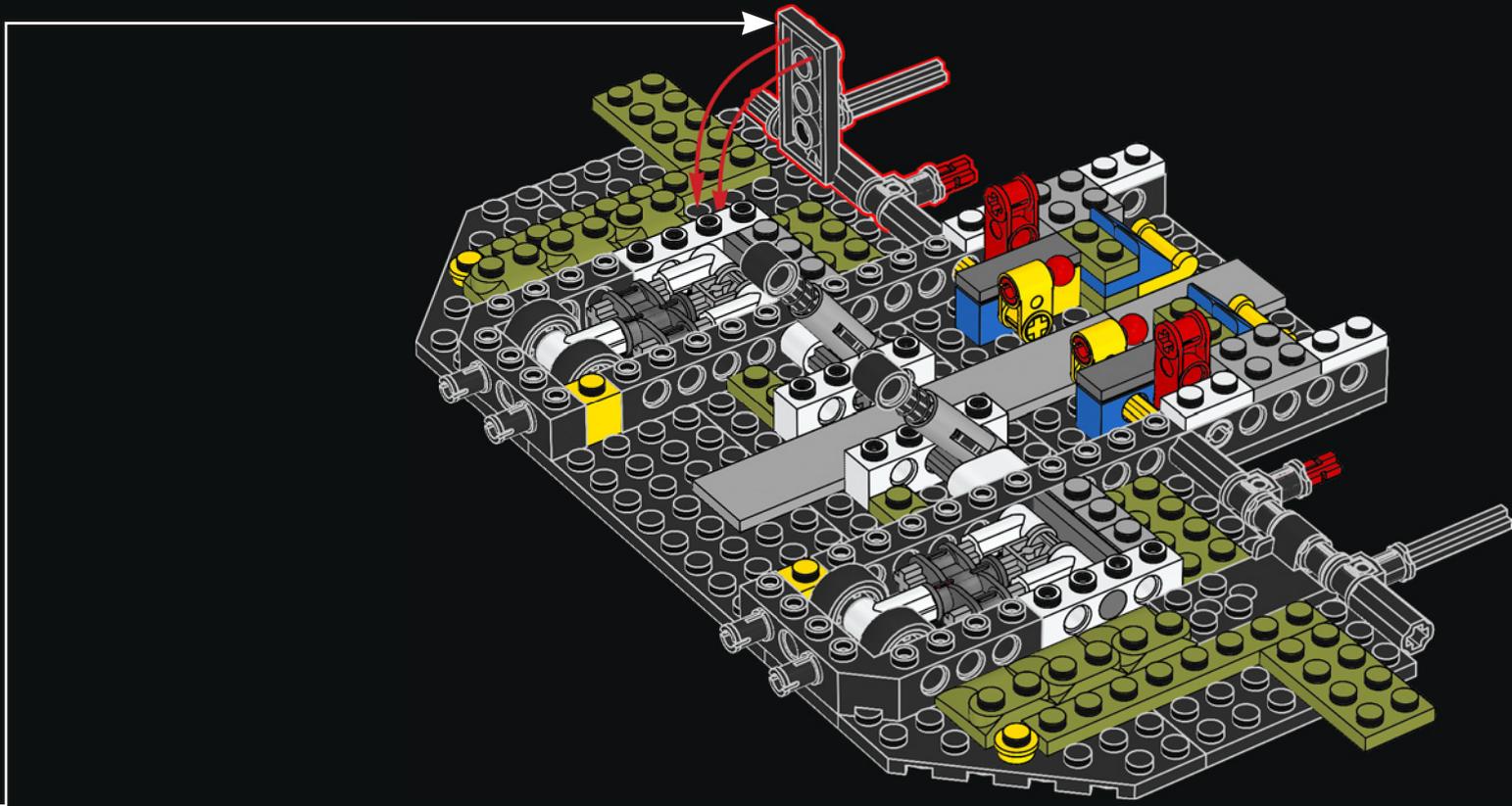


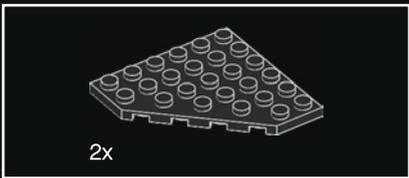




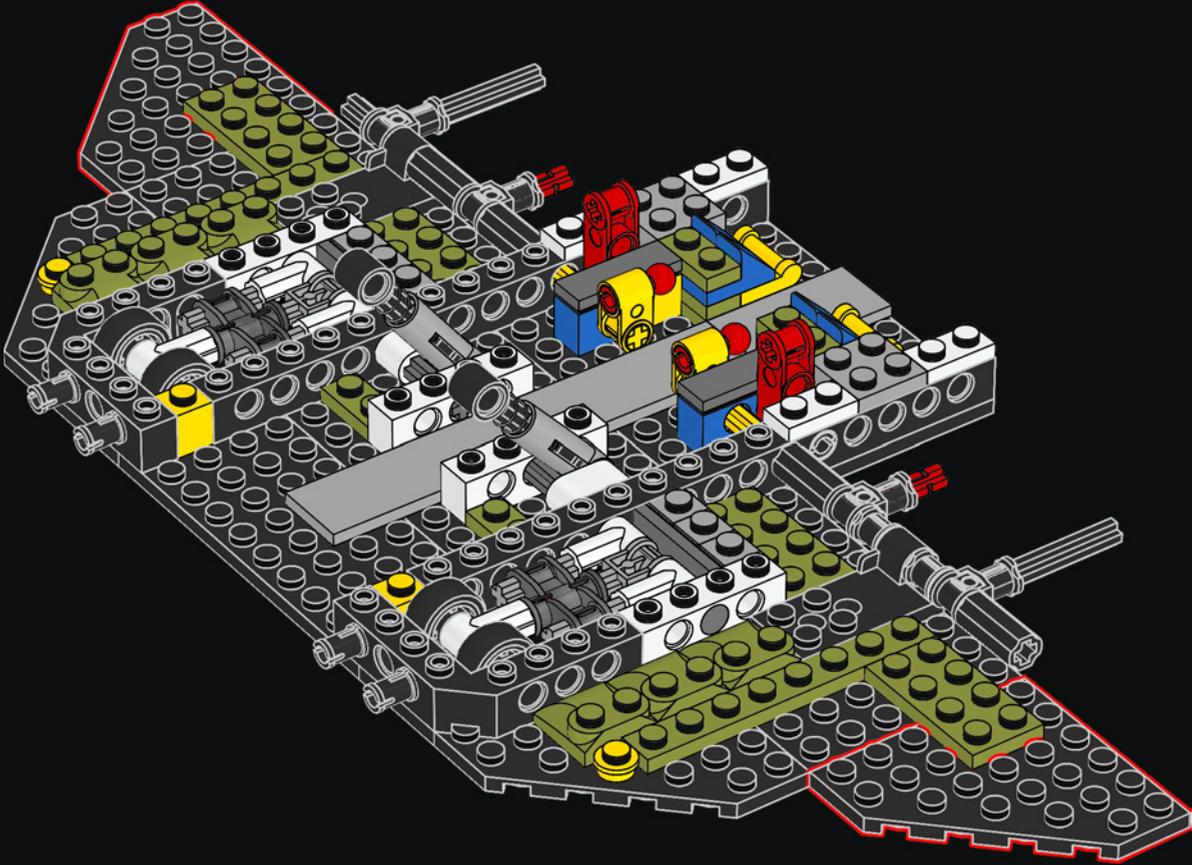
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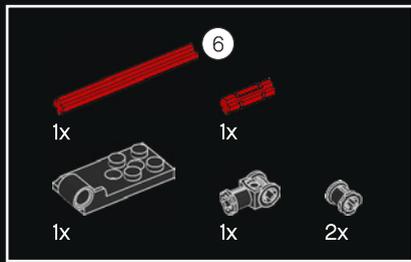




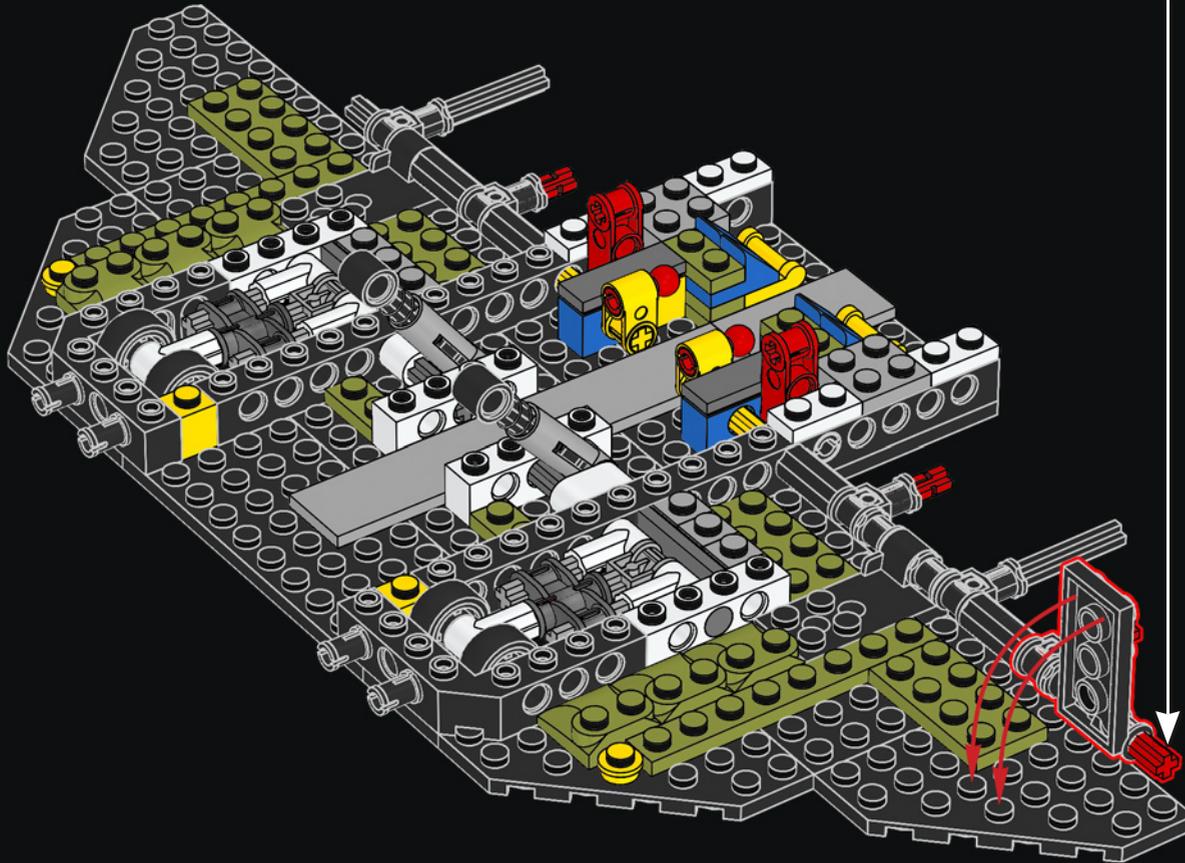
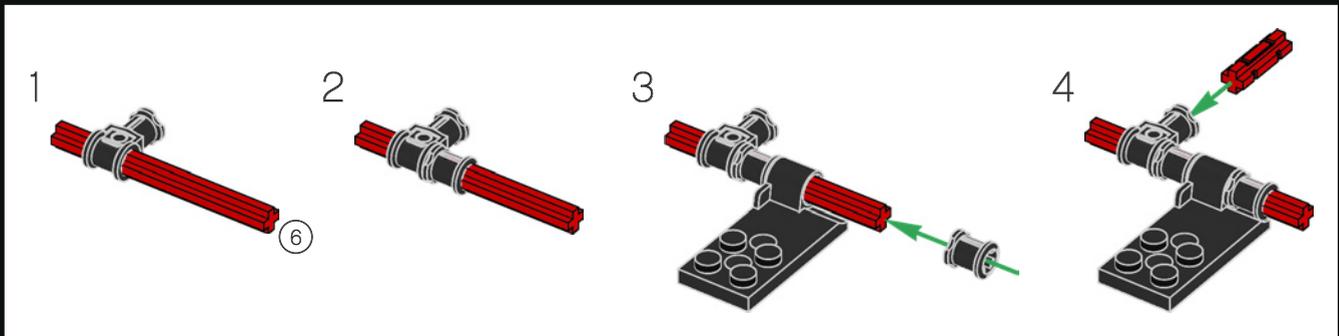


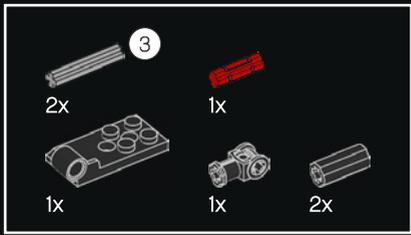
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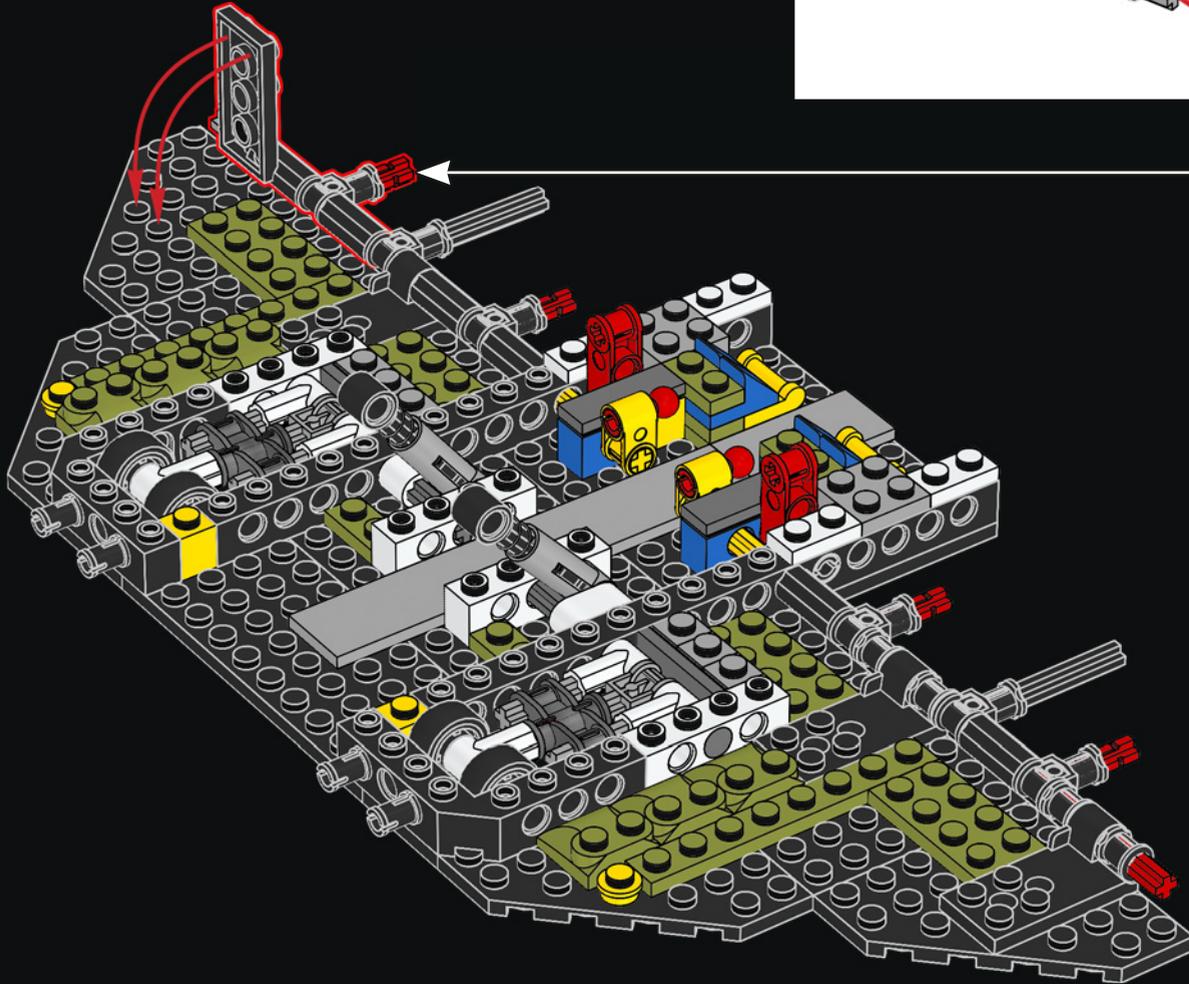
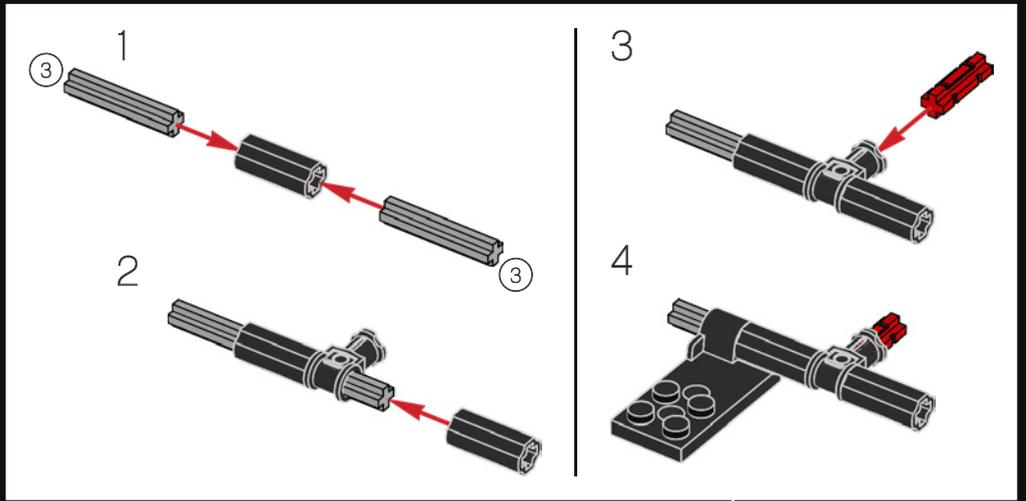


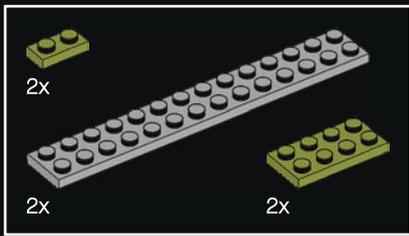
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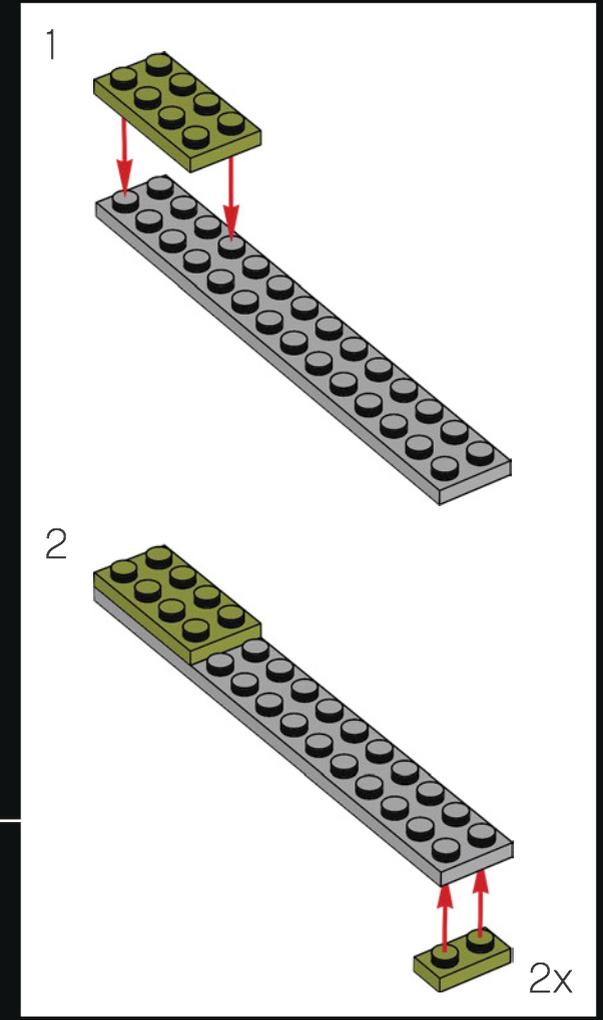
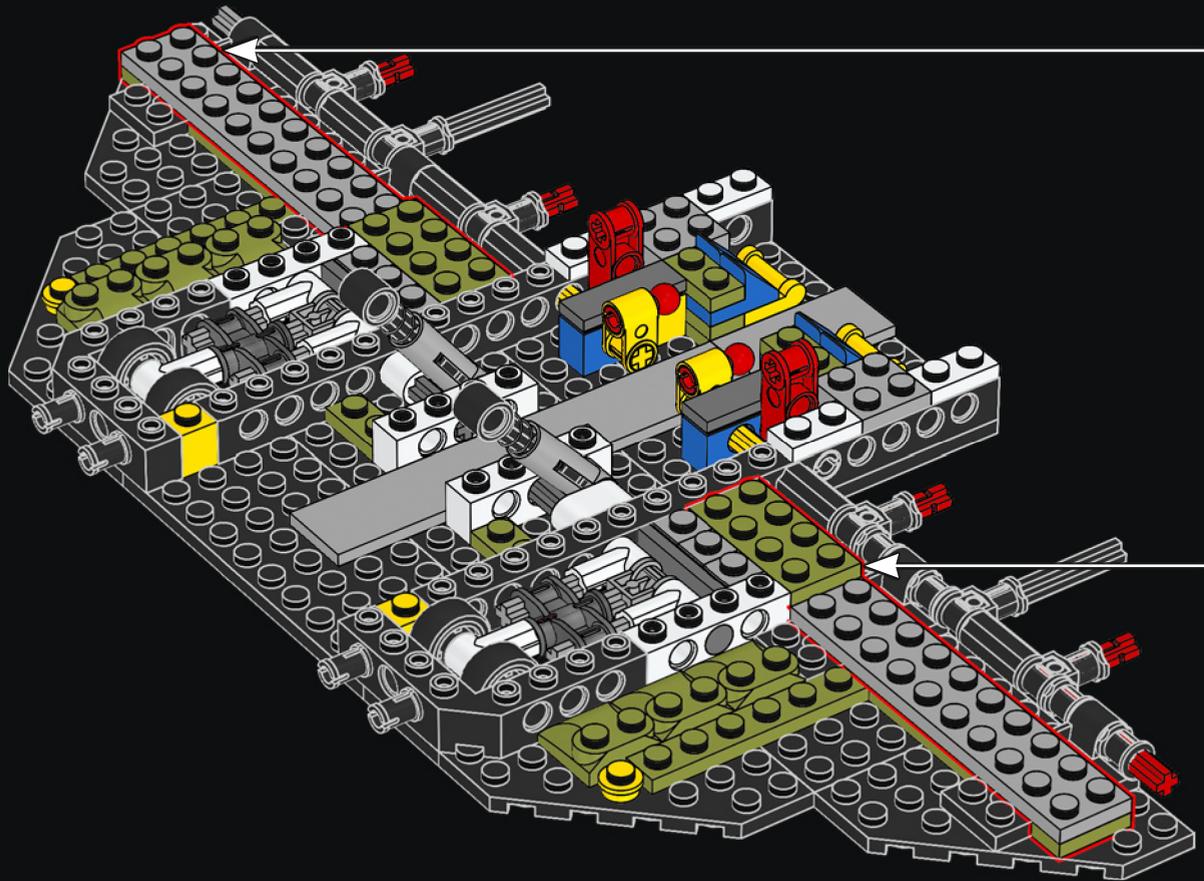


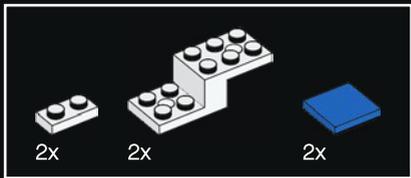
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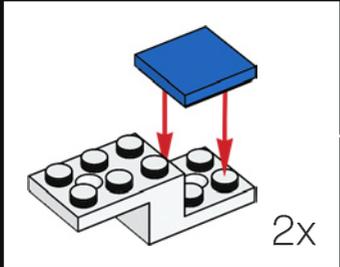
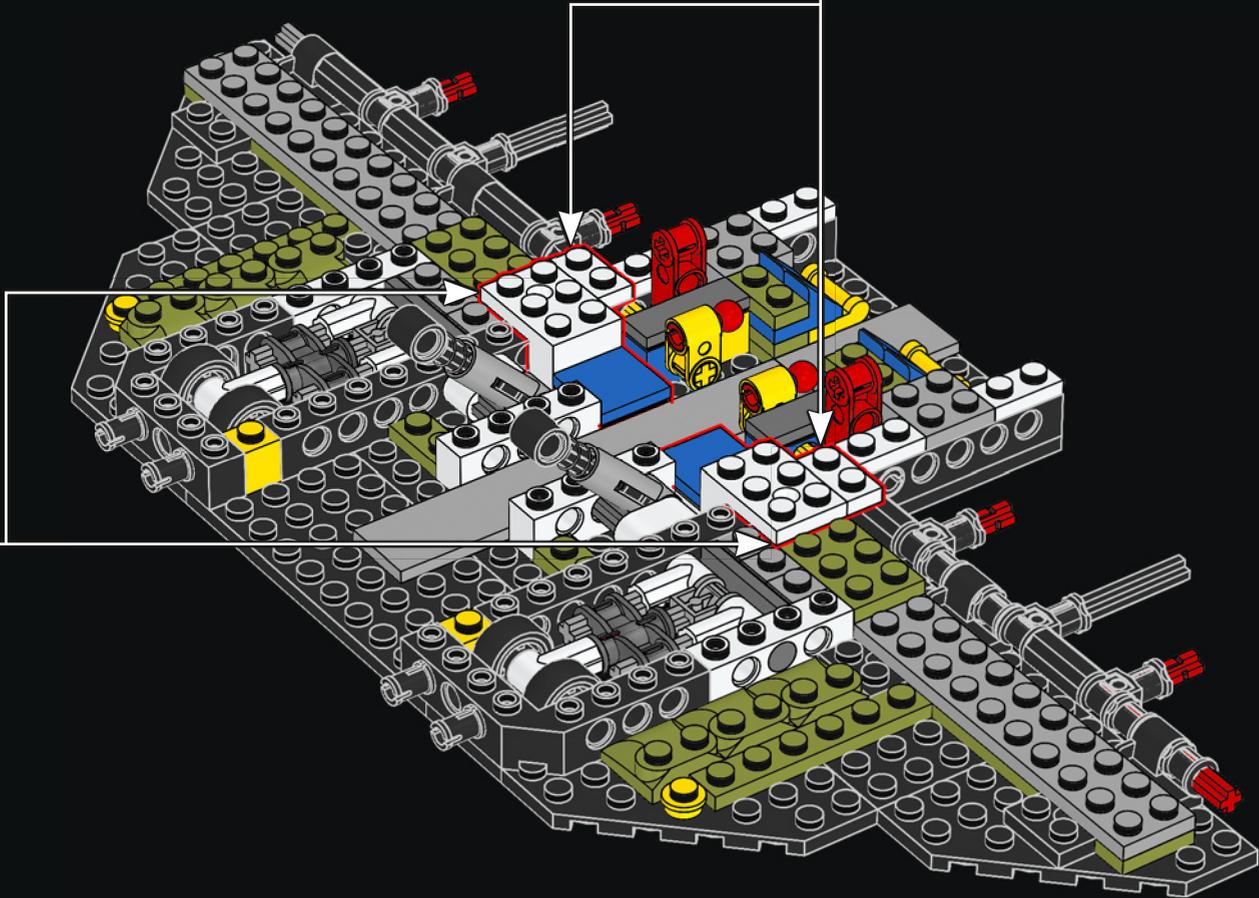


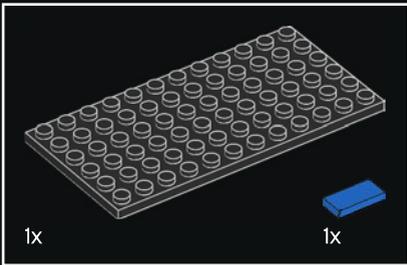
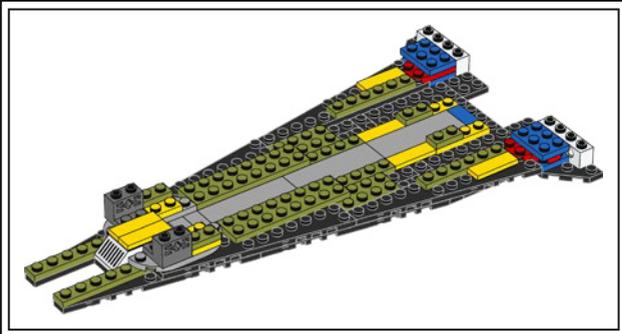
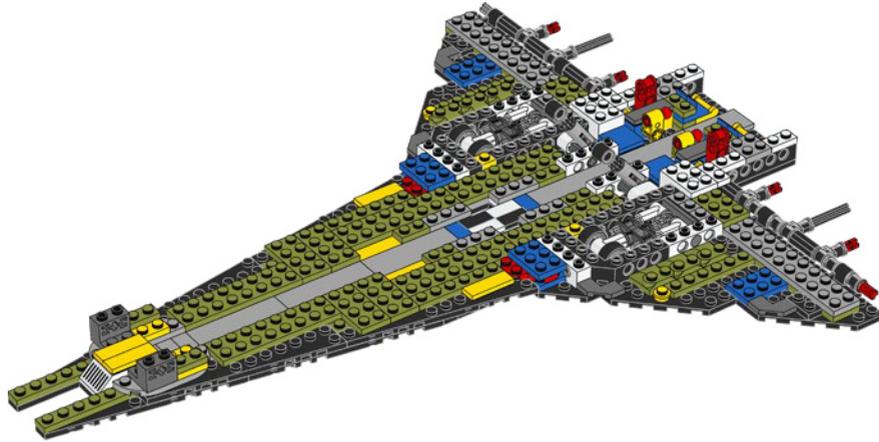
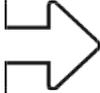
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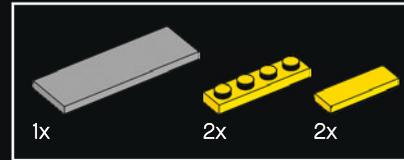
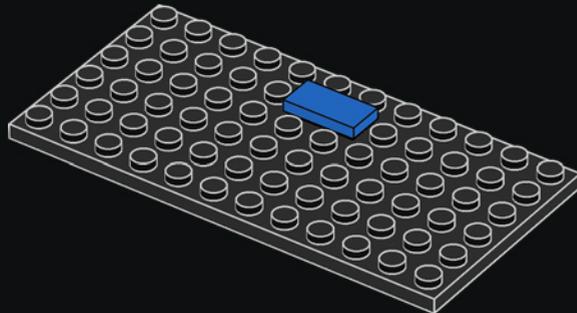


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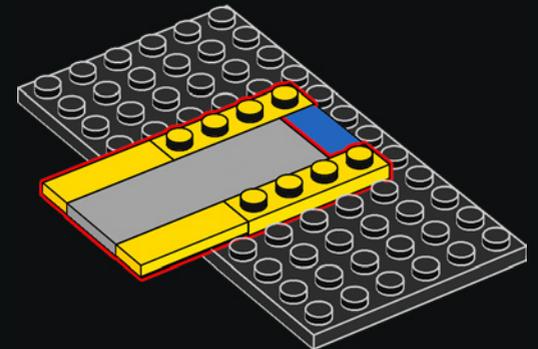


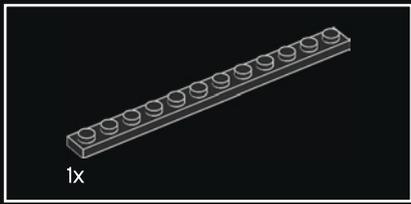


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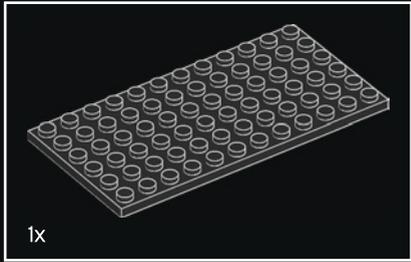
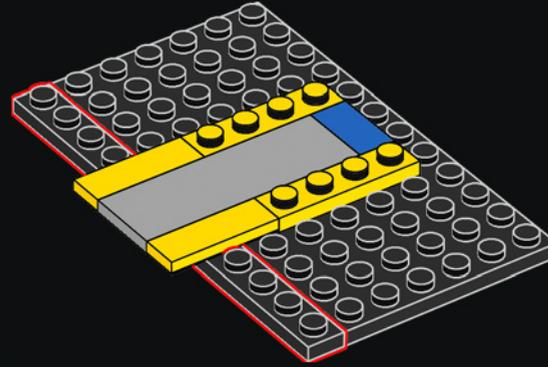


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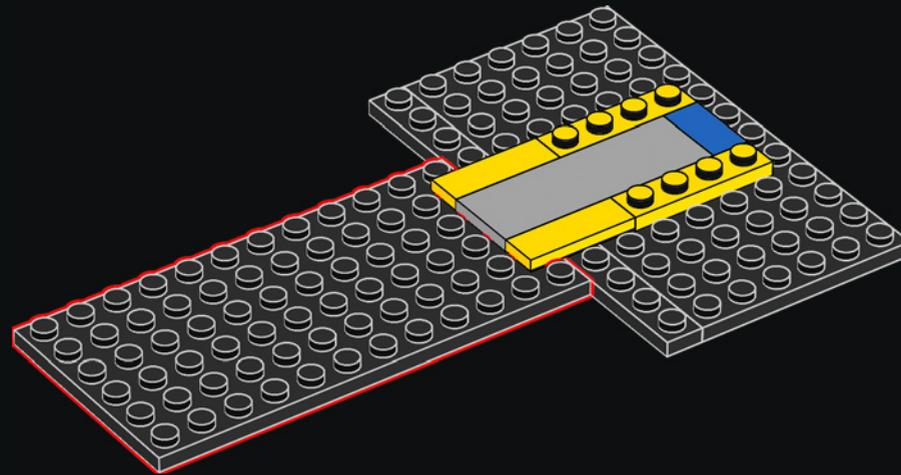


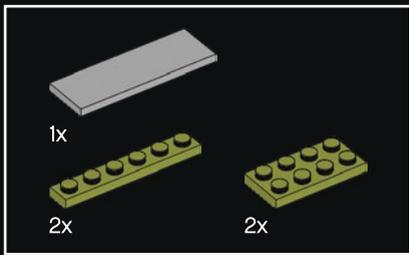


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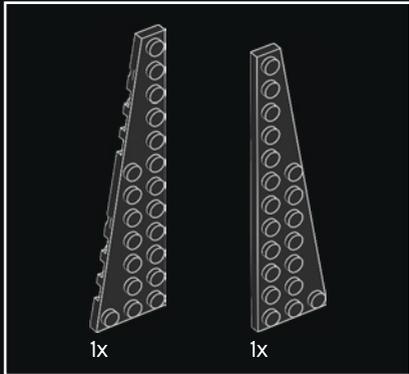
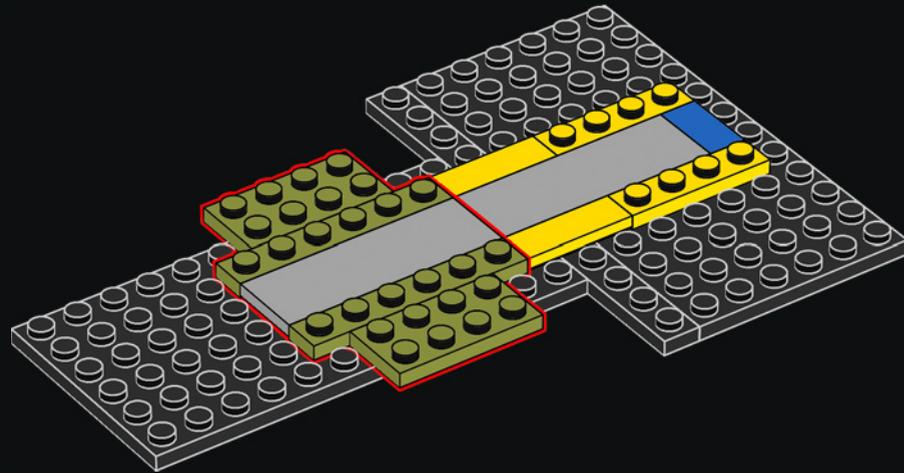


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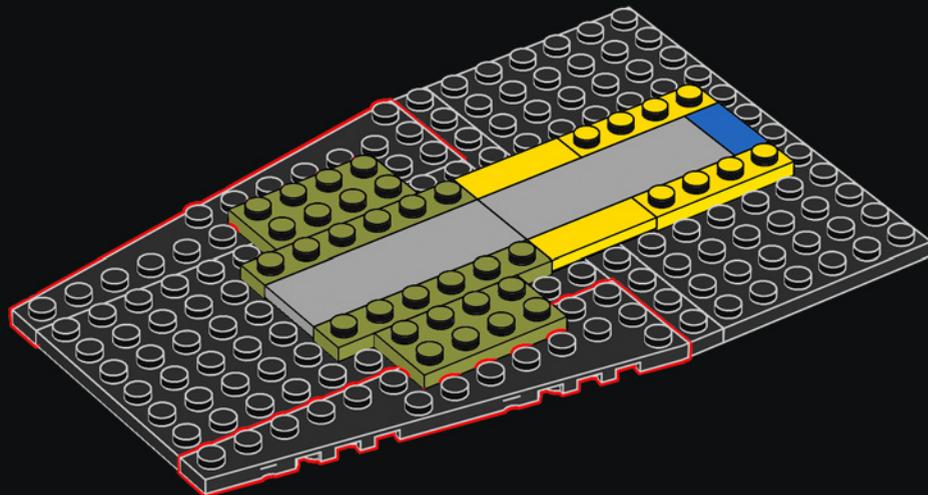


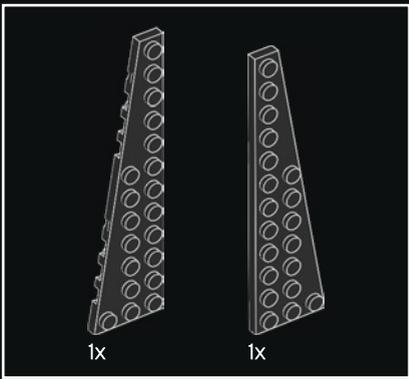


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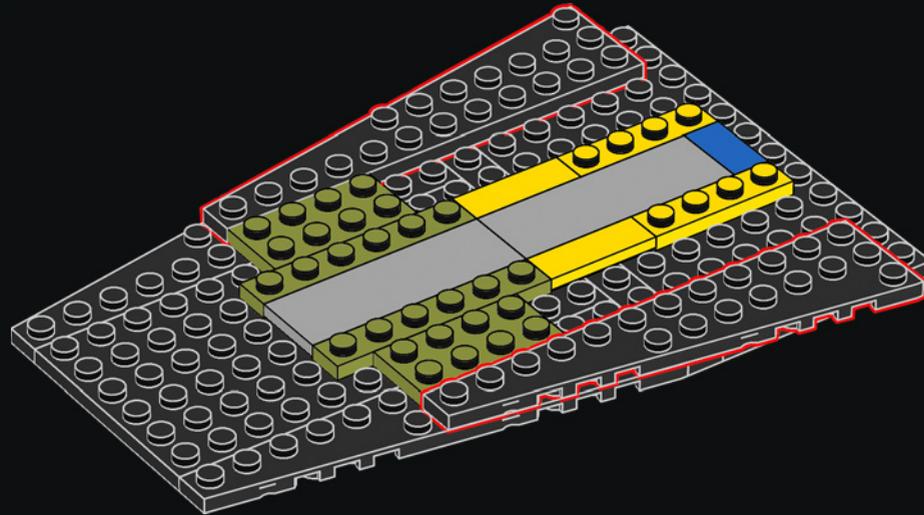


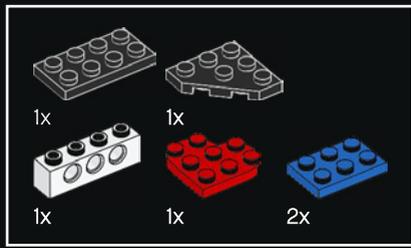


LO SAPEVI?

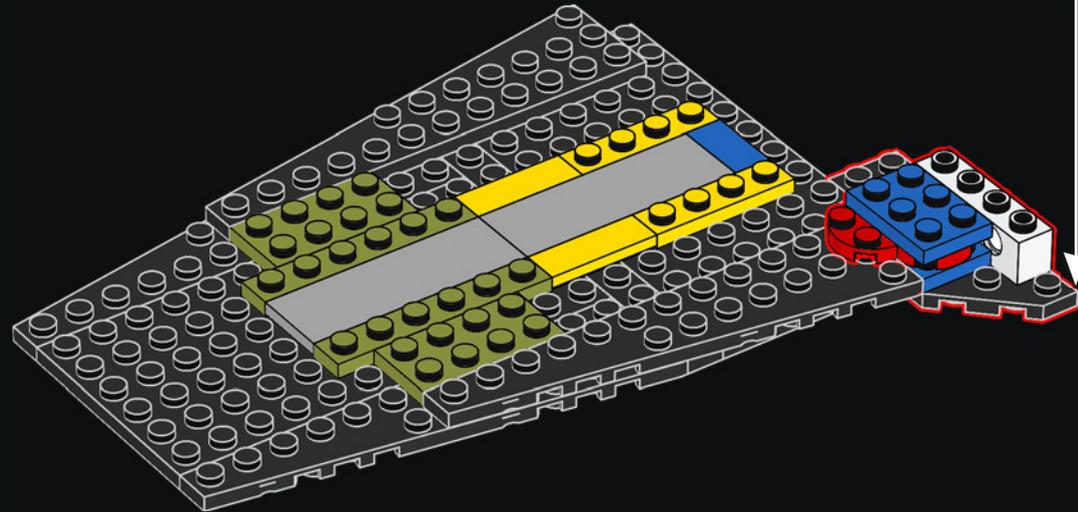
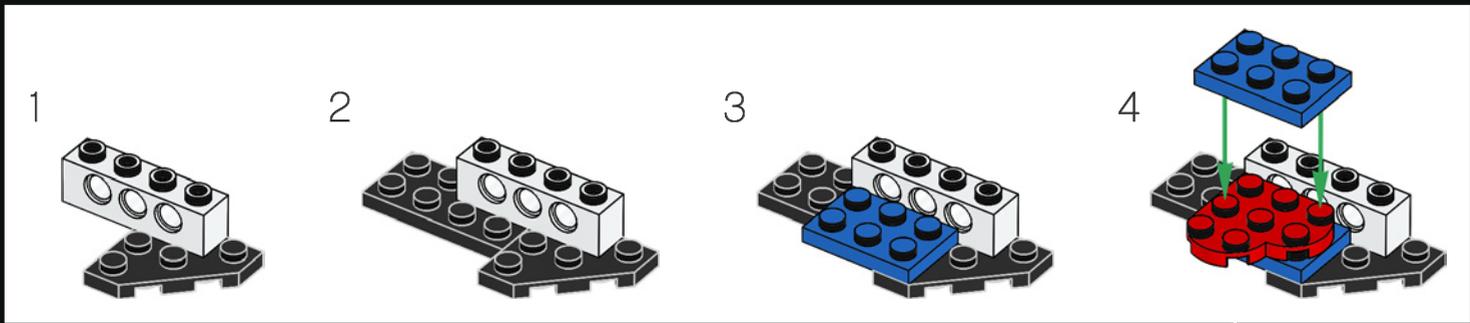
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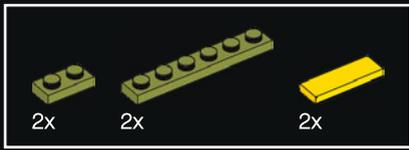
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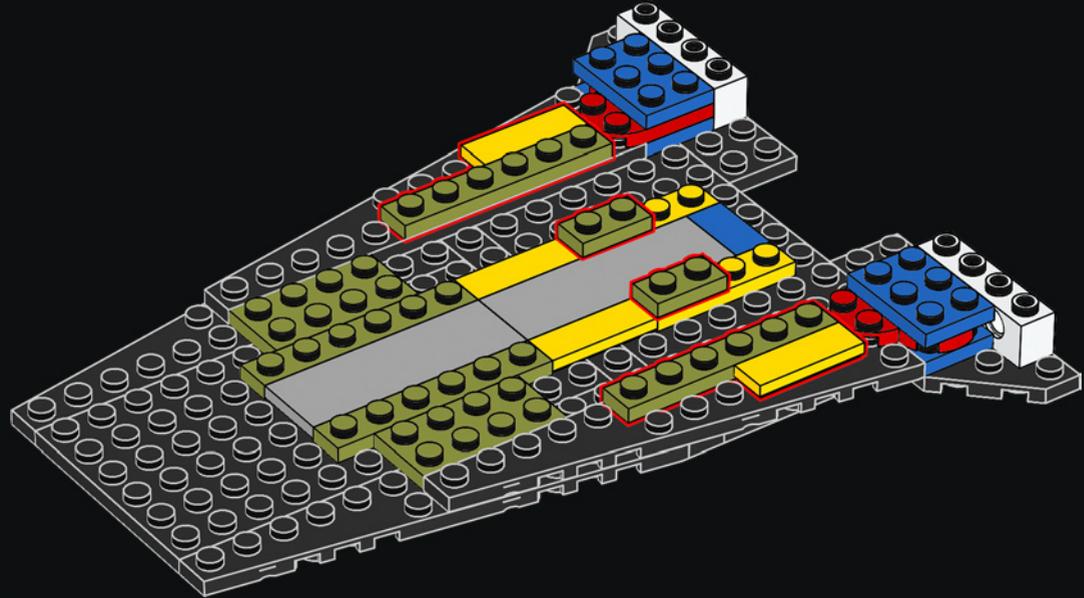


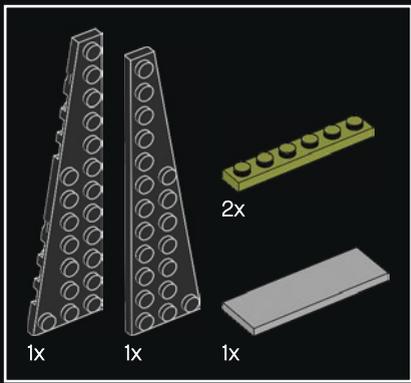
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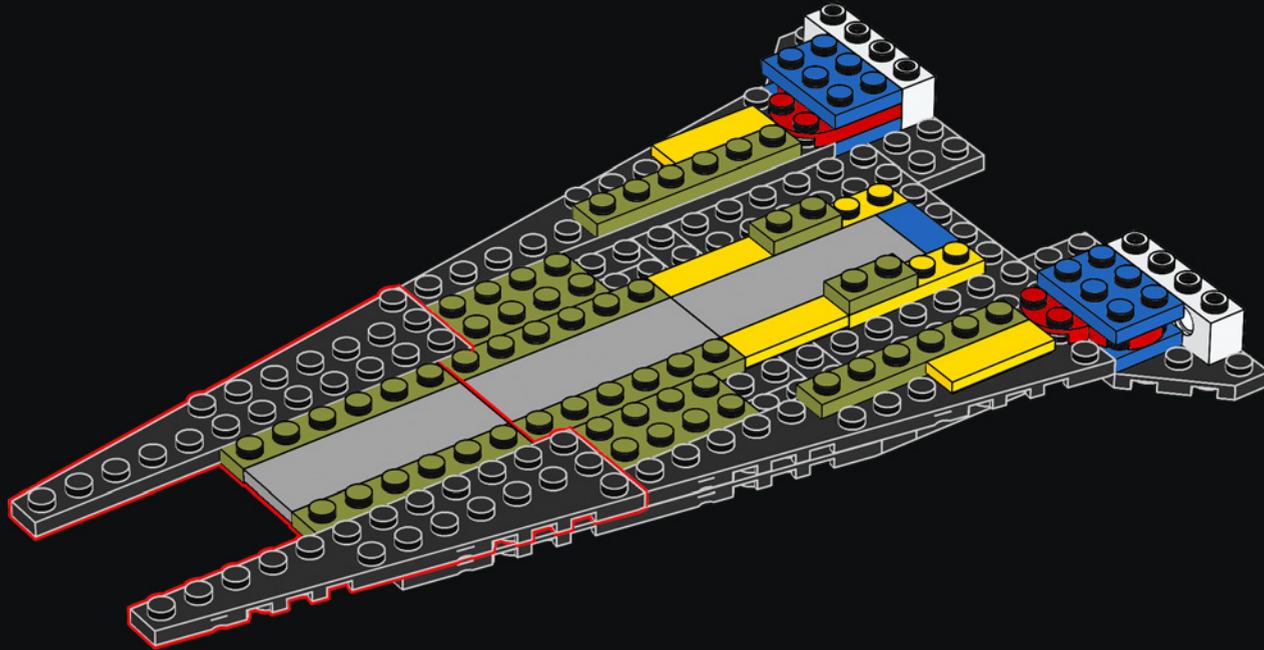


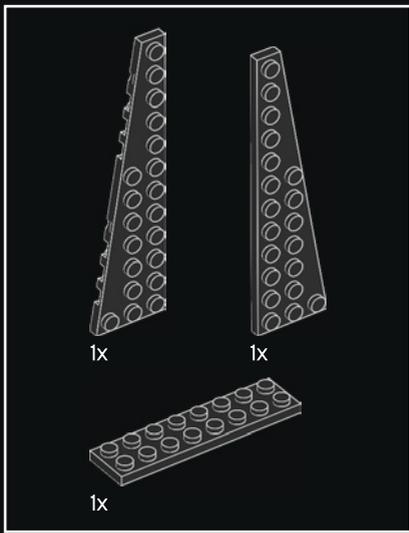
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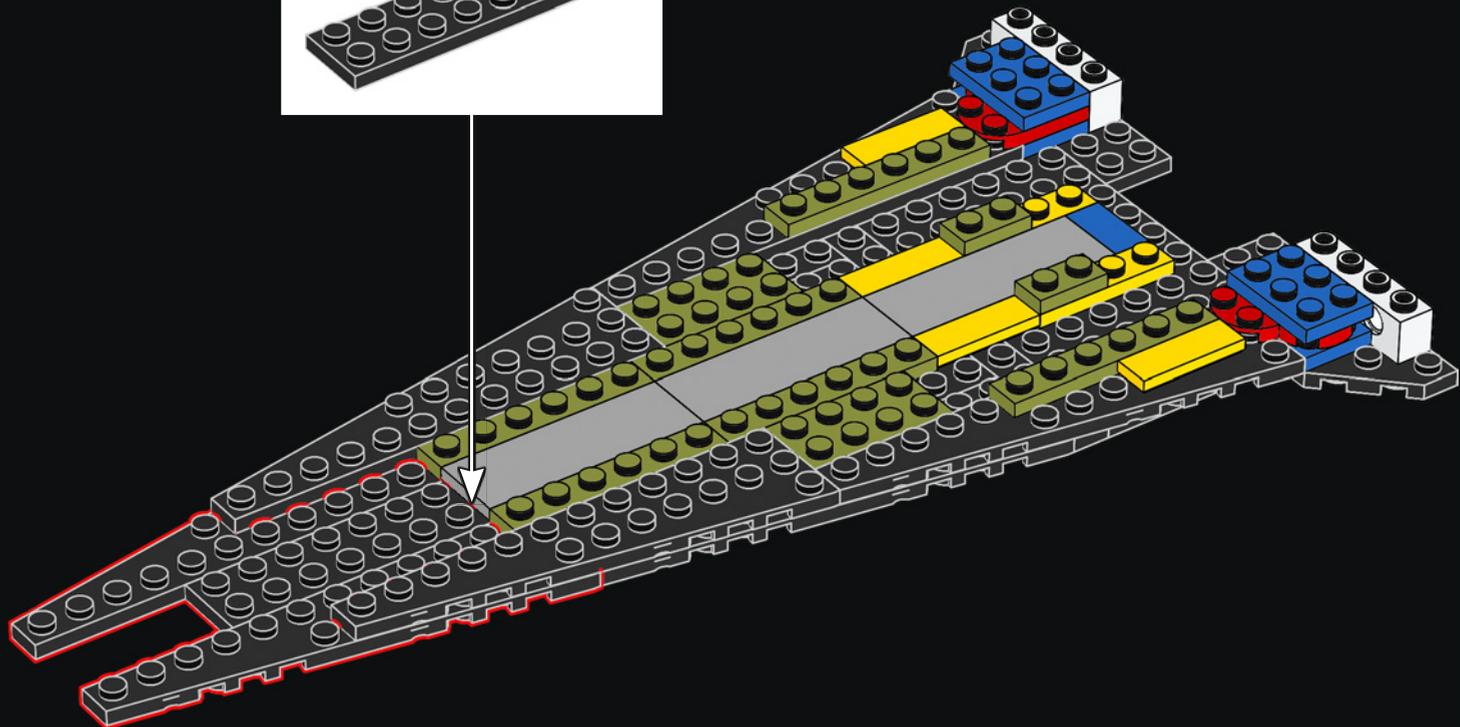
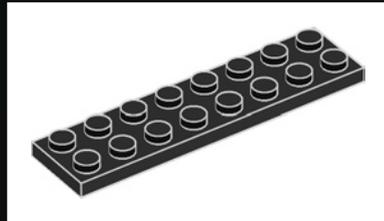


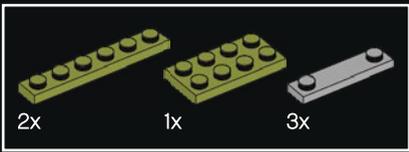
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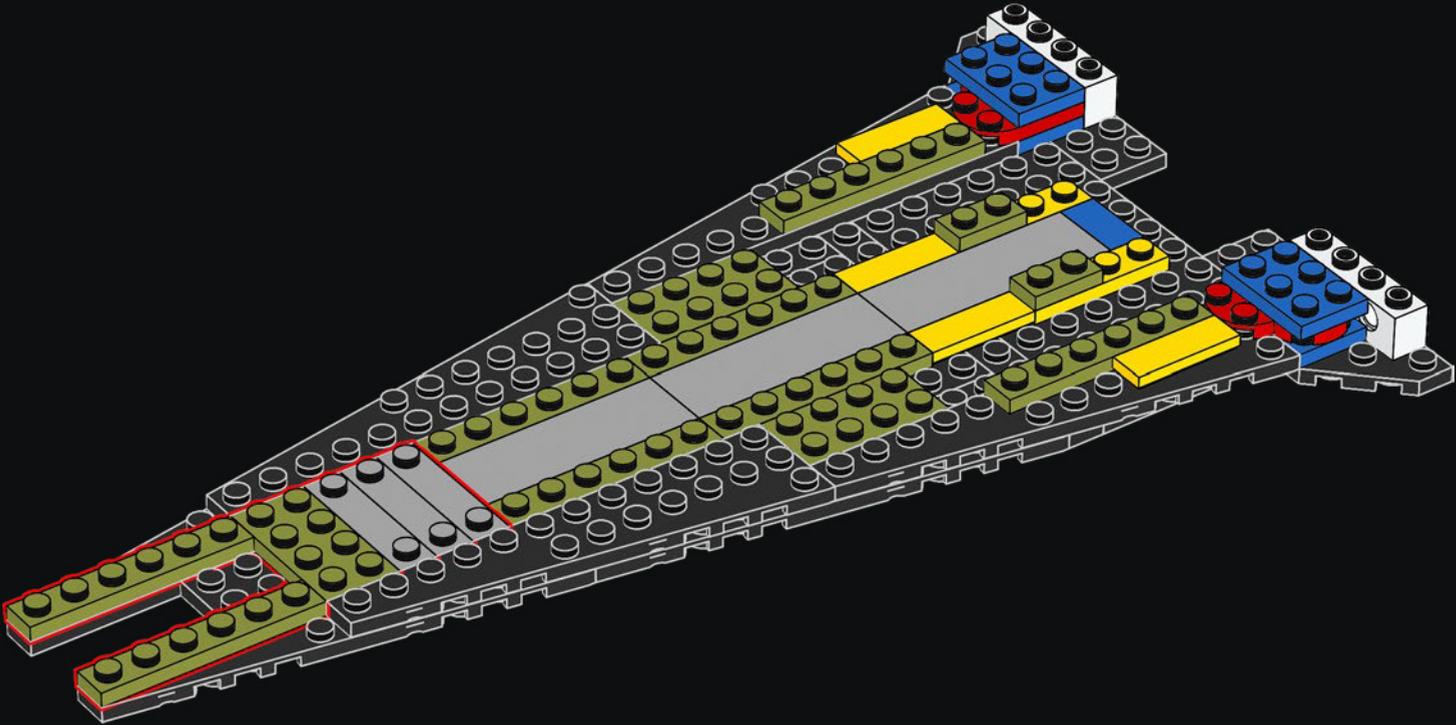


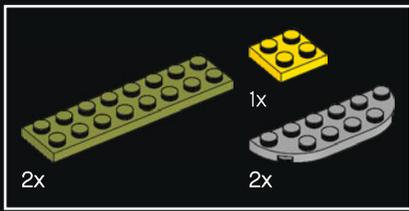
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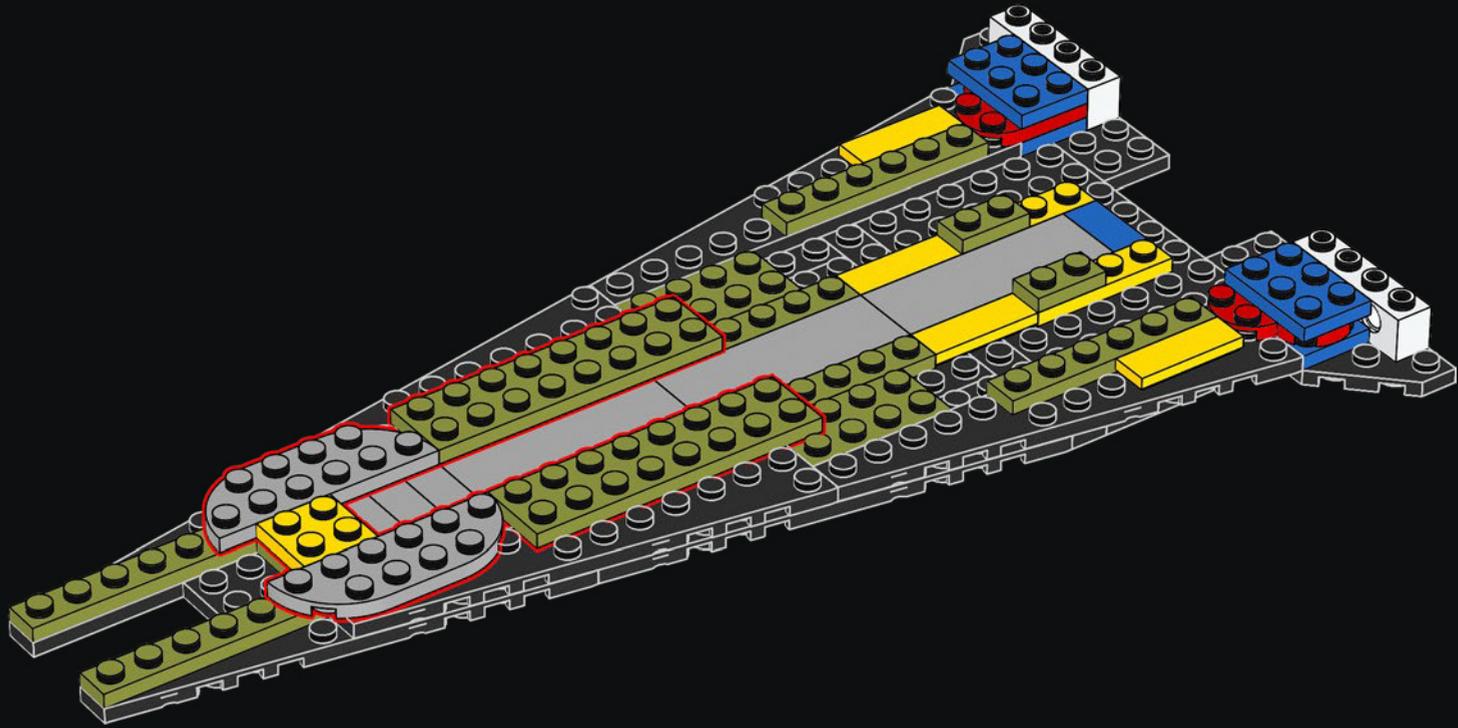


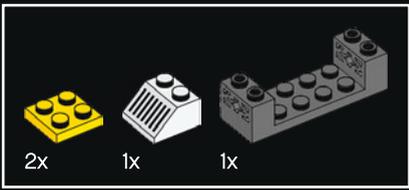
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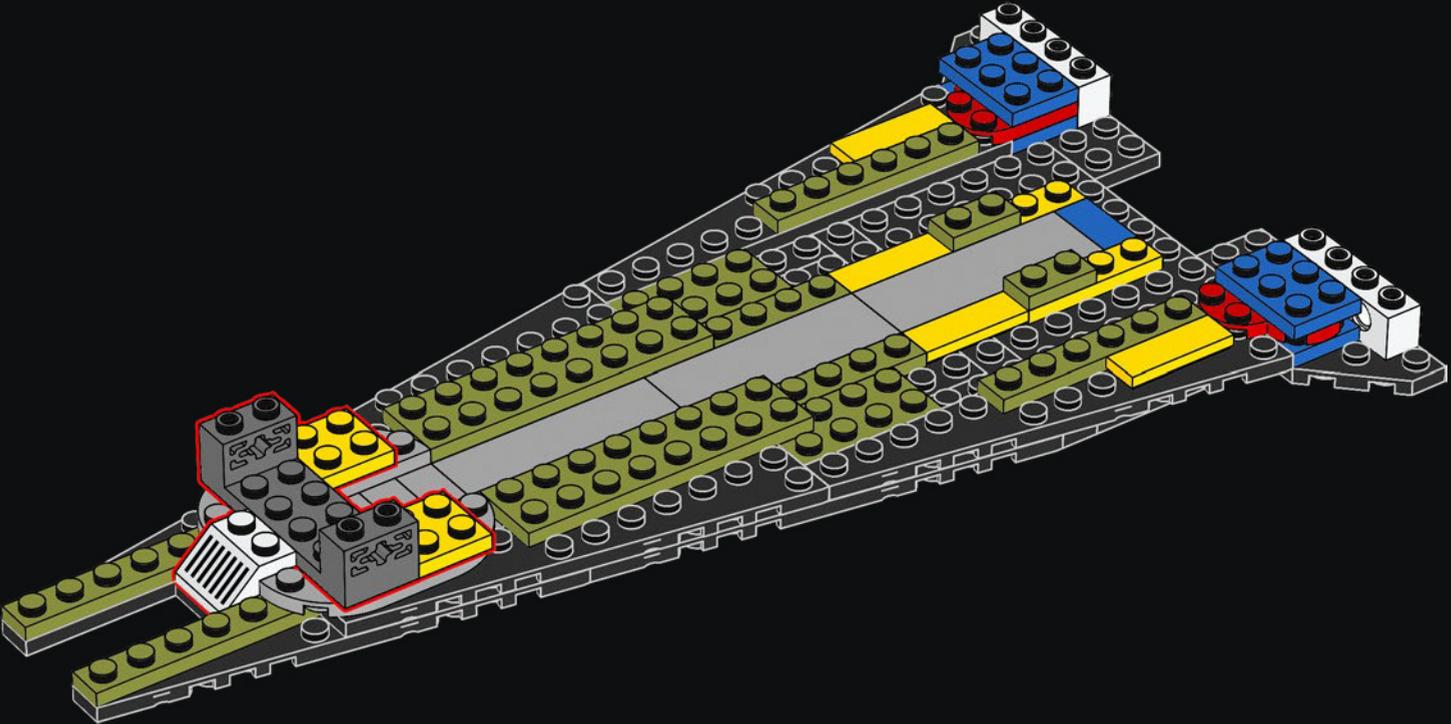


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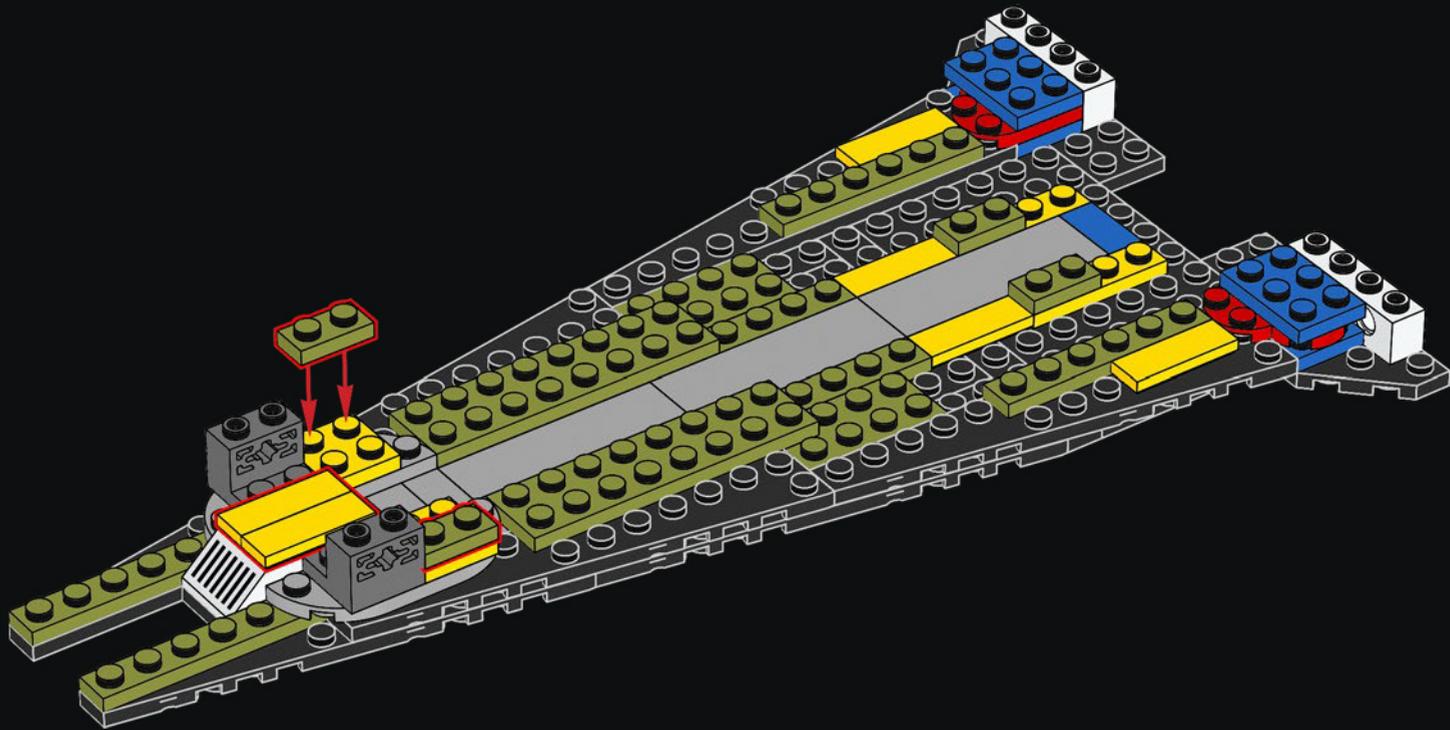


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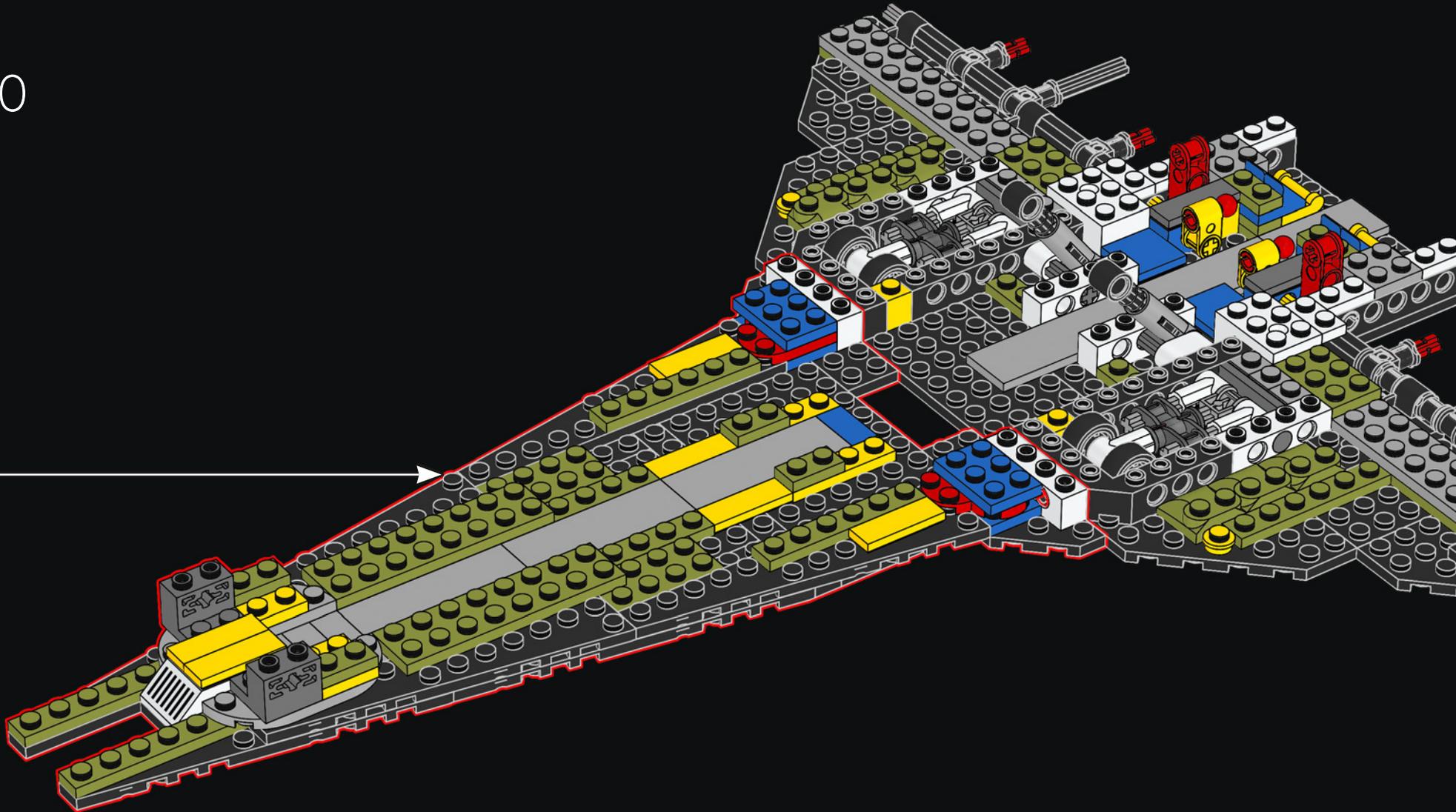


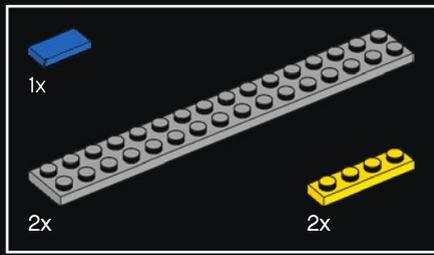


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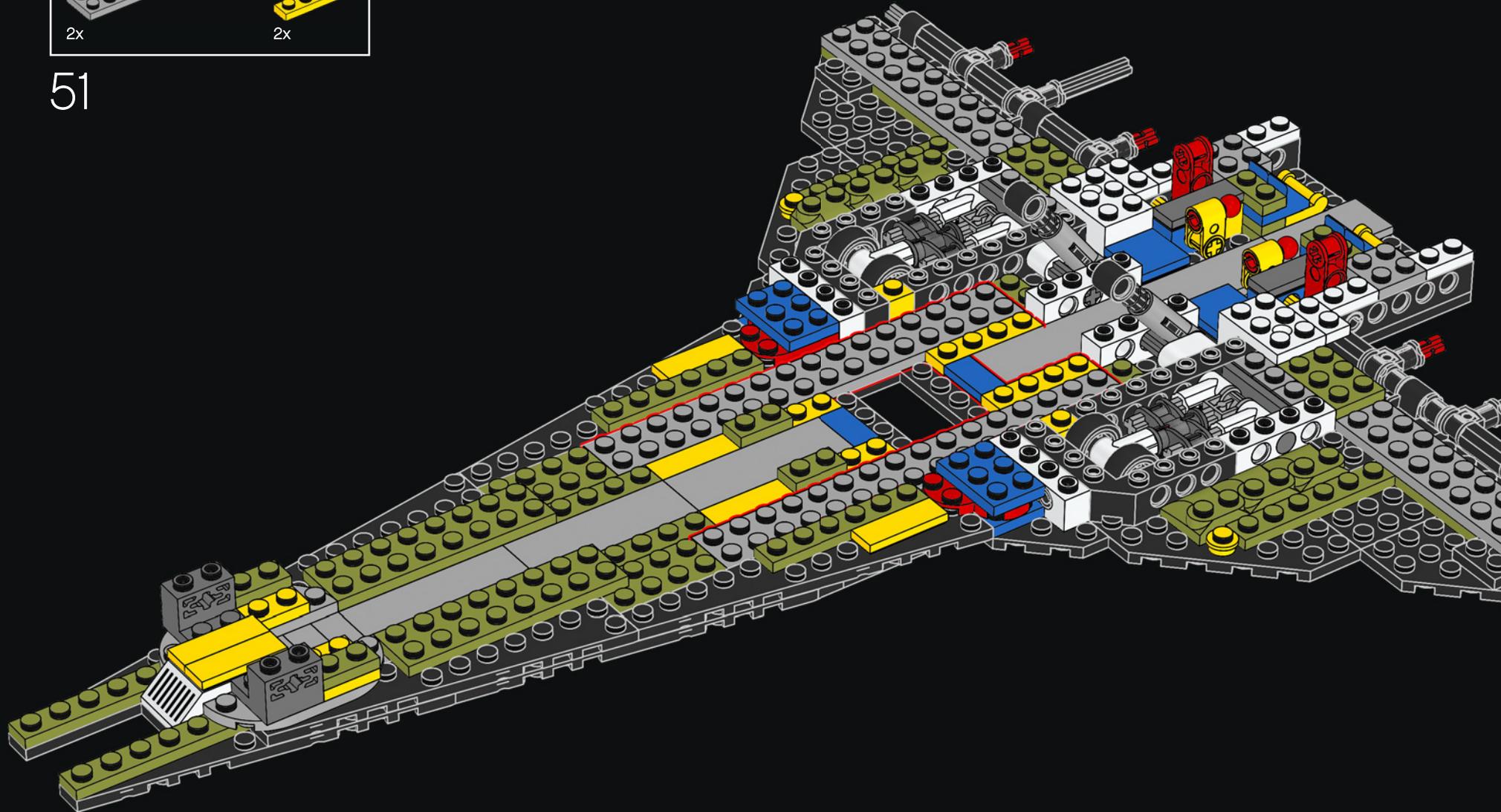


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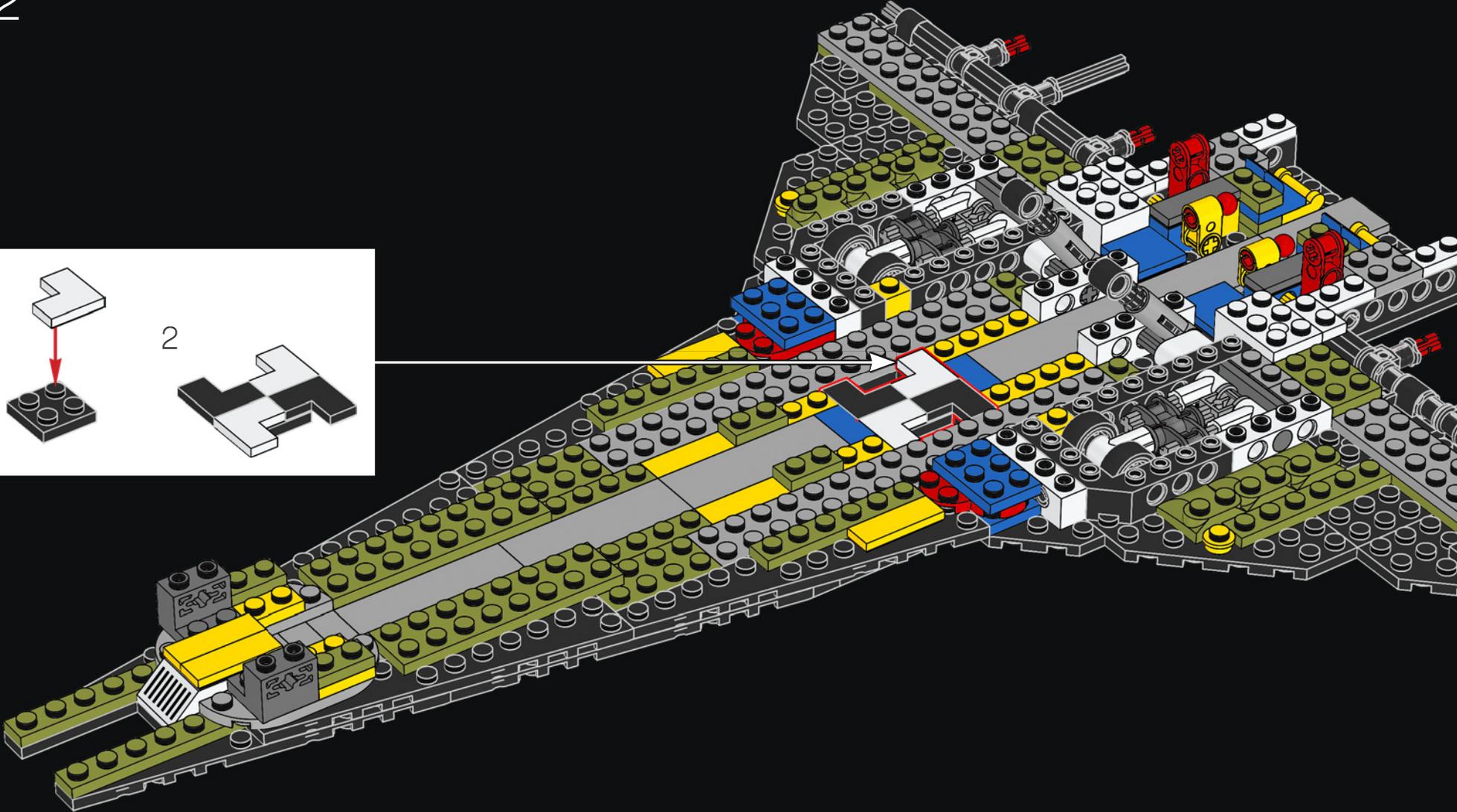
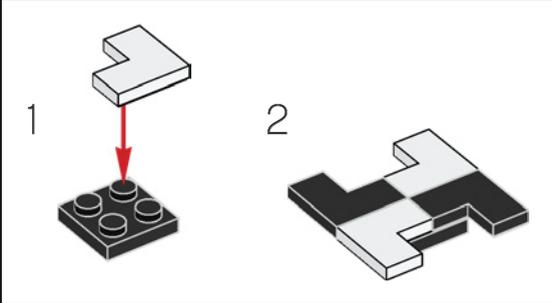


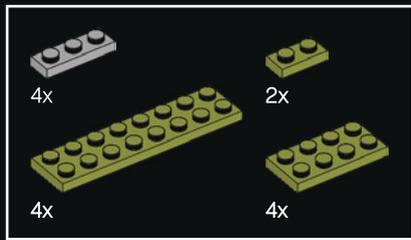
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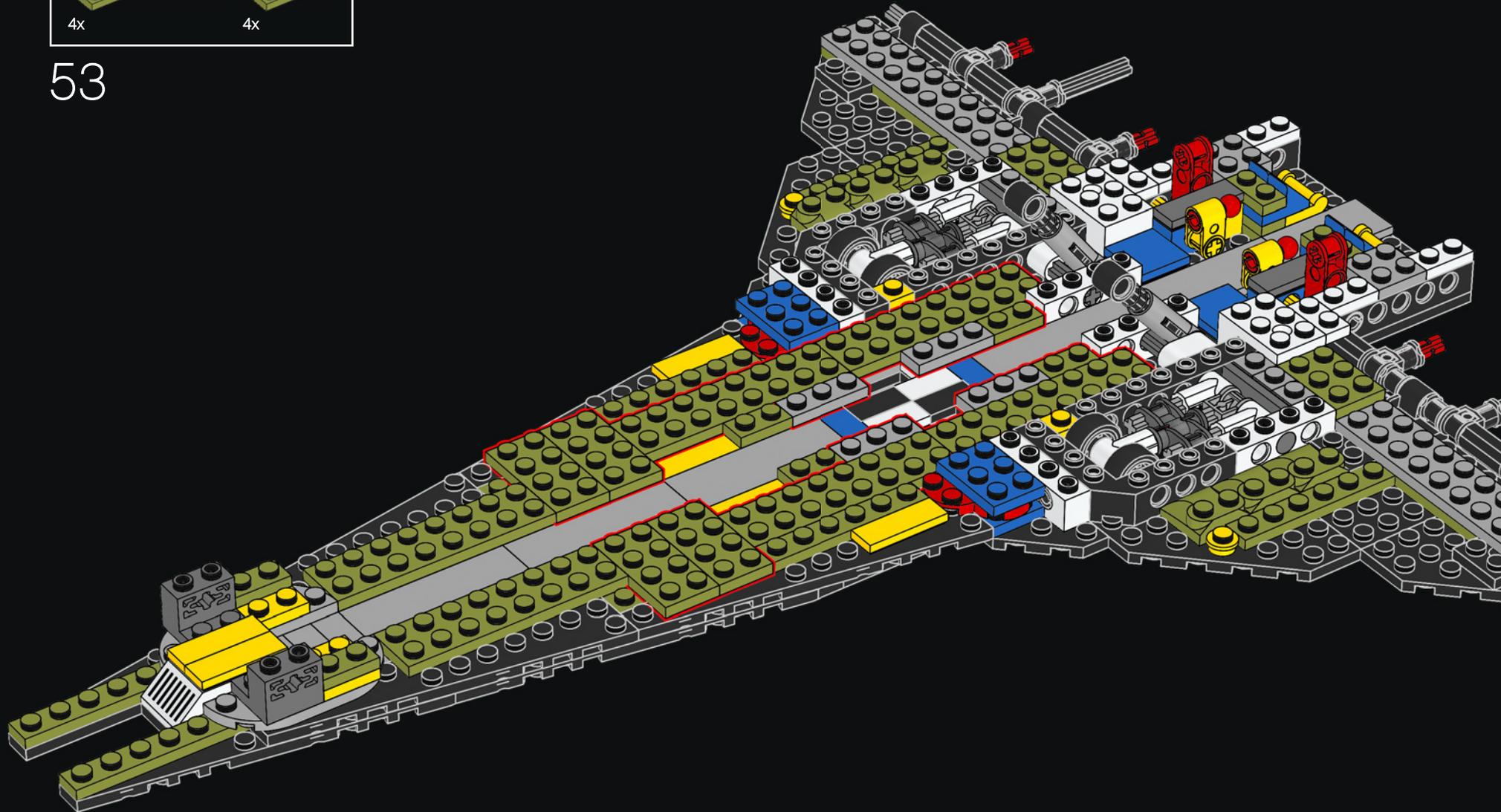


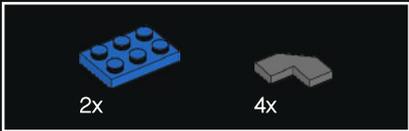
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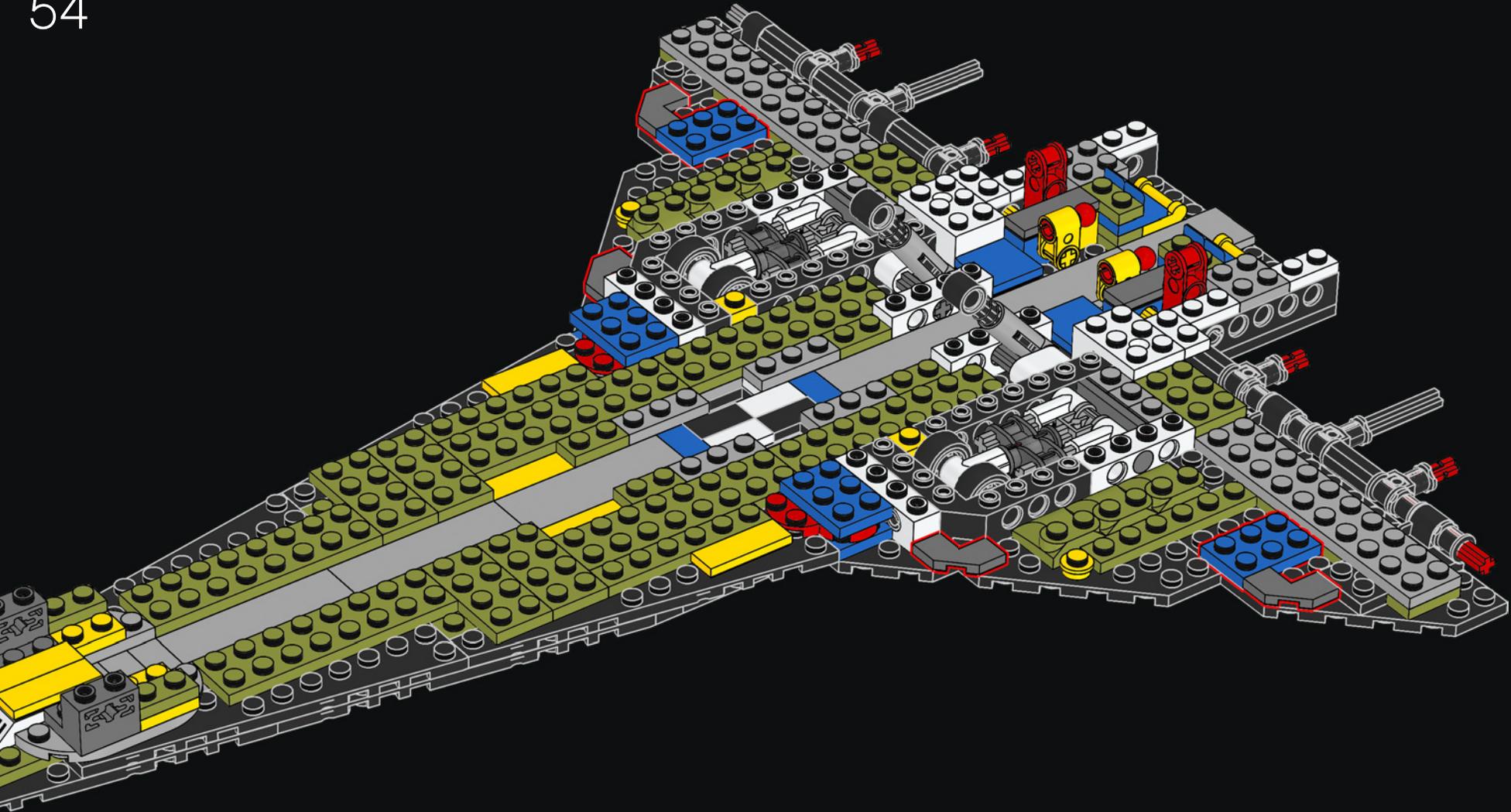


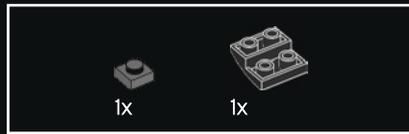
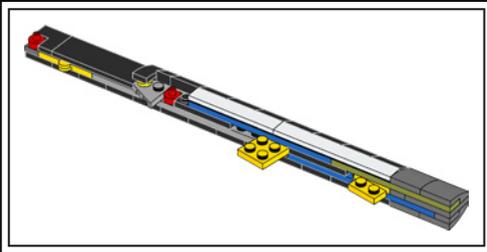
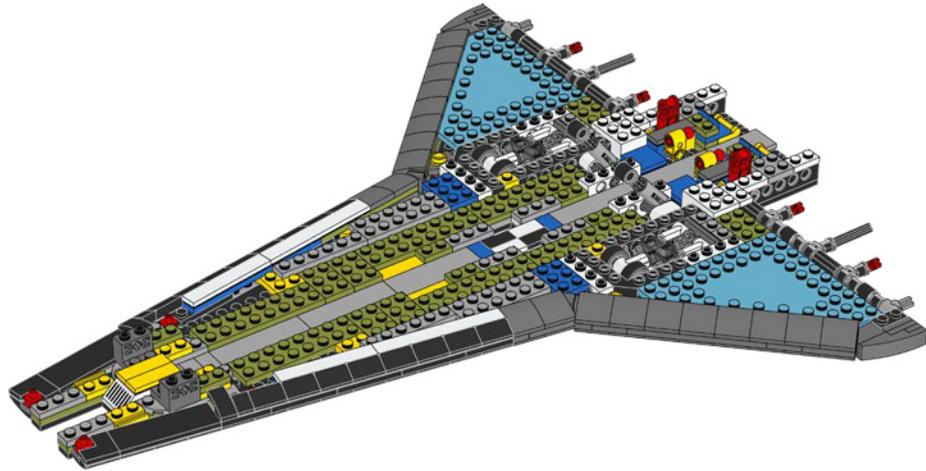
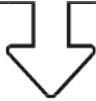
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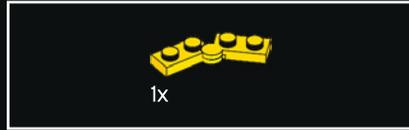
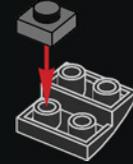


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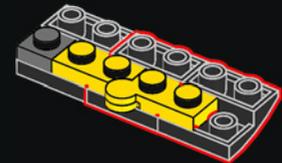
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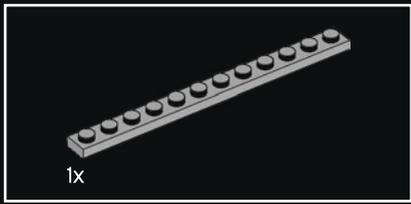


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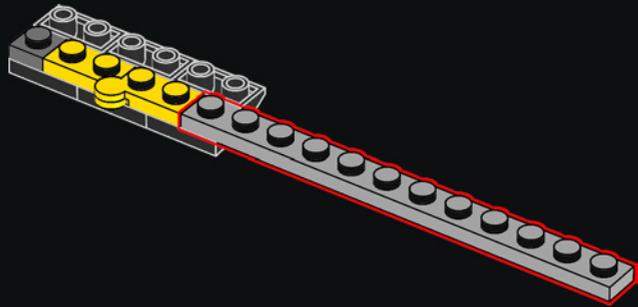


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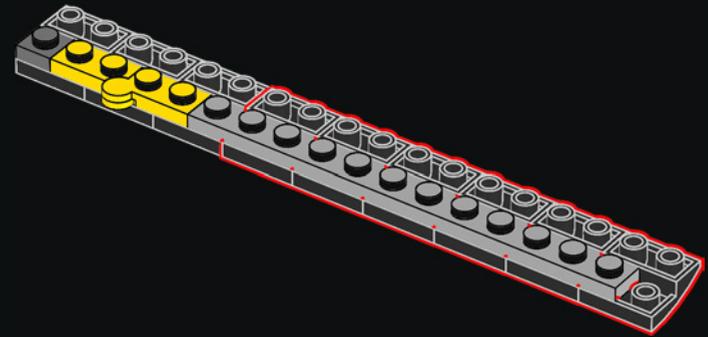


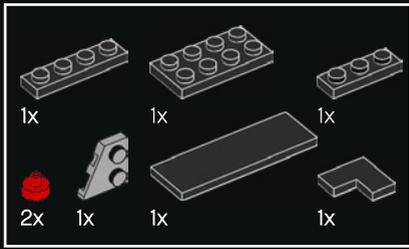


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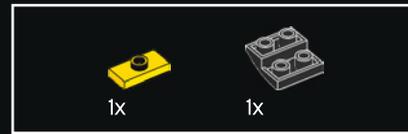
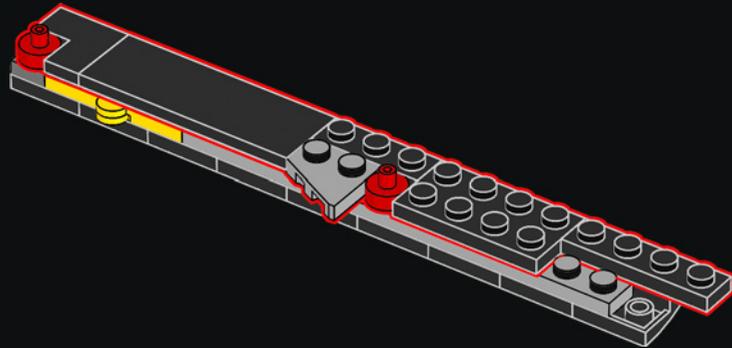


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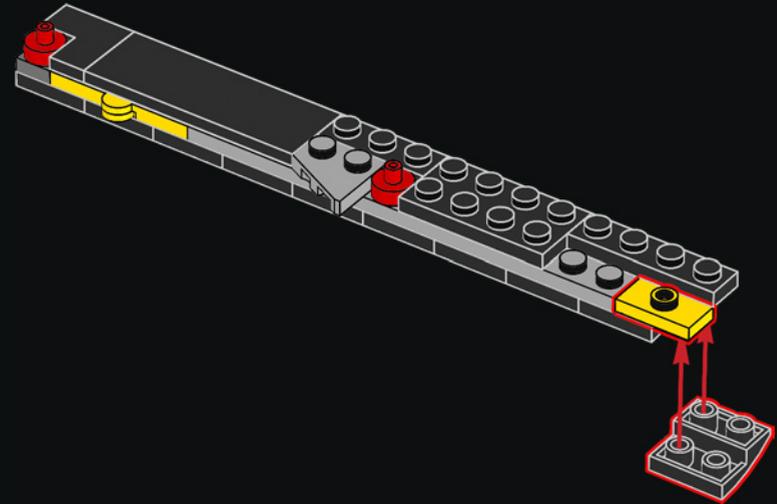


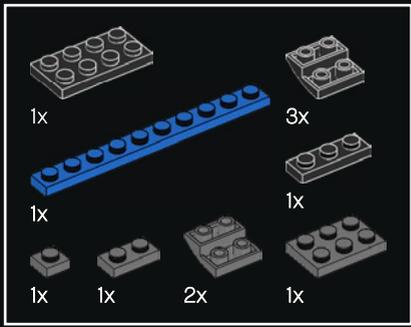


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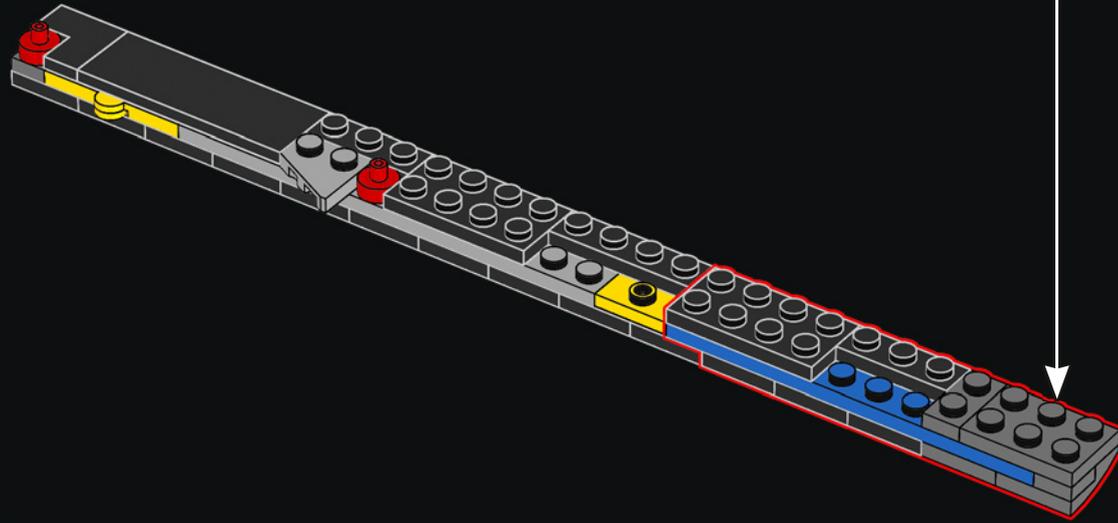
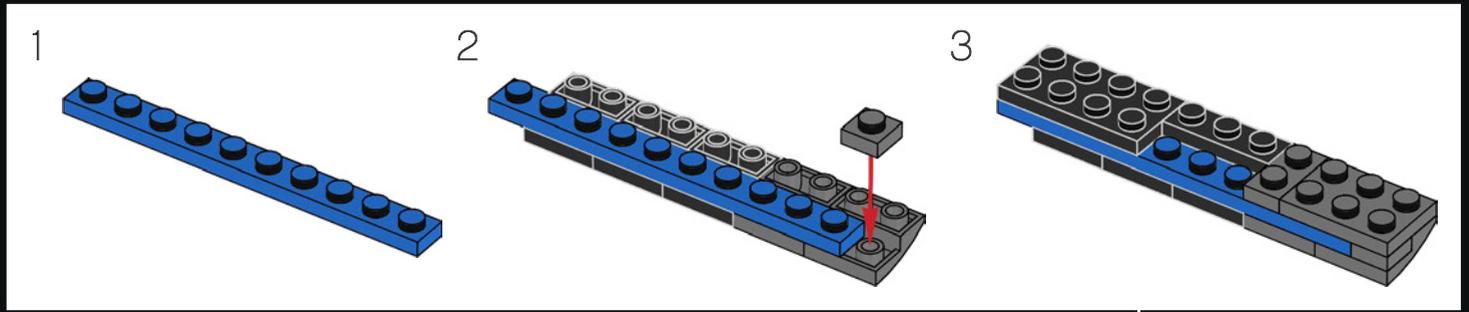


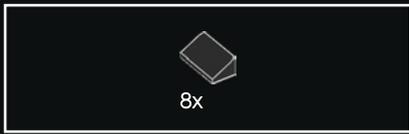
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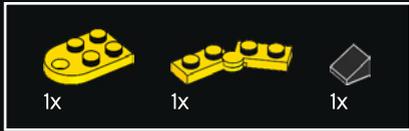
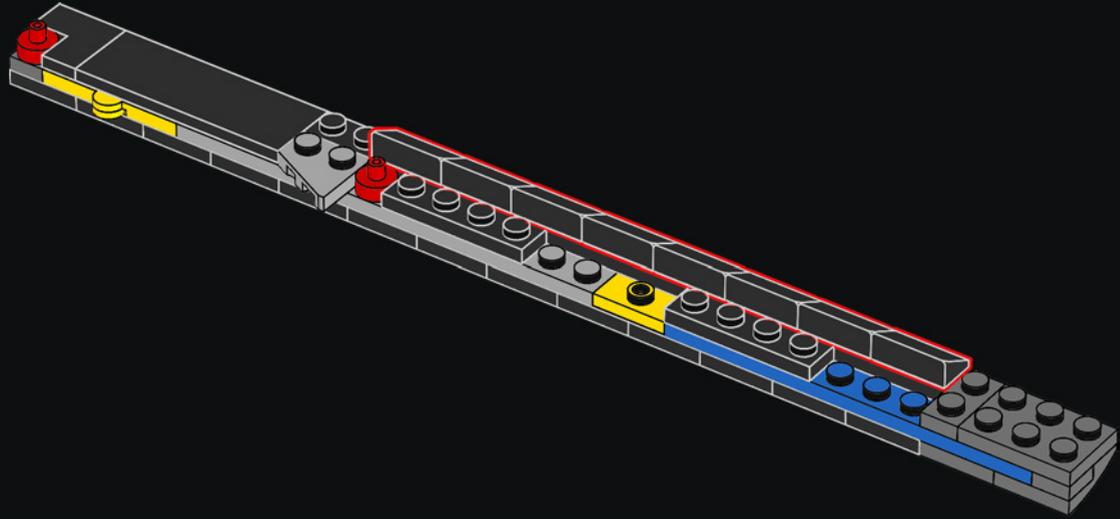


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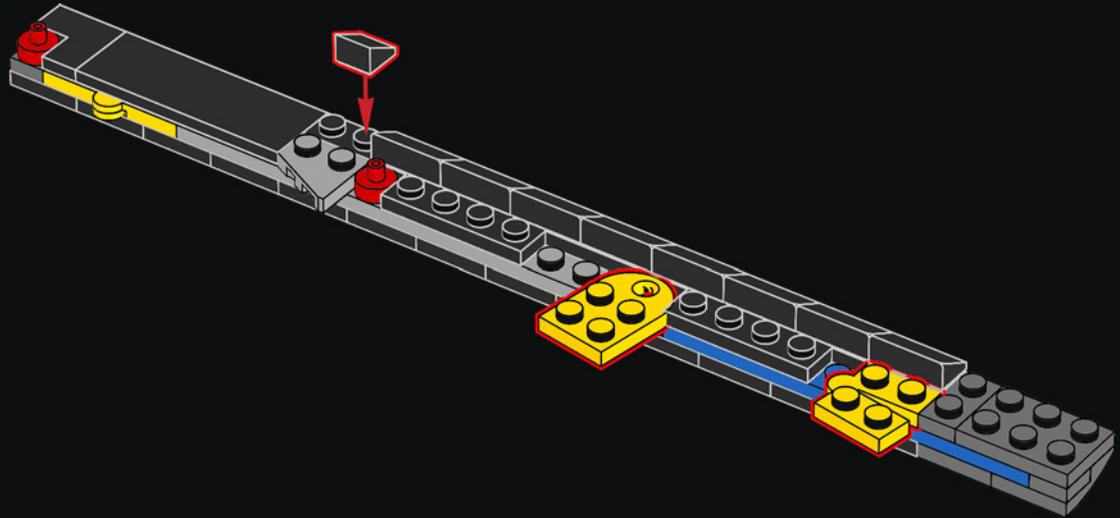


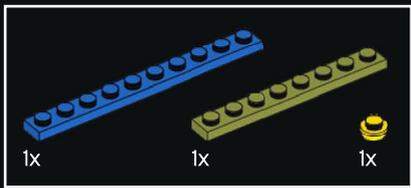


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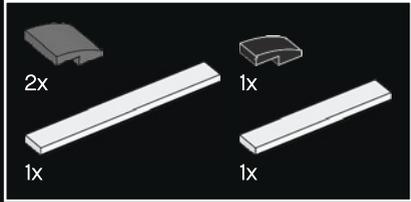
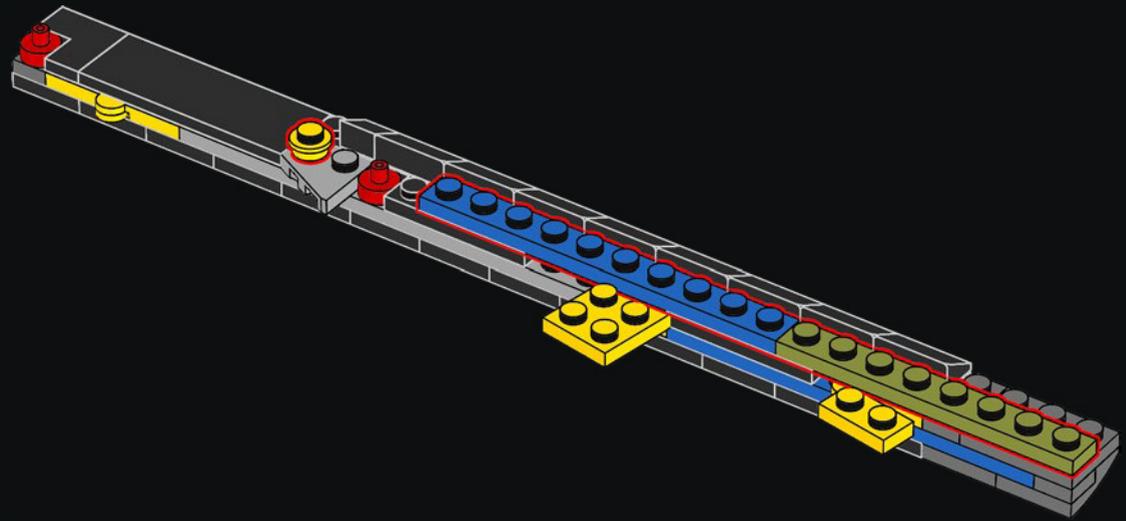


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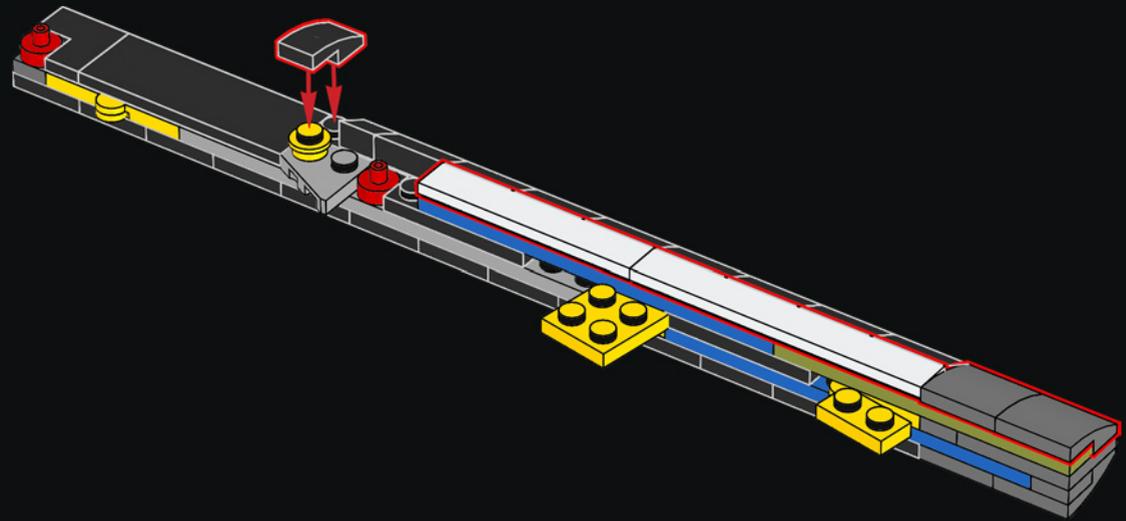




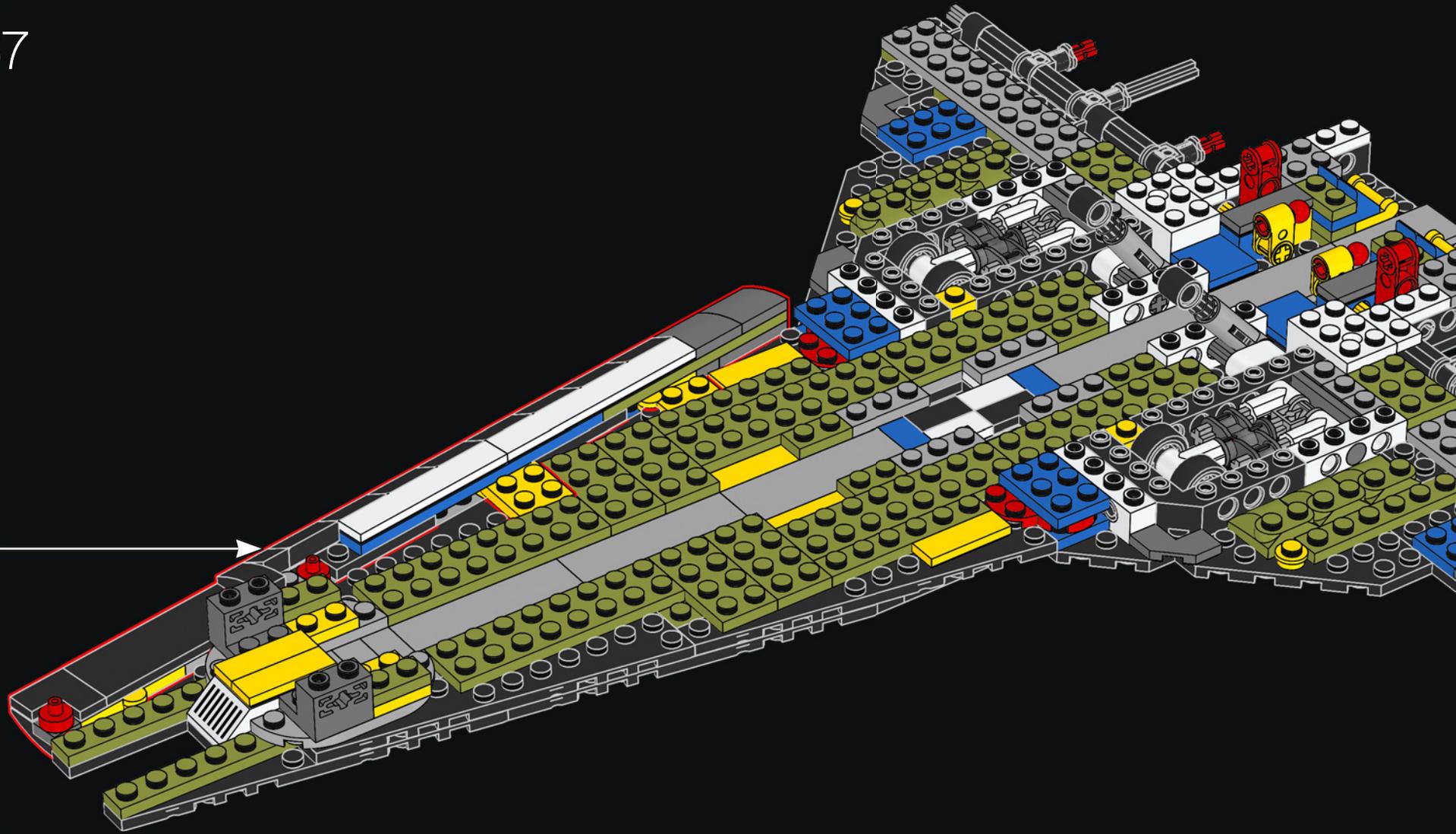
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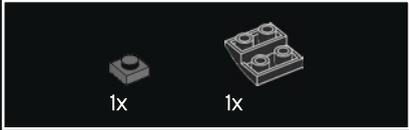
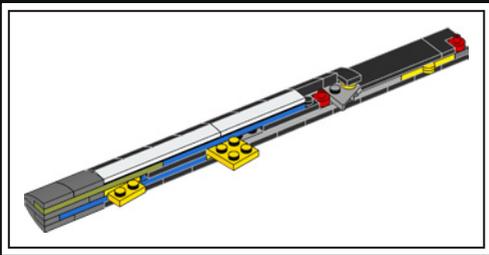


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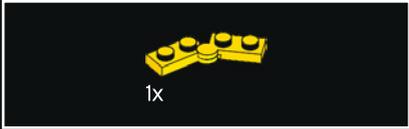


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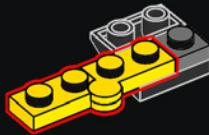




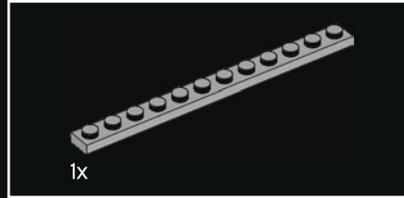
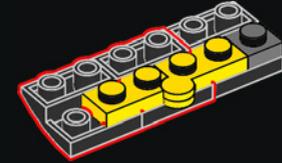
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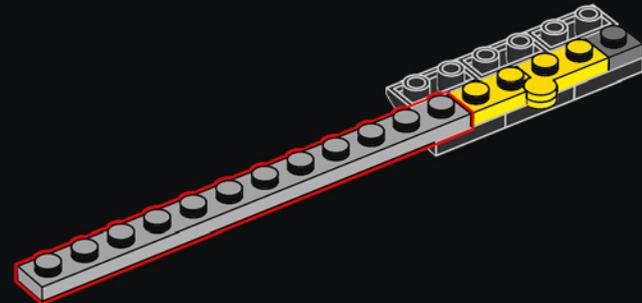
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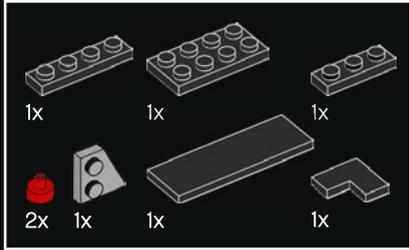
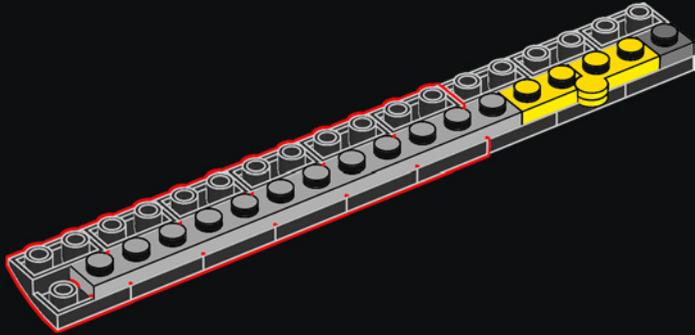


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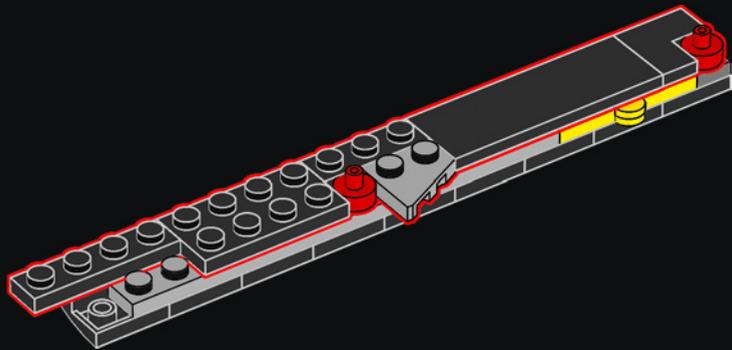




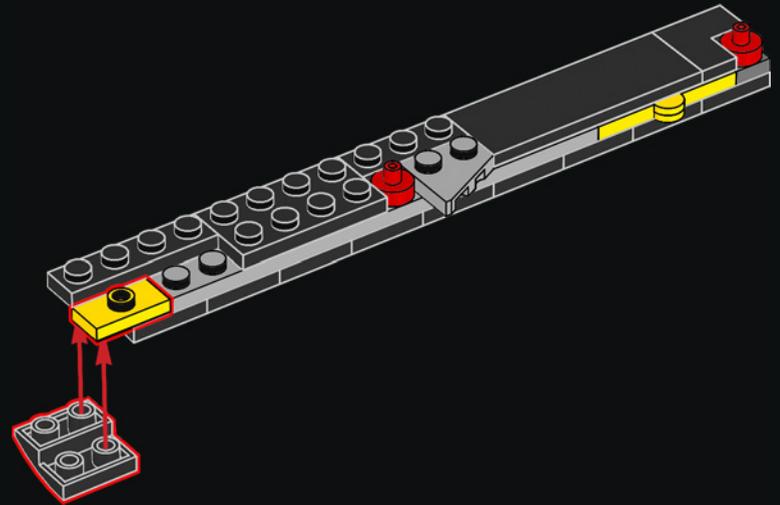
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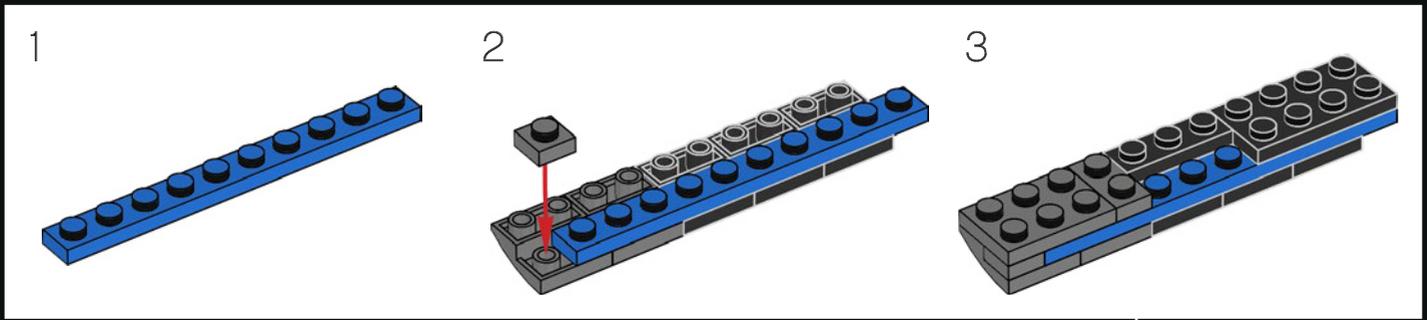
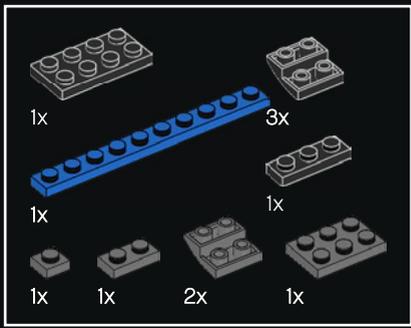


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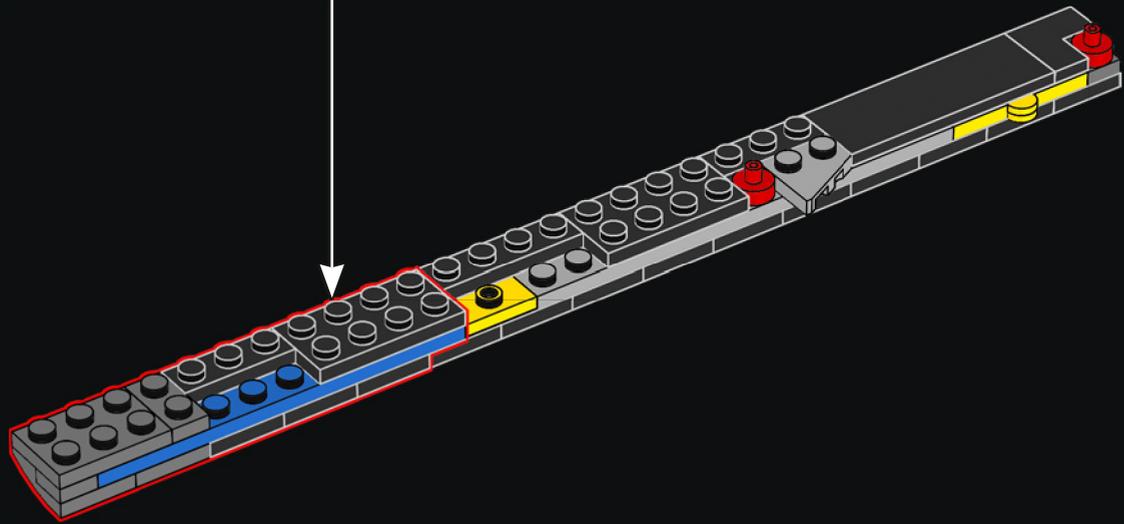


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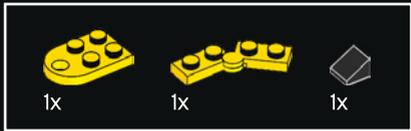
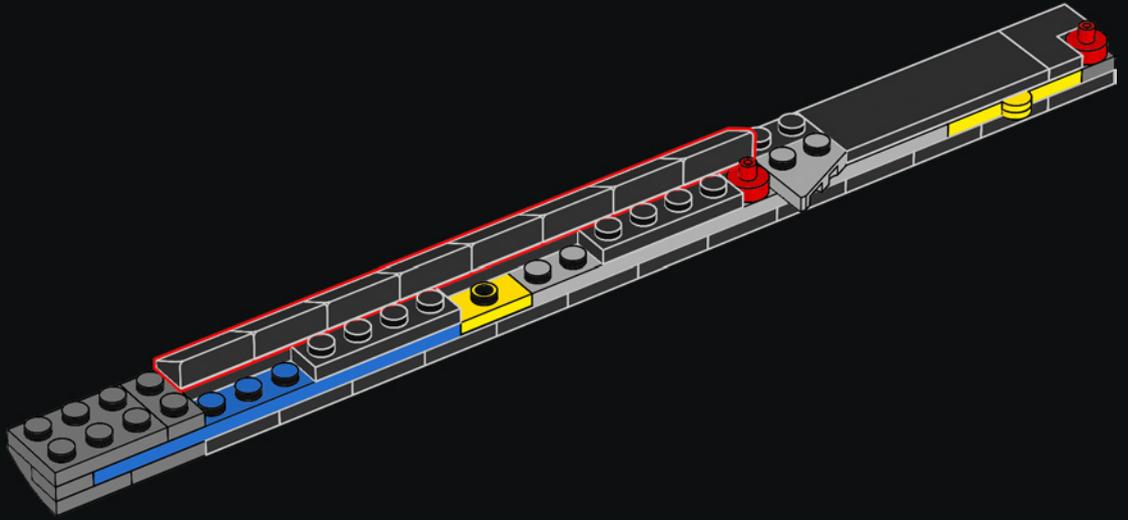


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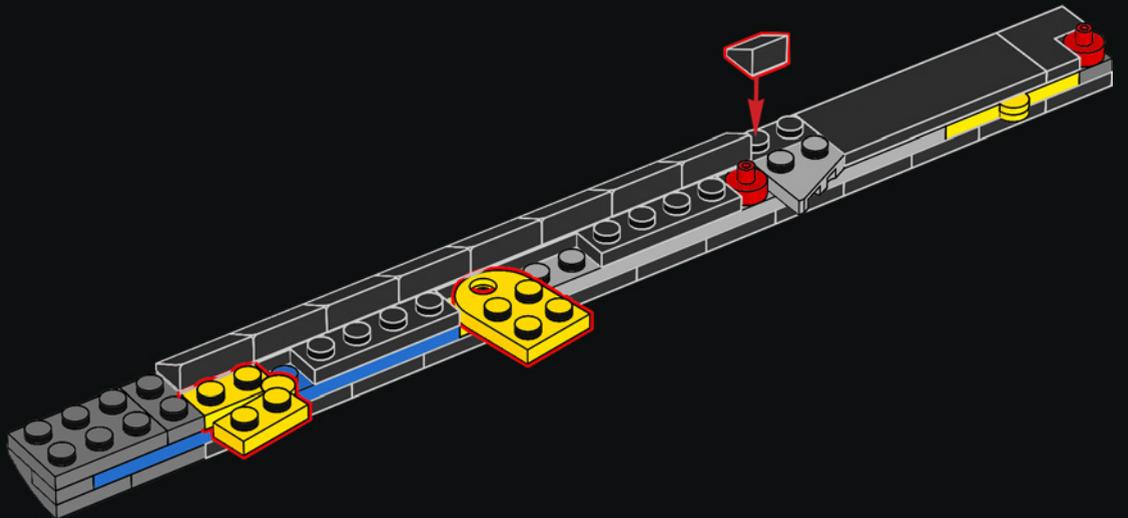


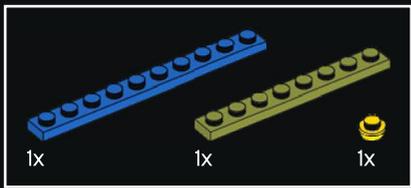


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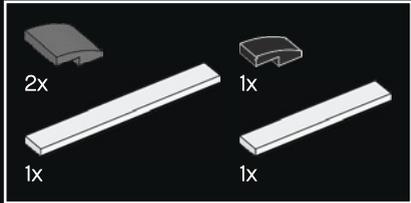
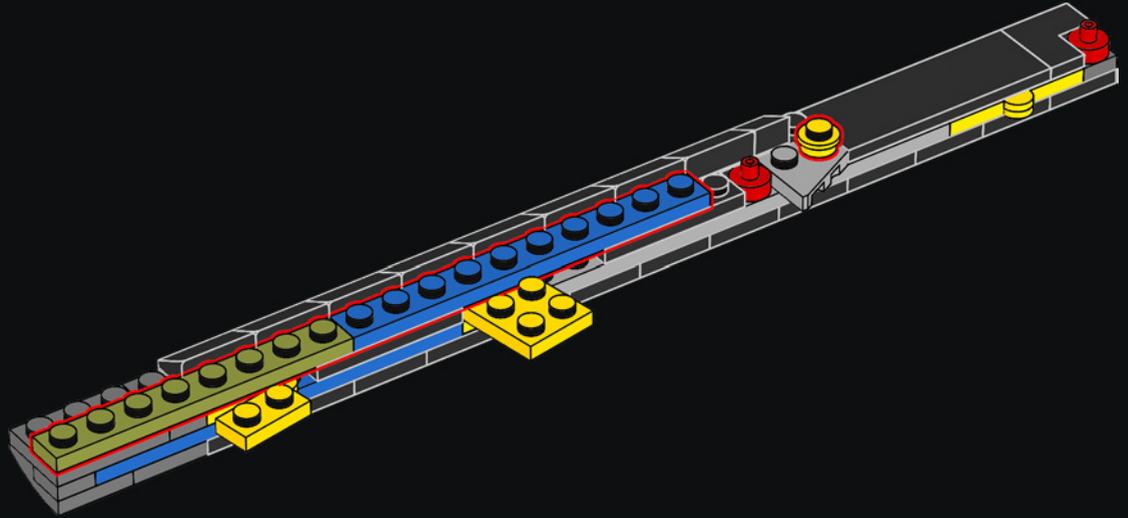


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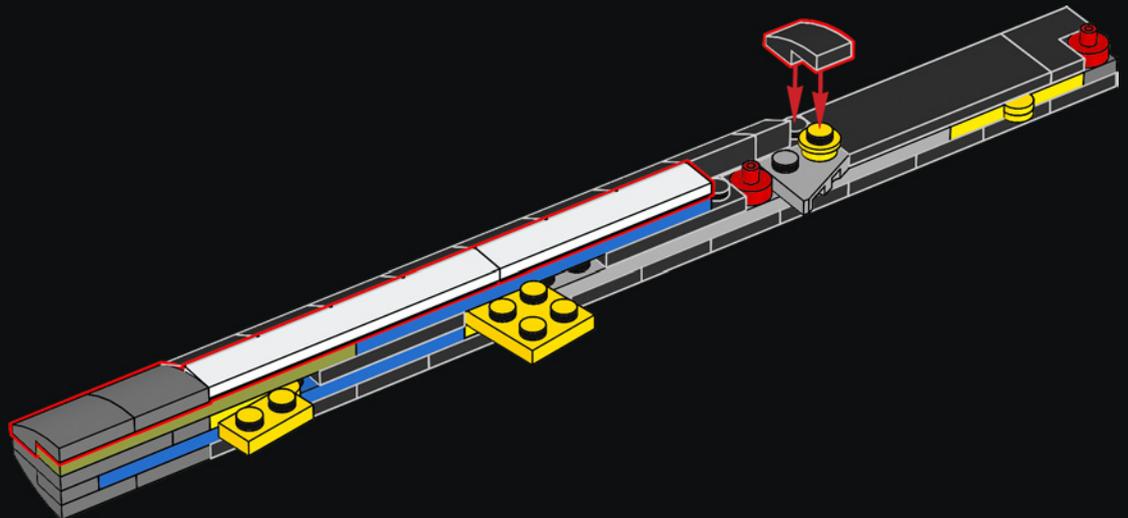




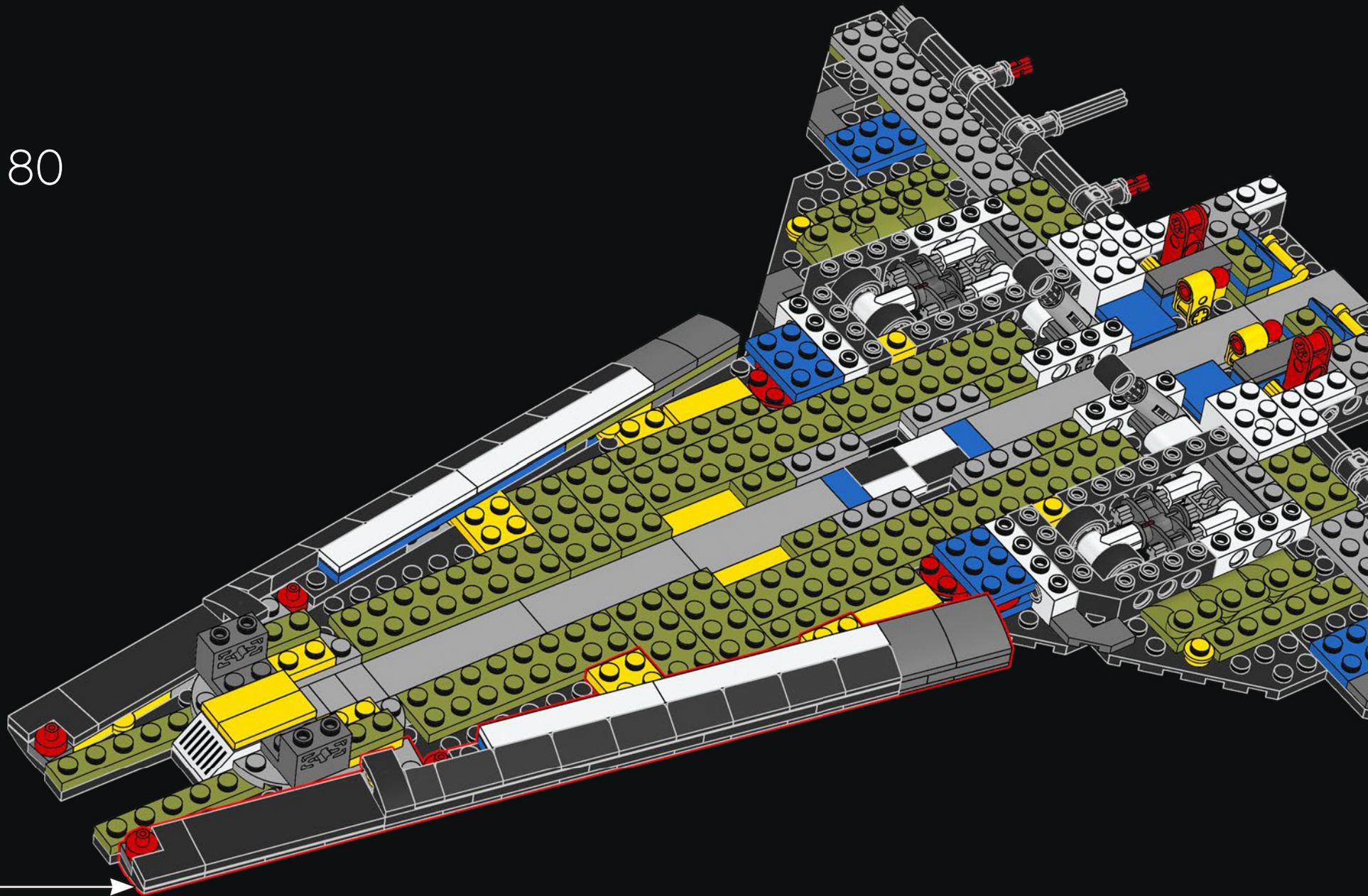
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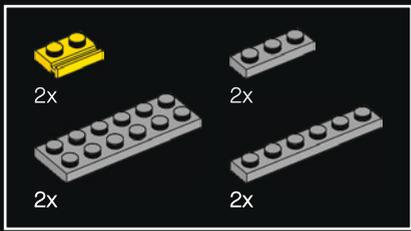


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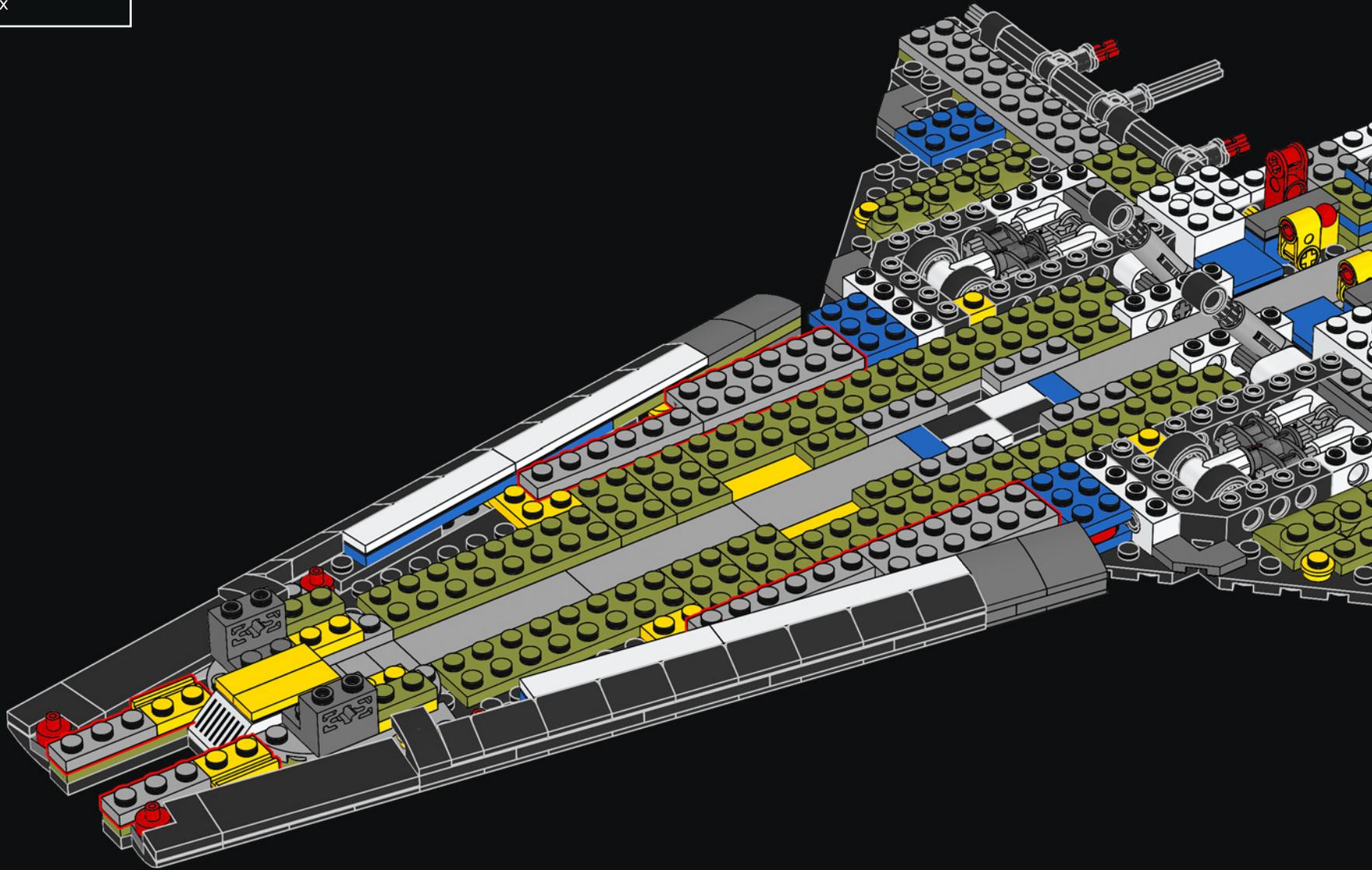


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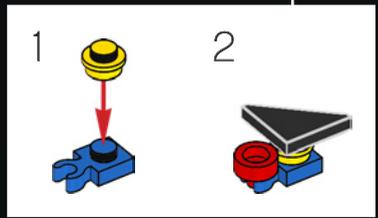
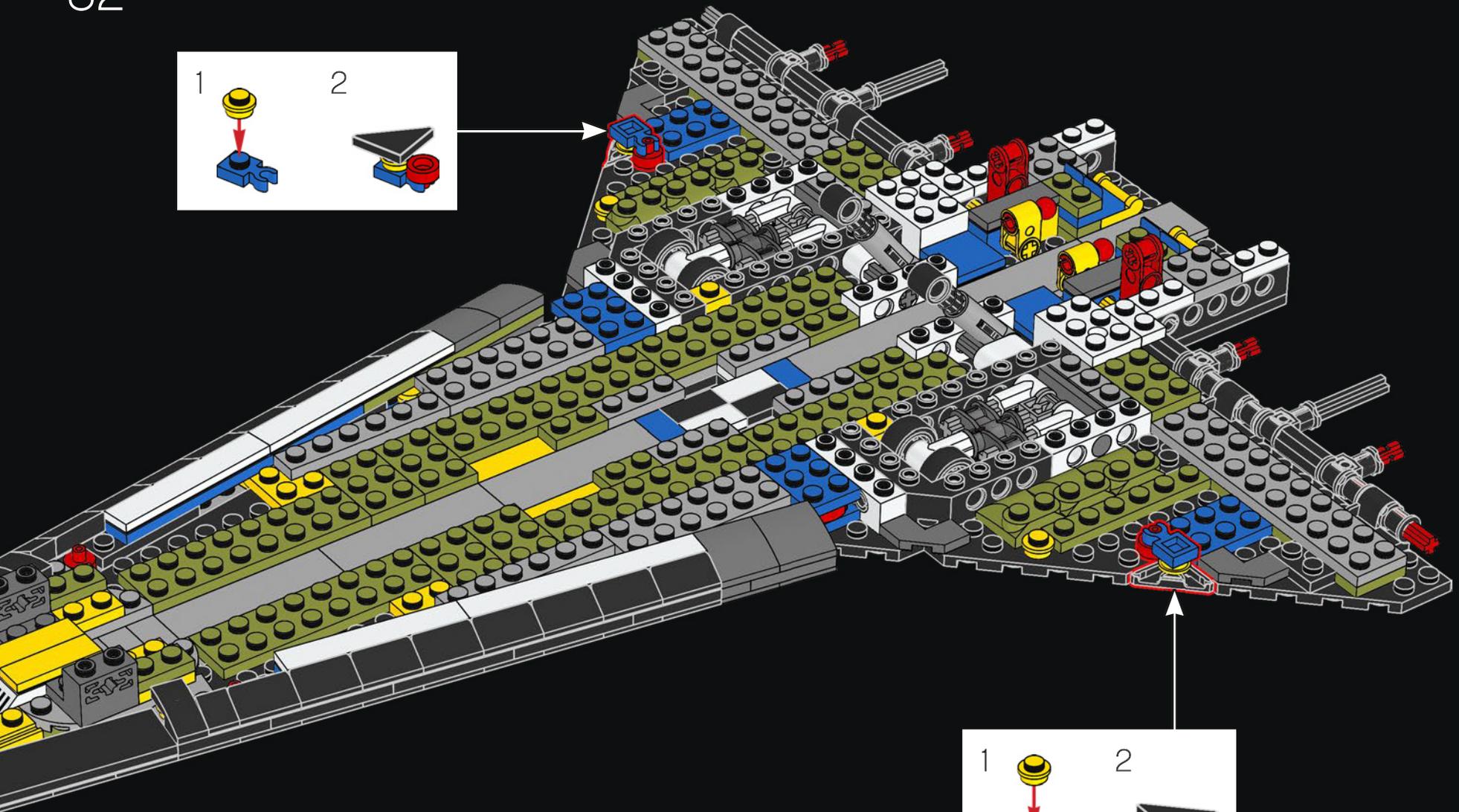
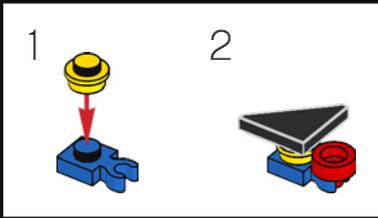


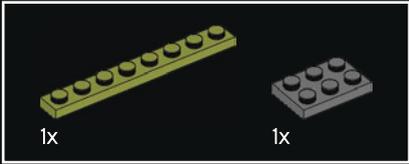
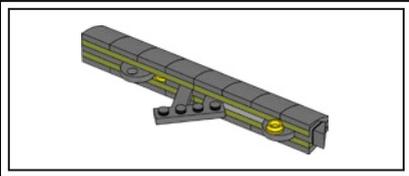
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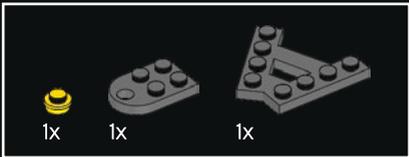
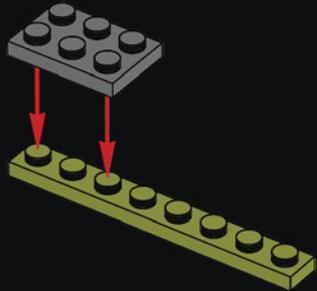
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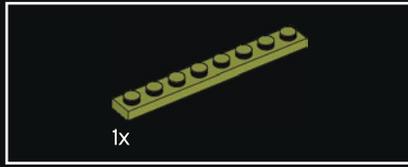
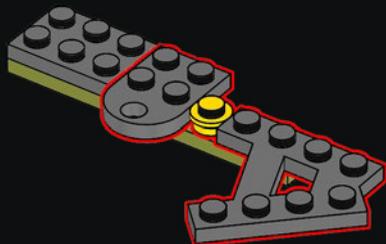




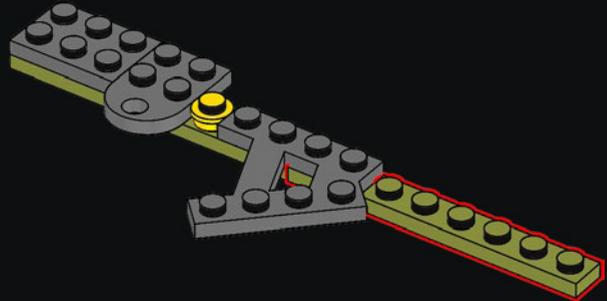
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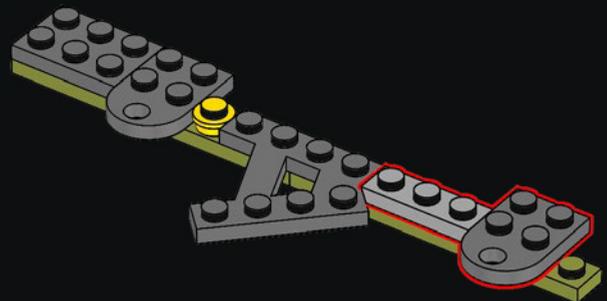
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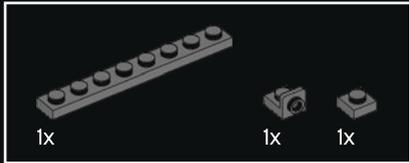
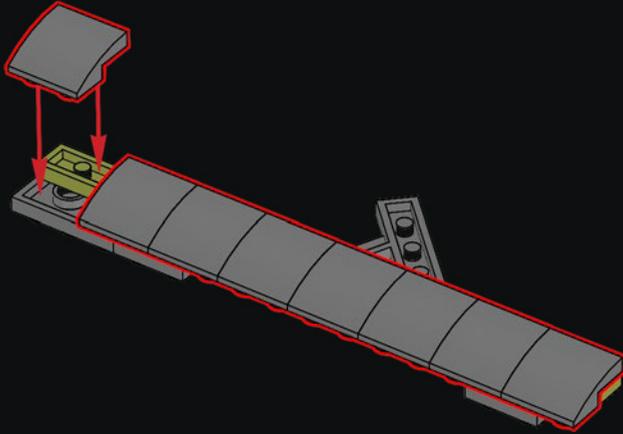


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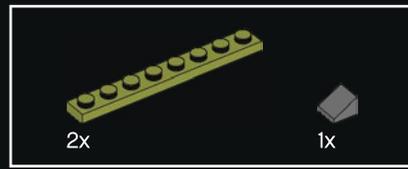
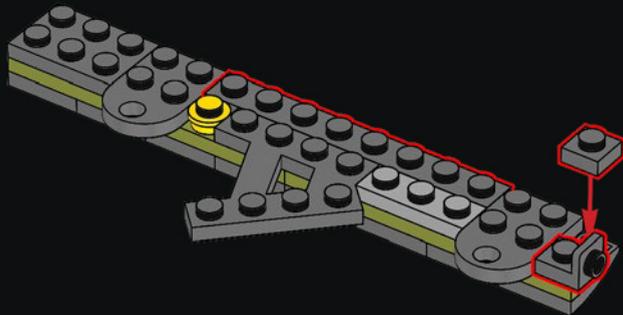




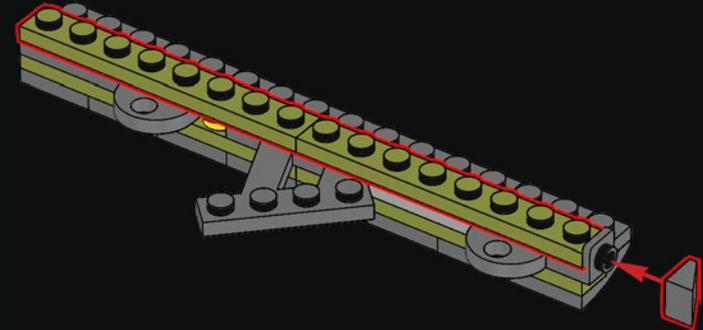
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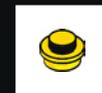
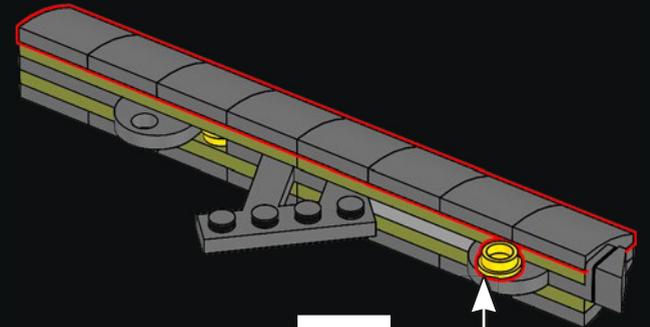
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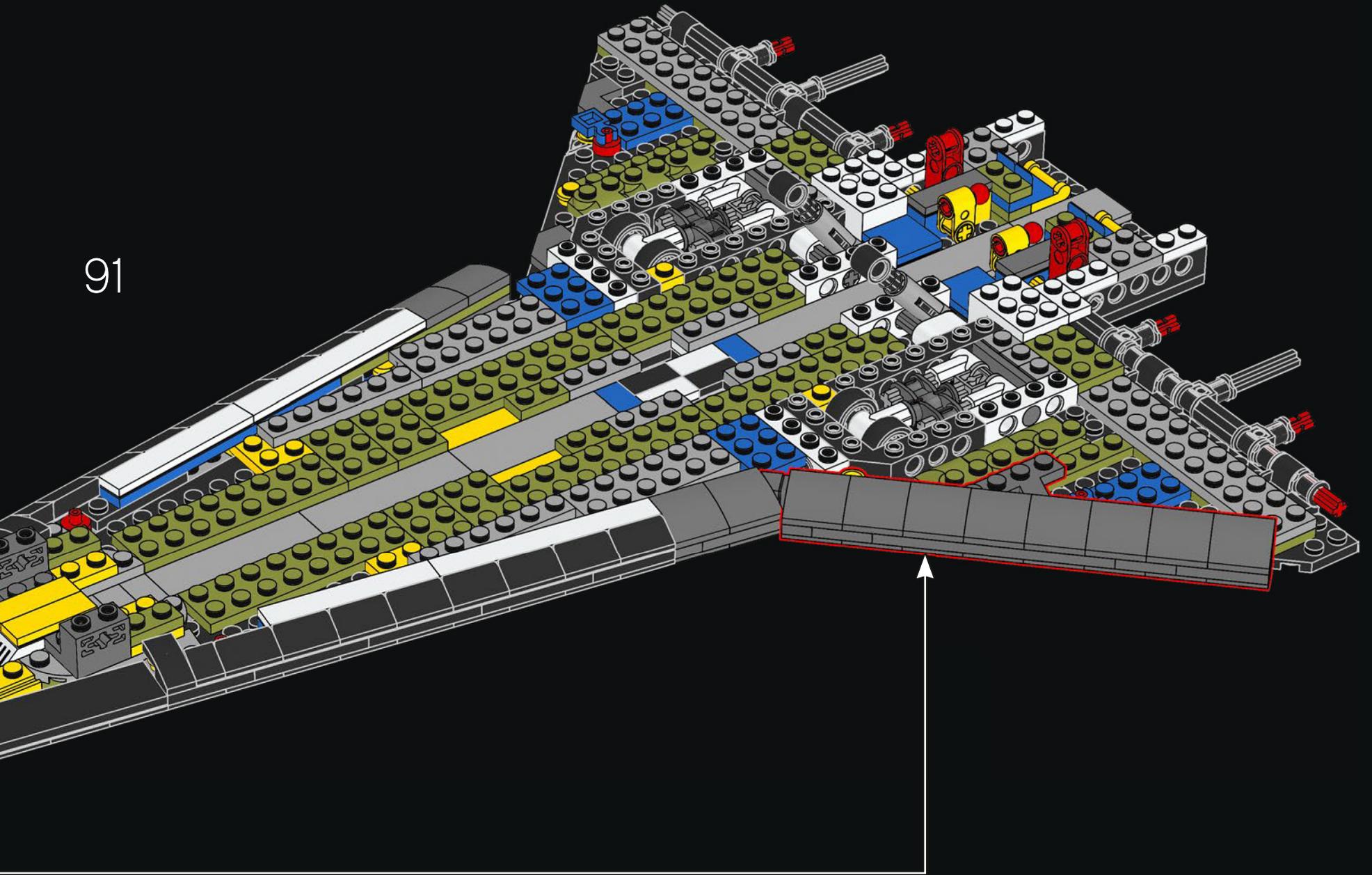
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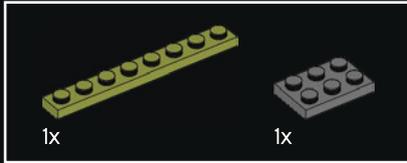
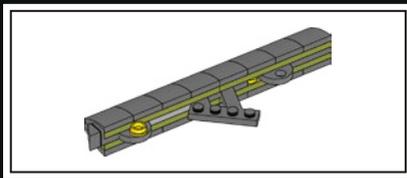


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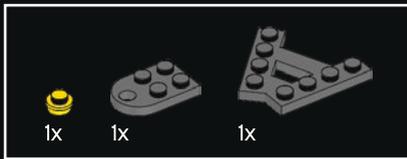
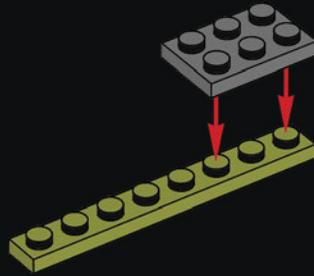


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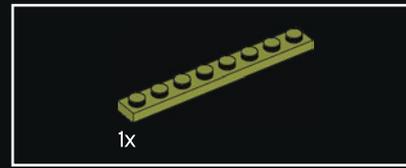
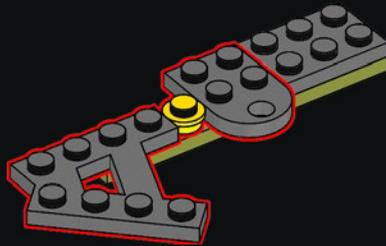




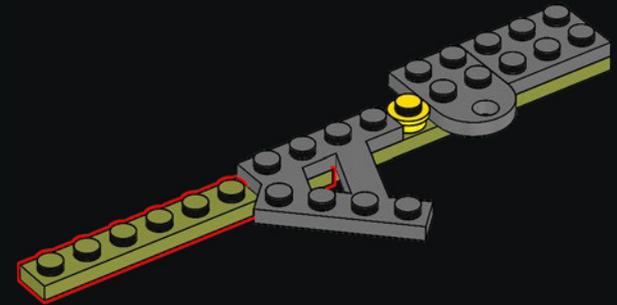
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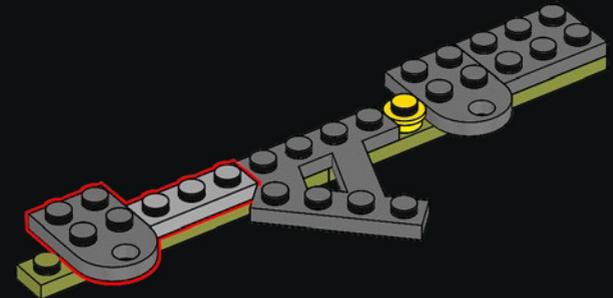
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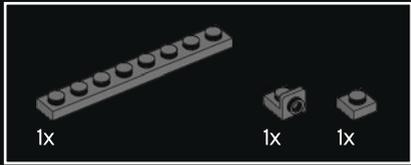
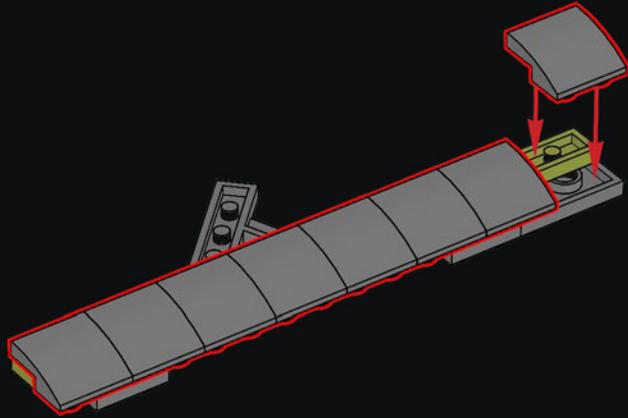


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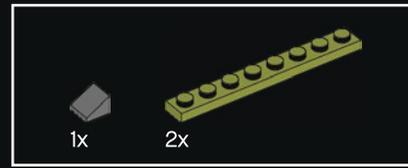
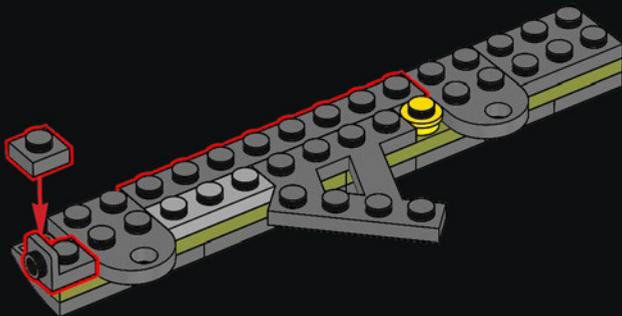




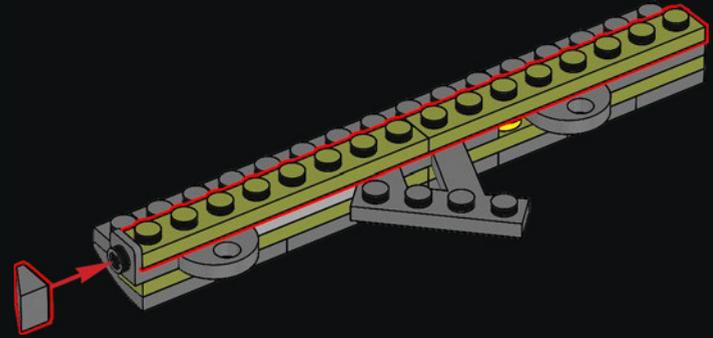
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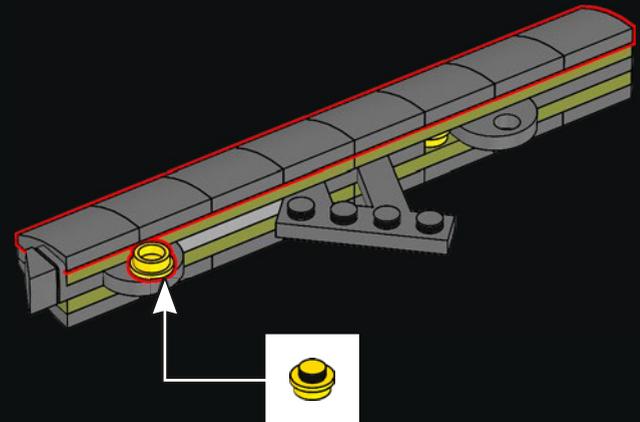
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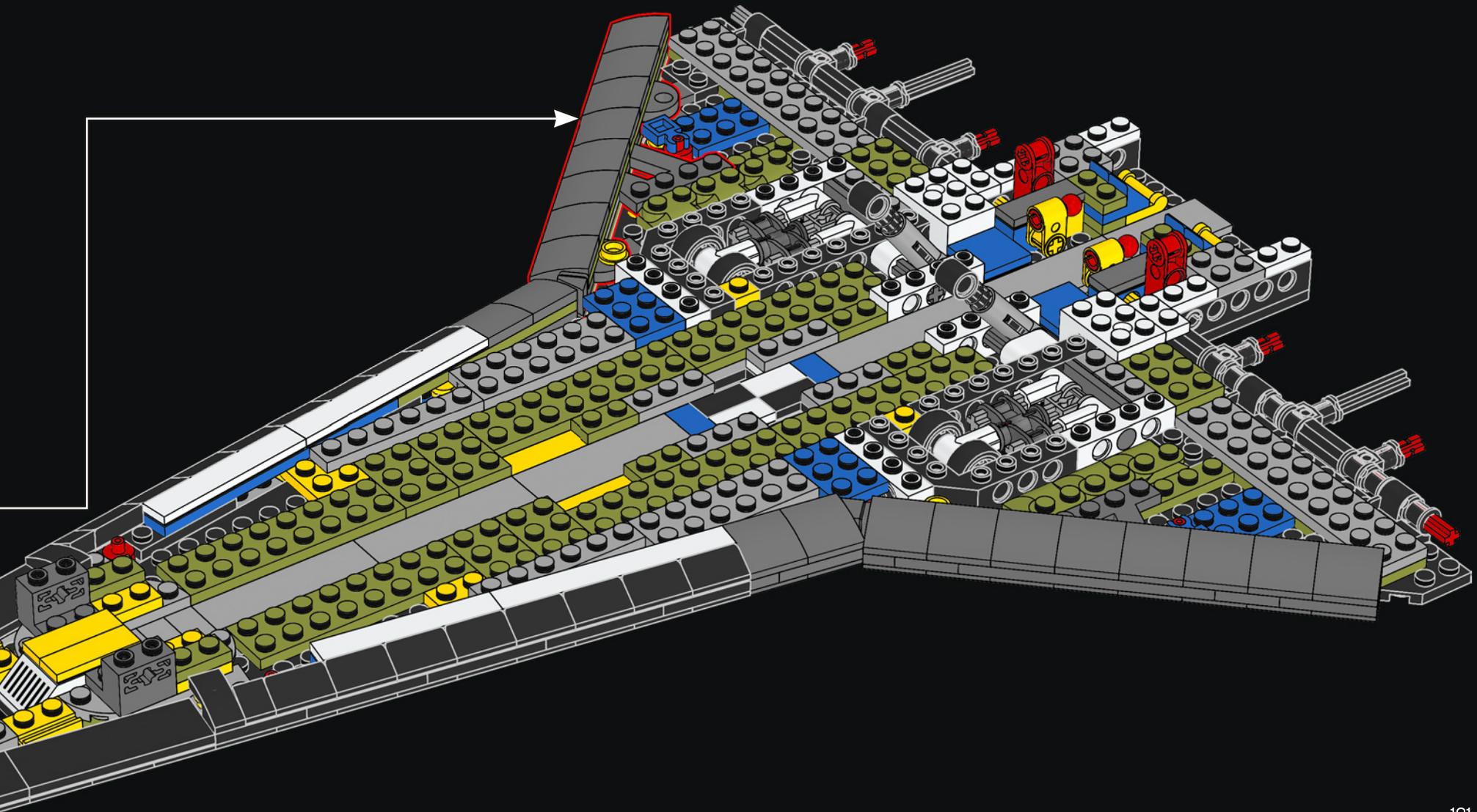
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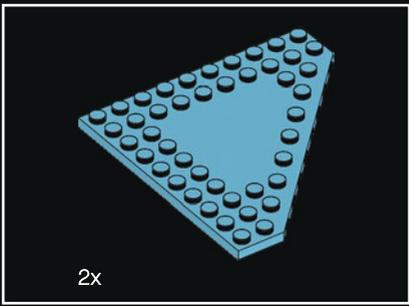


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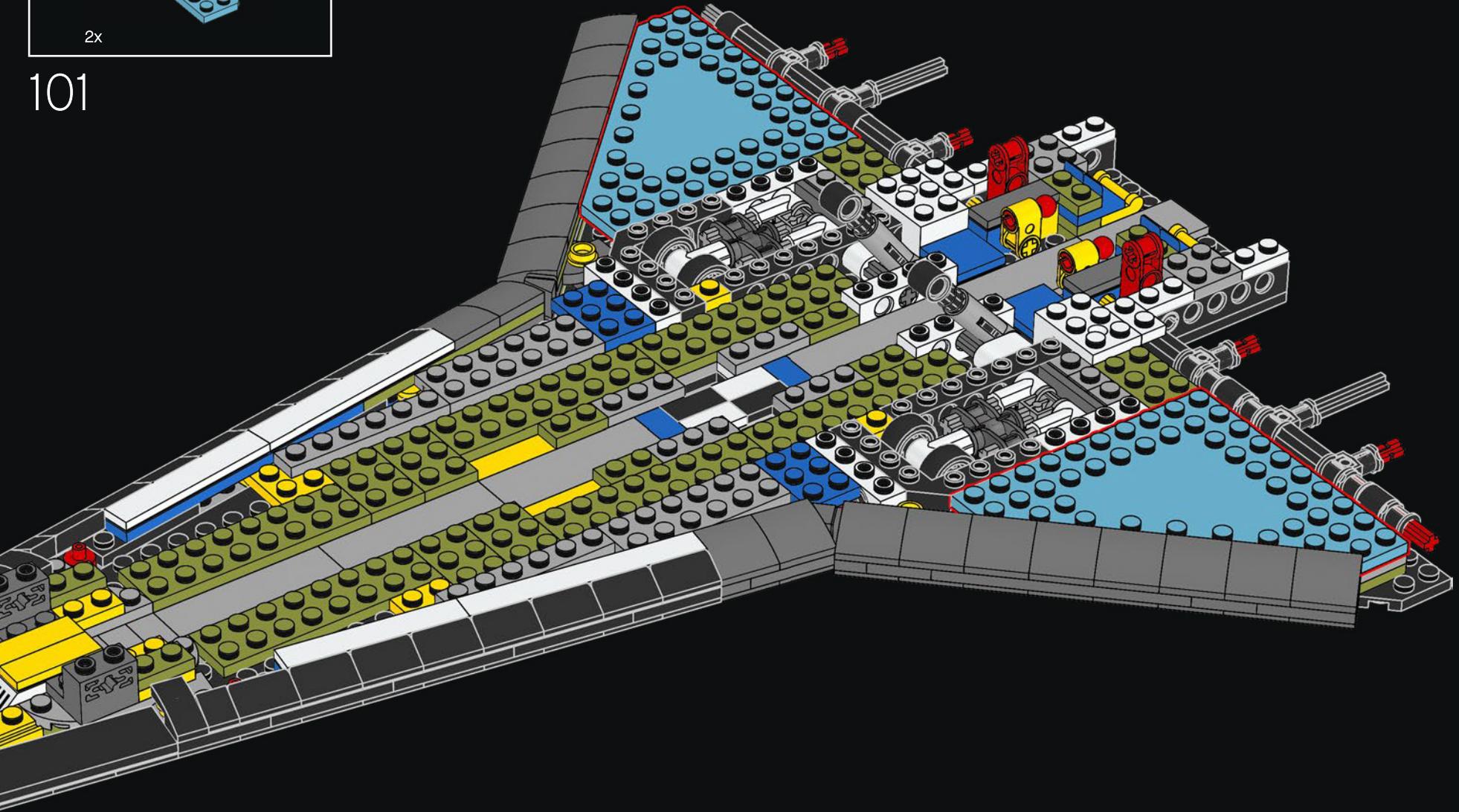


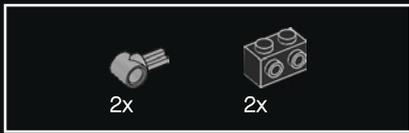
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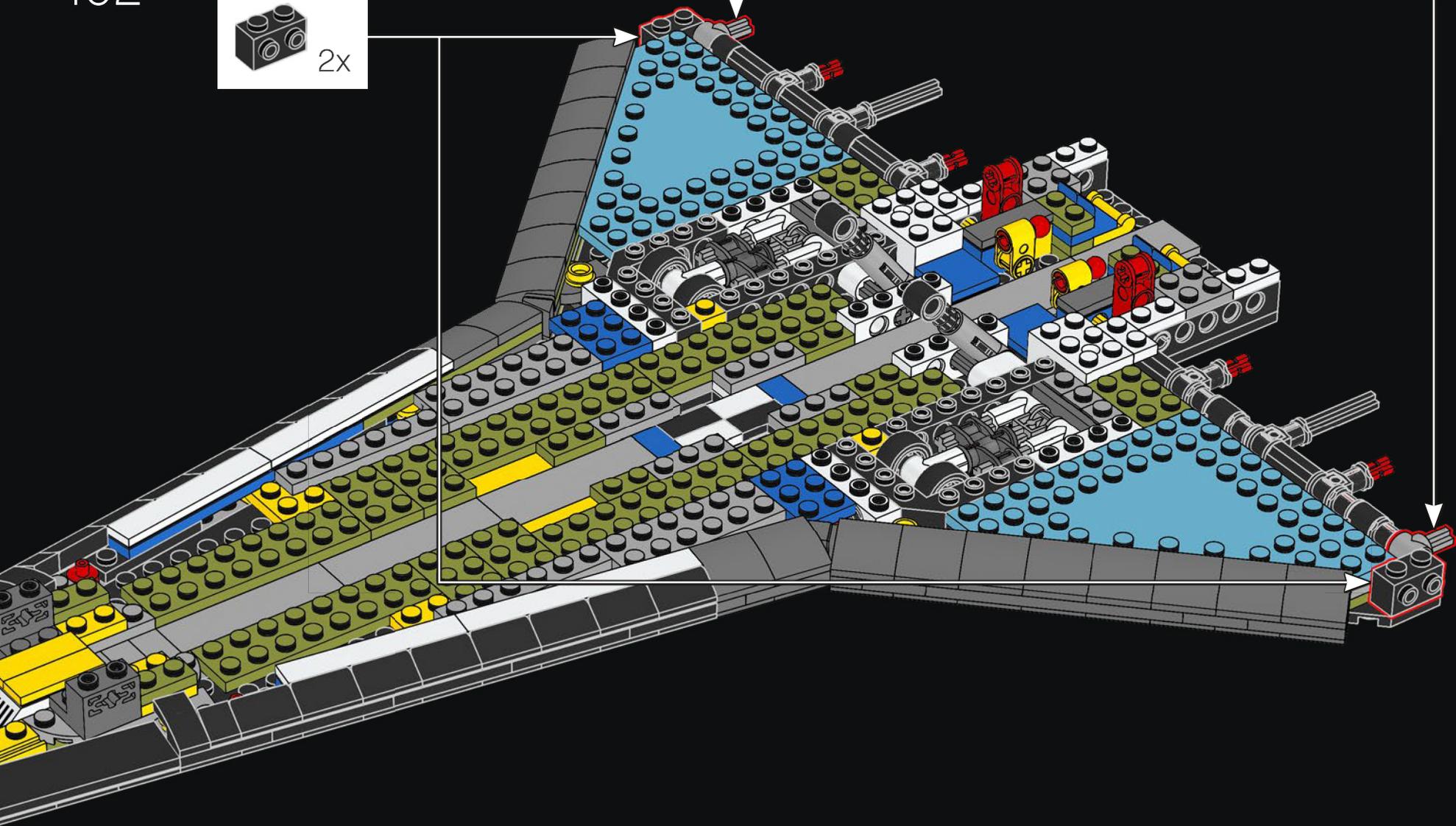
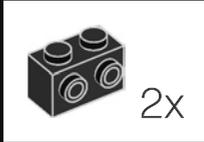


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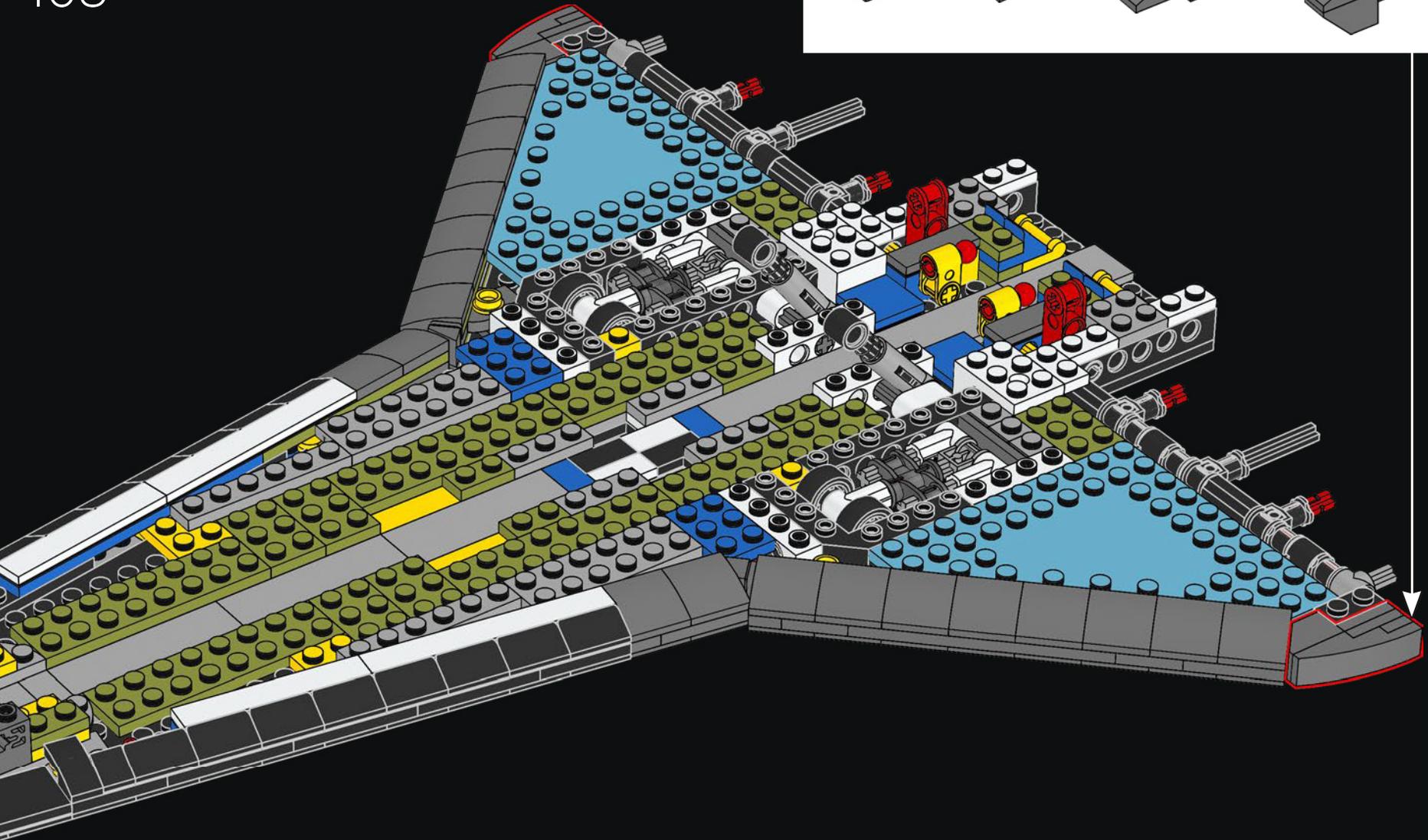
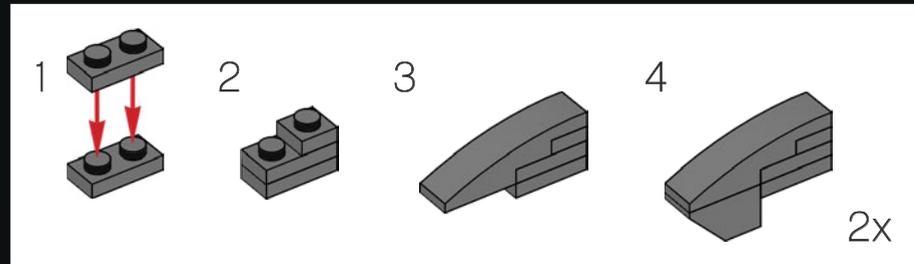


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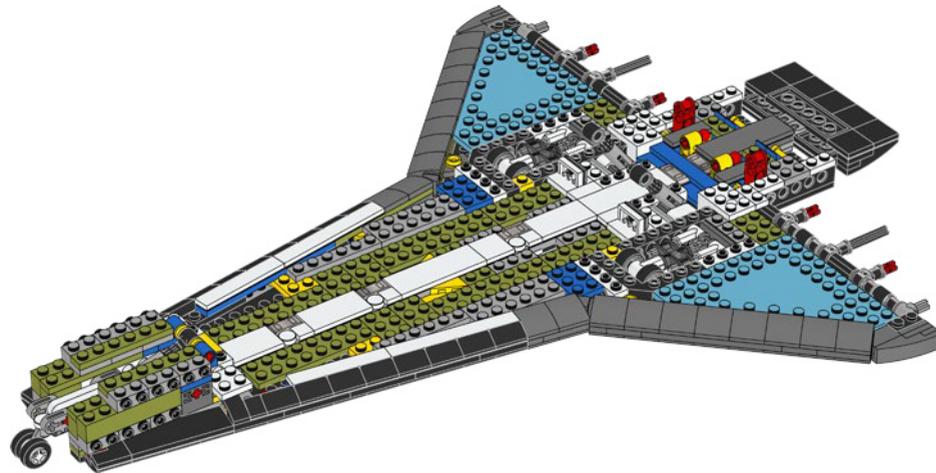
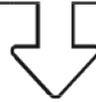


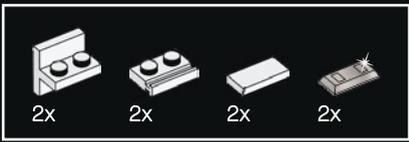
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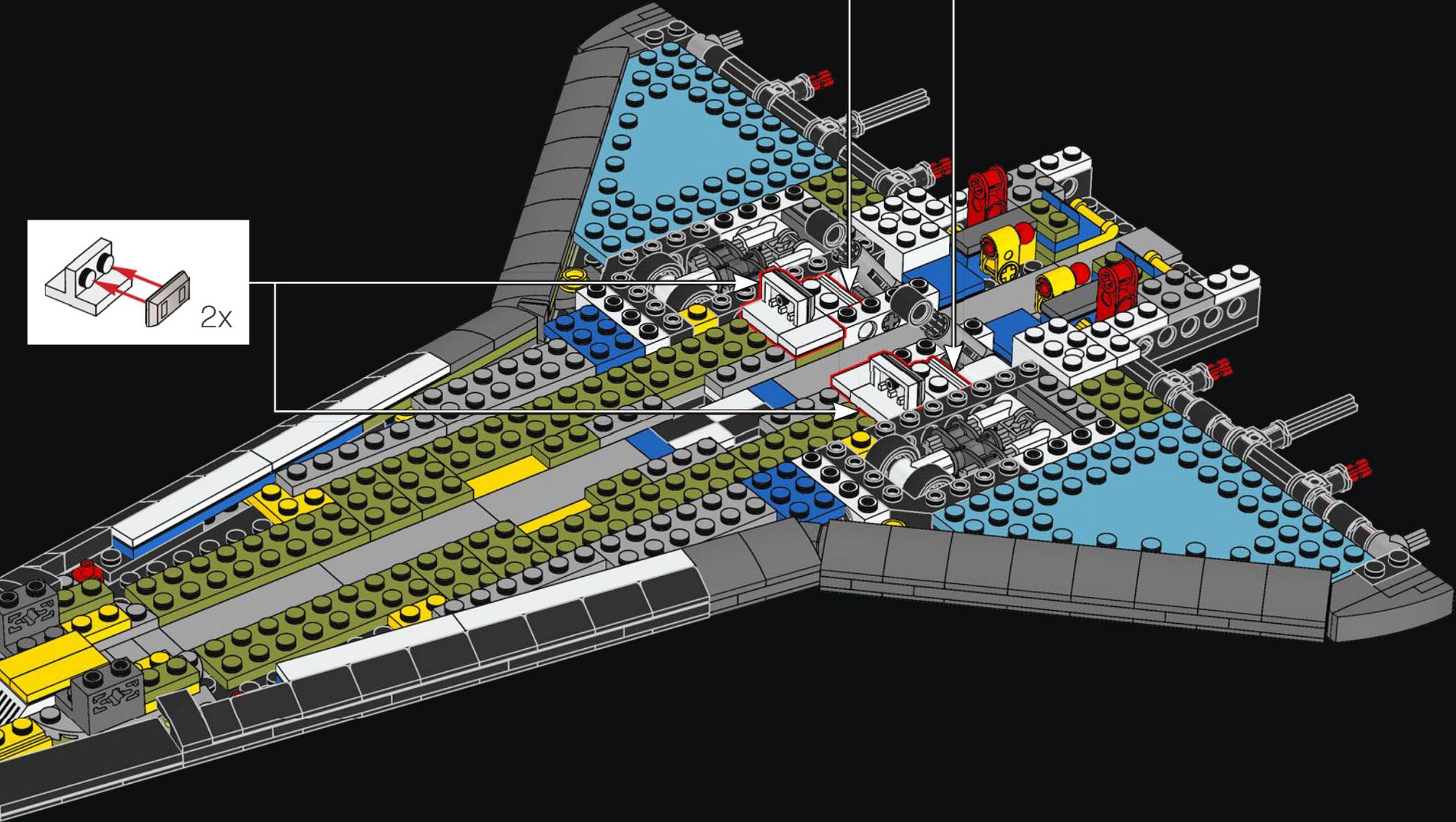
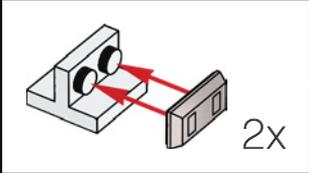
LO SAPEVI?

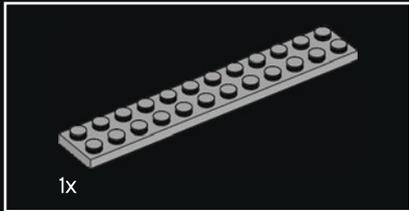
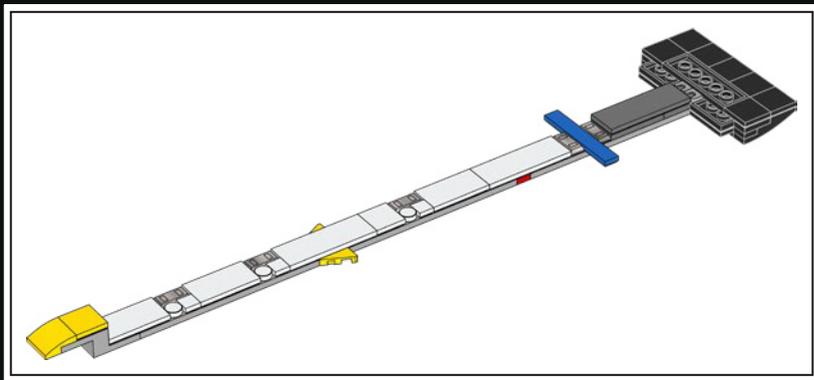
Il naso e il bordo d'attacco delle ali sono le parti più esposte al calore generato durante il rientro nell'atmosfera: fino a 1.600 gradi Celsius!



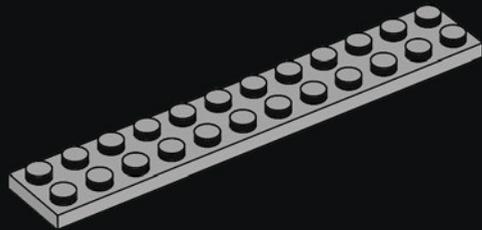


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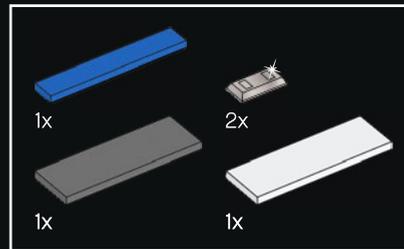
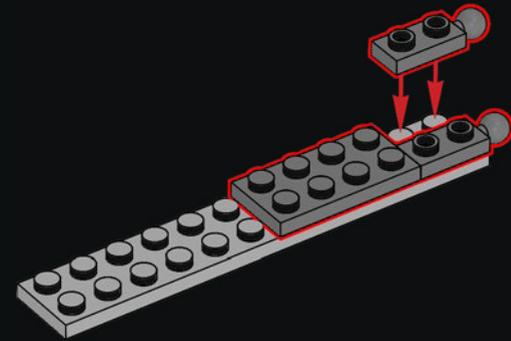




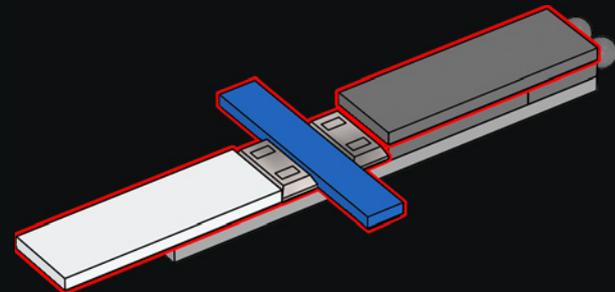
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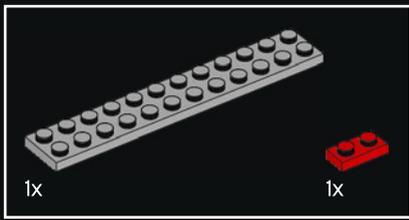


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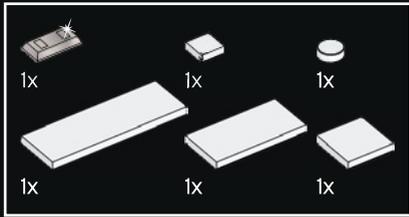
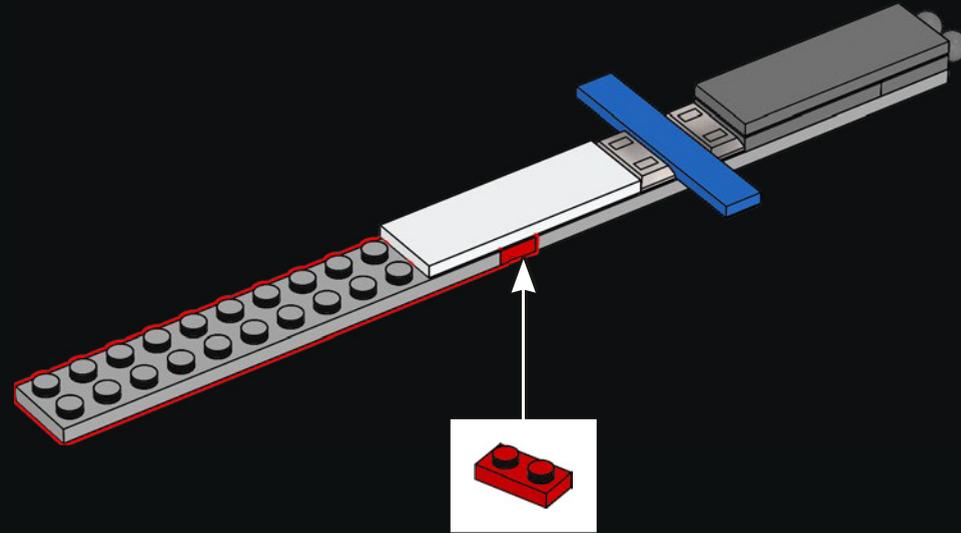


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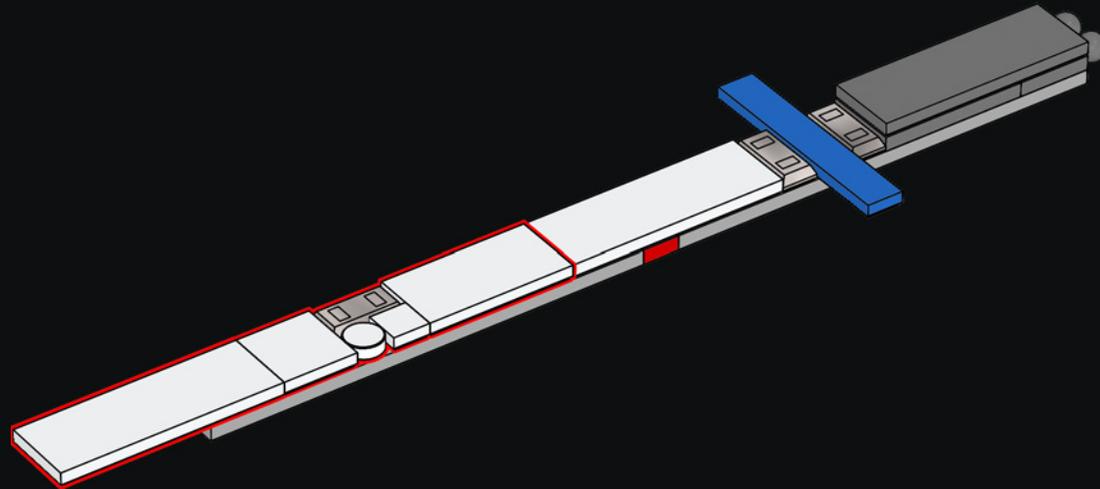


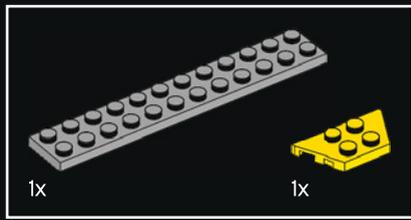


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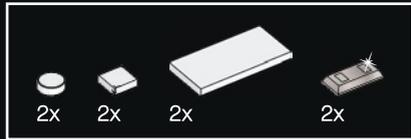
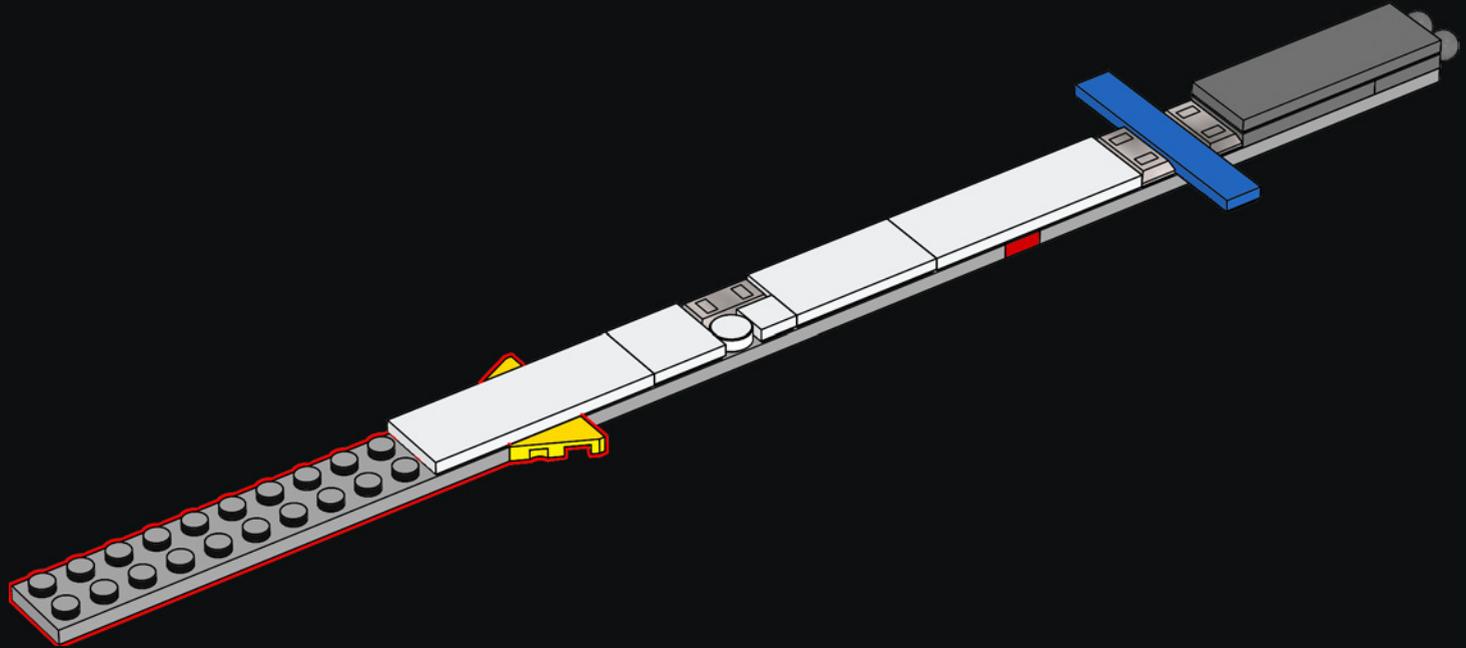


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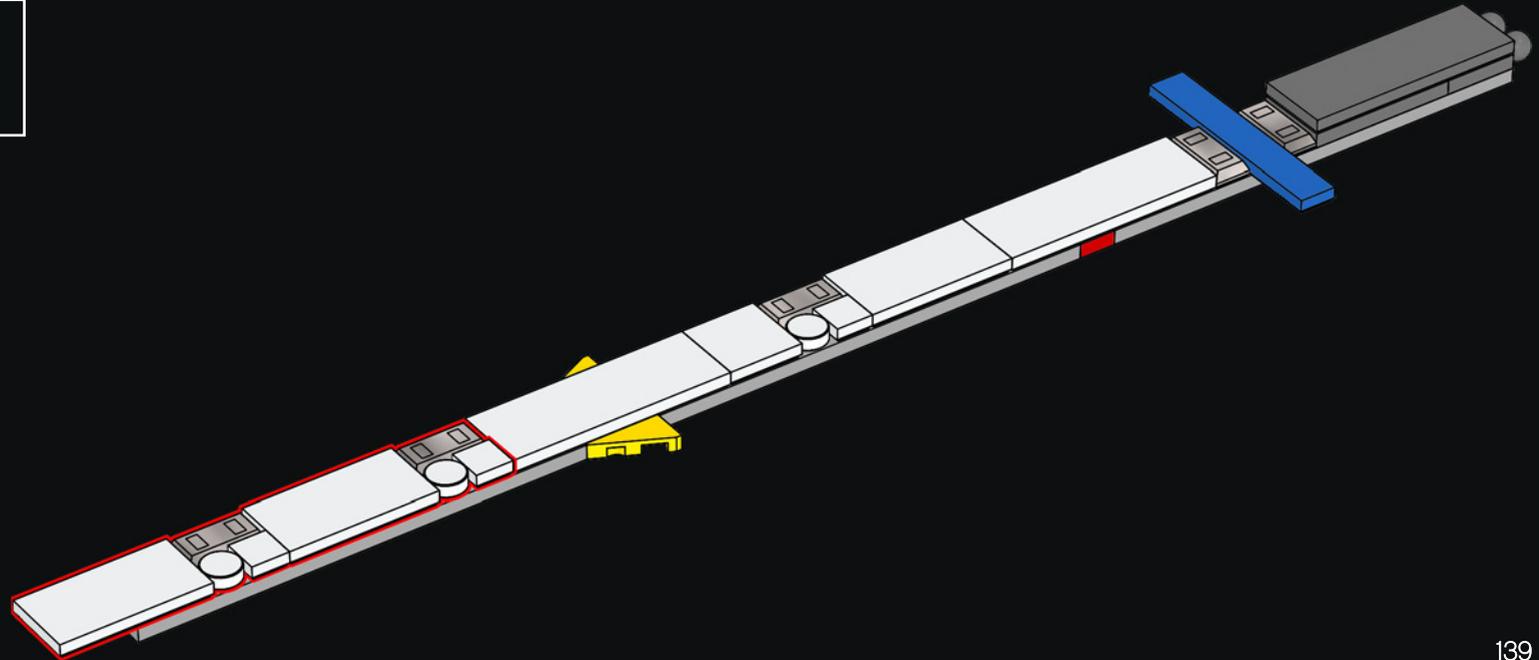


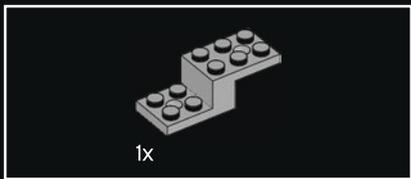


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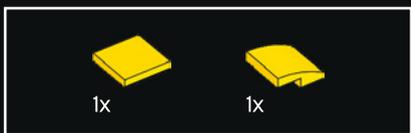
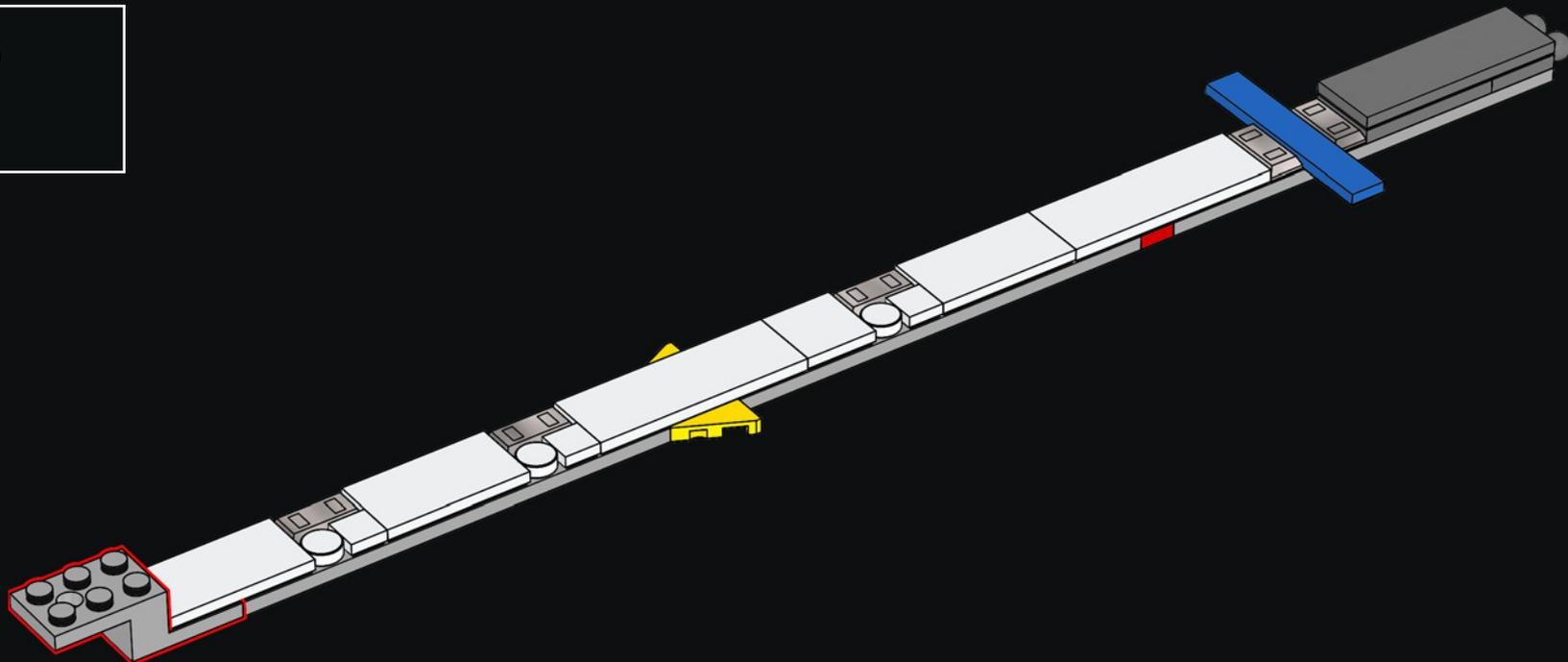


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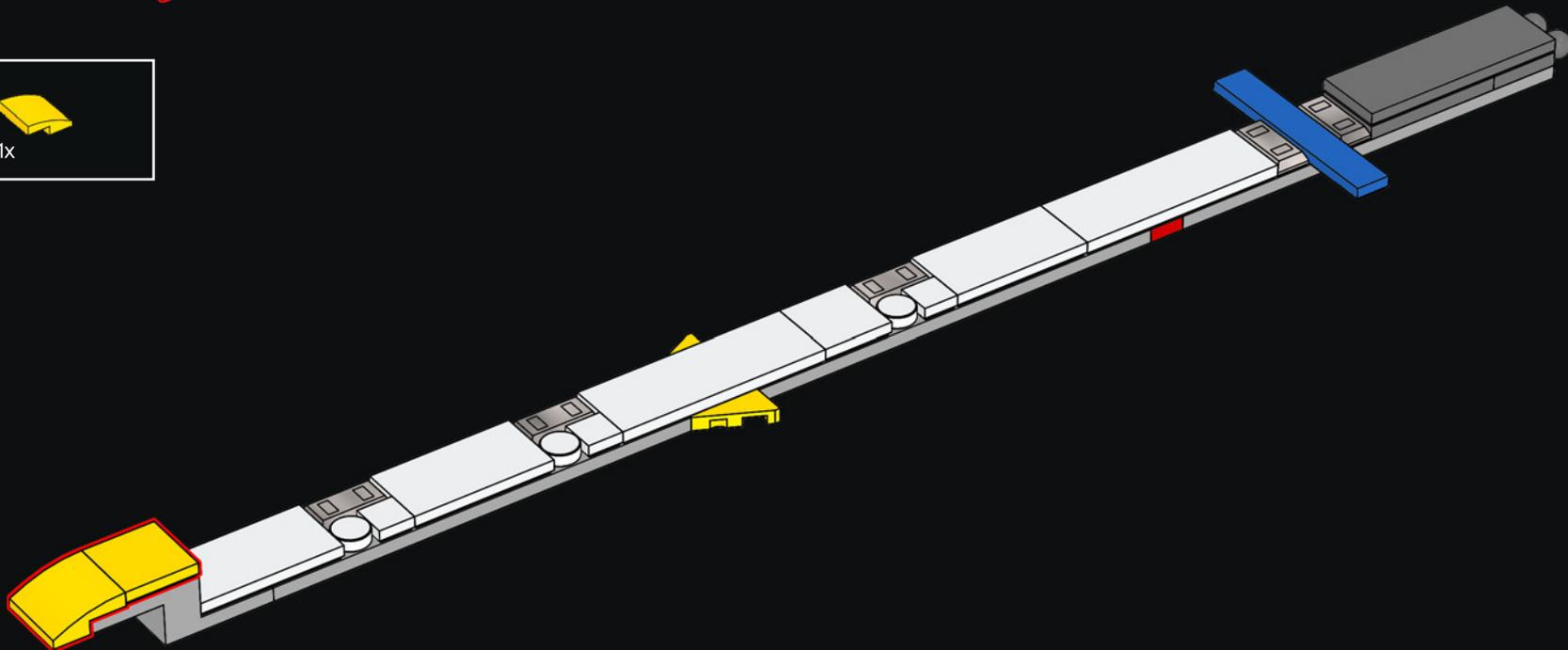


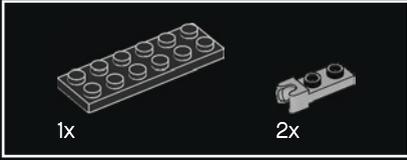
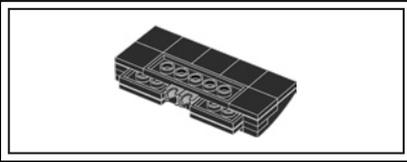


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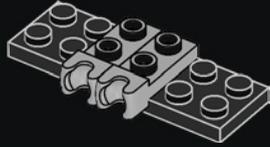


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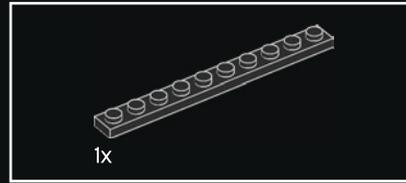
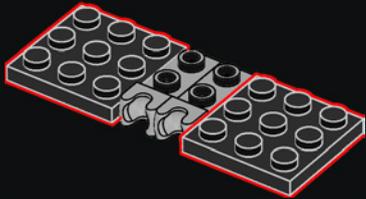




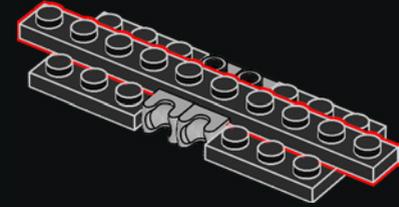
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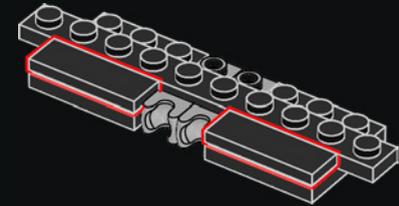
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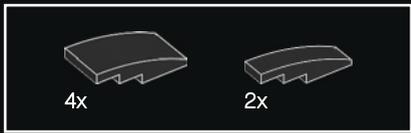


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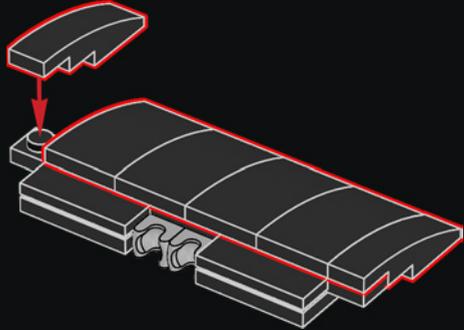


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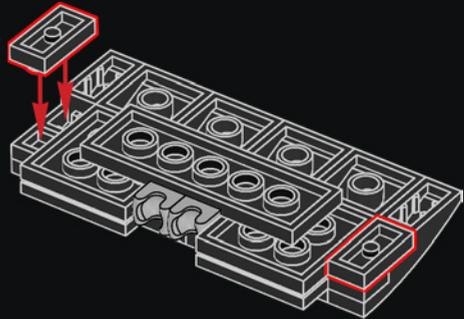




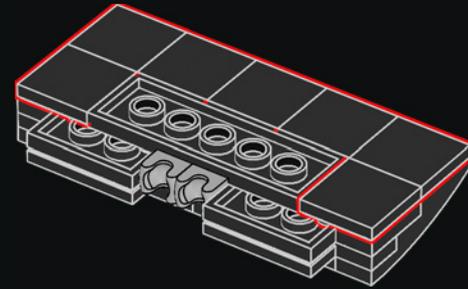
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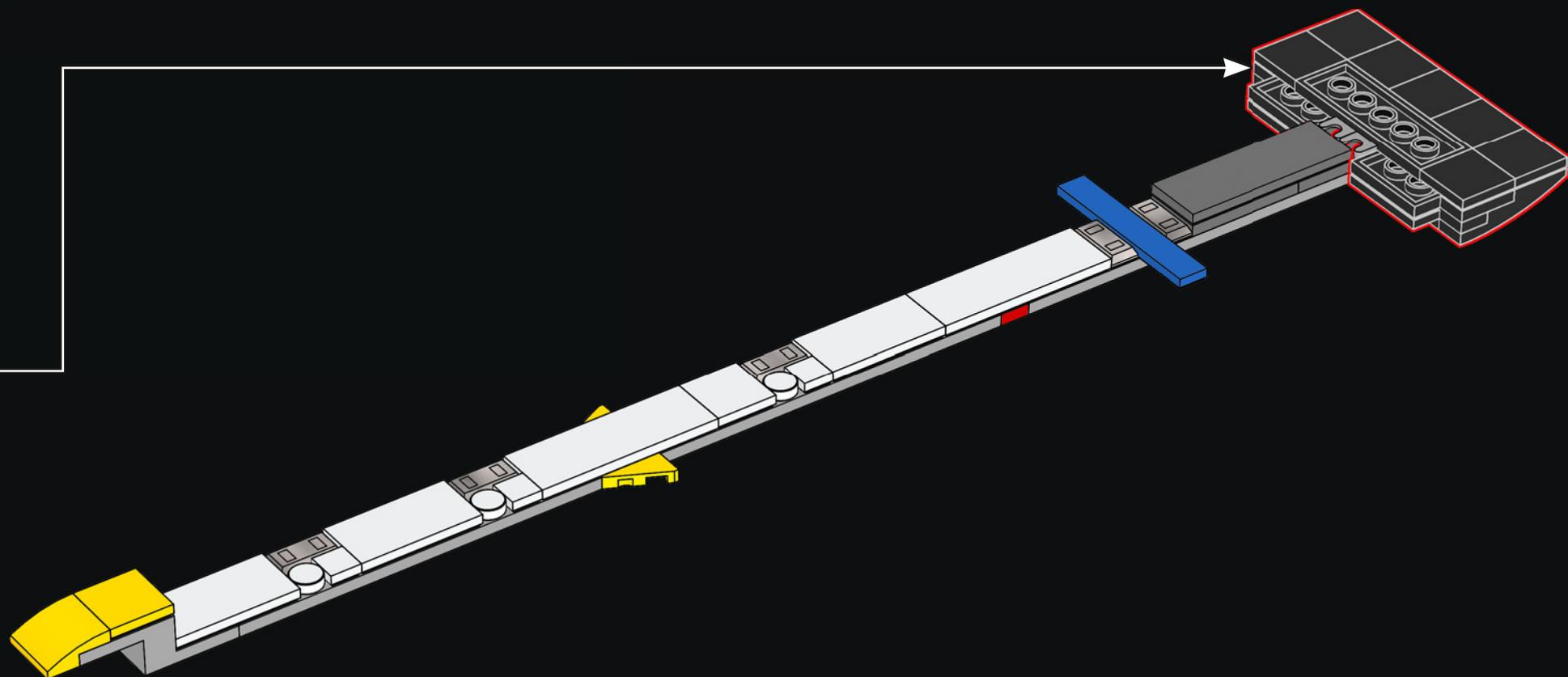
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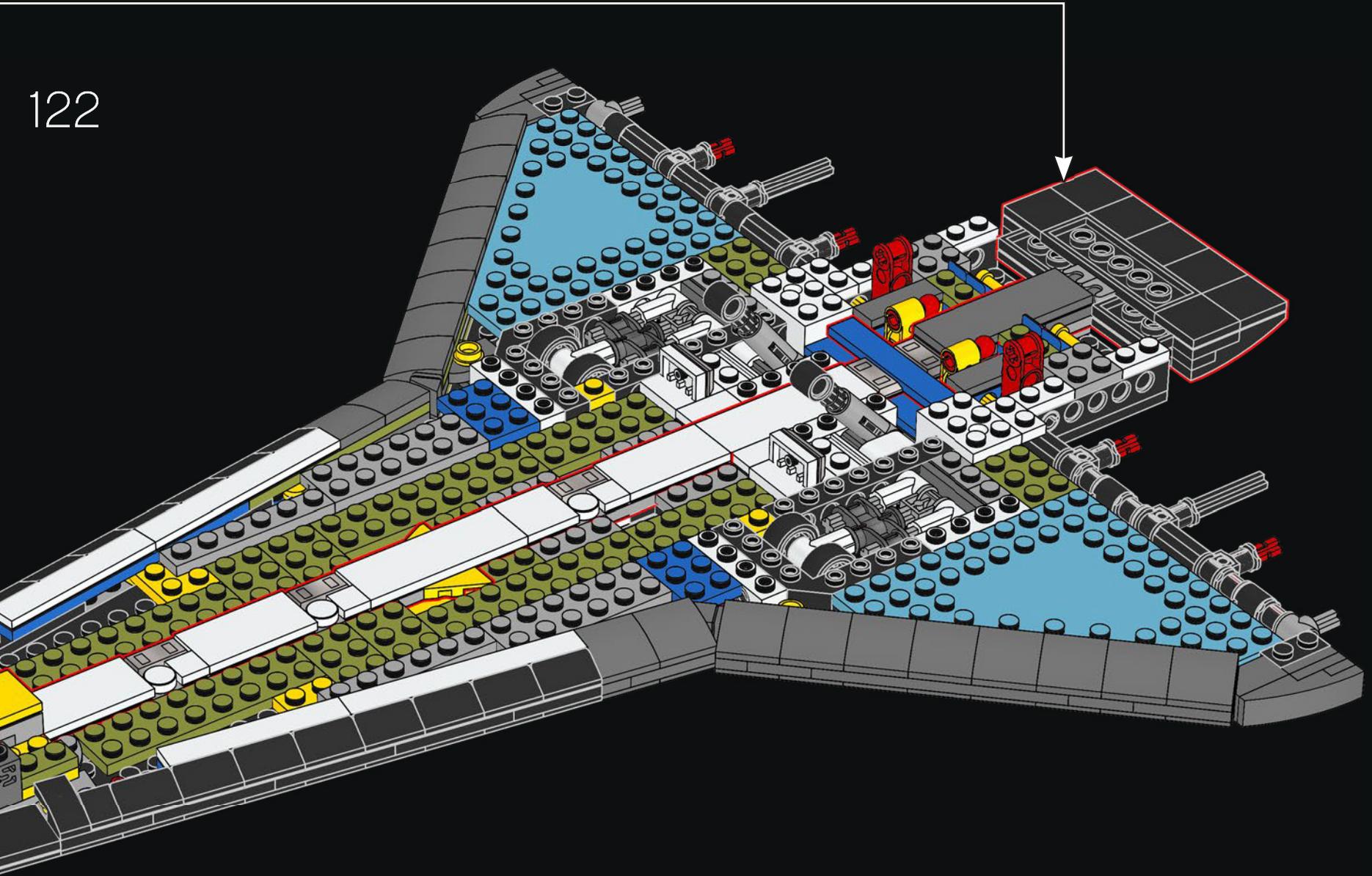
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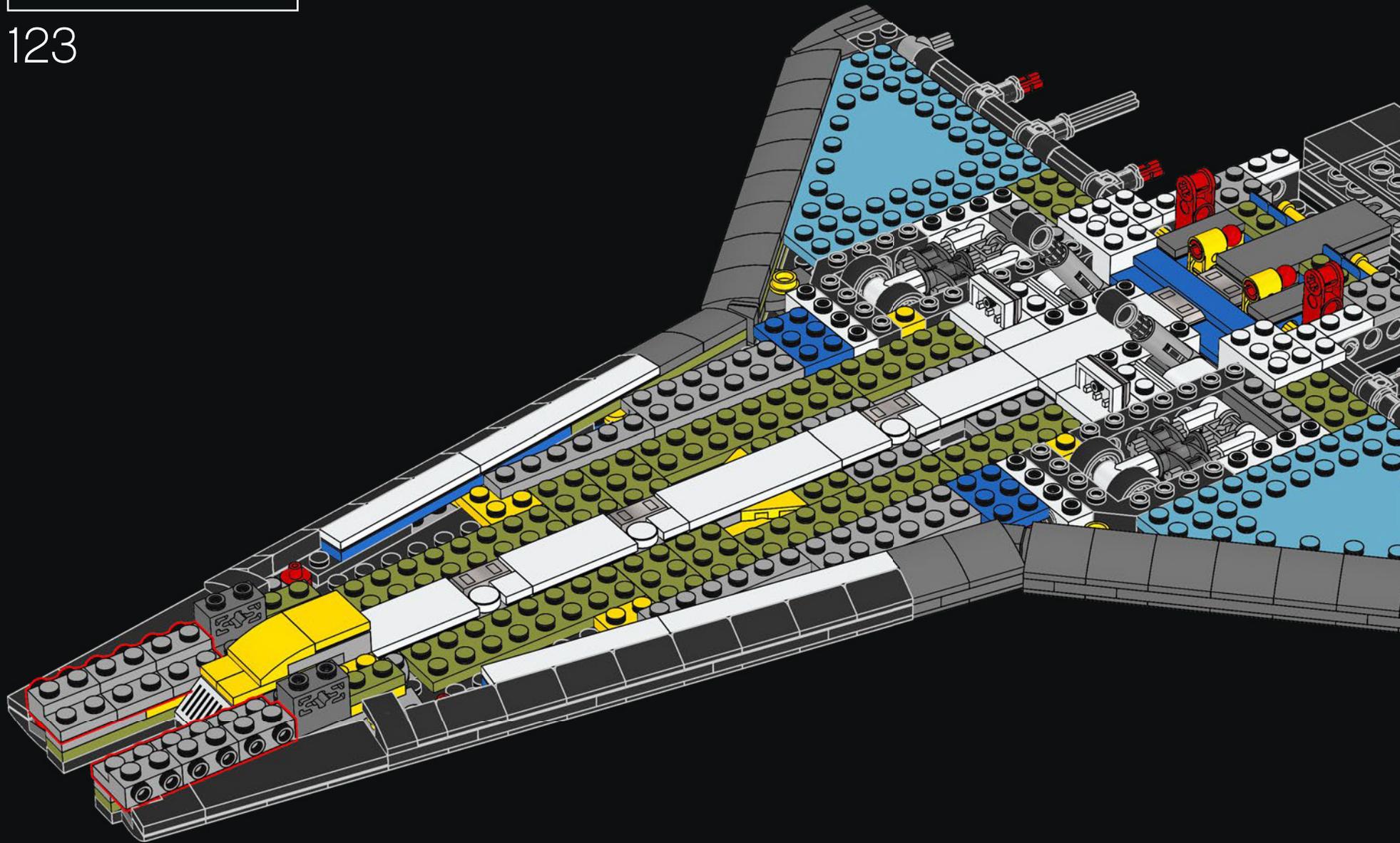


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123





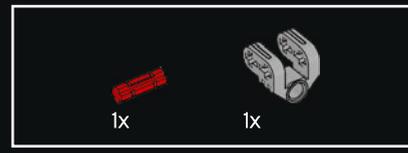
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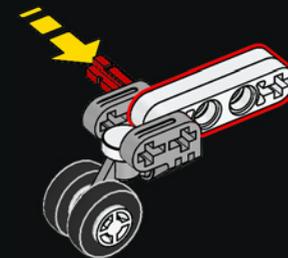
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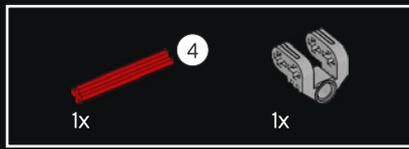


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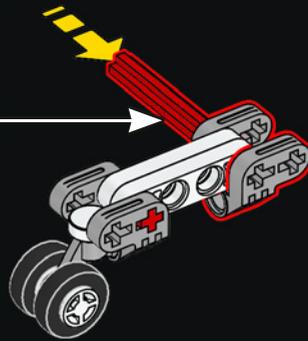
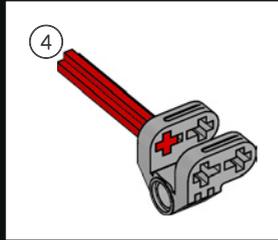


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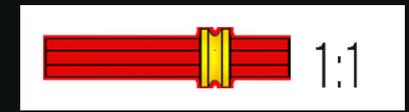
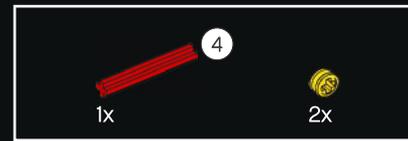
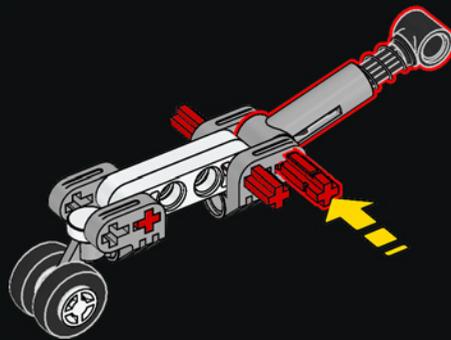




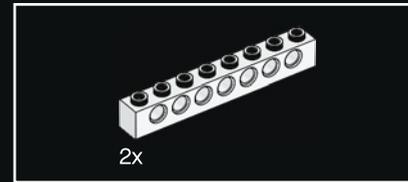
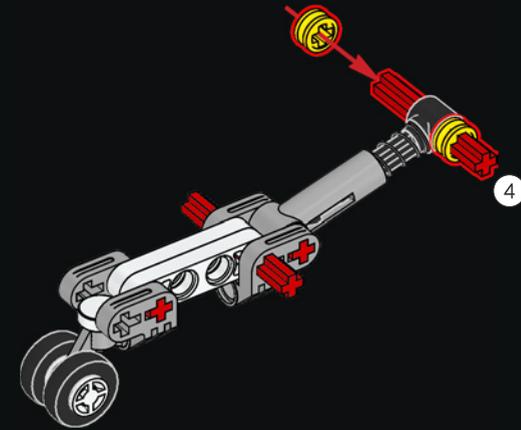
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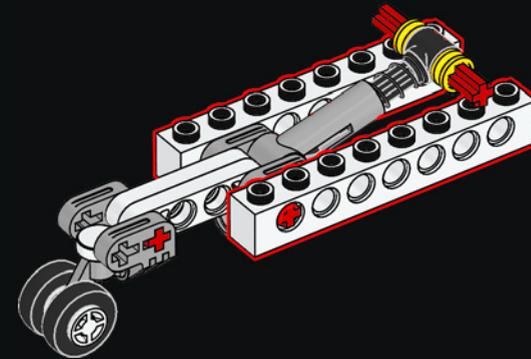
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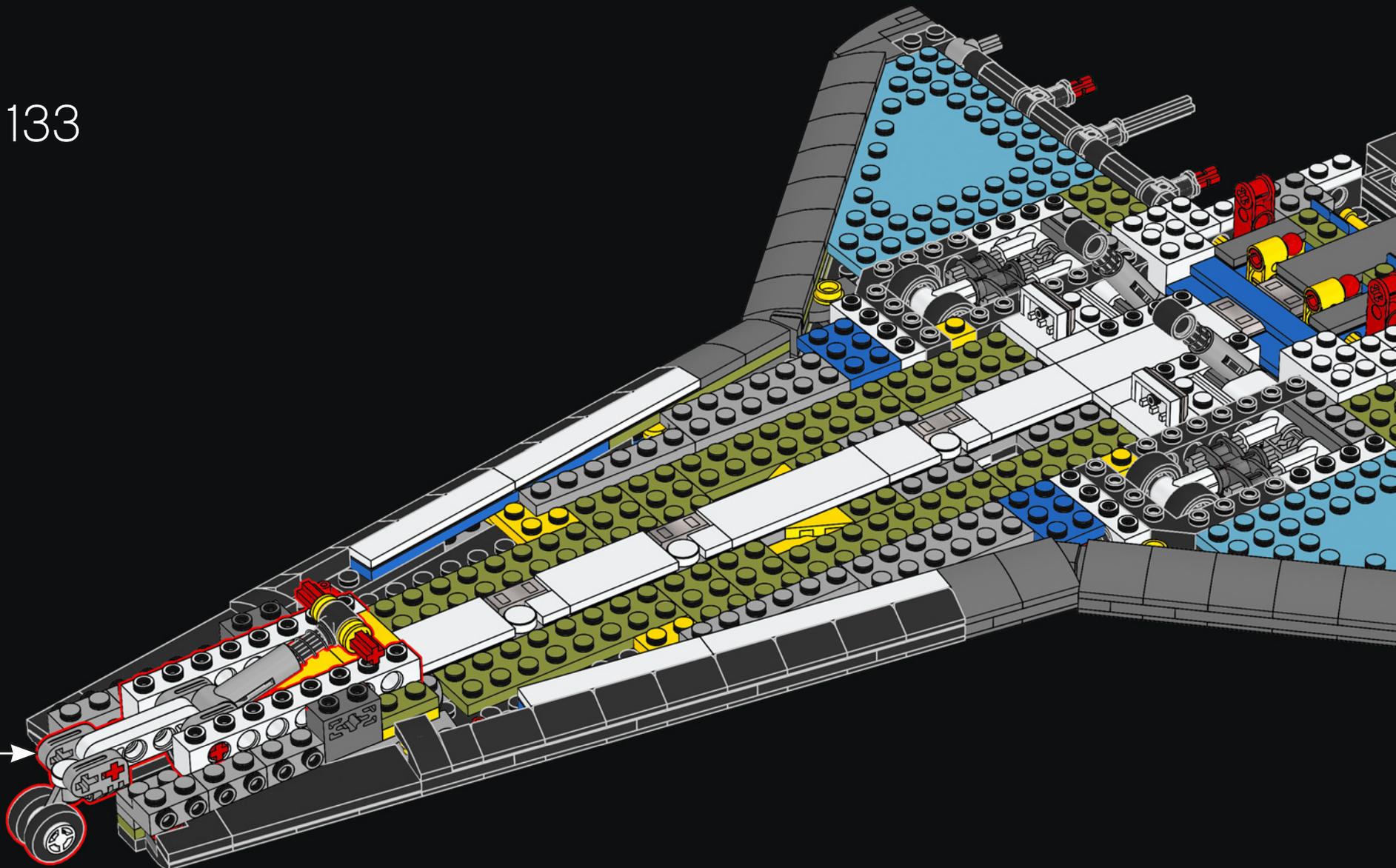
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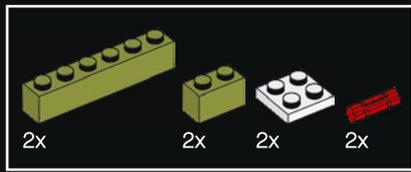


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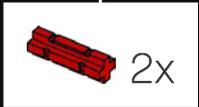
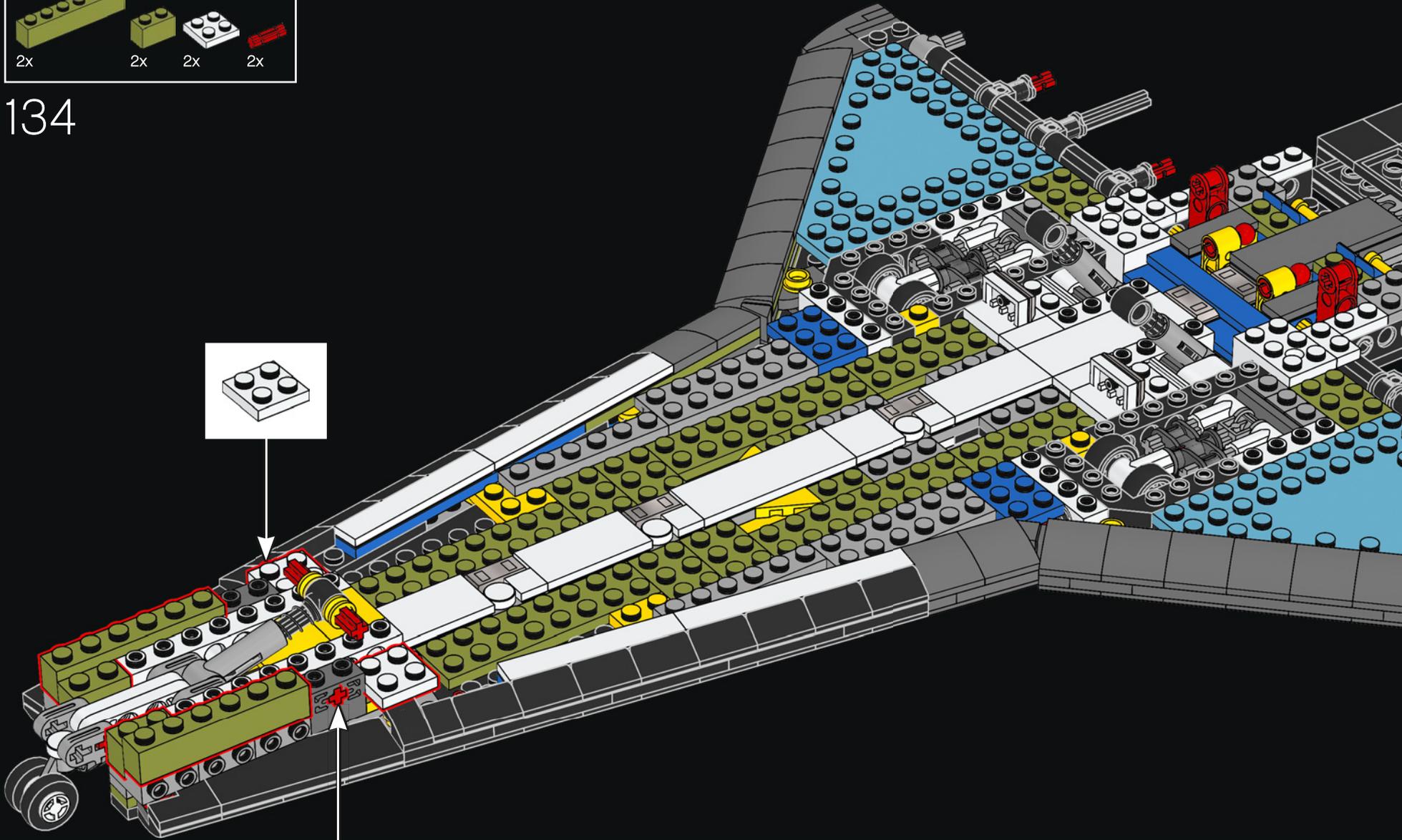


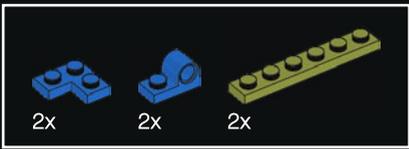
LO SAPEVI?

In qualità di aliante, lo Shuttle aveva una sola possibilità di atterrare. Una volta che il carrello di atterraggio veniva aperto, non poteva essere più retracts.

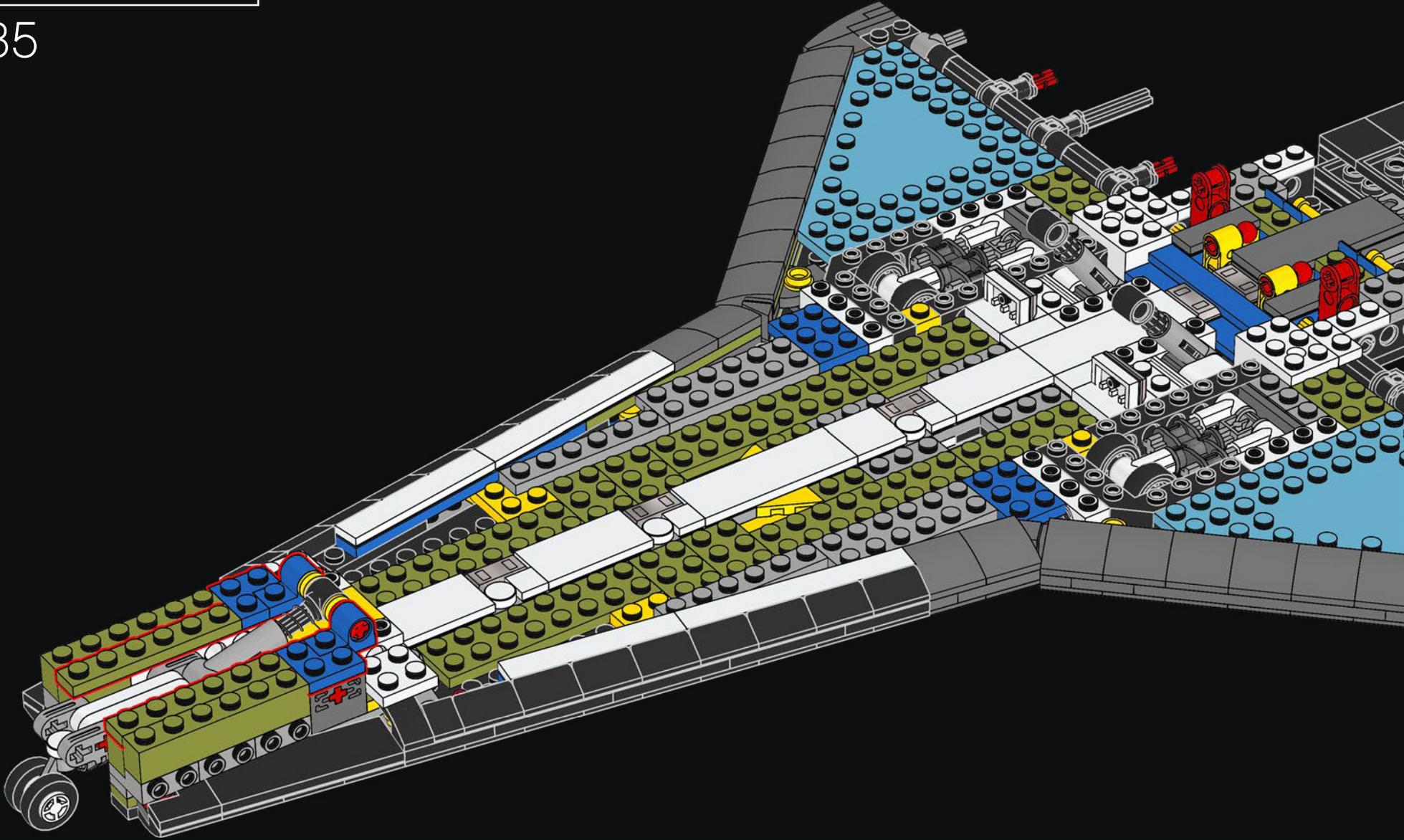


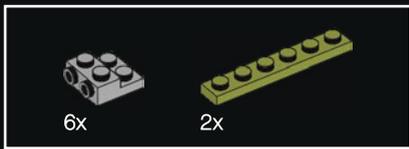
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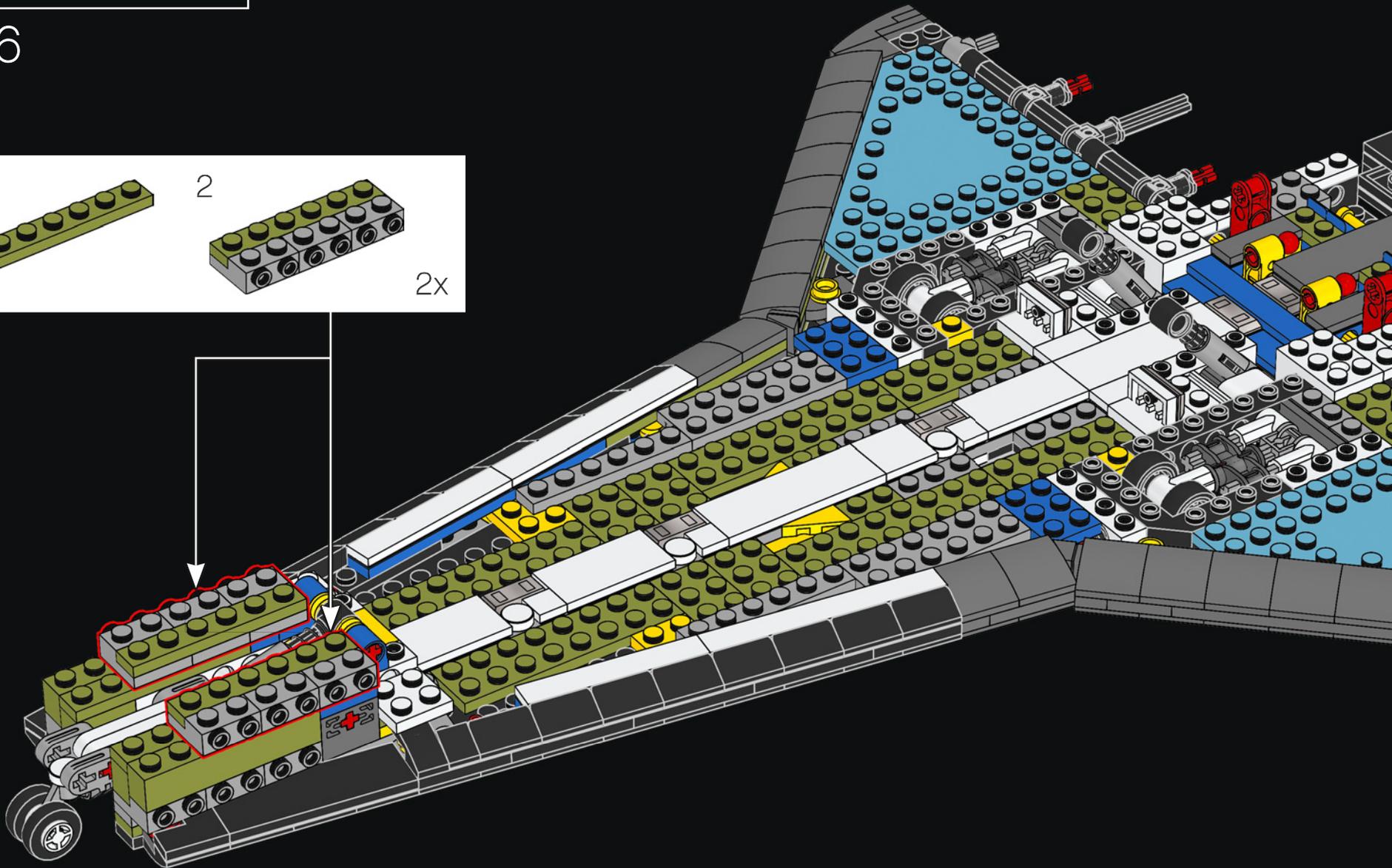
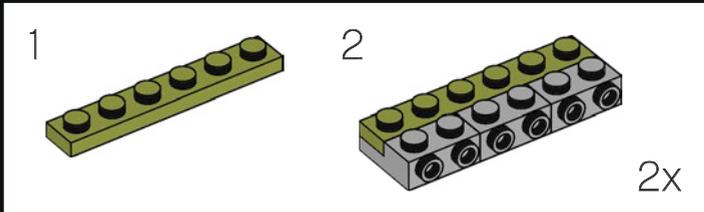


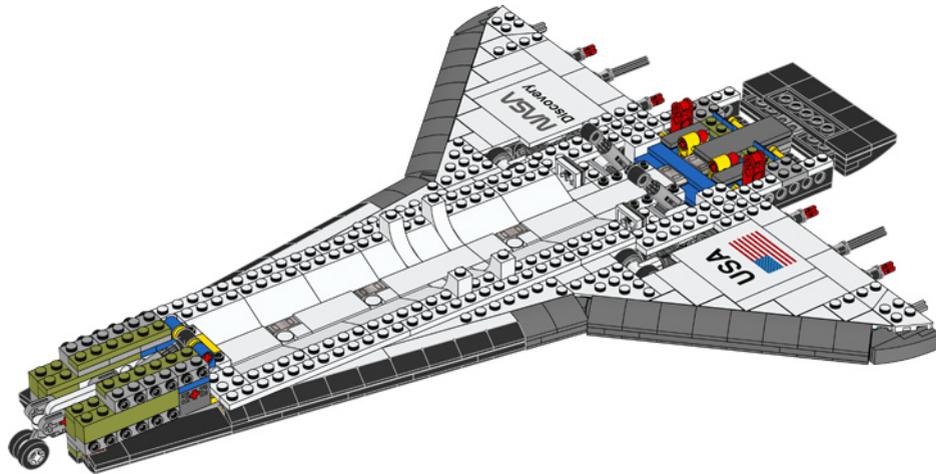
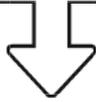
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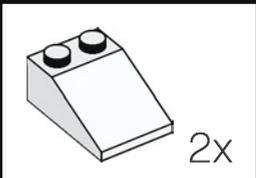
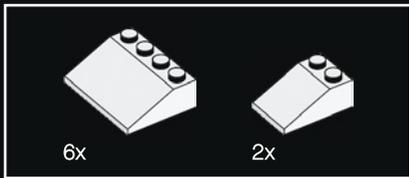




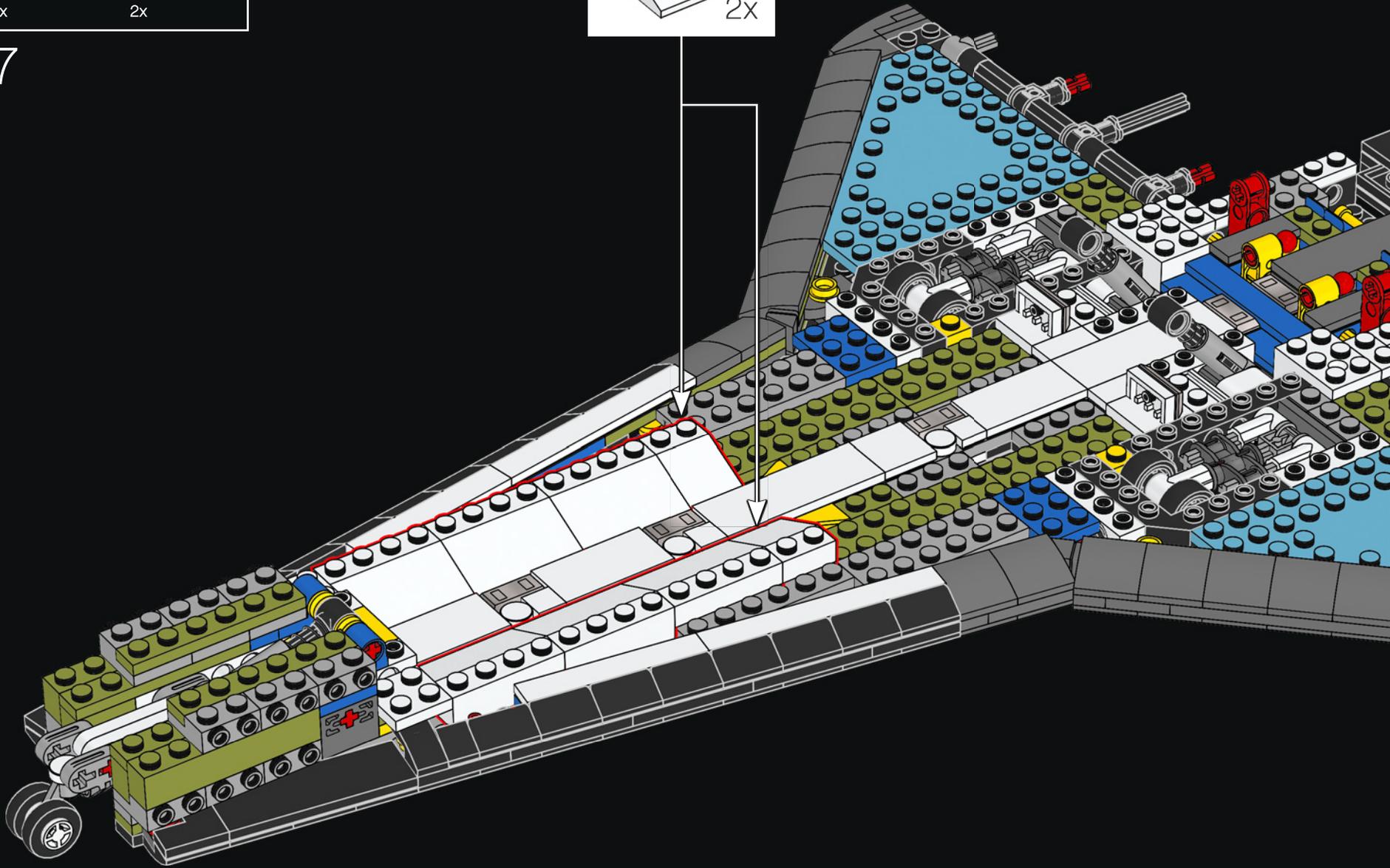
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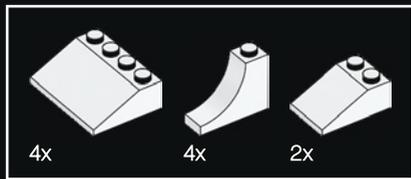




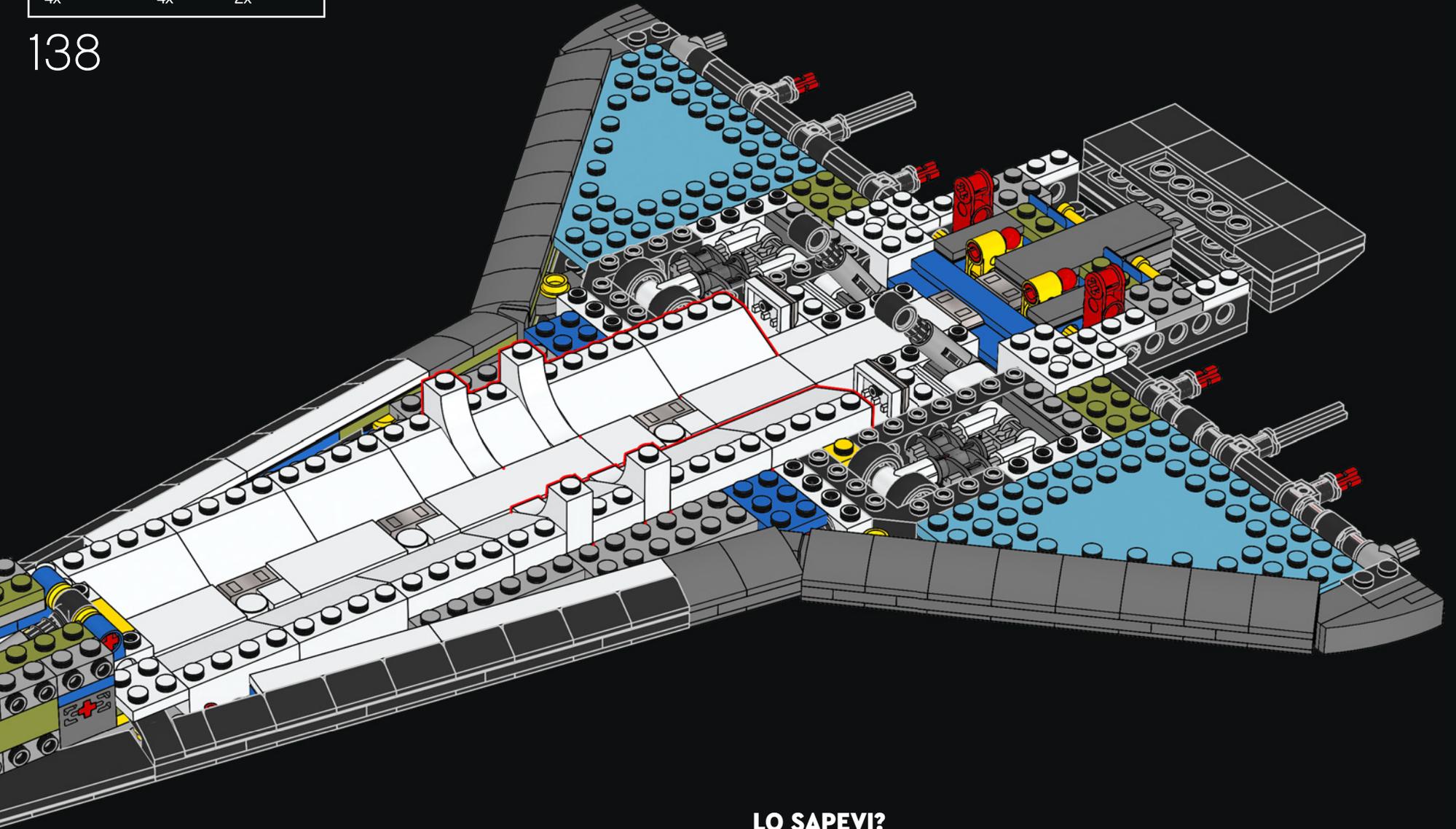


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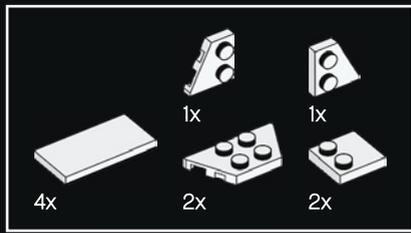


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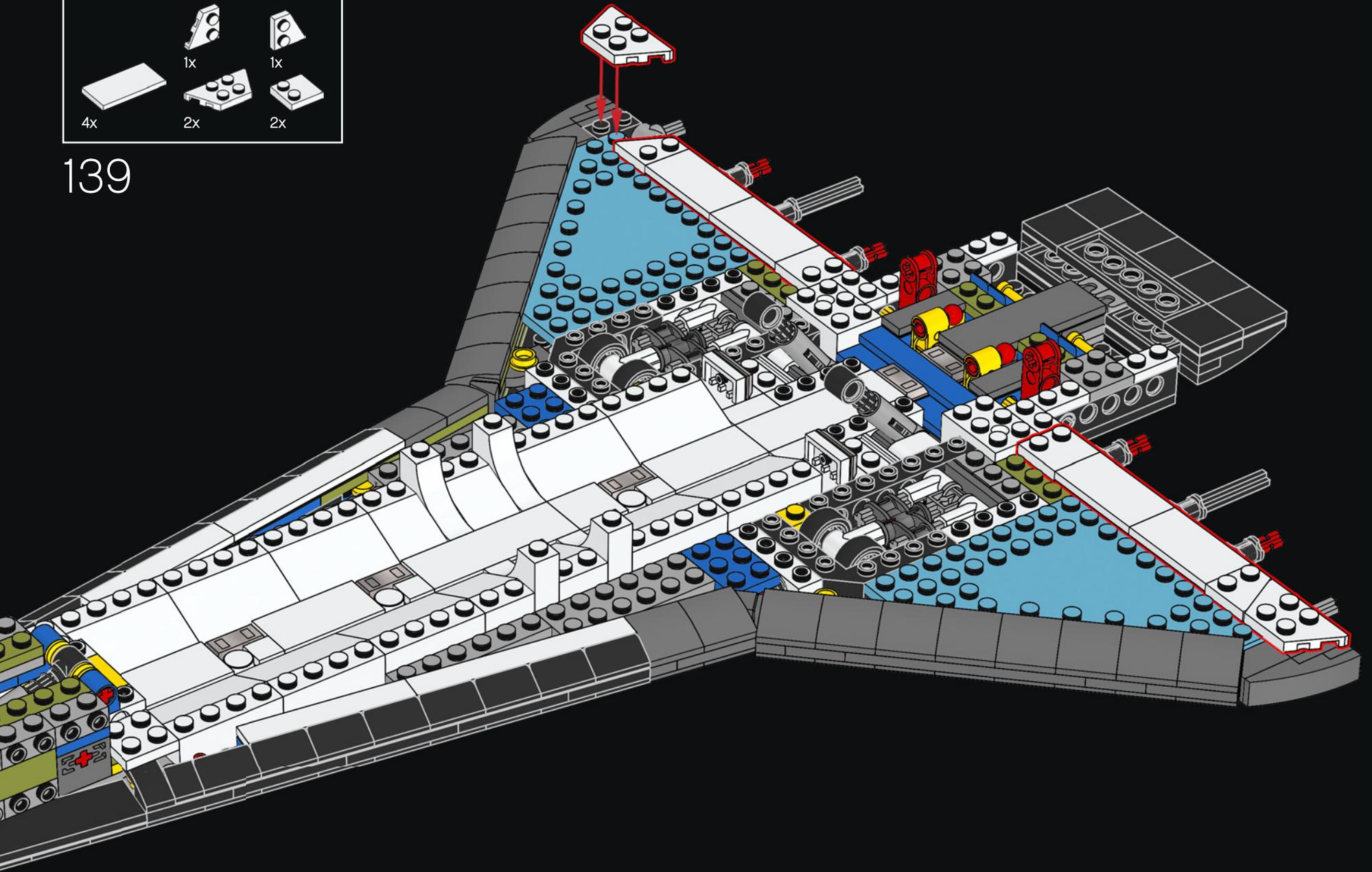


LO SAPEVI?

Quando l'Orbiter entra nell'atmosfera a un Mach di 25, la sua velocità è così alta che surriscalda l'aria circostante e ritorna sulla Terra avvolto da una scarica a bagliore, un tipo di plasma.

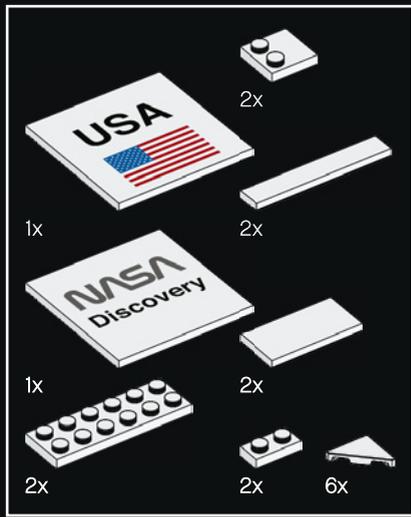


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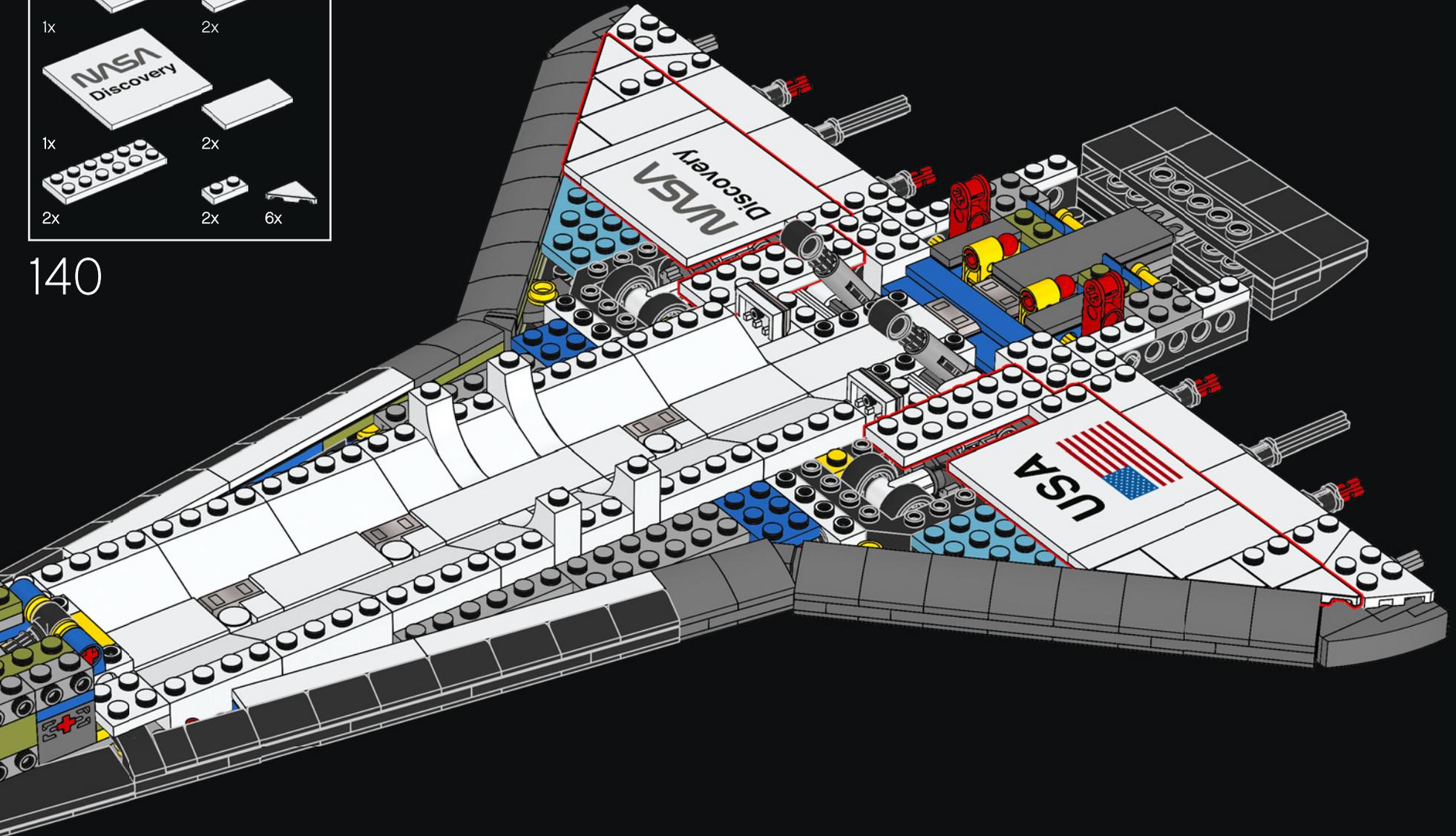


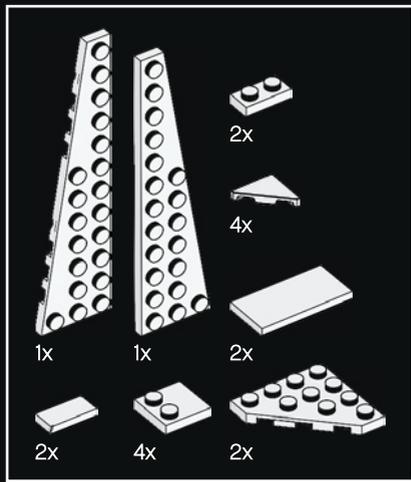
LO SAPEVI?

Lo Space Shuttle Discovery è rivestito da circa 23.000 piastrelle isolanti in ceramica, per proteggere il veicolo dal calore intenso del rientro nell'atmosfera terrestre.

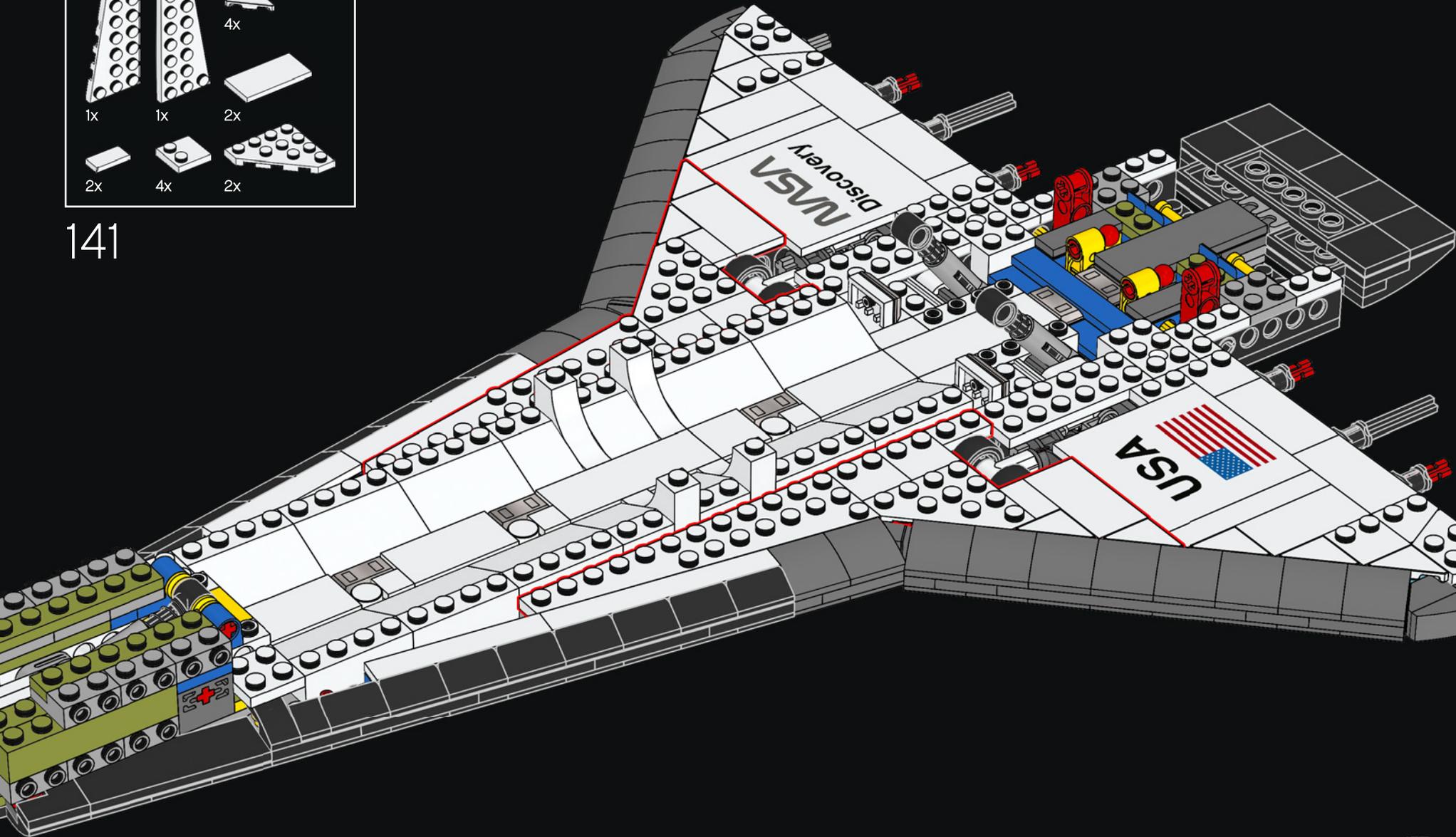


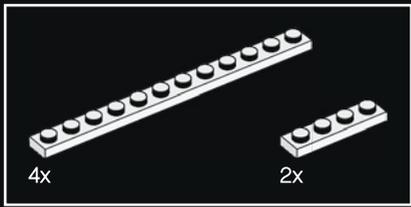
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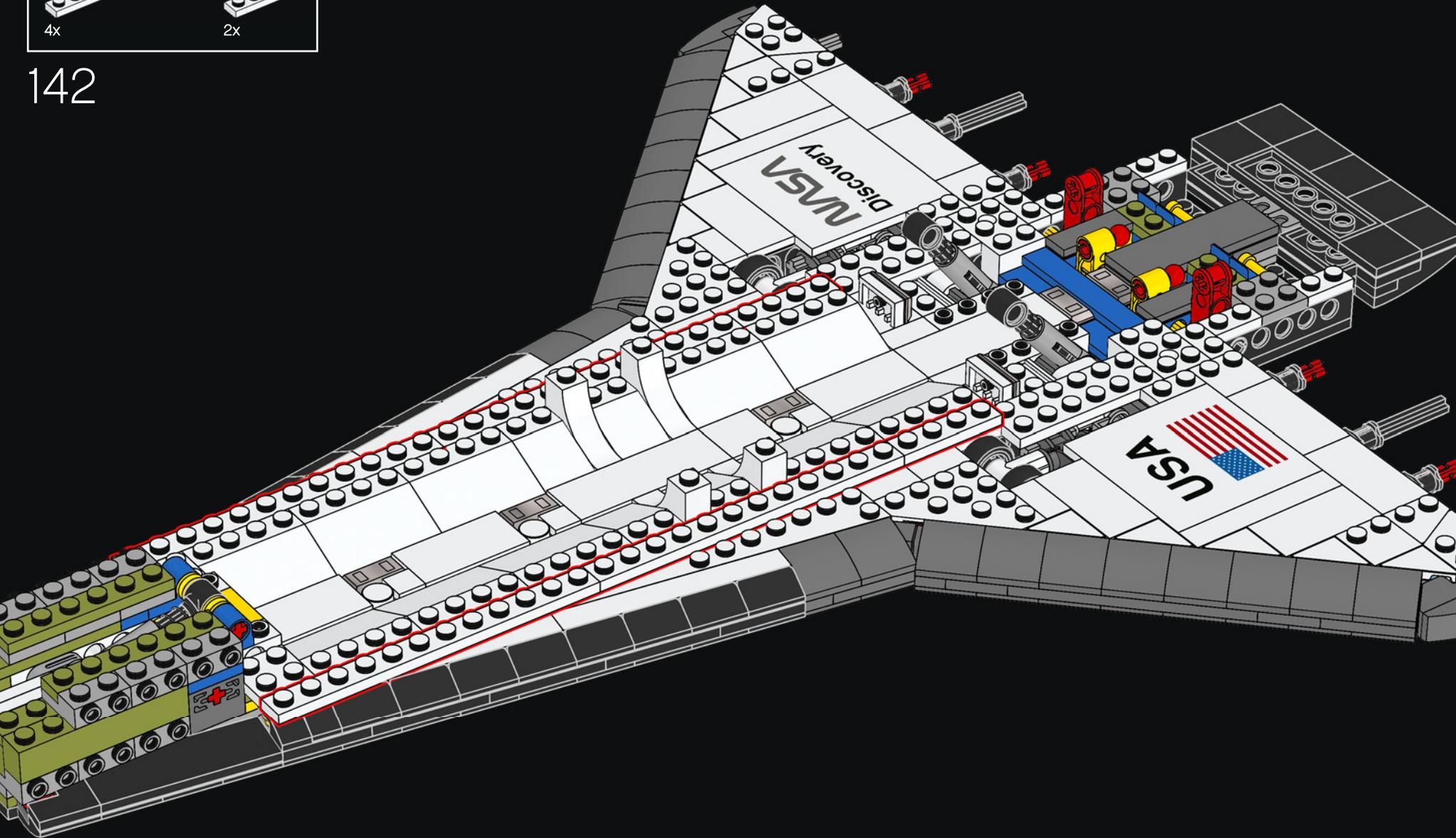


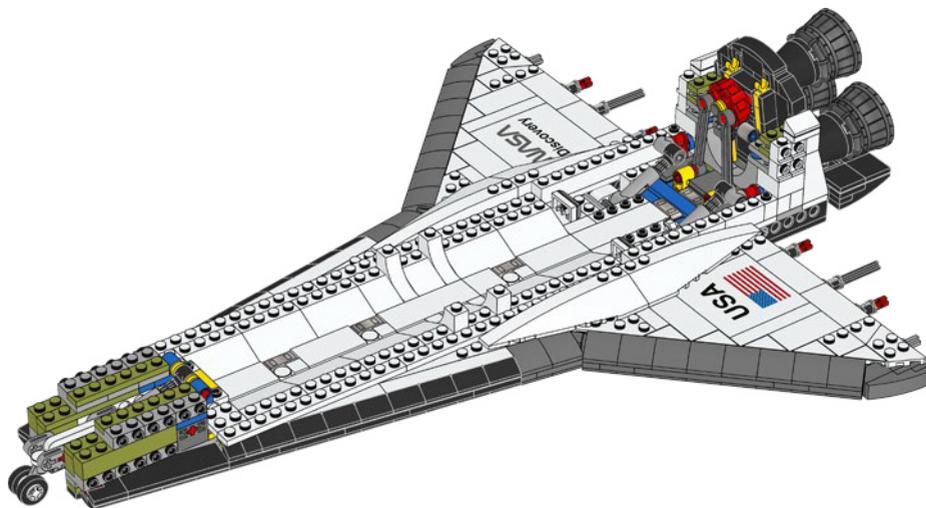
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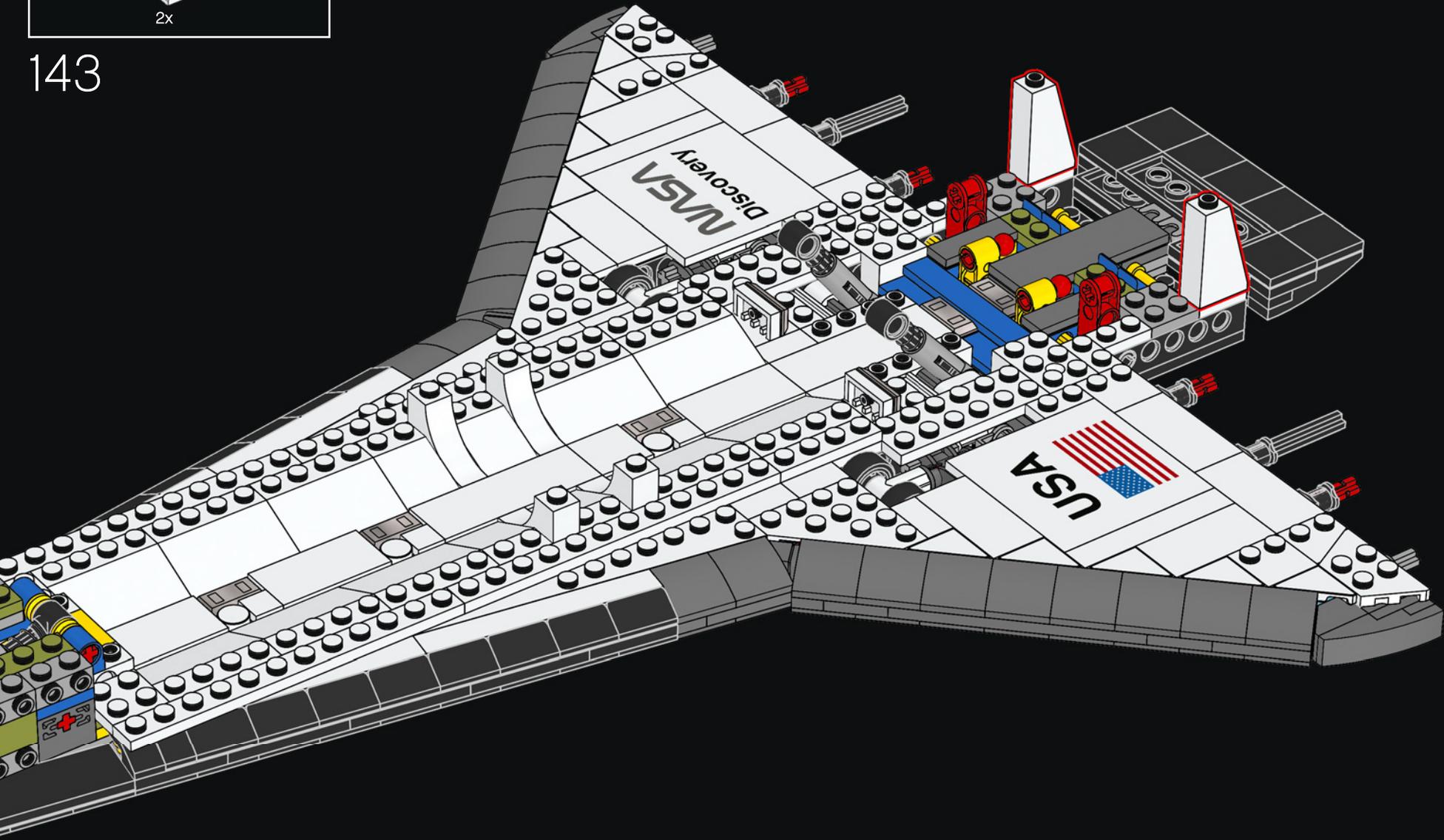






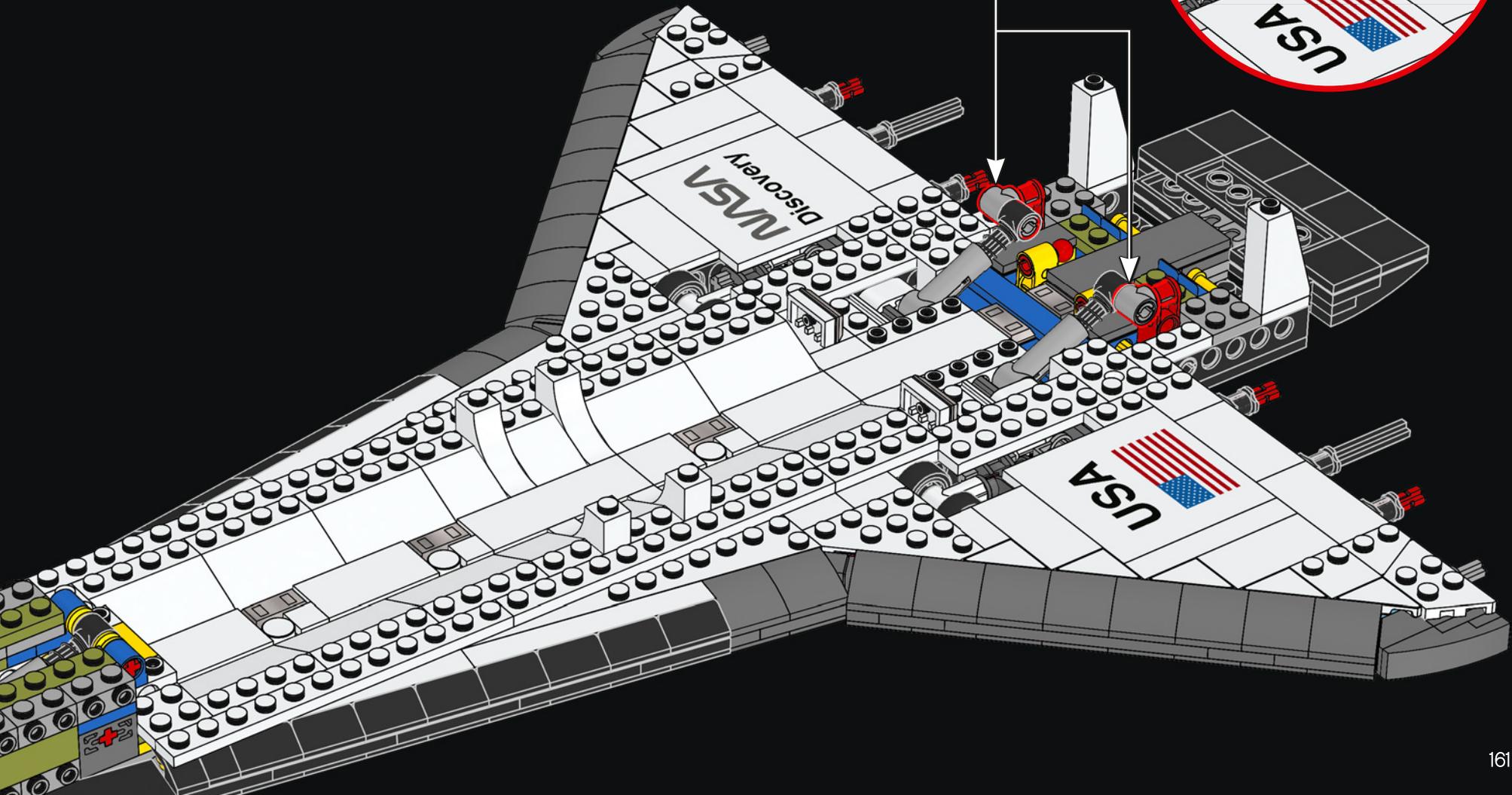
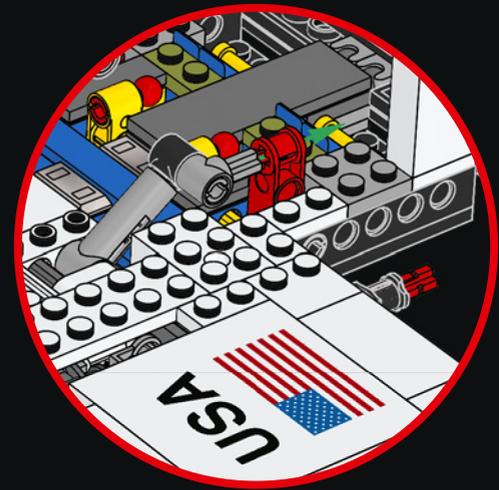
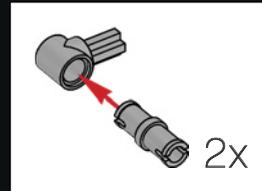
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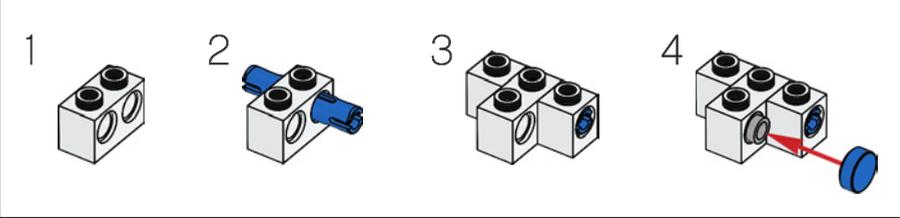
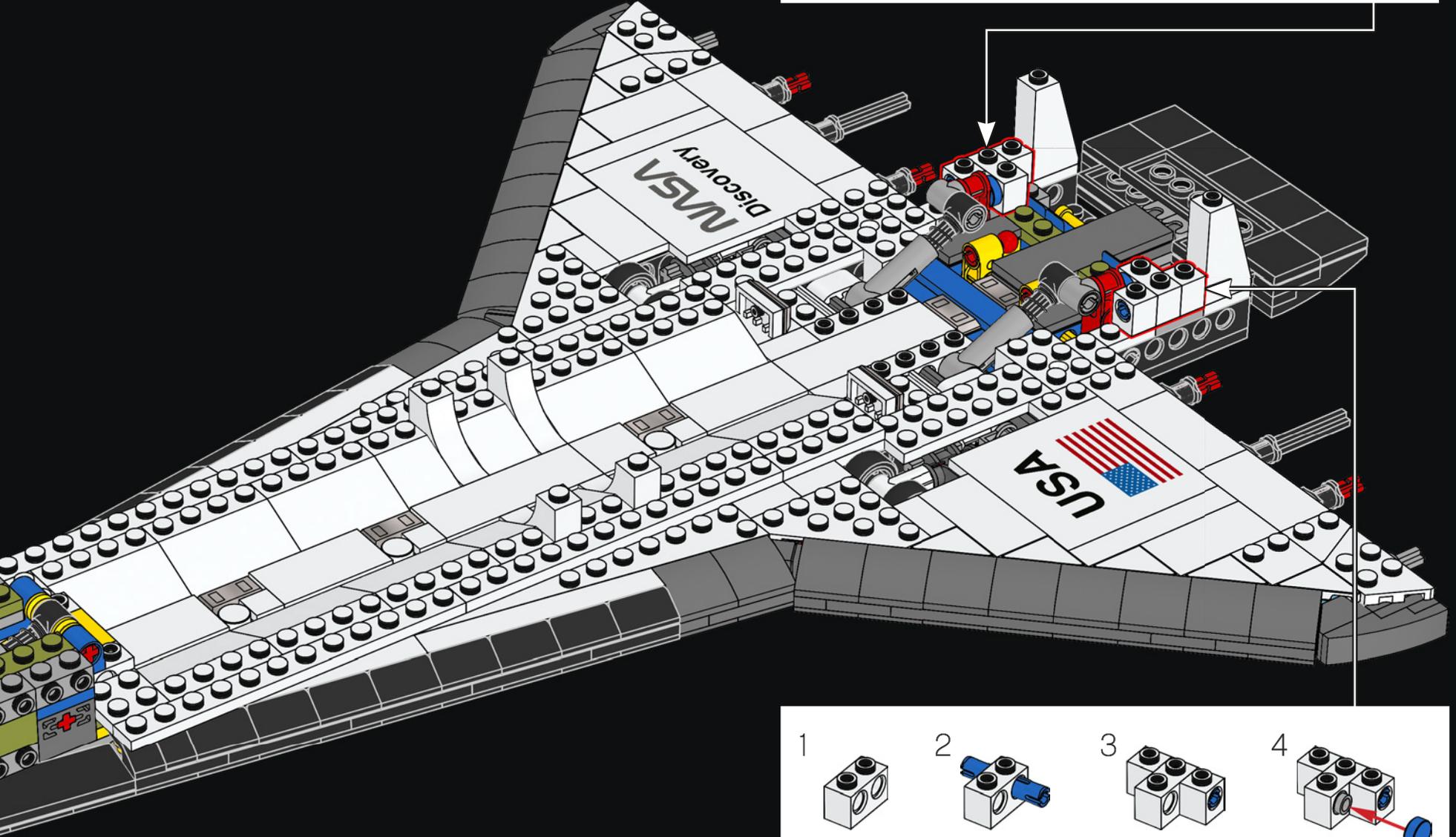
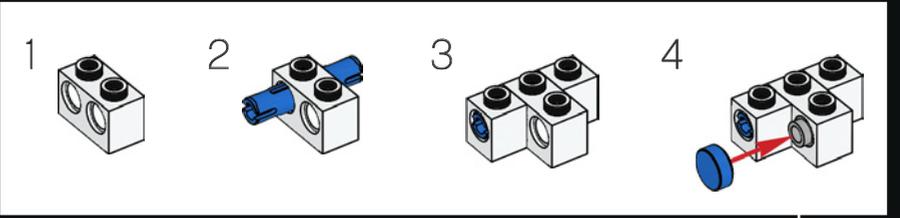


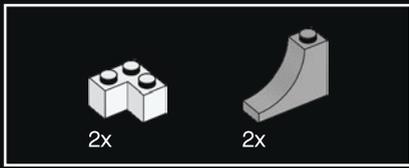
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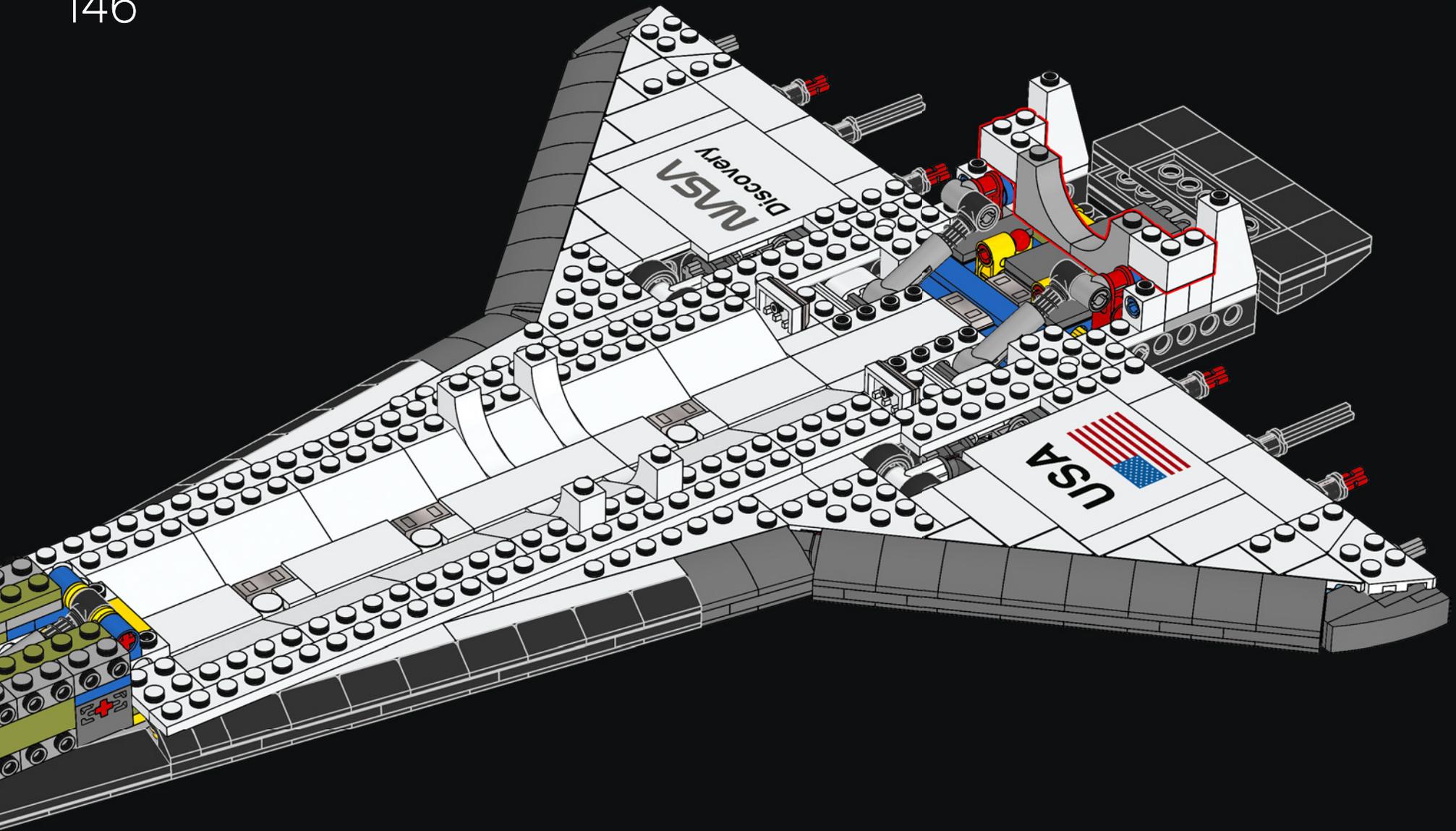


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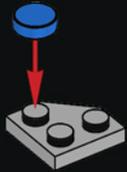


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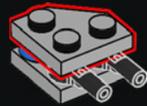
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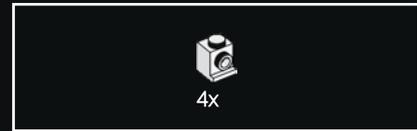
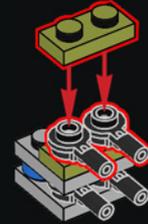
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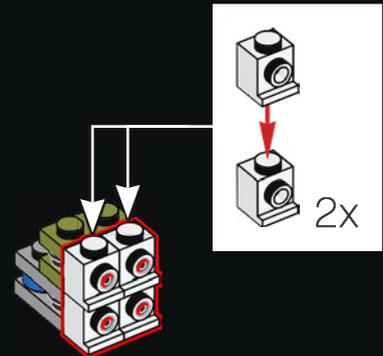
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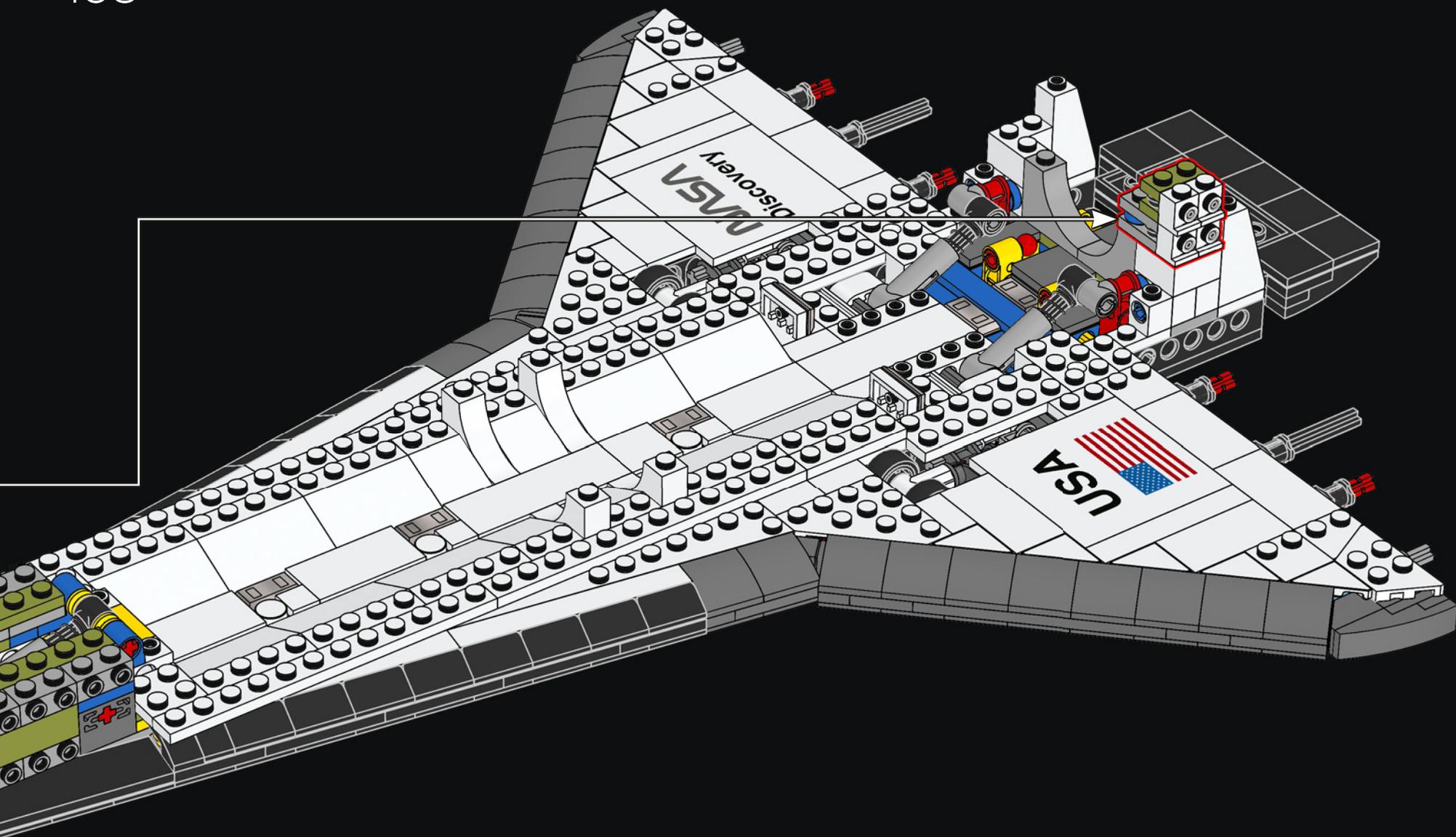


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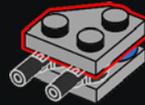
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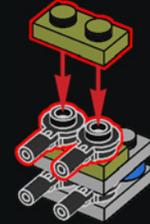
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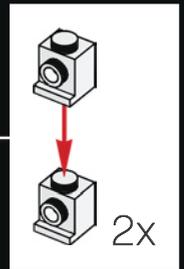
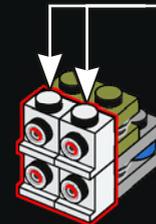
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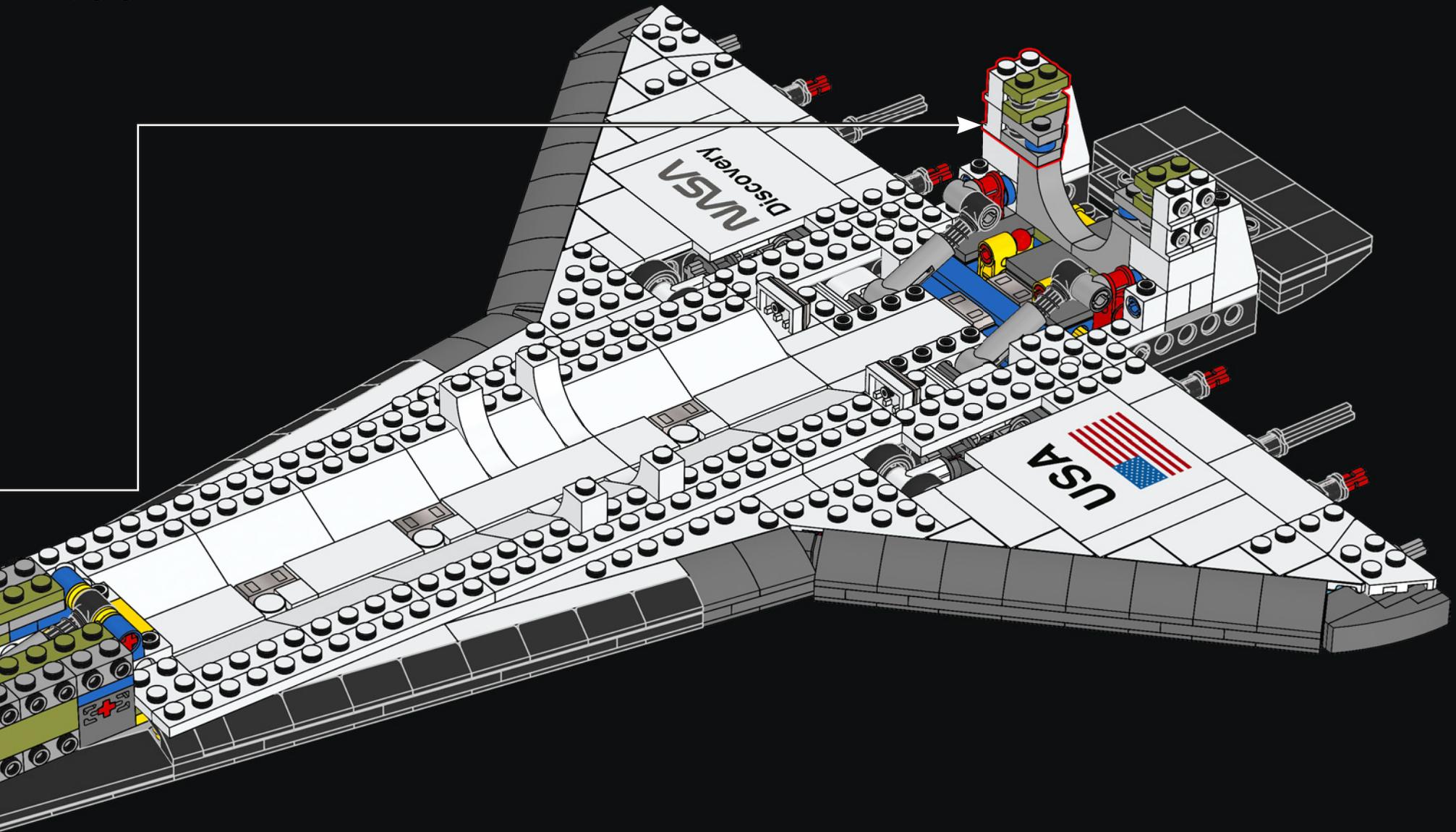


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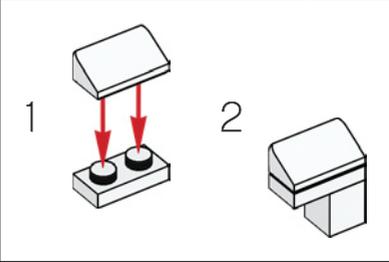
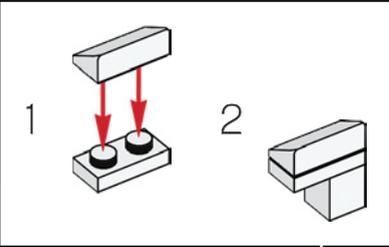
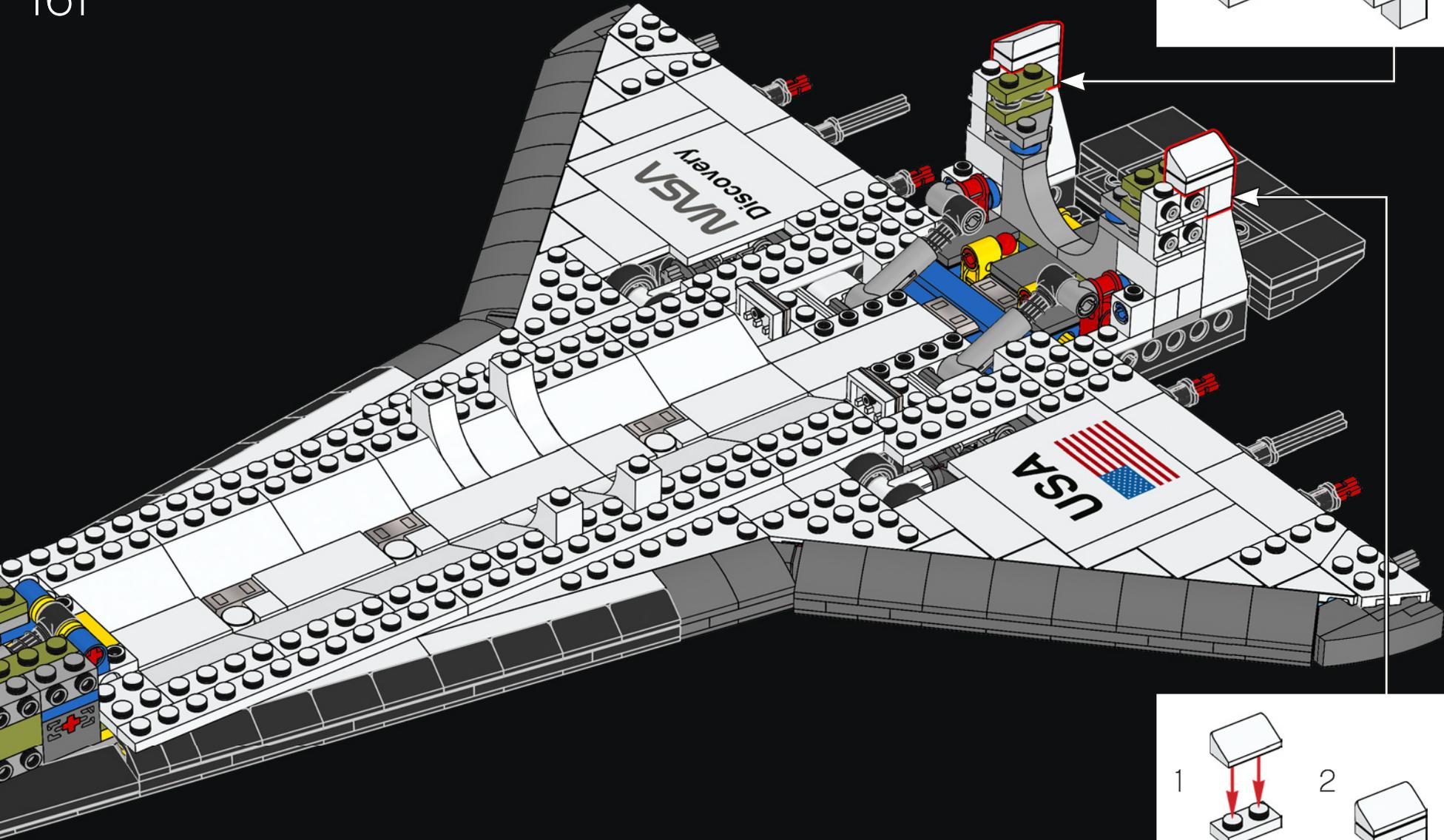
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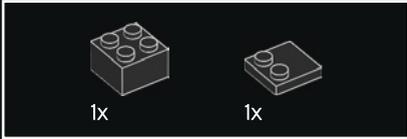
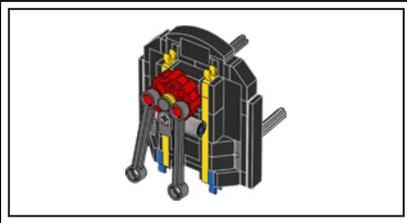




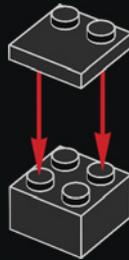


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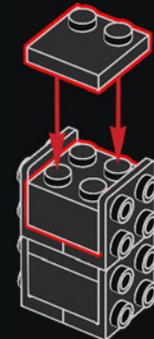
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165





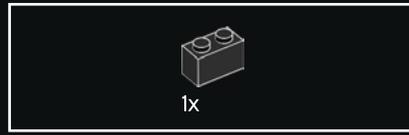
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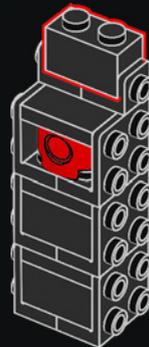
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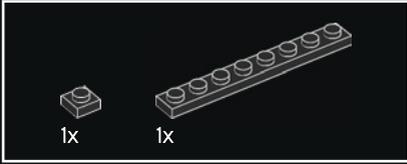
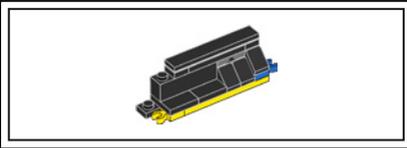


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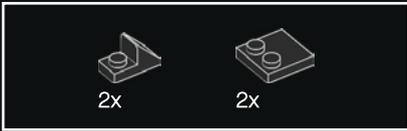
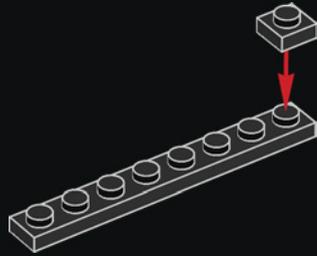


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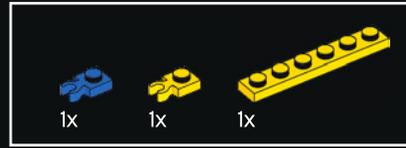
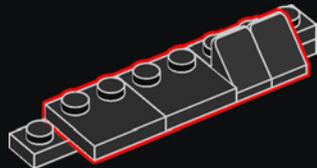




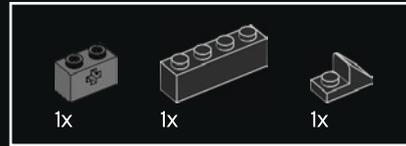
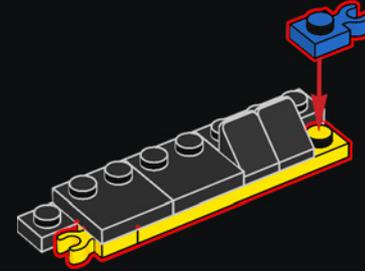
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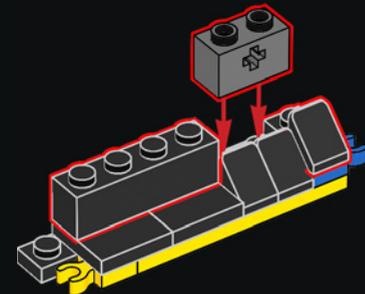
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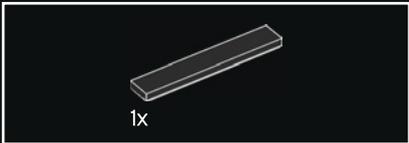
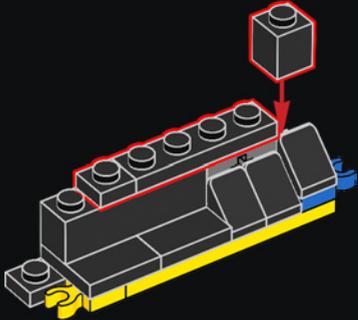


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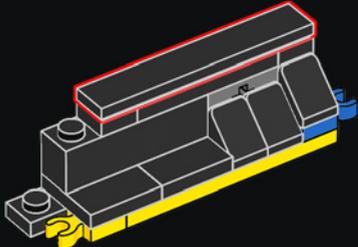




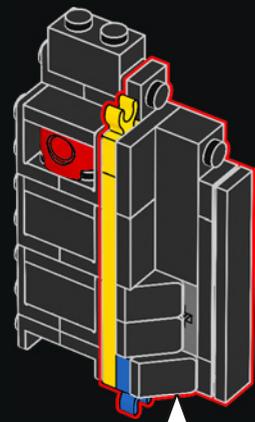
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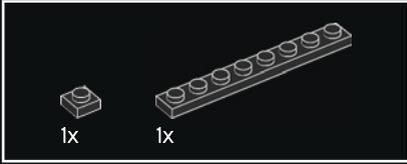
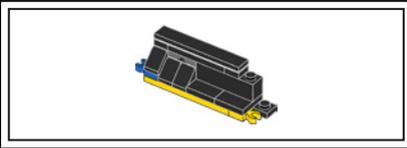


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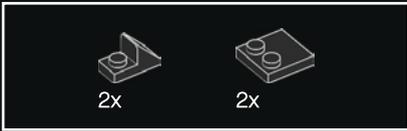
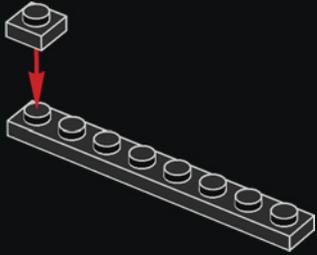


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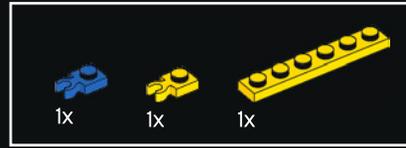
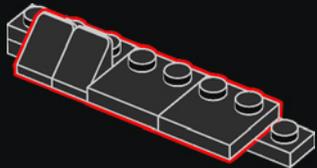




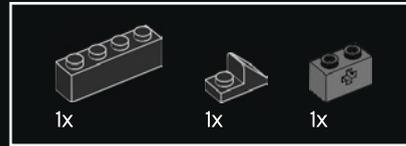
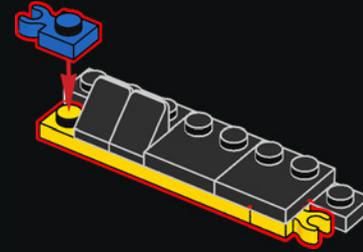
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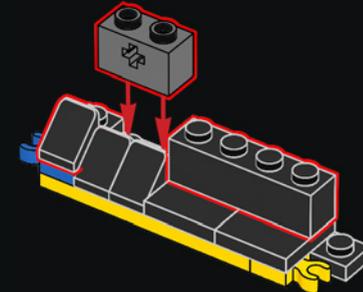
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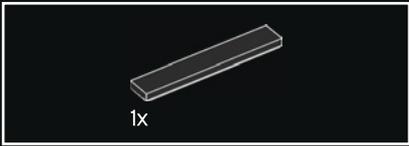
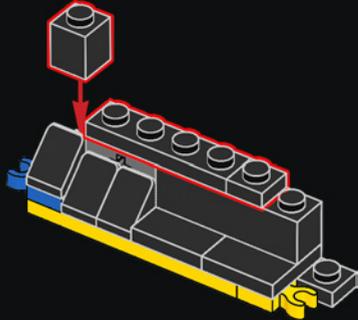


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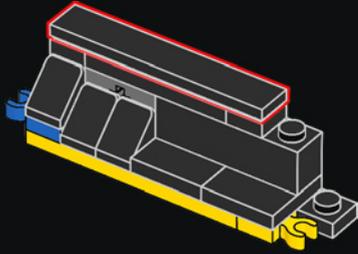




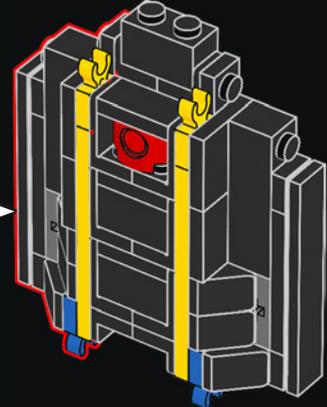
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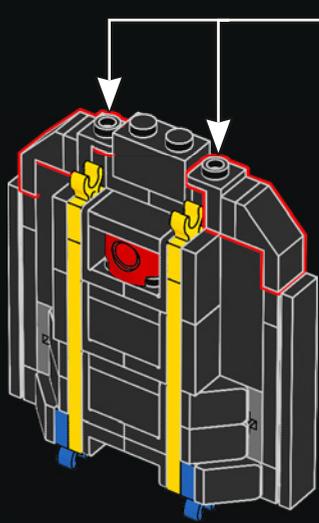
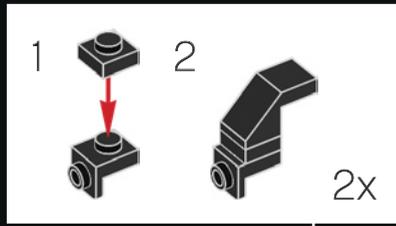


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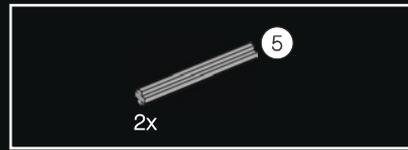
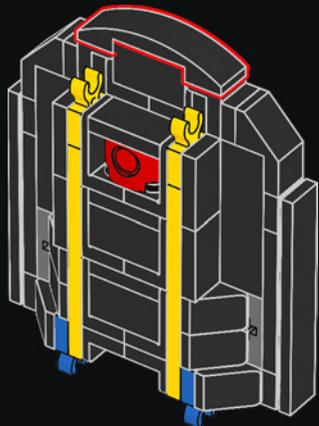




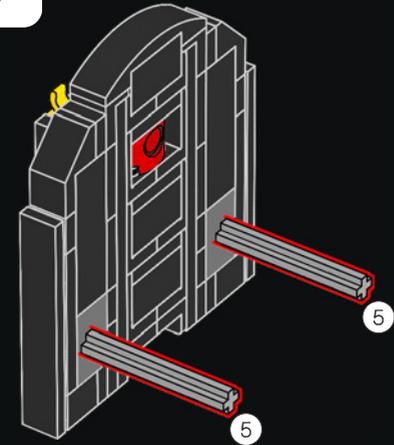
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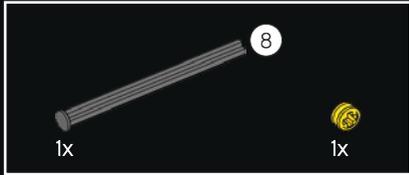
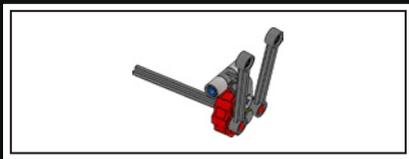


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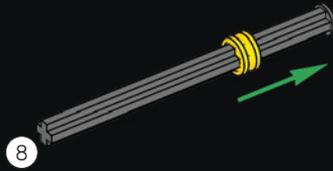


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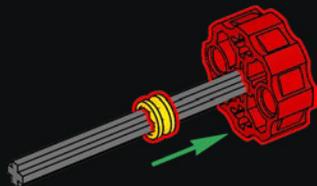




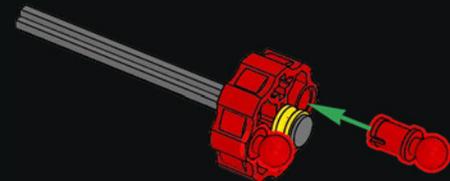
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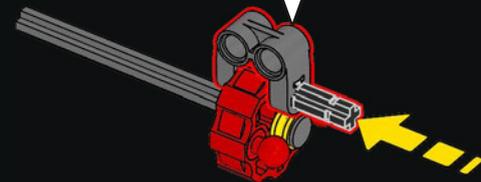
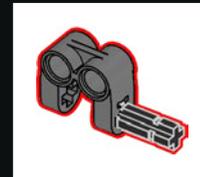
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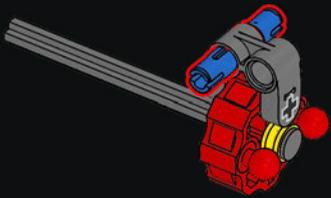


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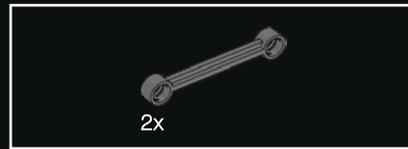
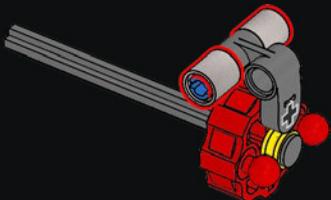




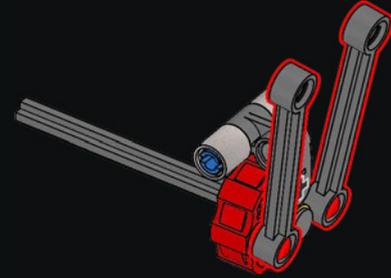
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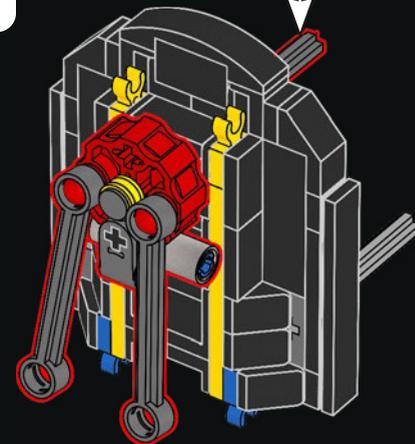
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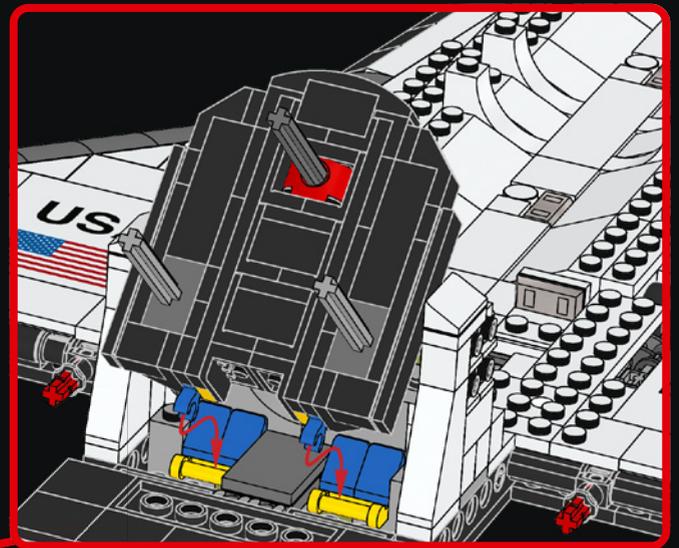
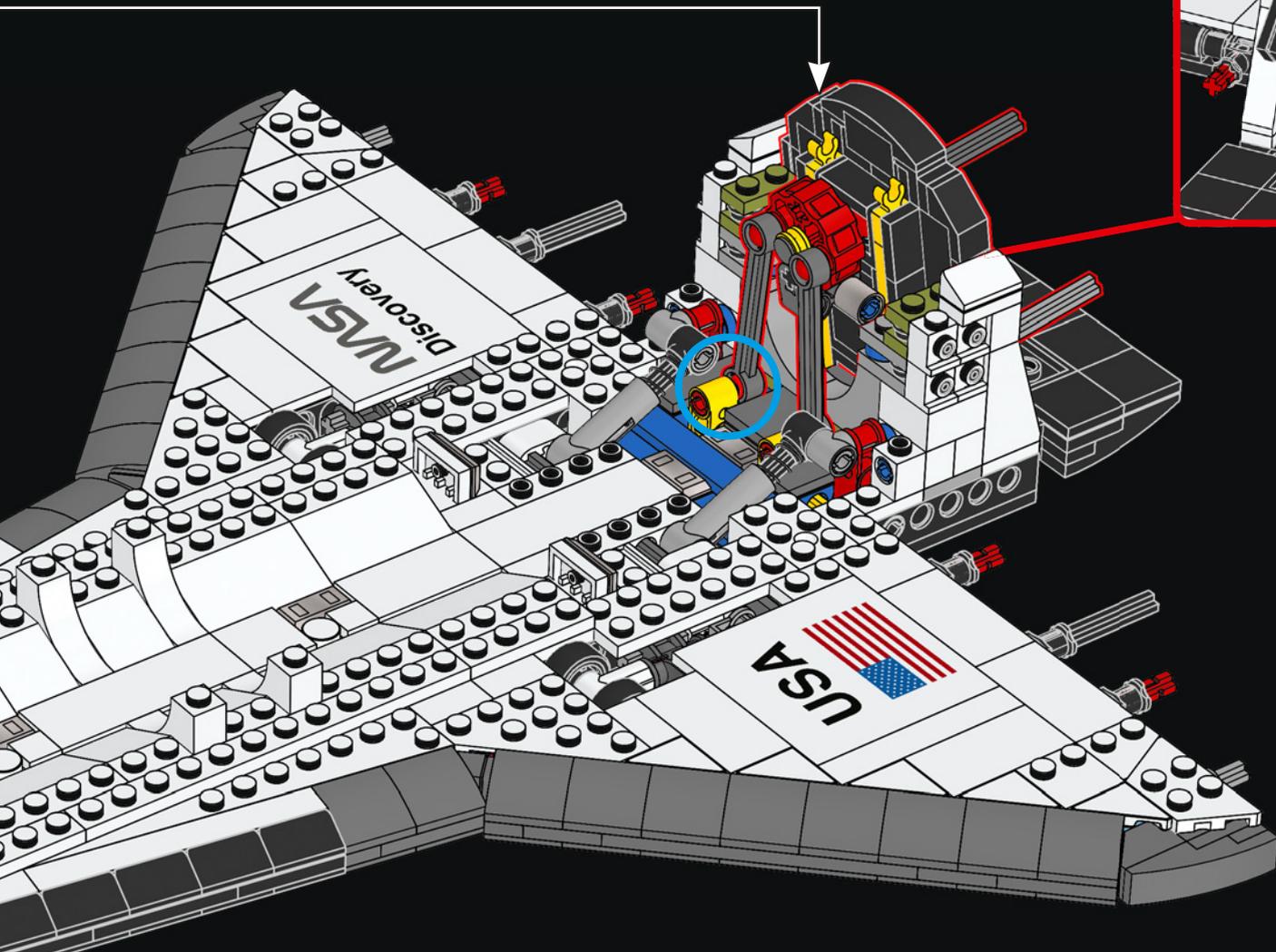


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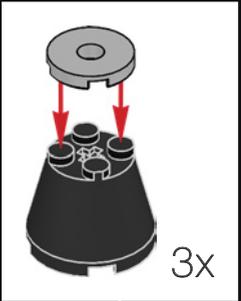
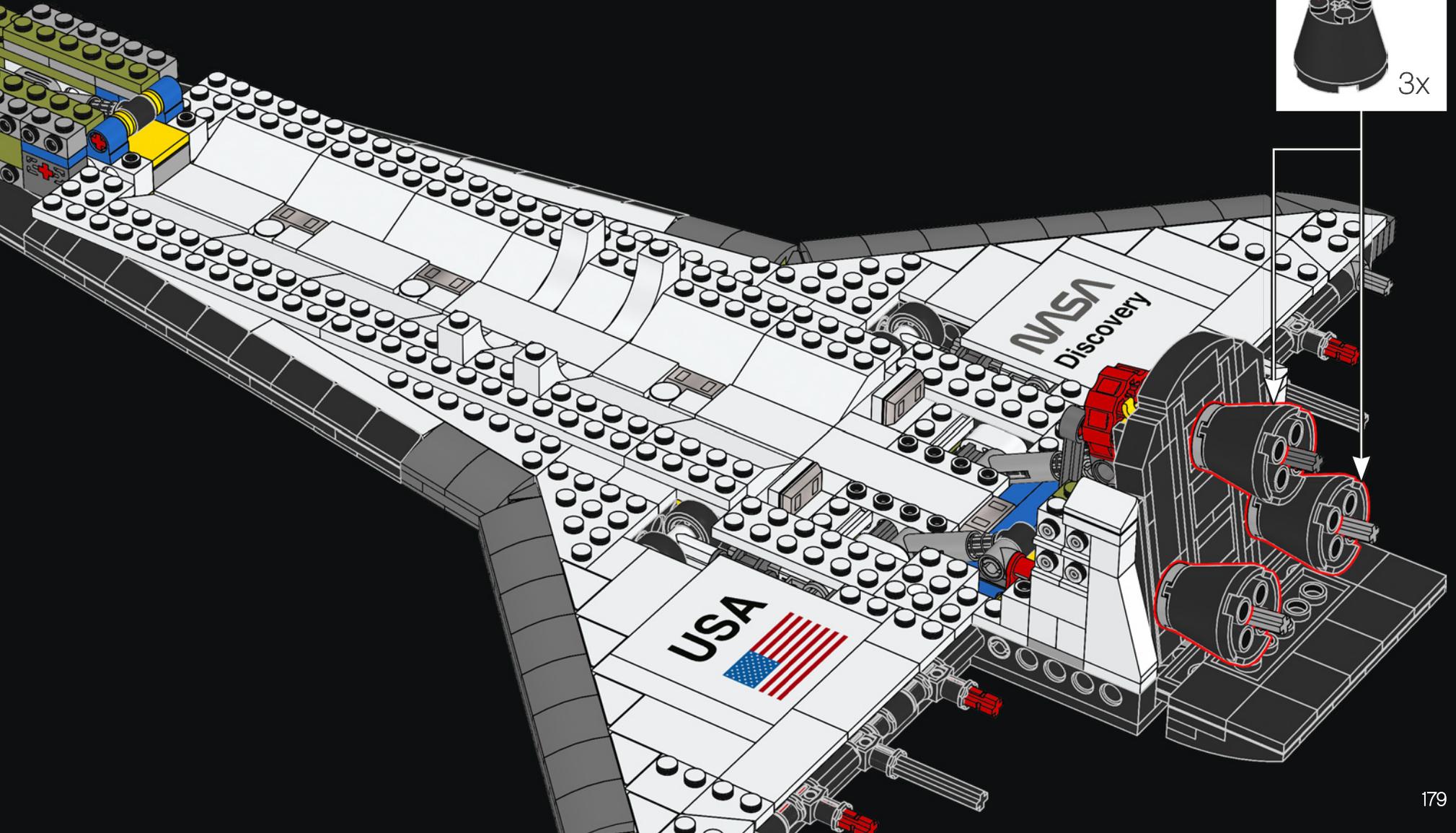
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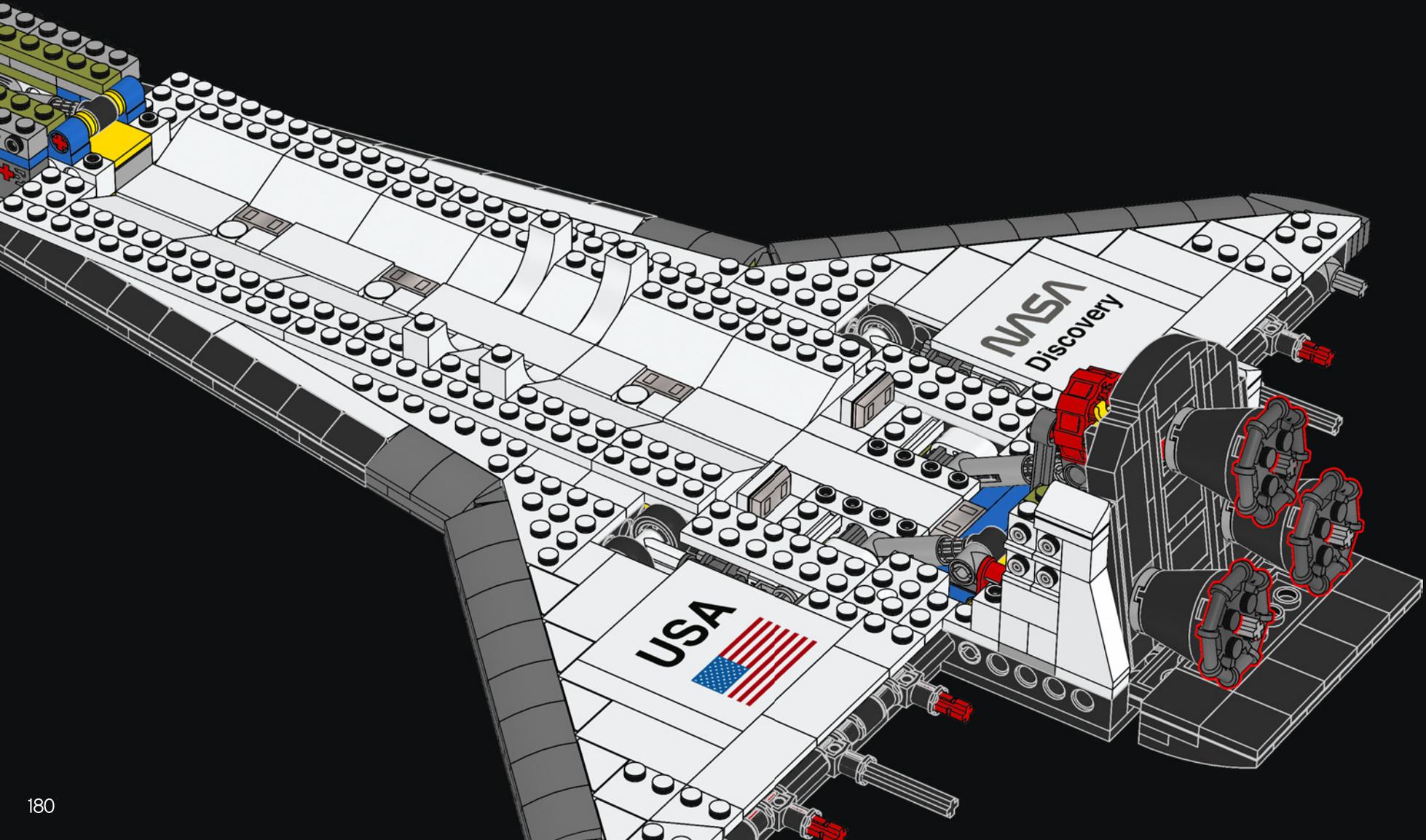


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198



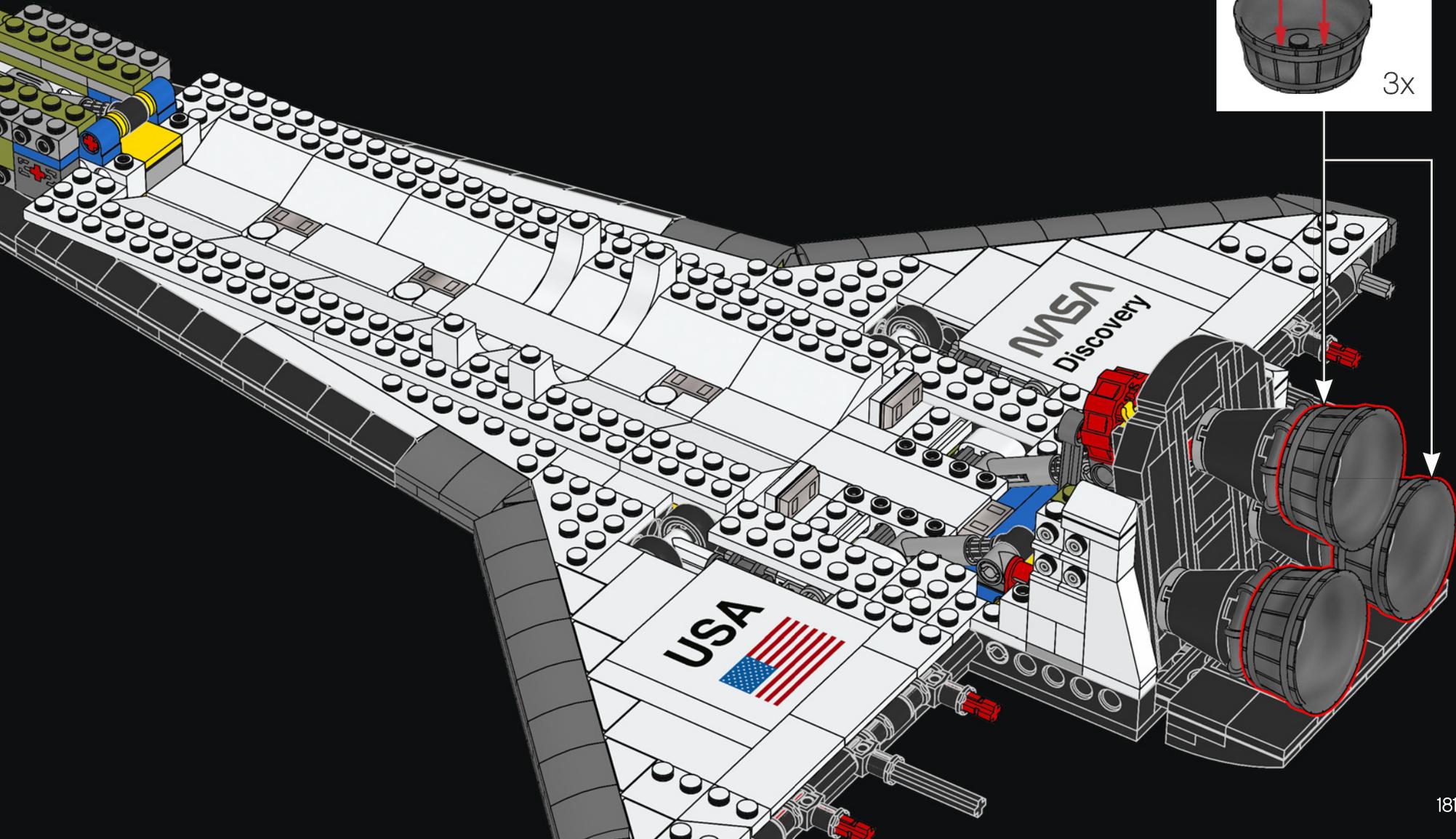
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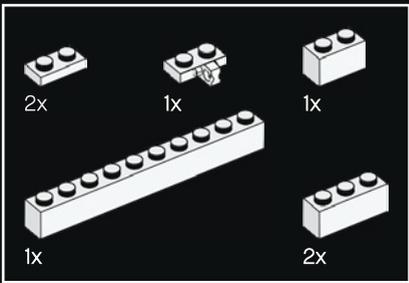


LO SAPEVI?

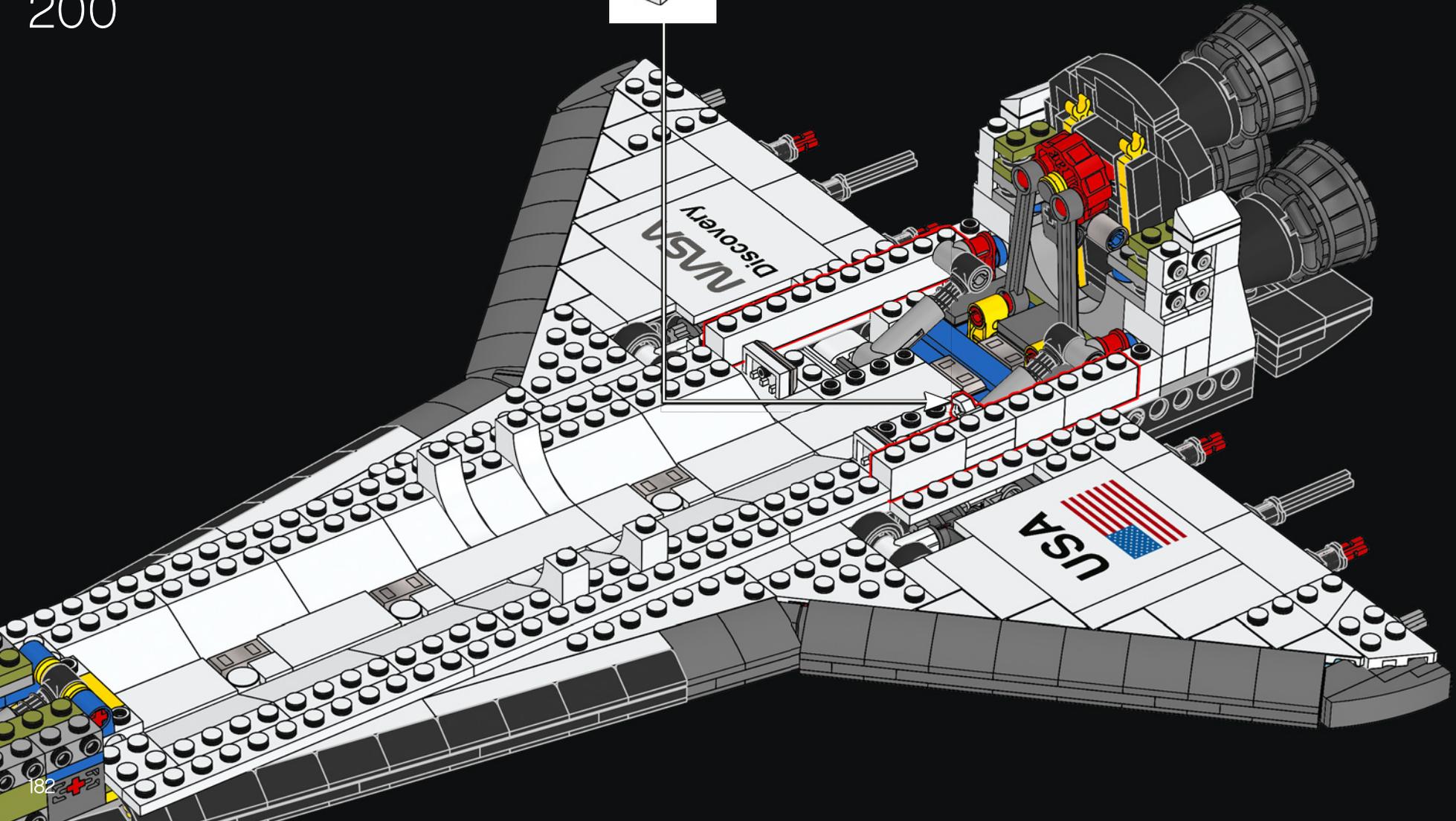
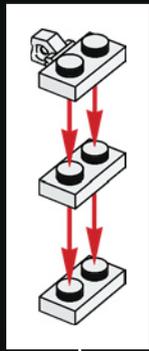
Pompendo idrogeno liquido super freddo attraverso 1.080 tubi nella parete dell'ugello prima del suo ingresso nella camera di combustione principale, il motore veniva mantenuto a una temperatura di 10 gradi Celsius.

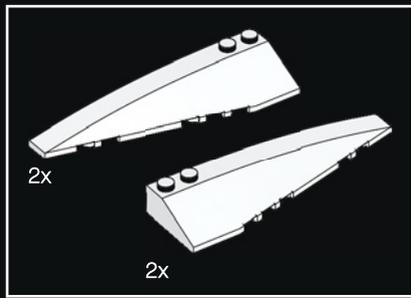
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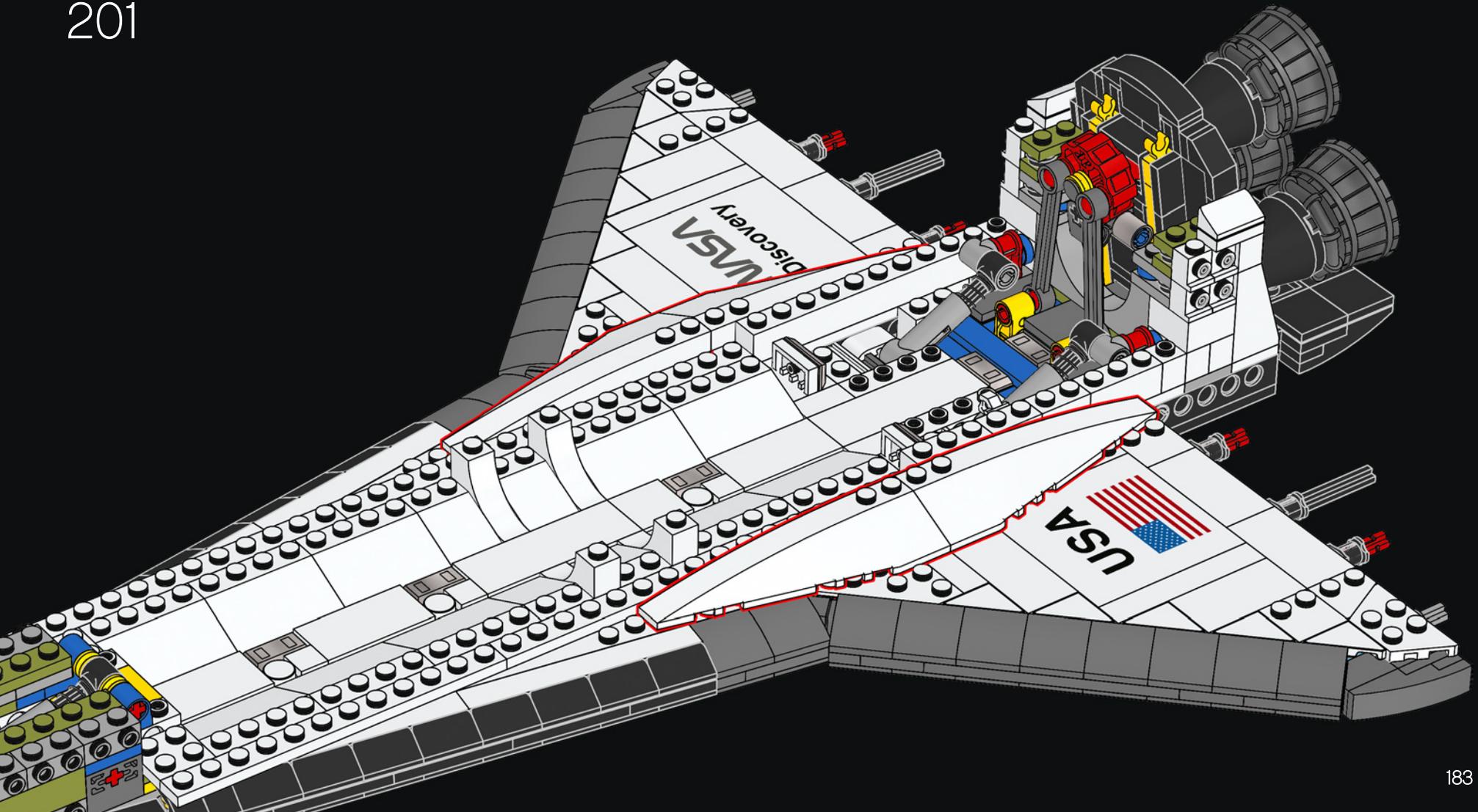


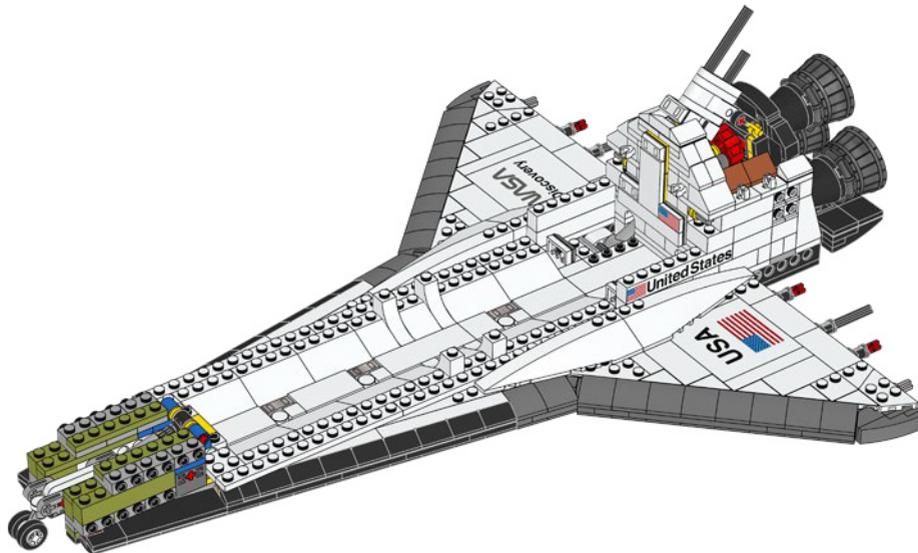
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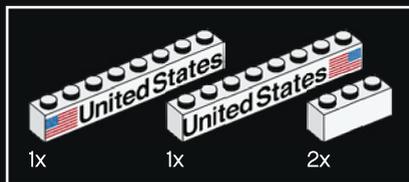




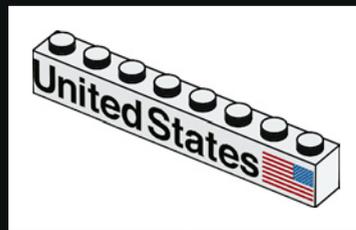
201





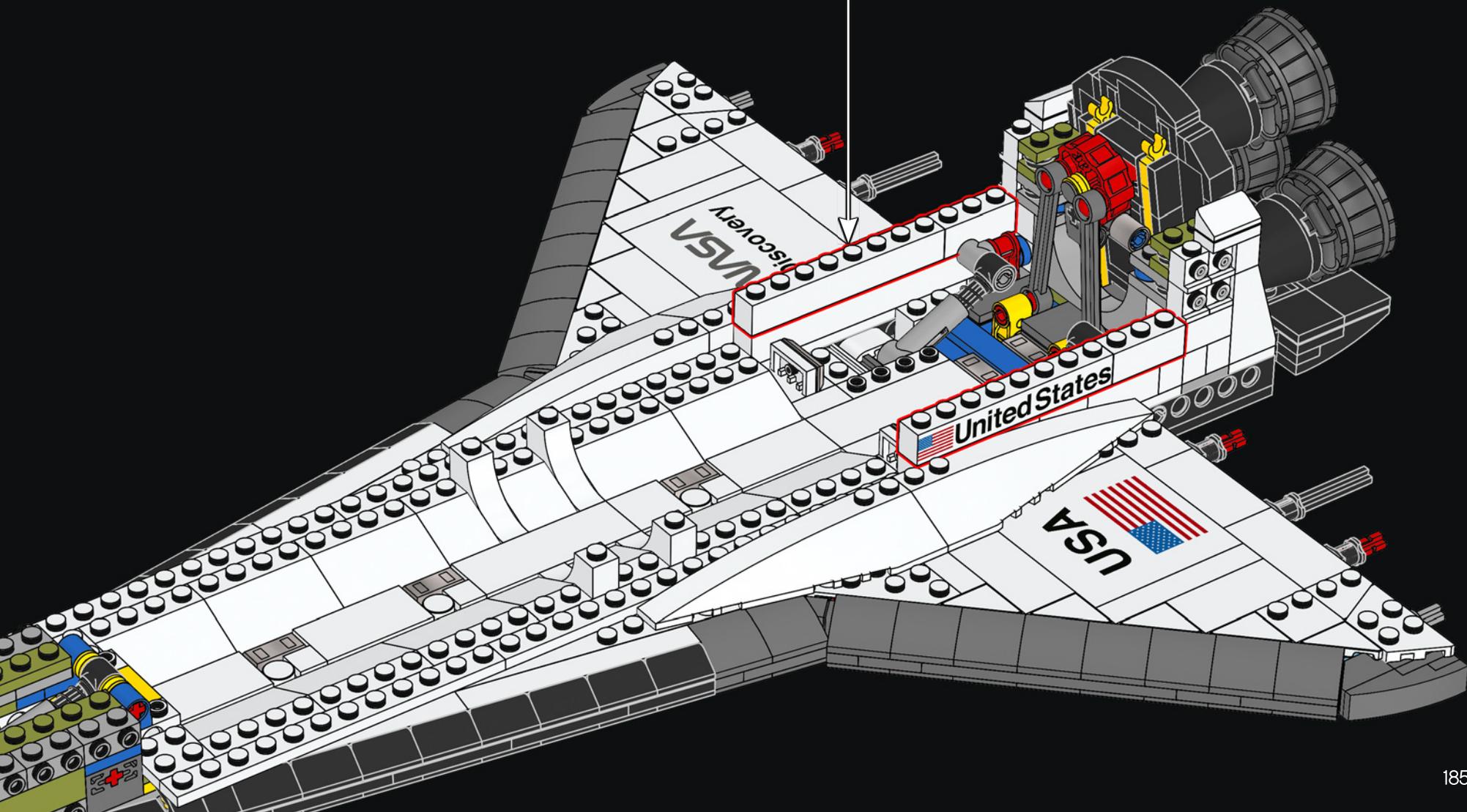


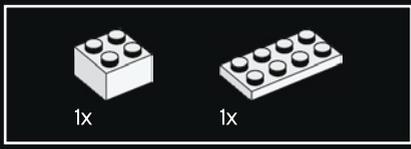
202



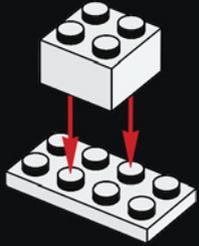
LO SAPEVI?

Poiché i regolamenti richiedono che le stelle siano sempre rivolte in avanti quando la bandiera ondeggia nel vento, la bandiera americana sul lato di tribordo della fusoliera del Discovery è rivolta all'indietro.

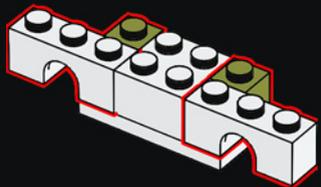




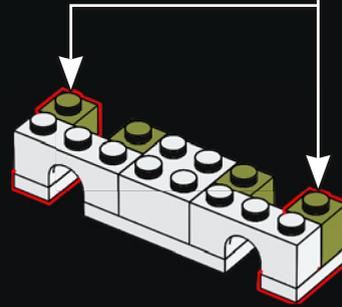
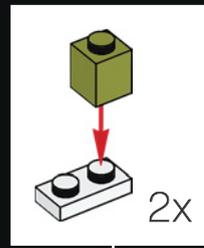
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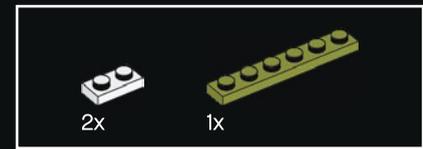
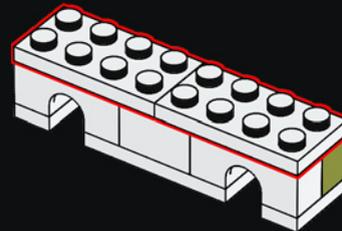
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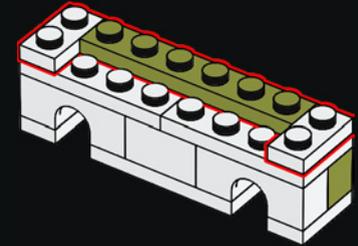
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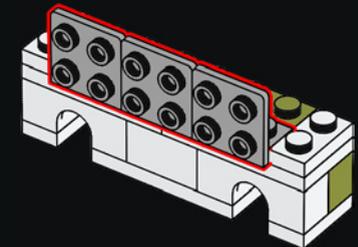
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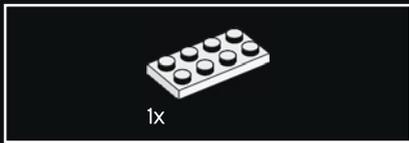


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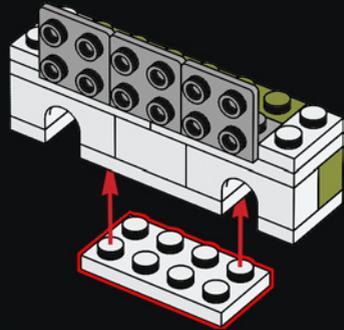


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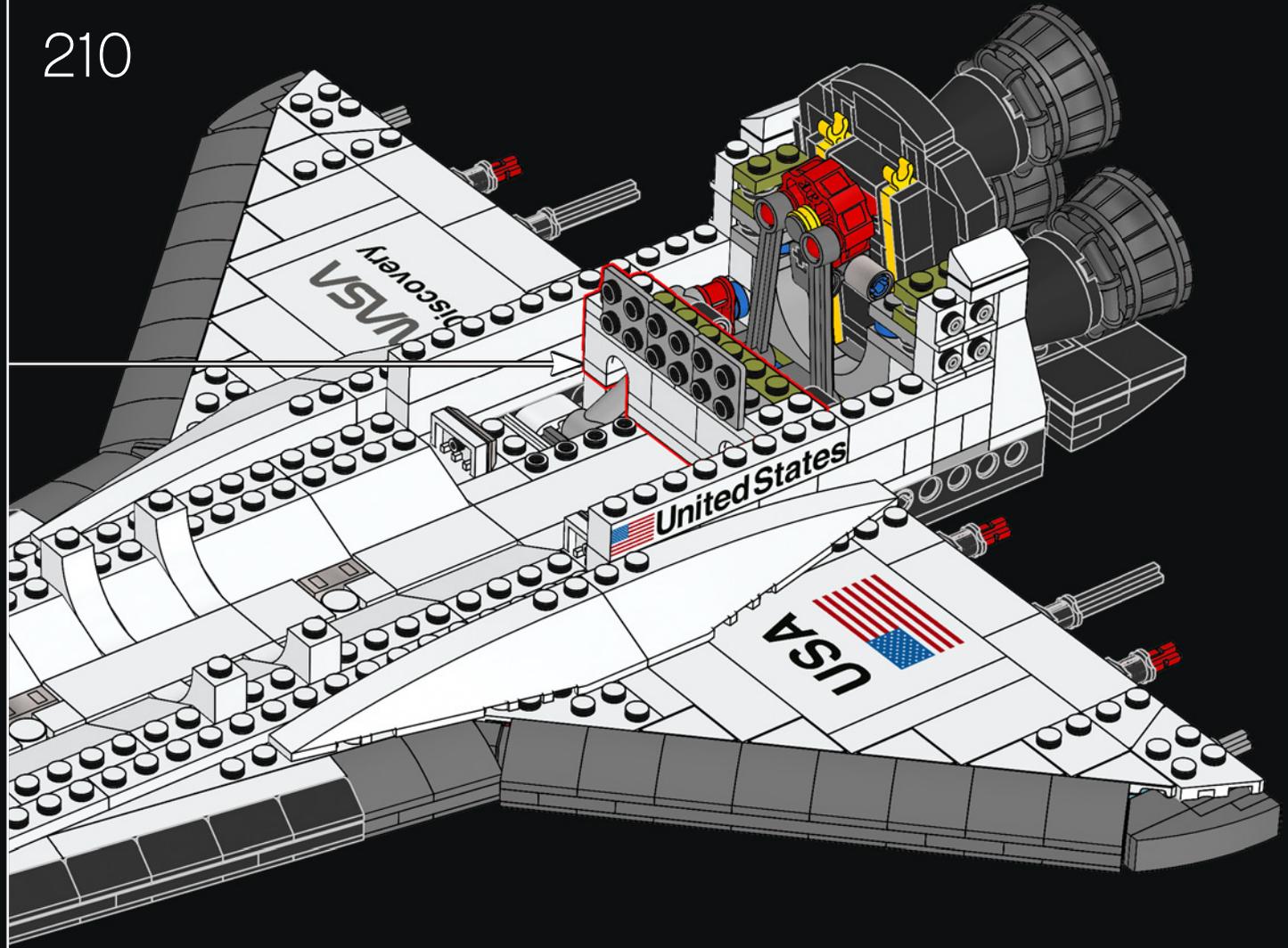


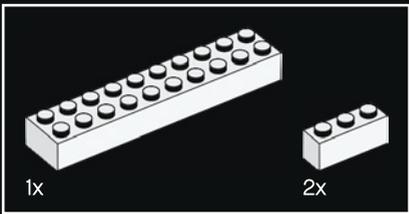


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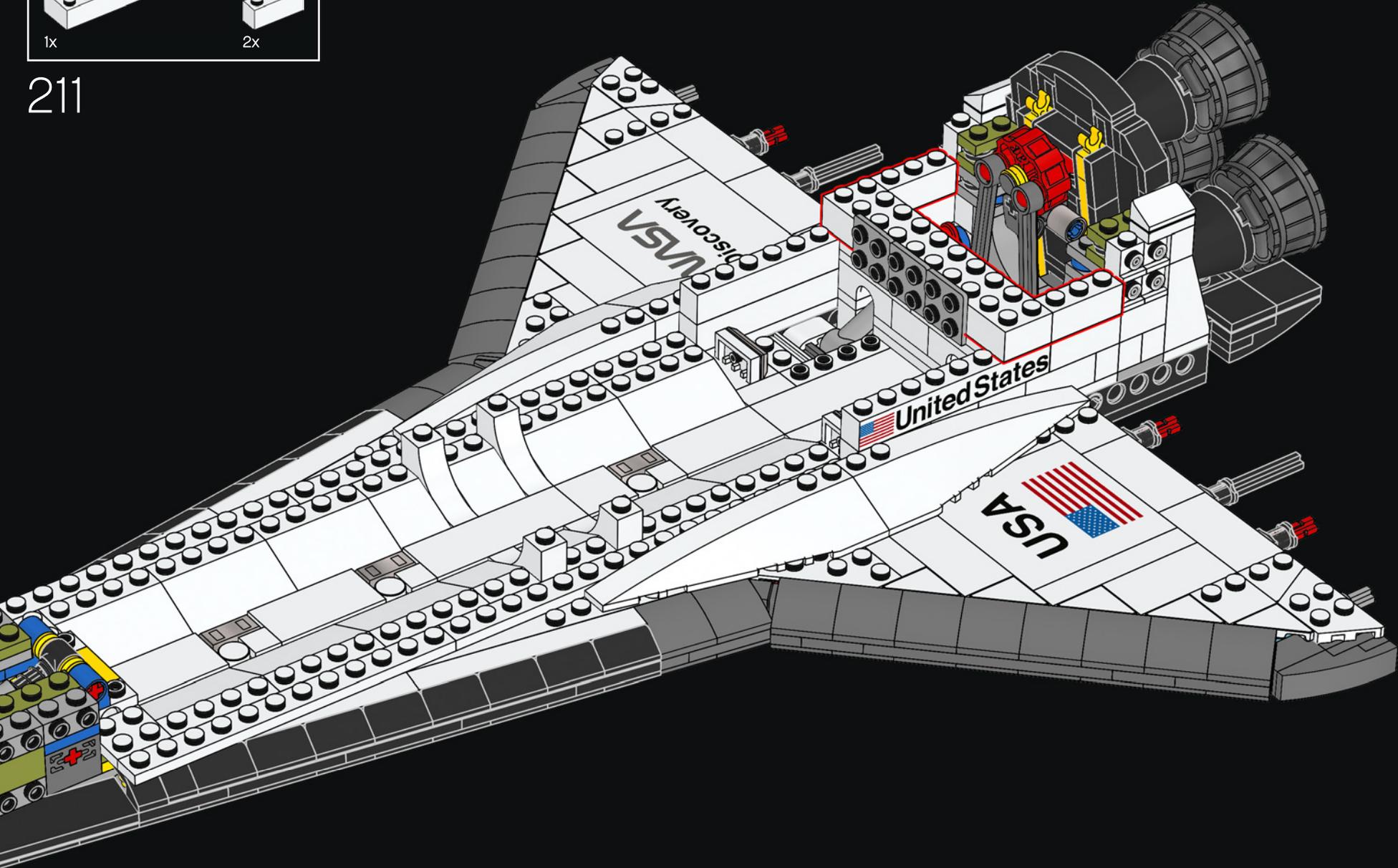


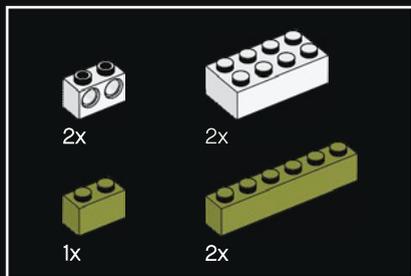
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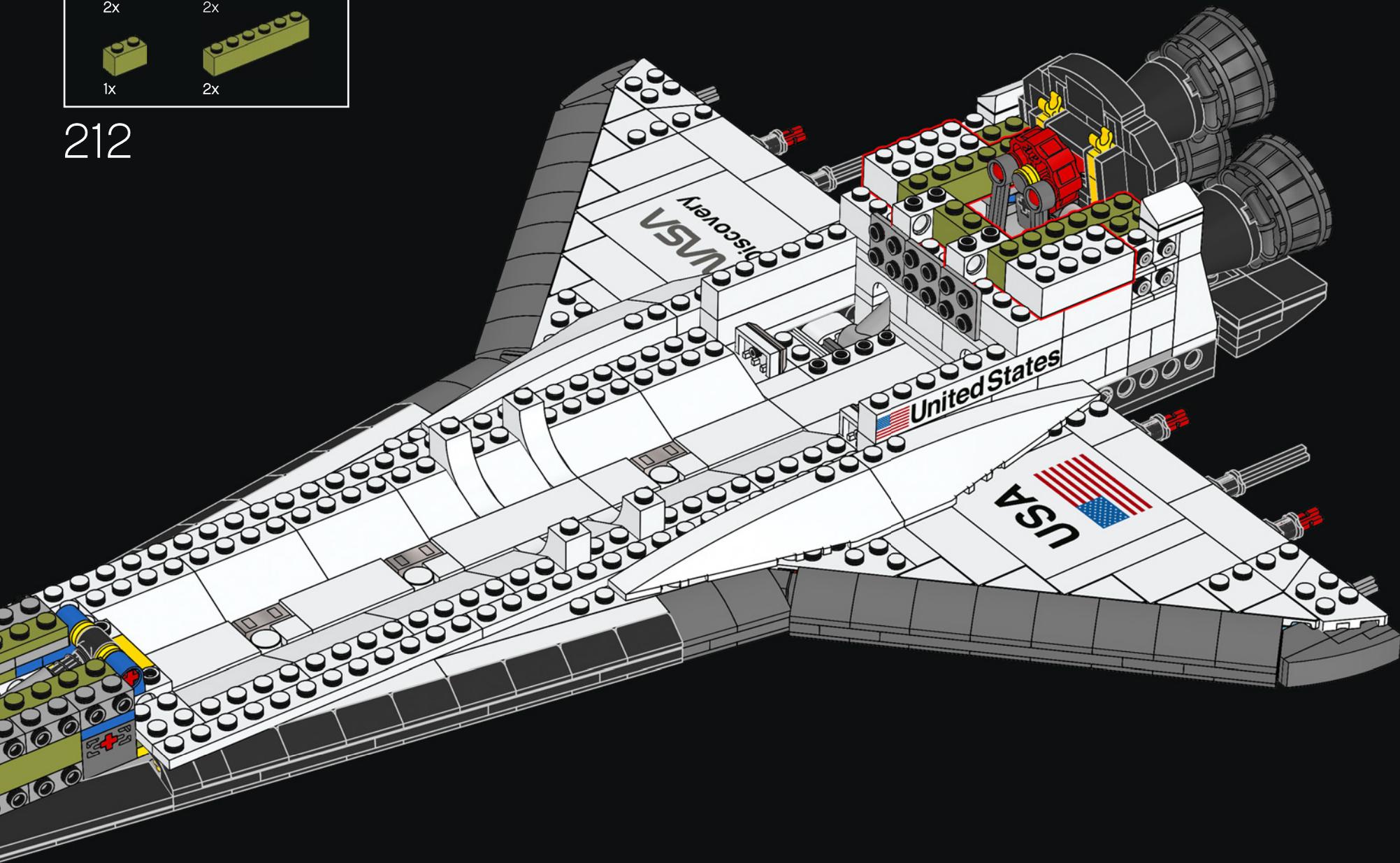


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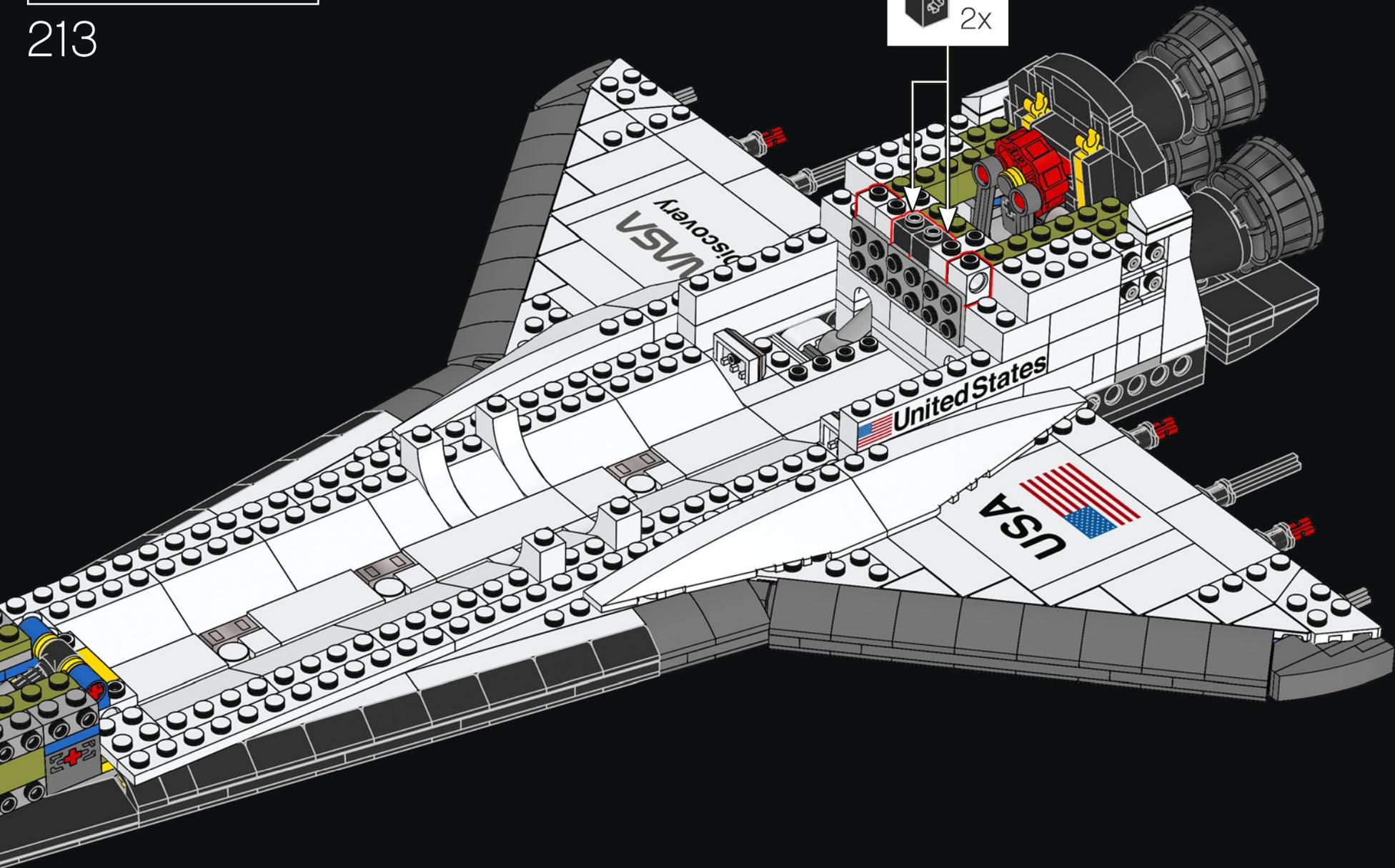
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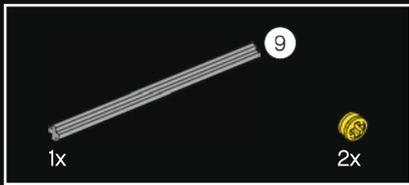


2x 2x

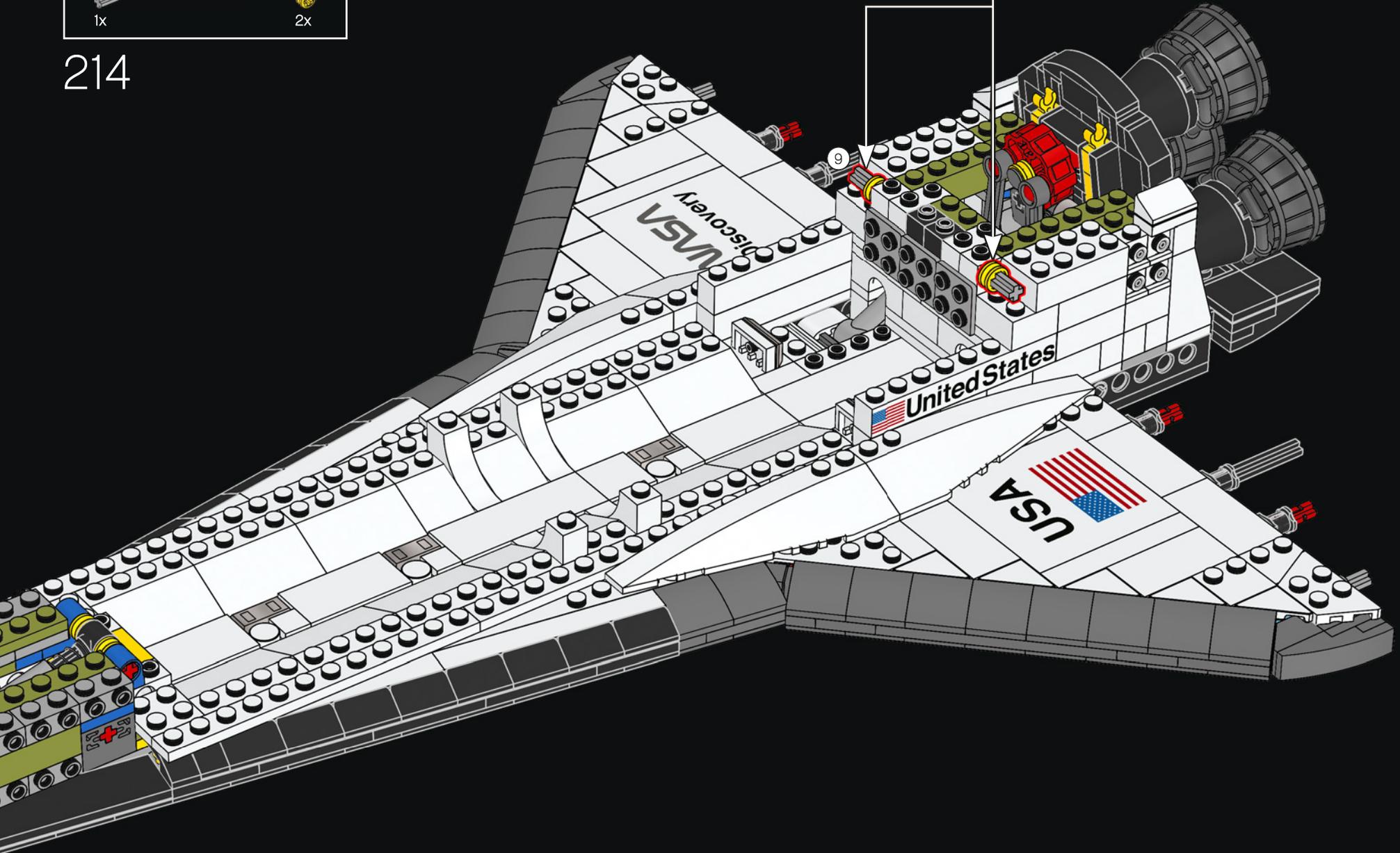
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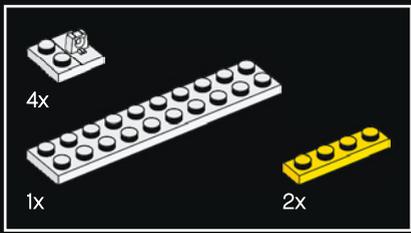
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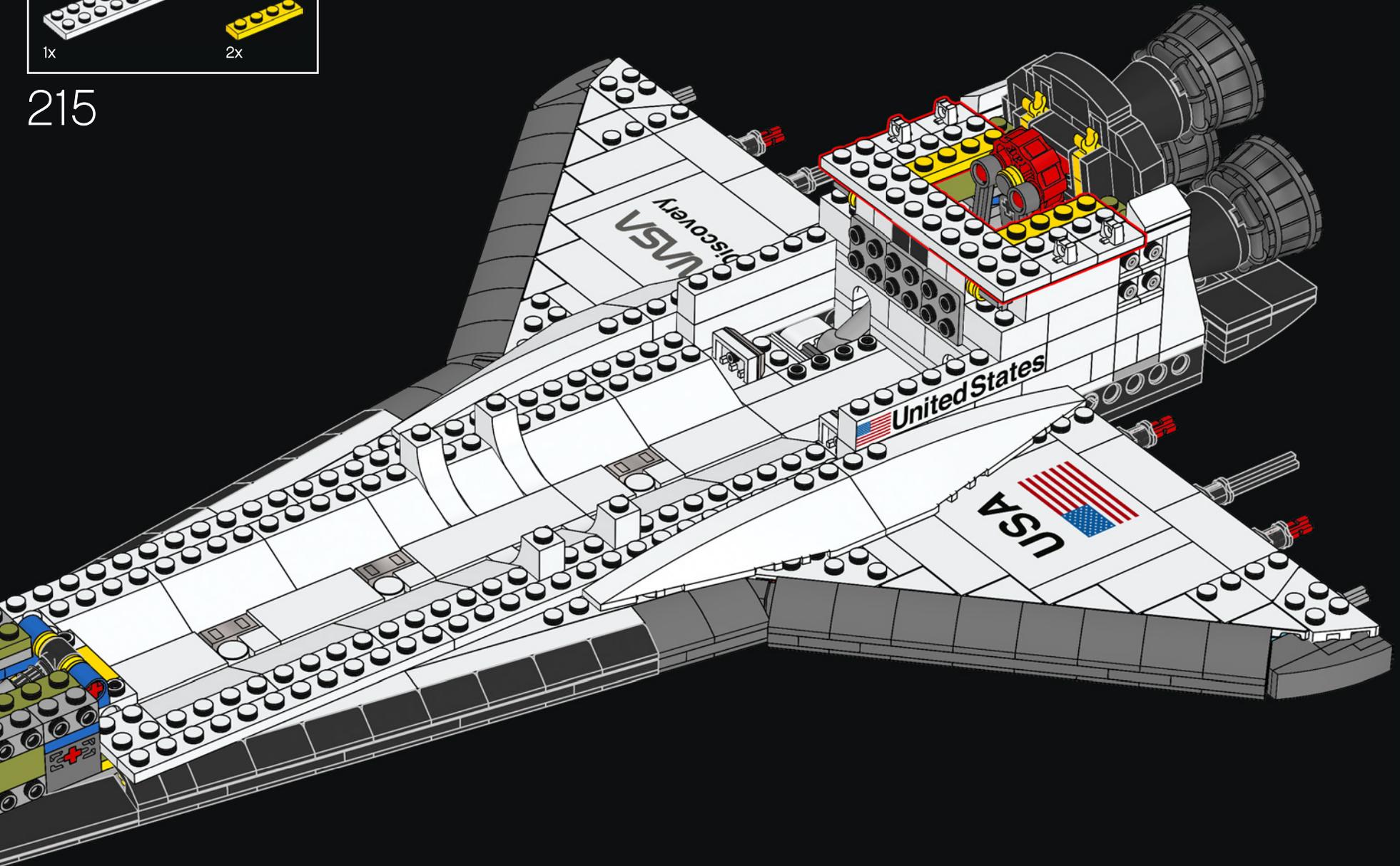


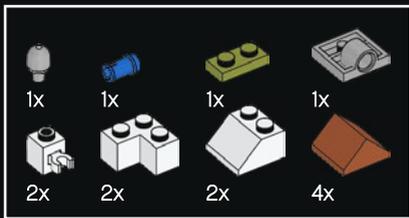
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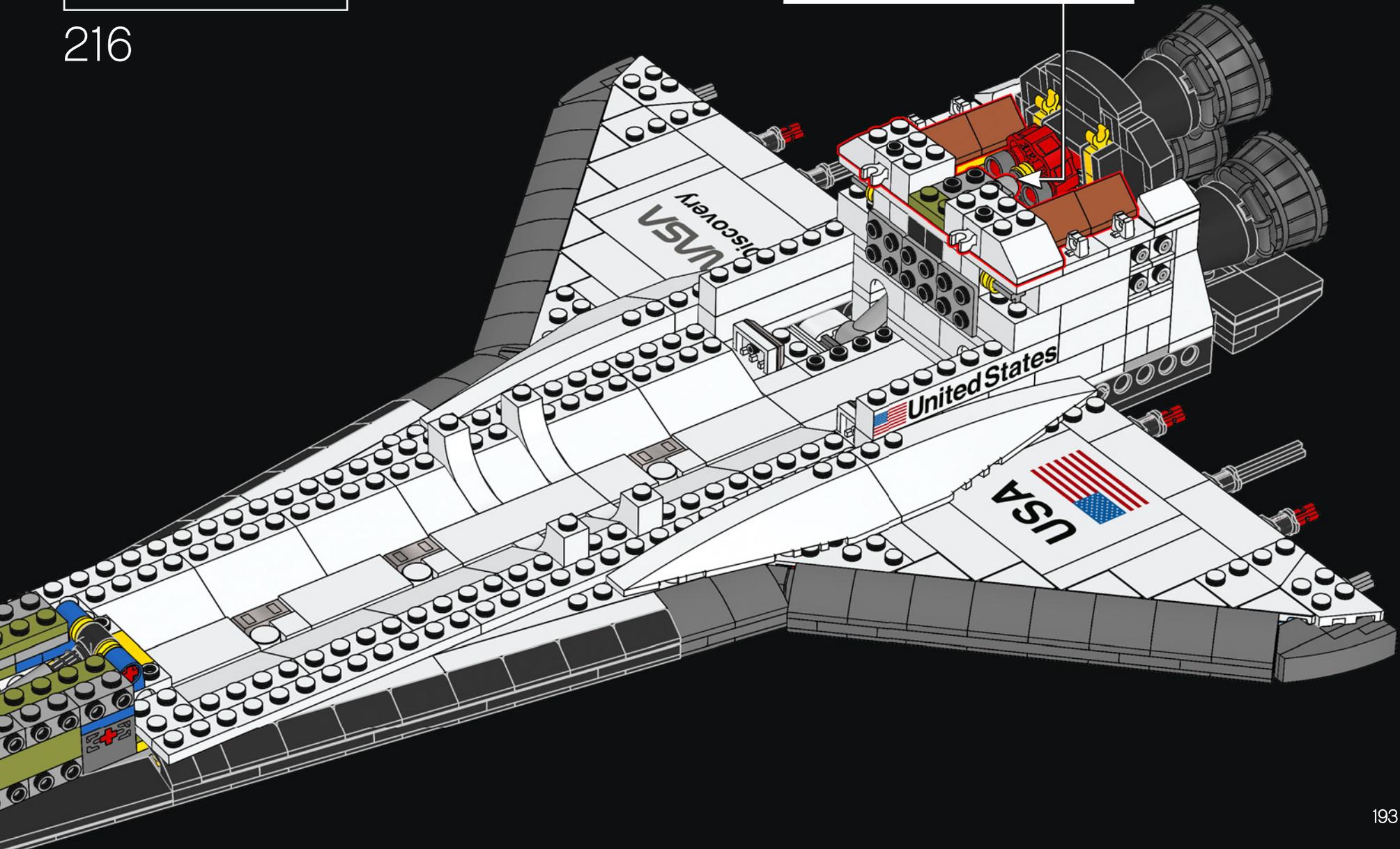
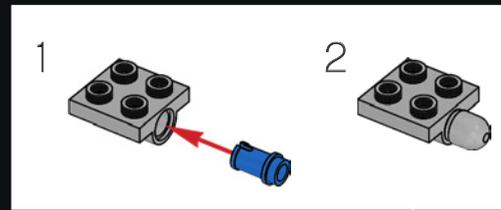


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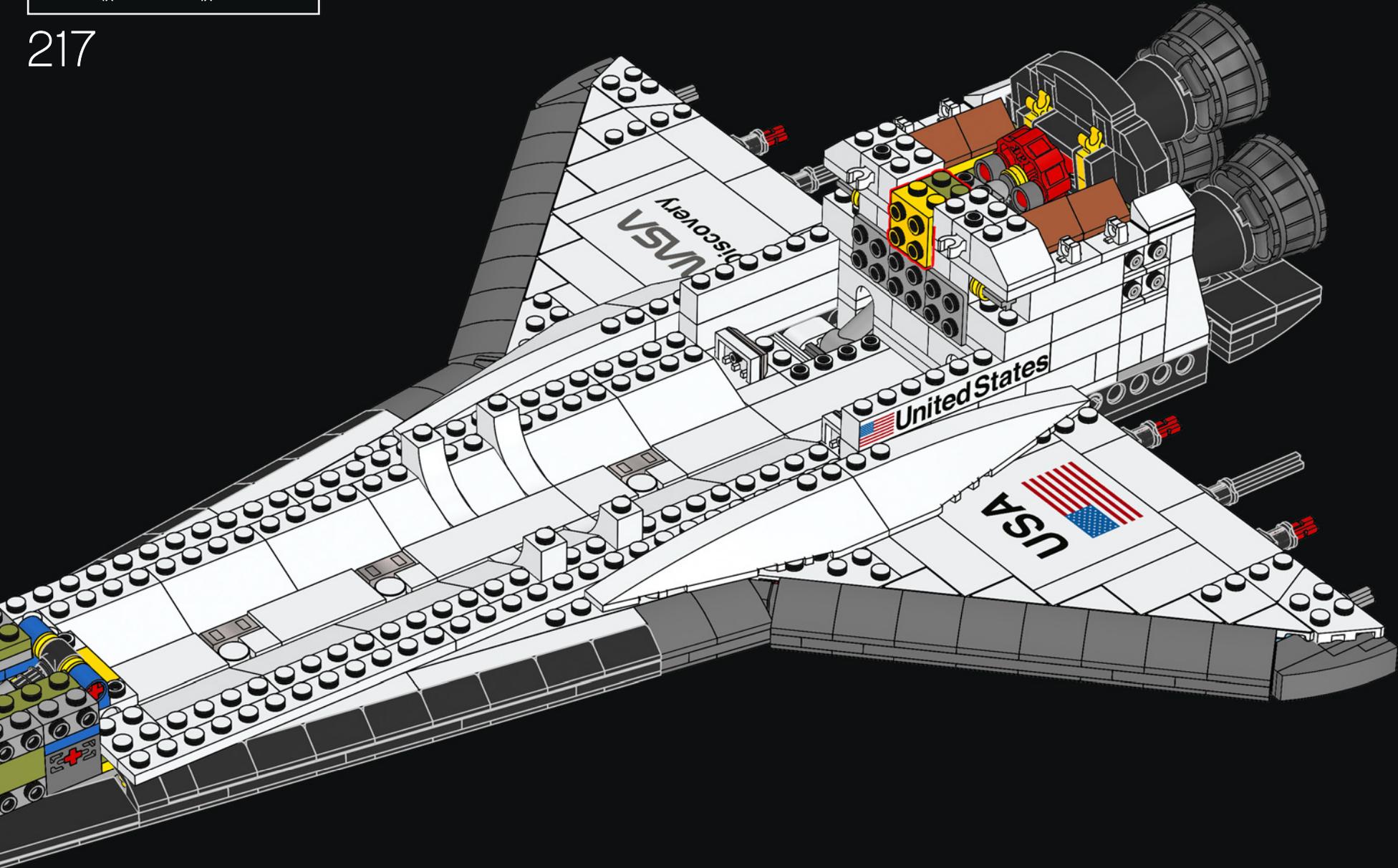


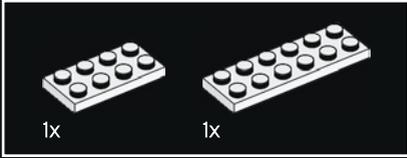
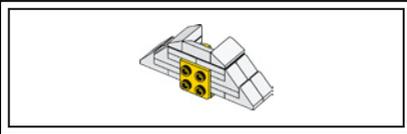
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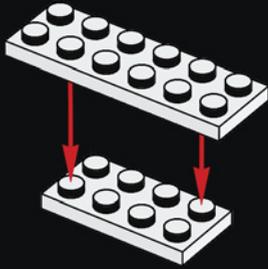


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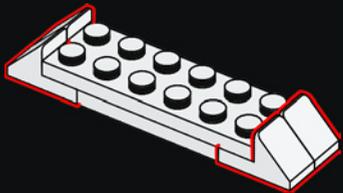




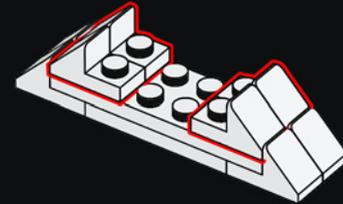
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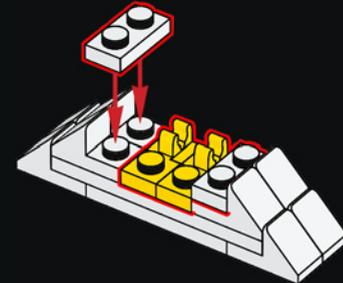
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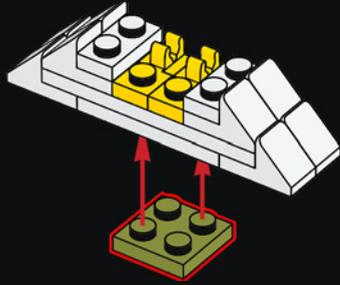


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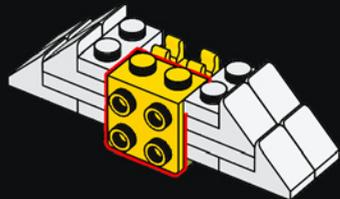




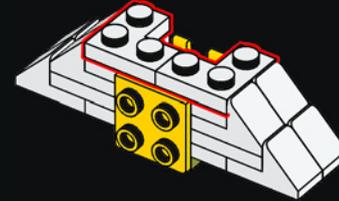
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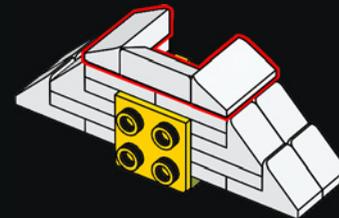
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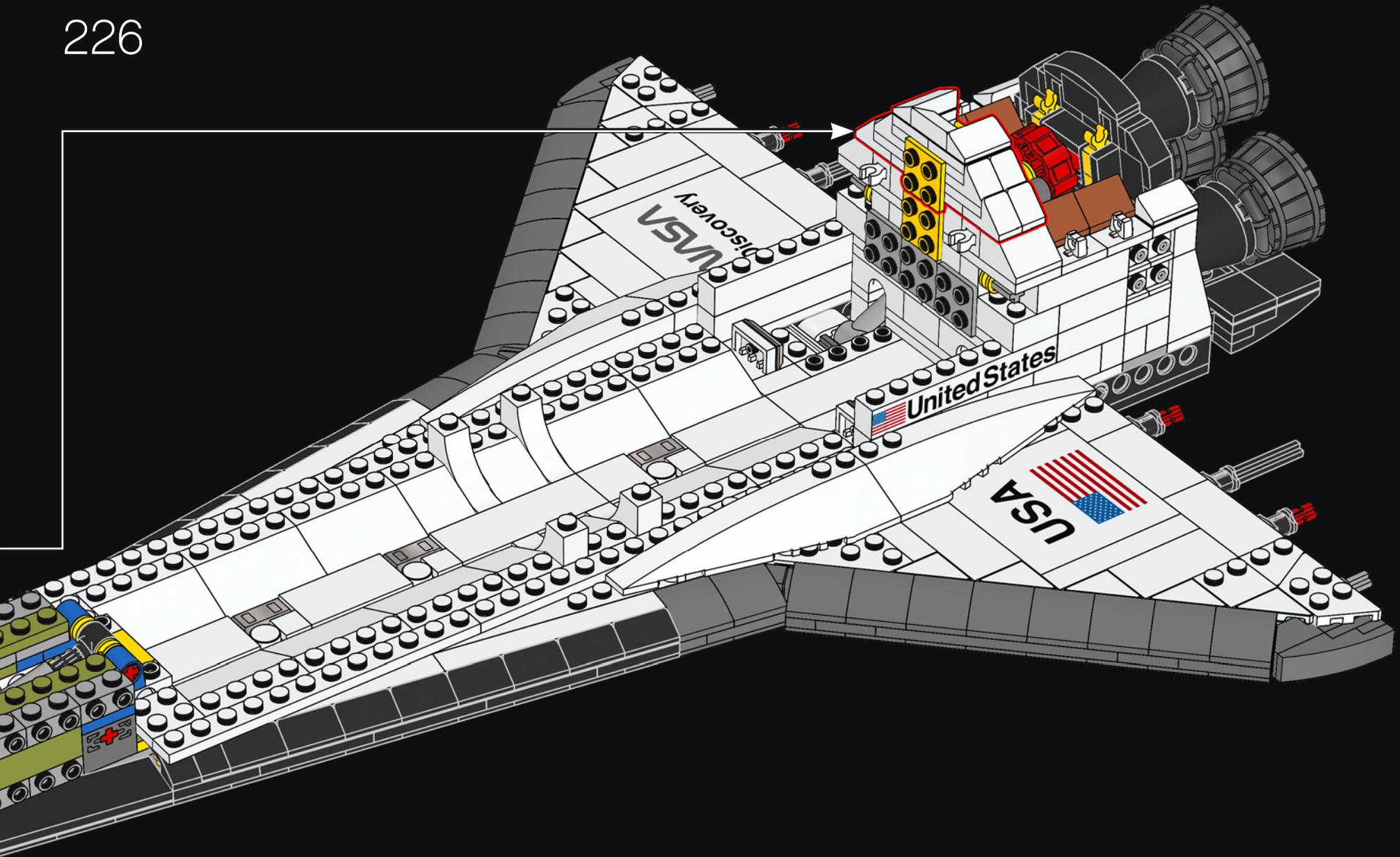
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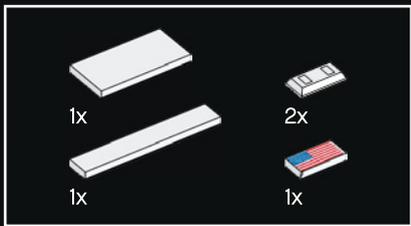


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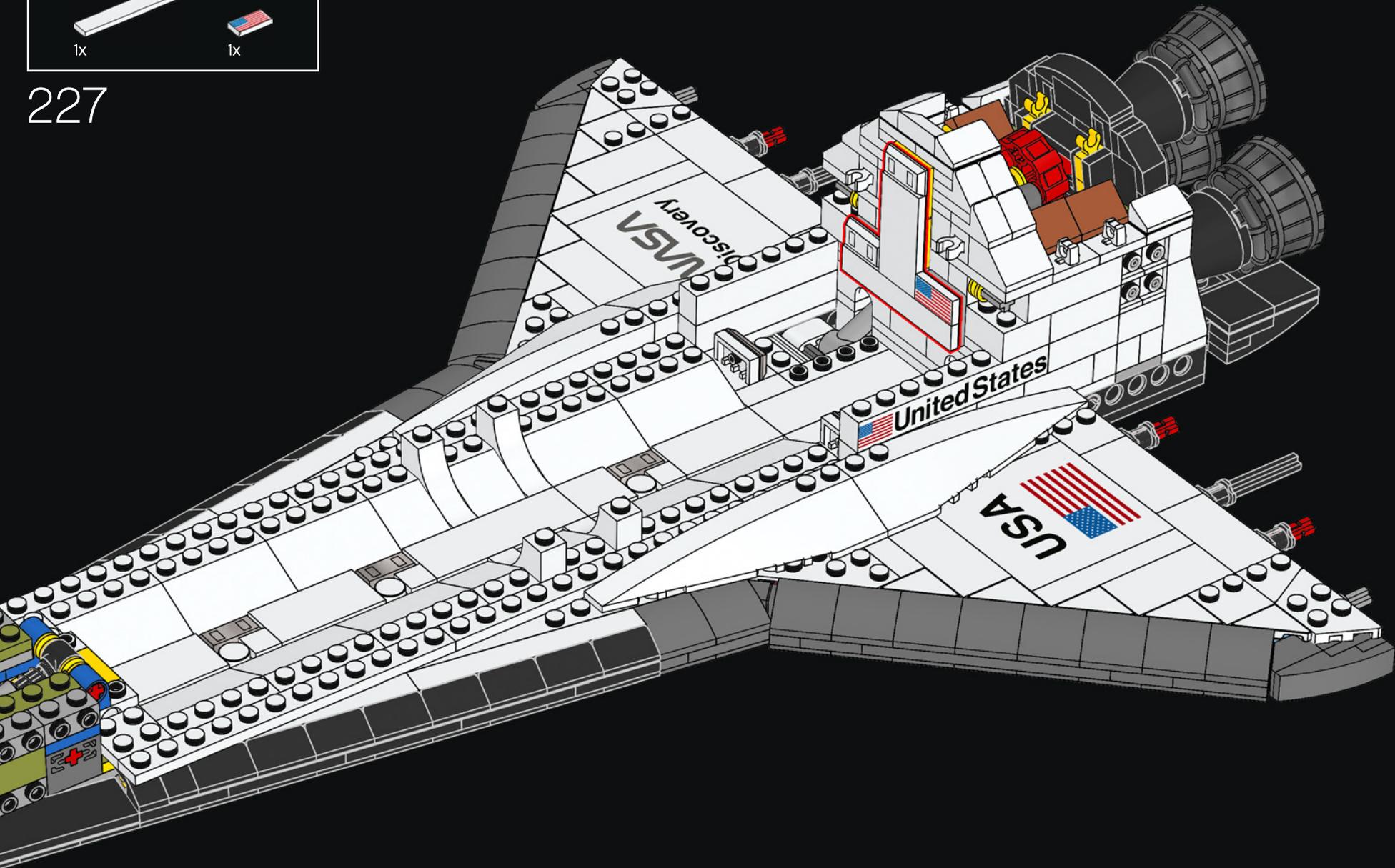


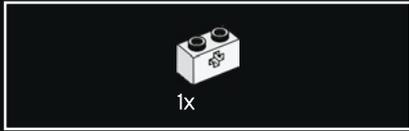
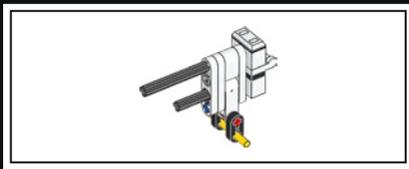
226





227





1x

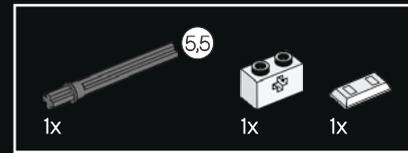
228



1x

1x

229

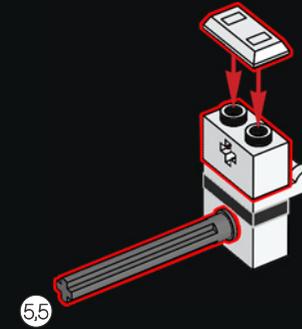


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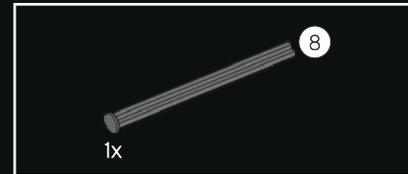
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1x

230



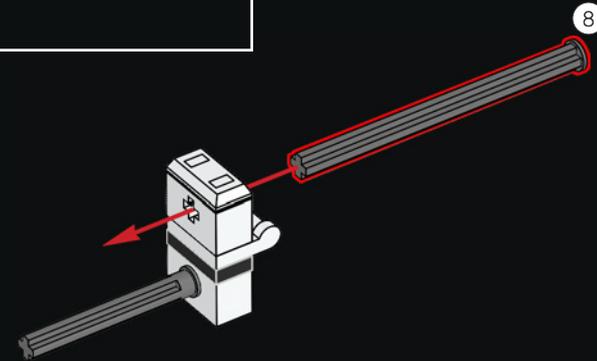
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1x

8

231



8



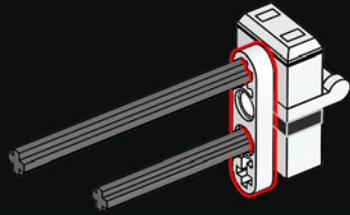
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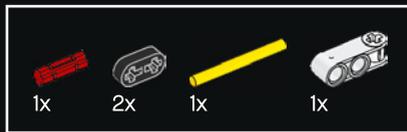
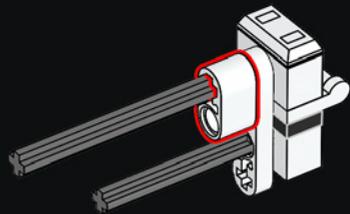
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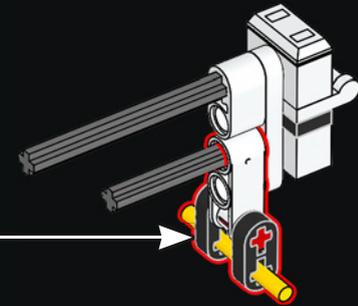
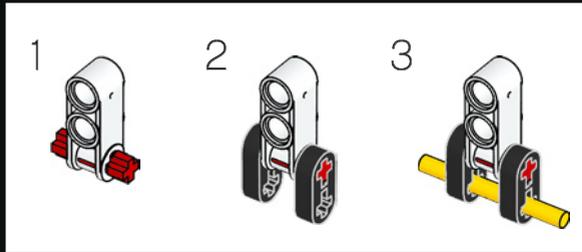
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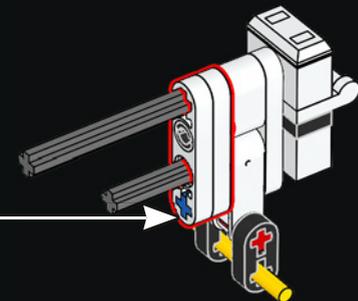
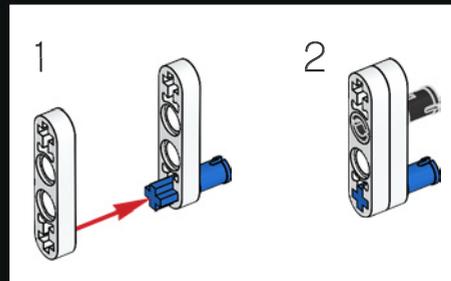
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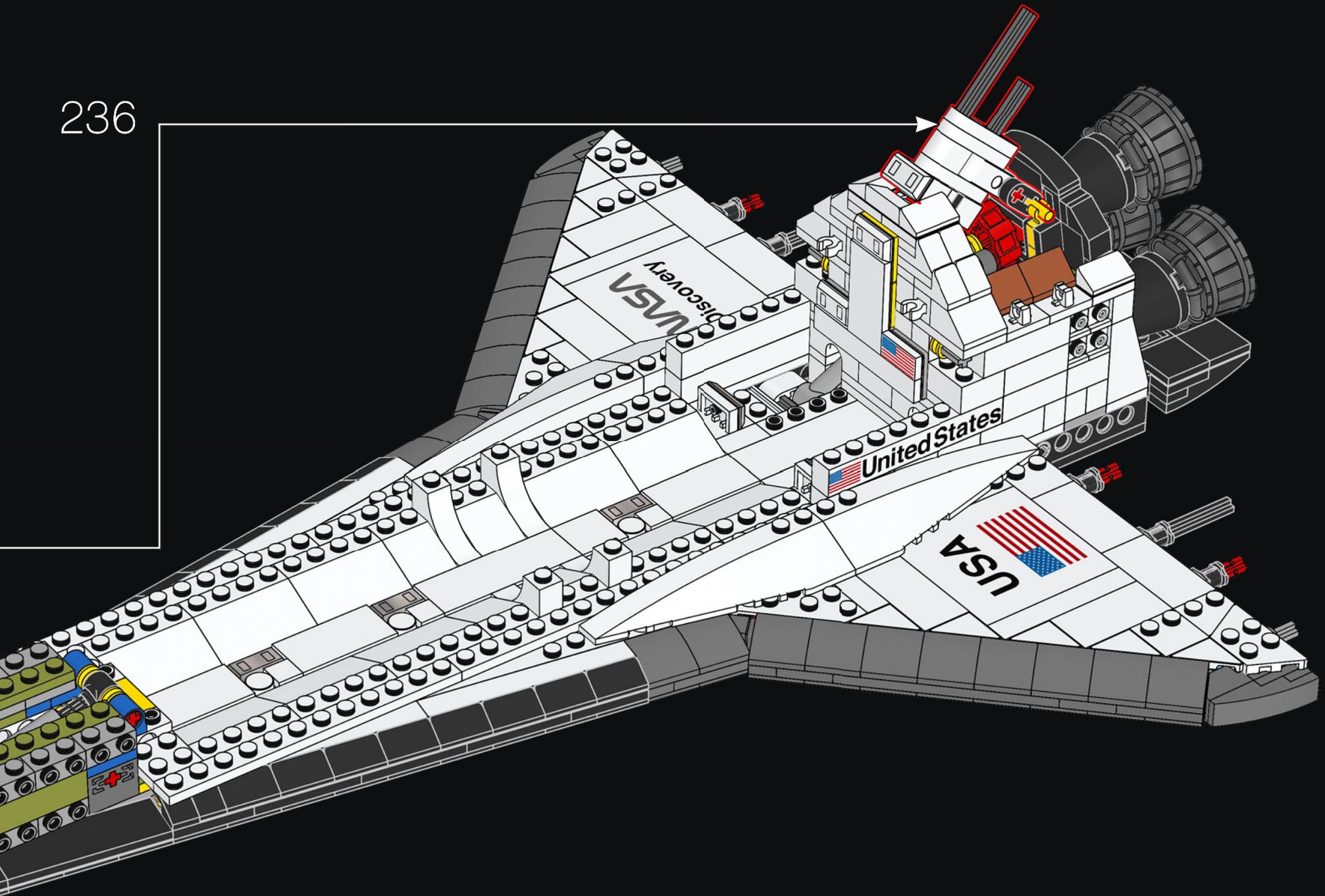
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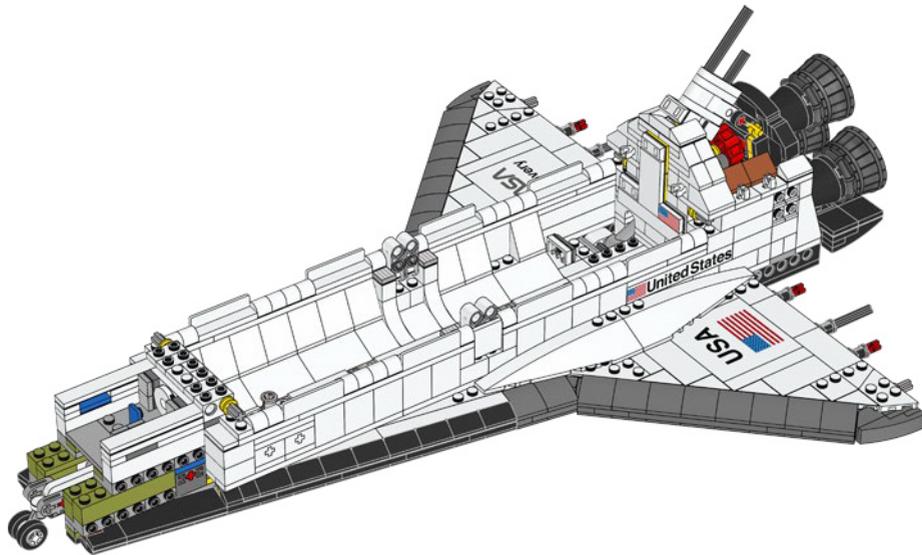
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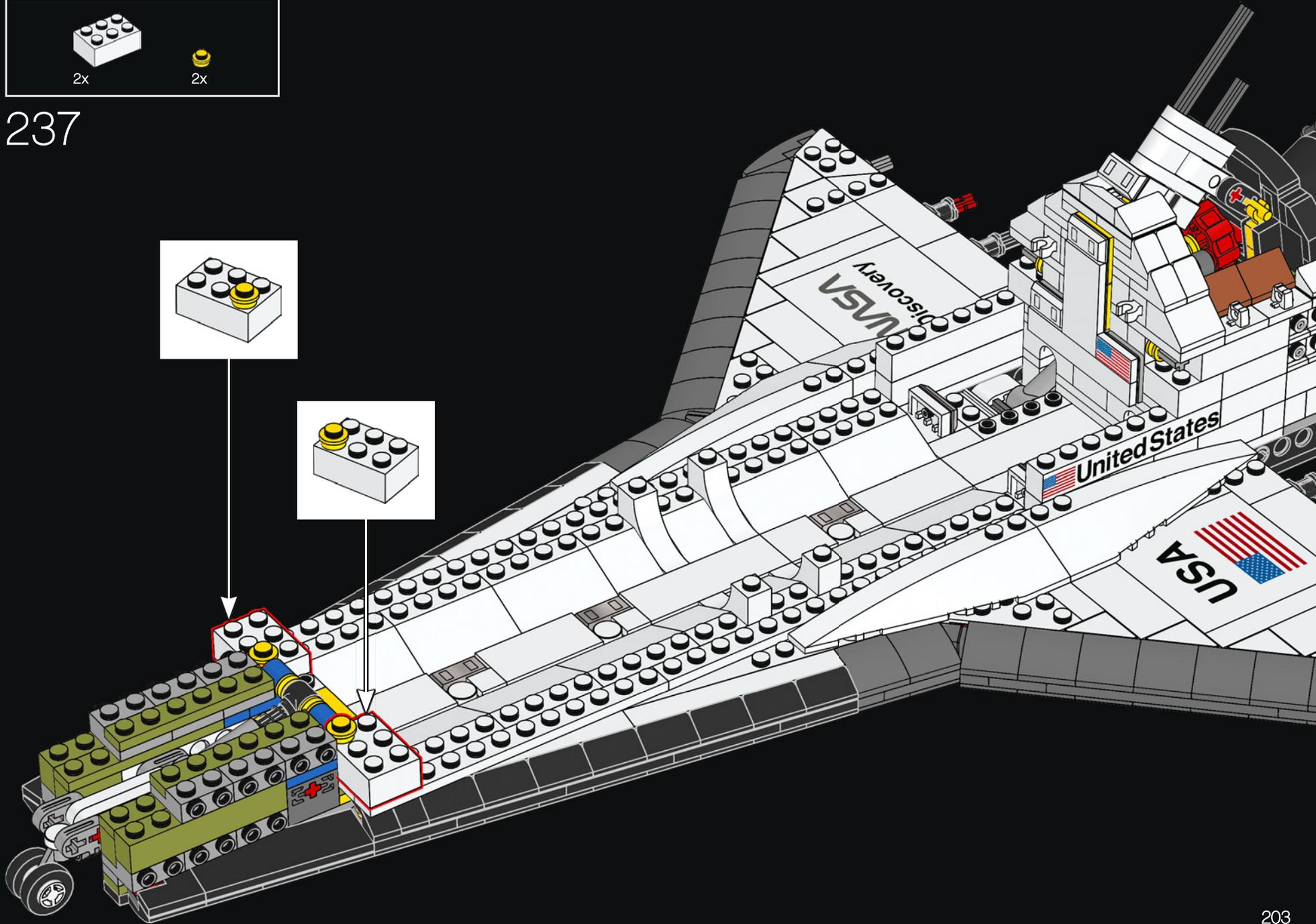
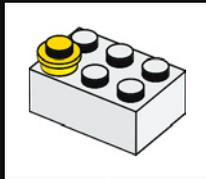
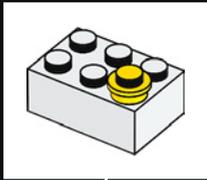


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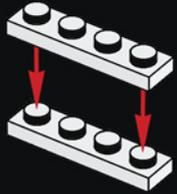


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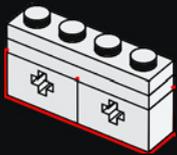




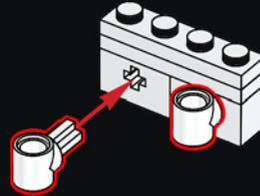
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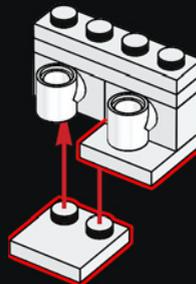
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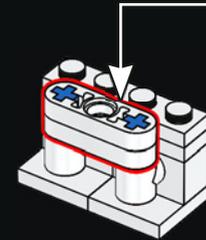
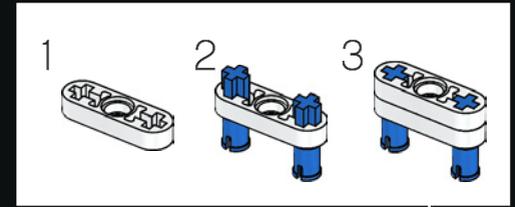
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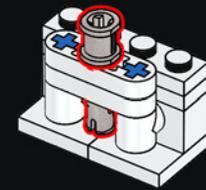
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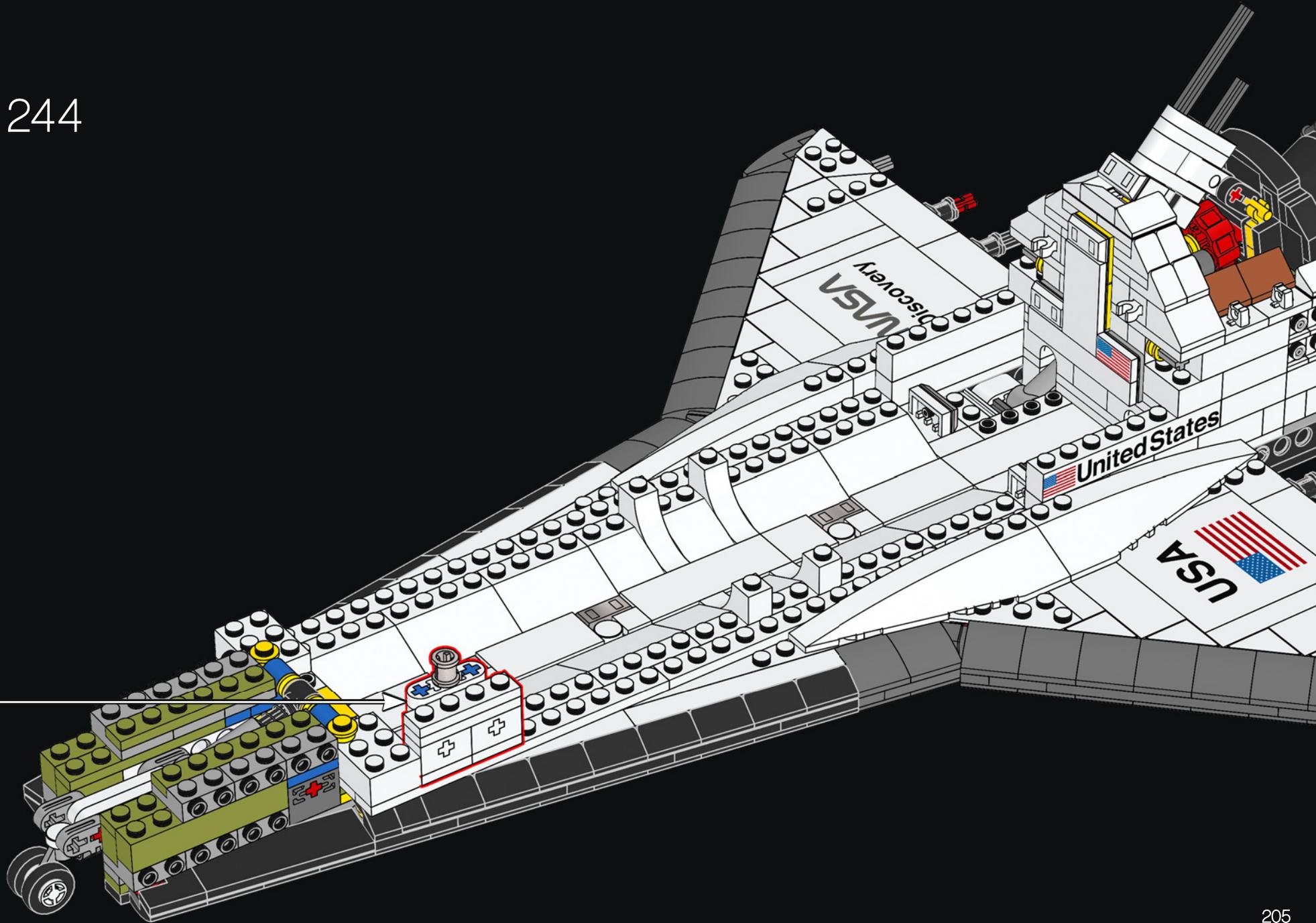


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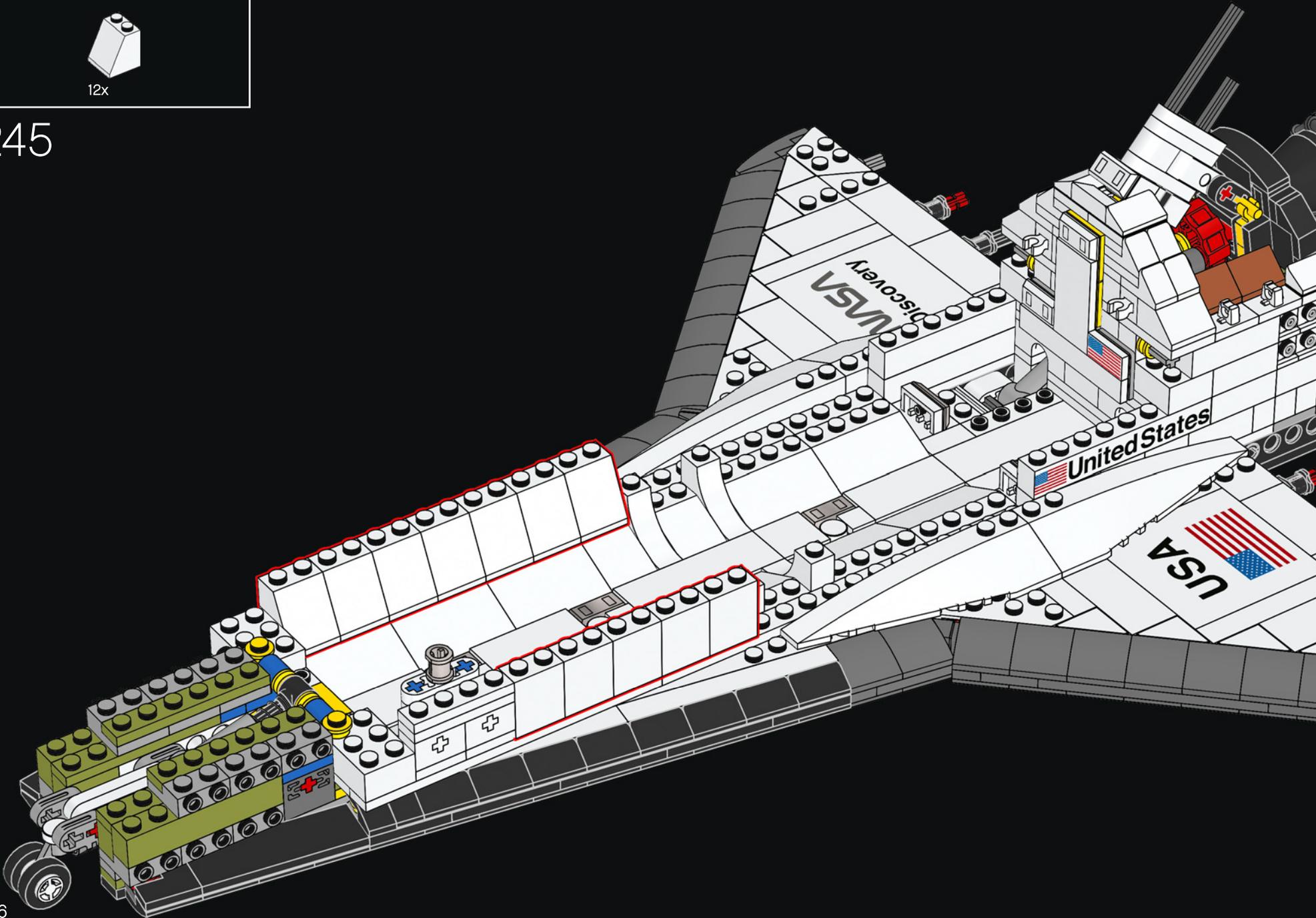
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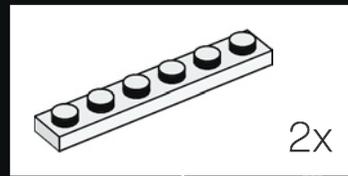
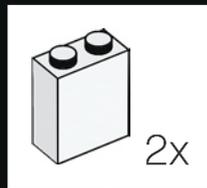
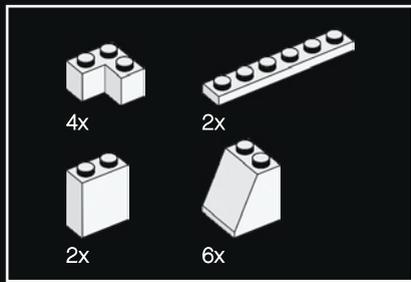




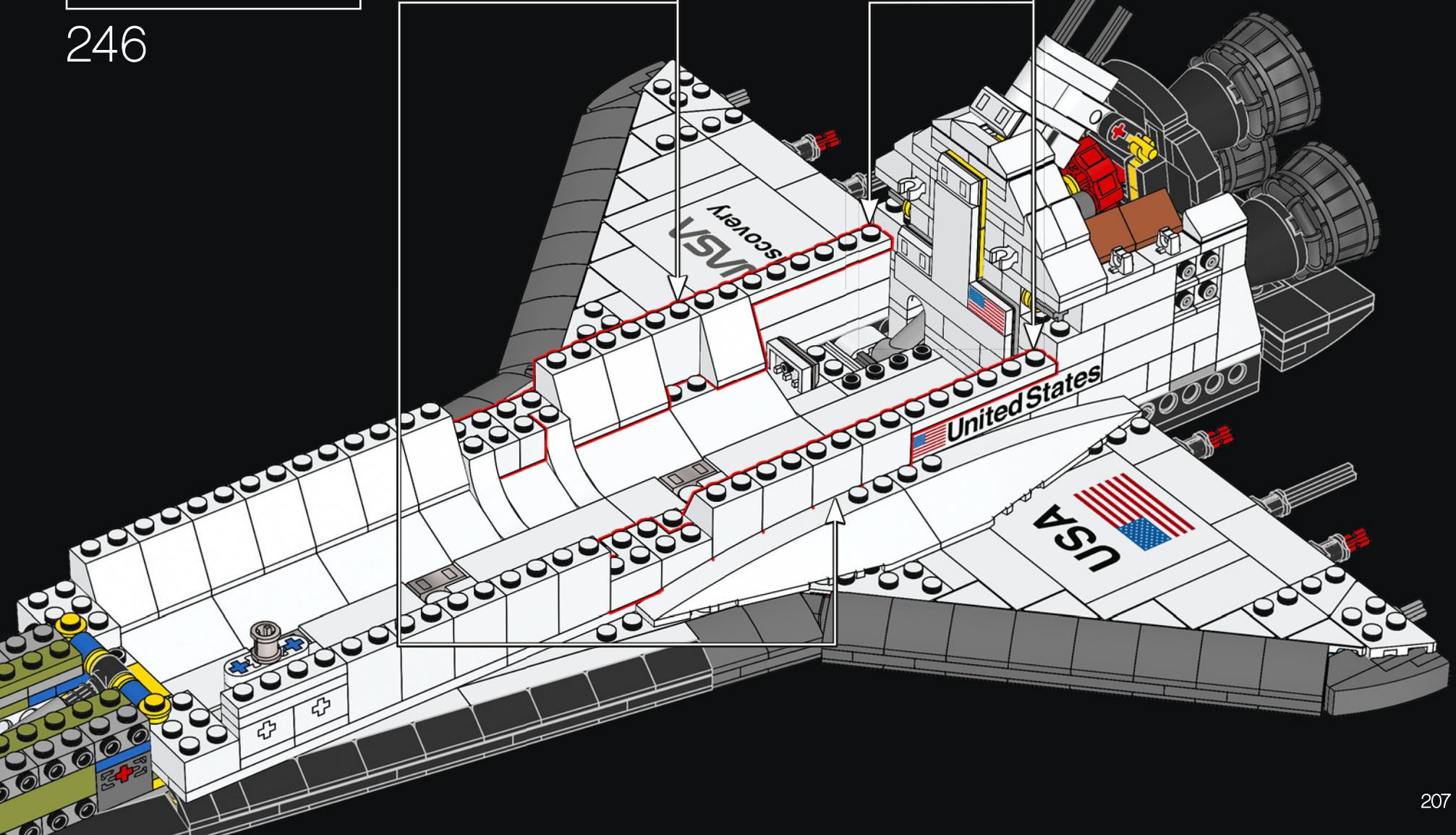


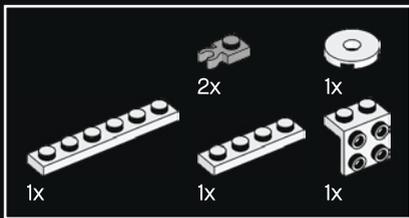
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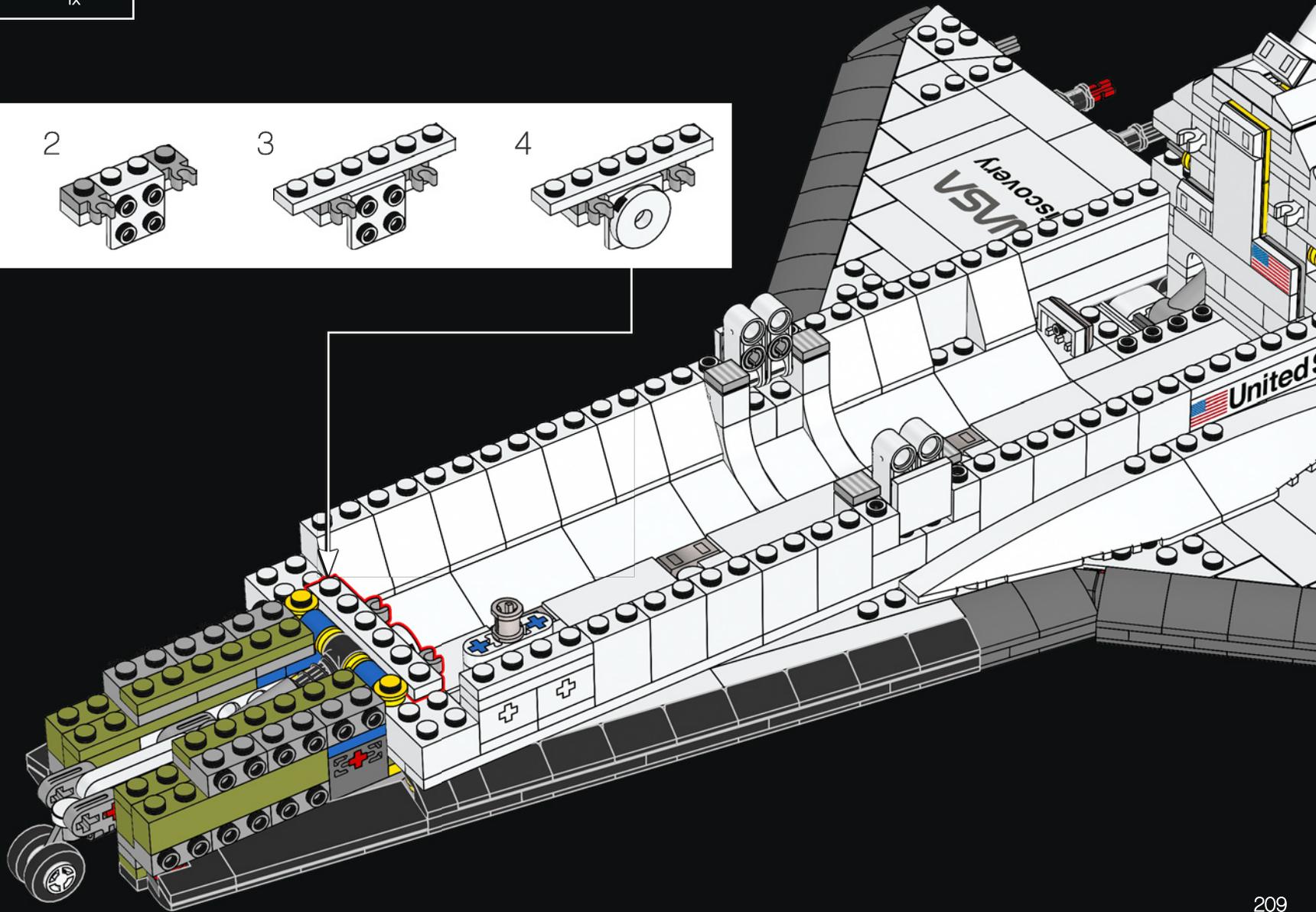
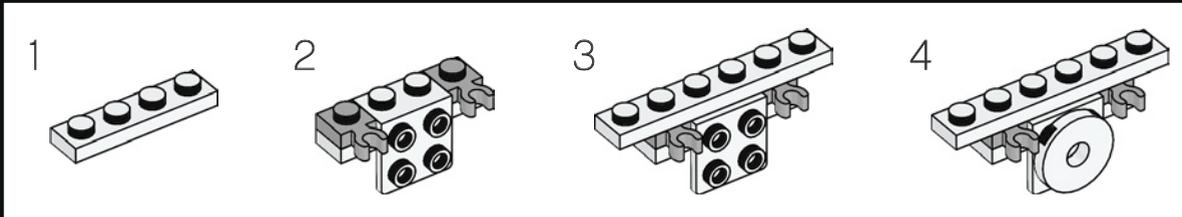


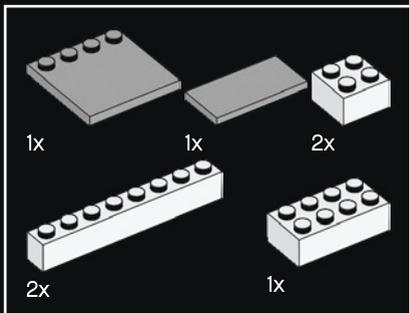
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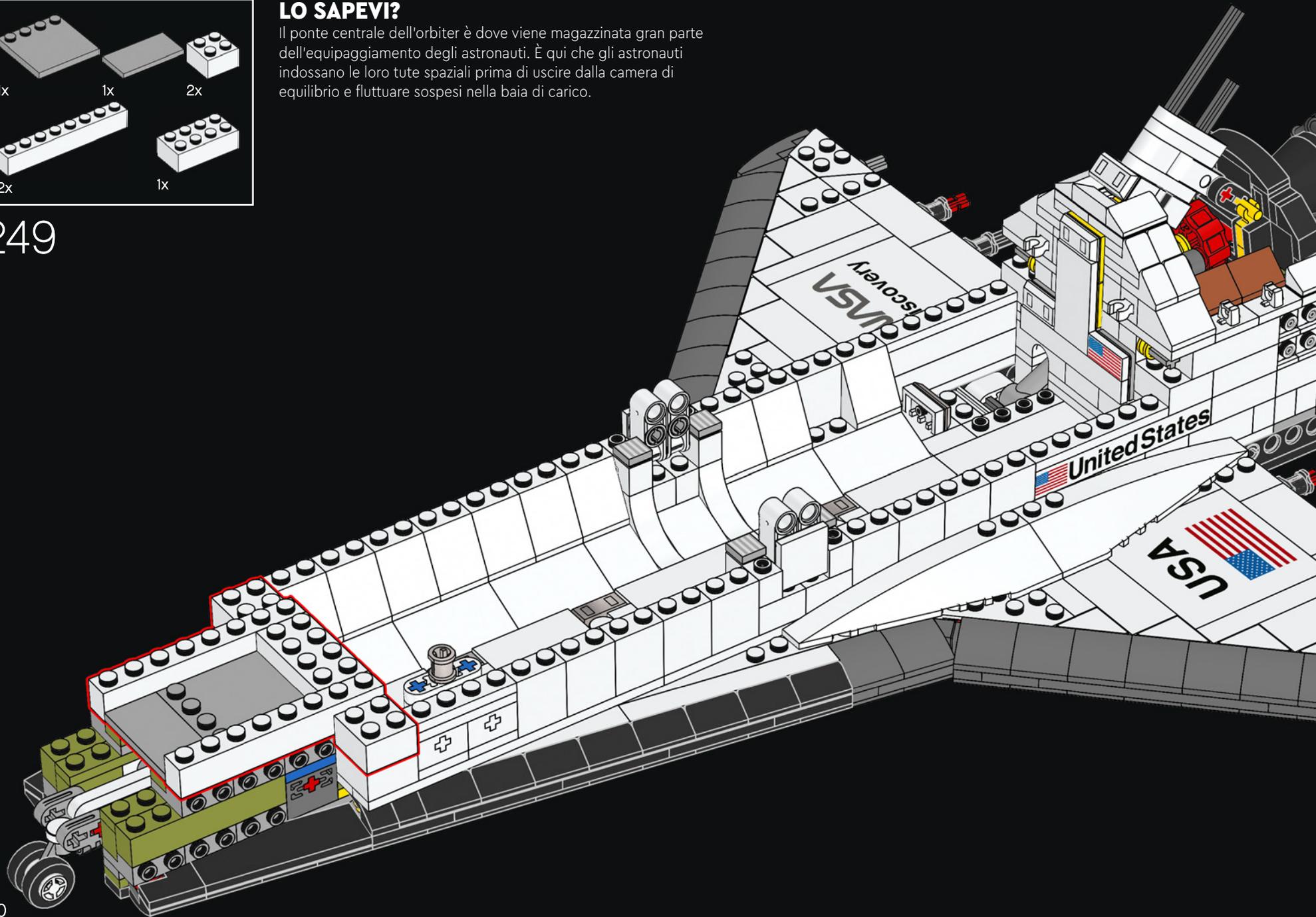


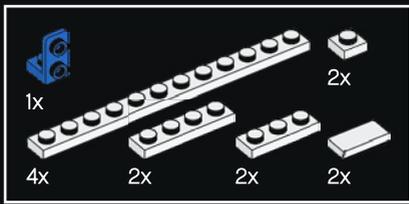


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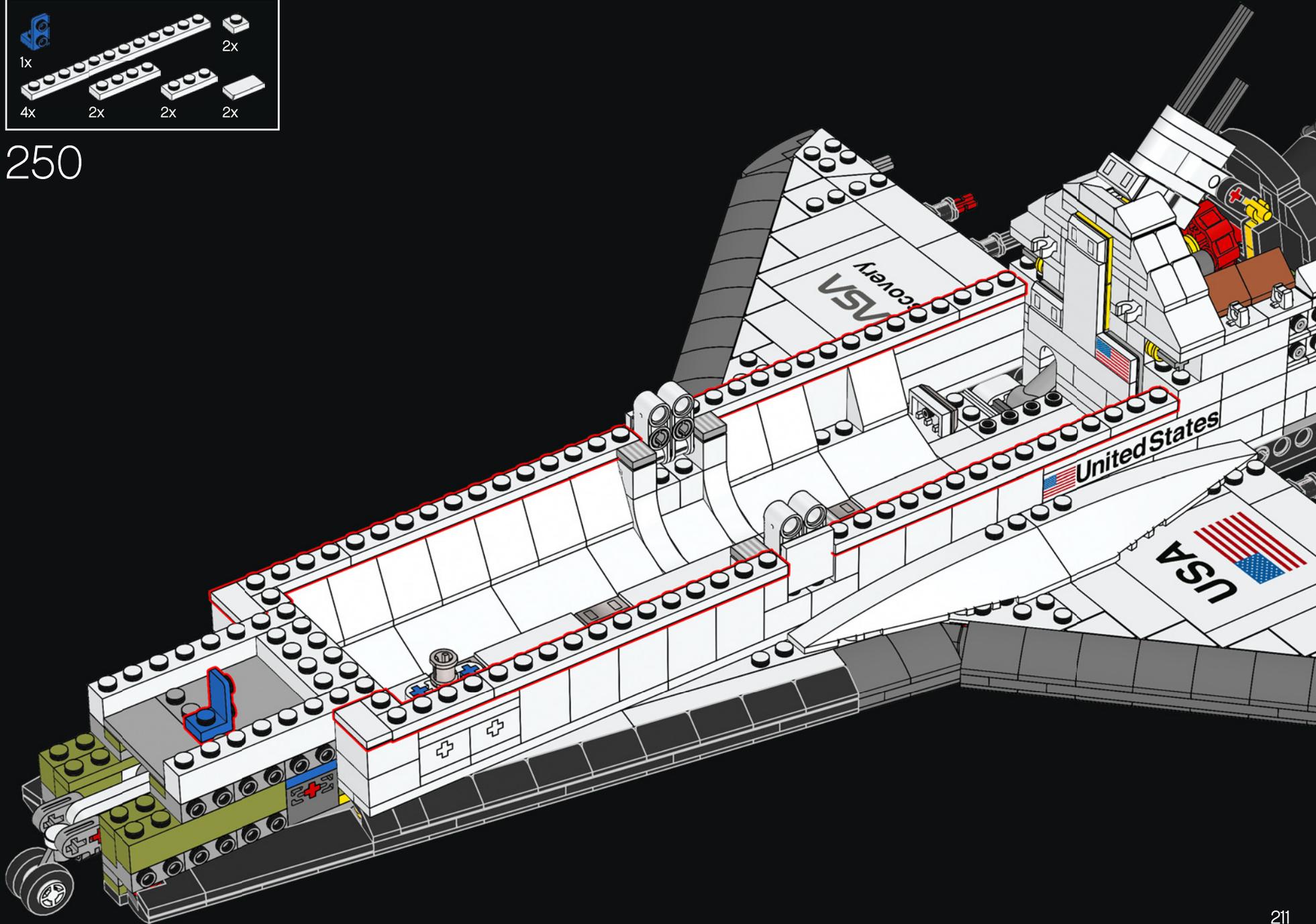
Il ponte centrale dell'orbiter è dove viene magazzinata gran parte dell'equipaggiamento degli astronauti. È qui che gli astronauti indossano le loro tute spaziali prima di uscire dalla camera di equilibrio e fluttuare sospesi nella baia di carico.

249



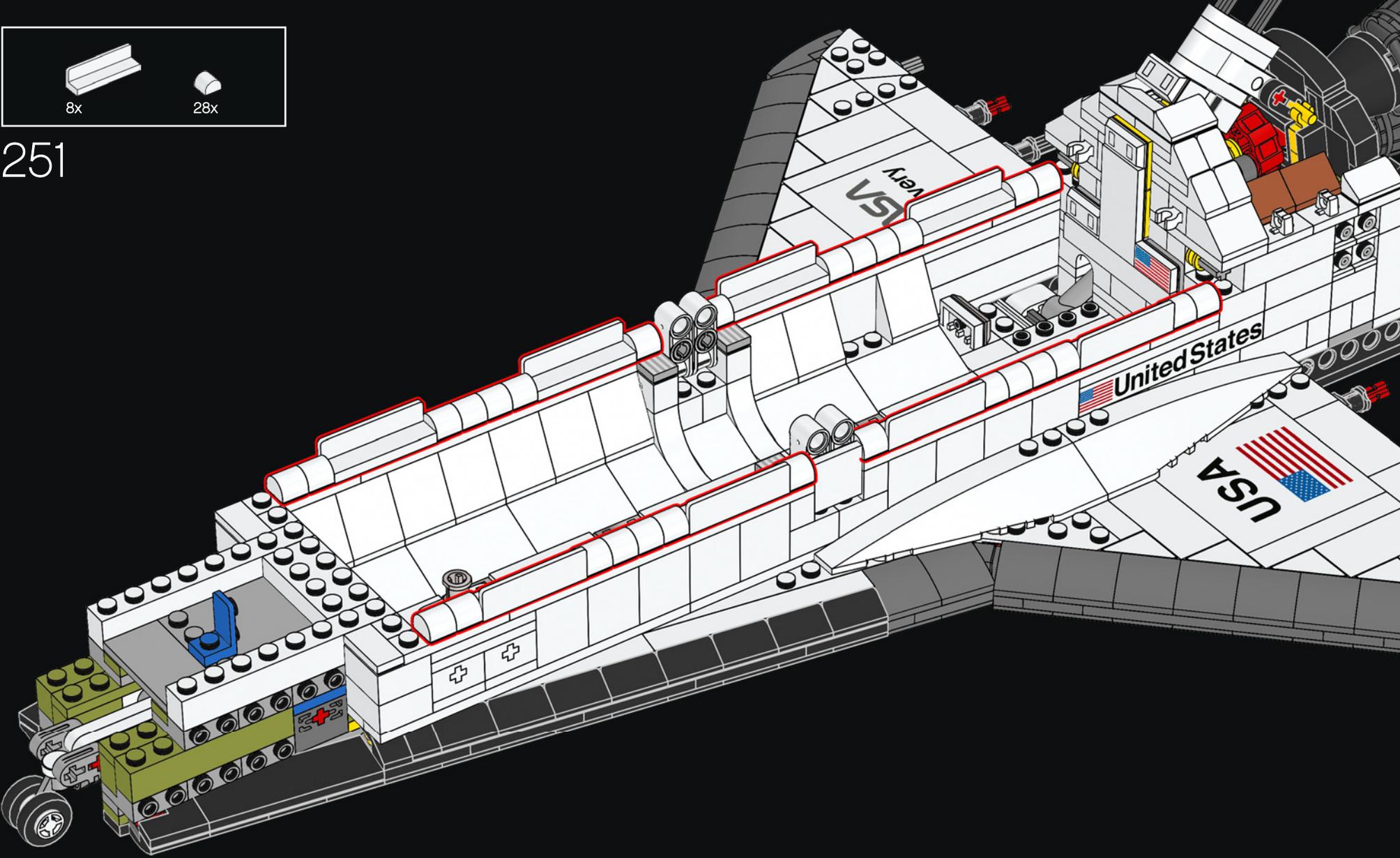


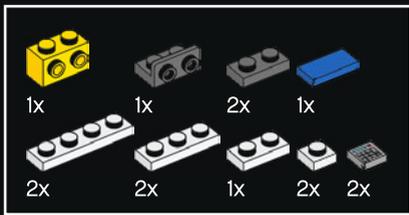
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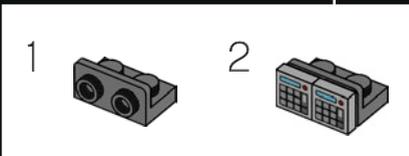
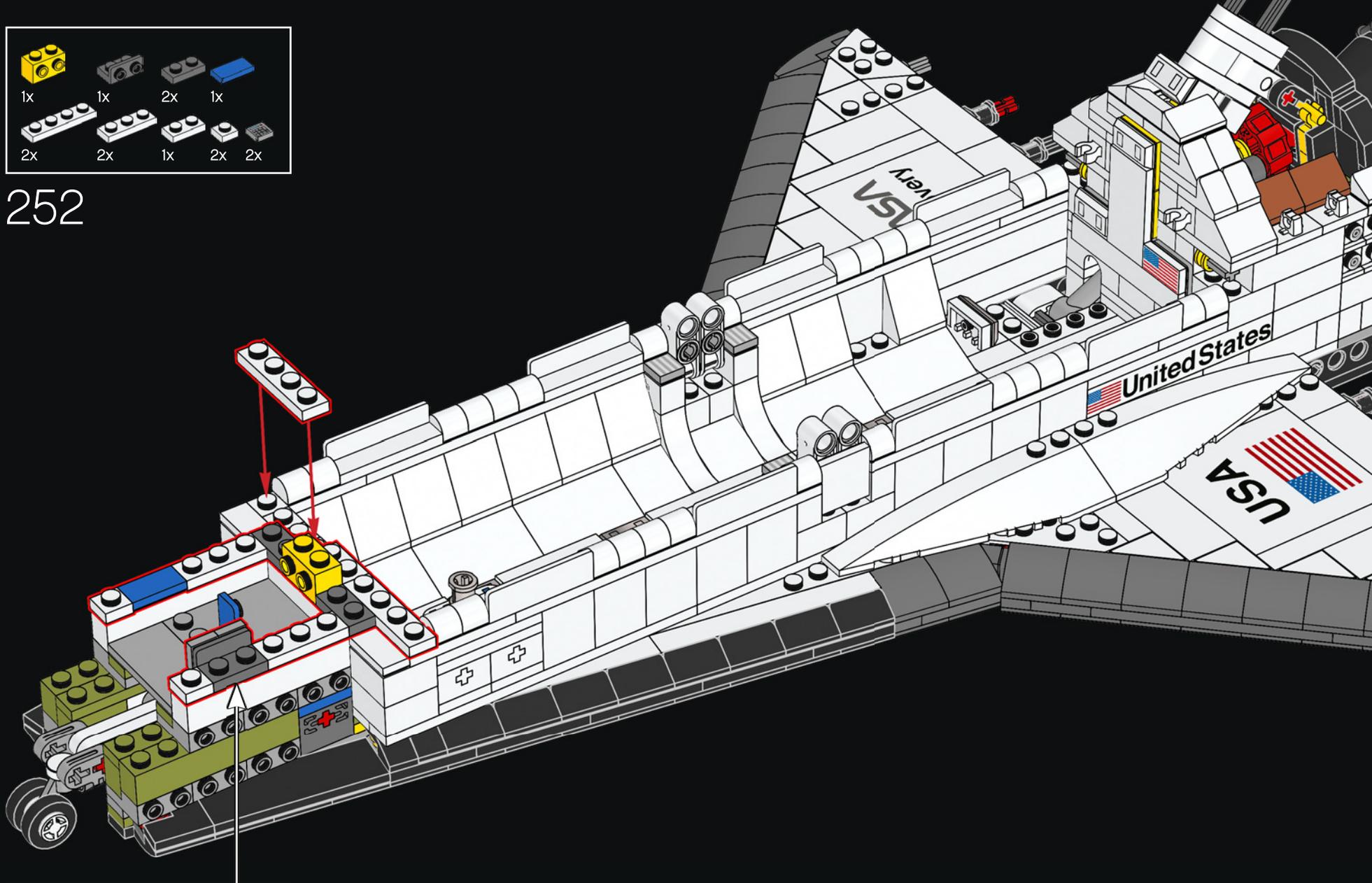


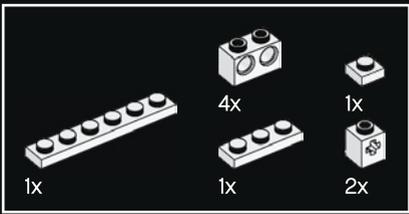
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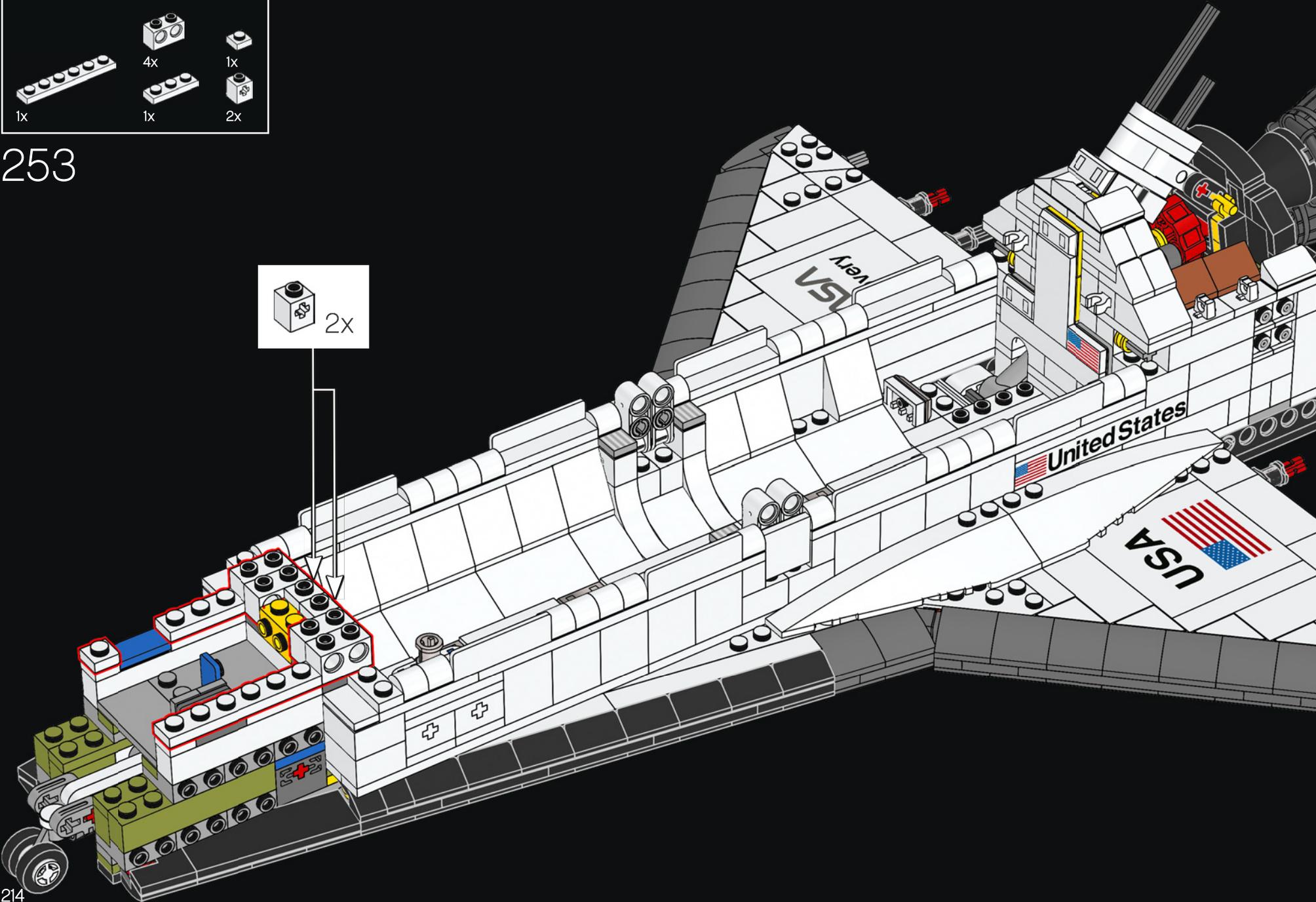


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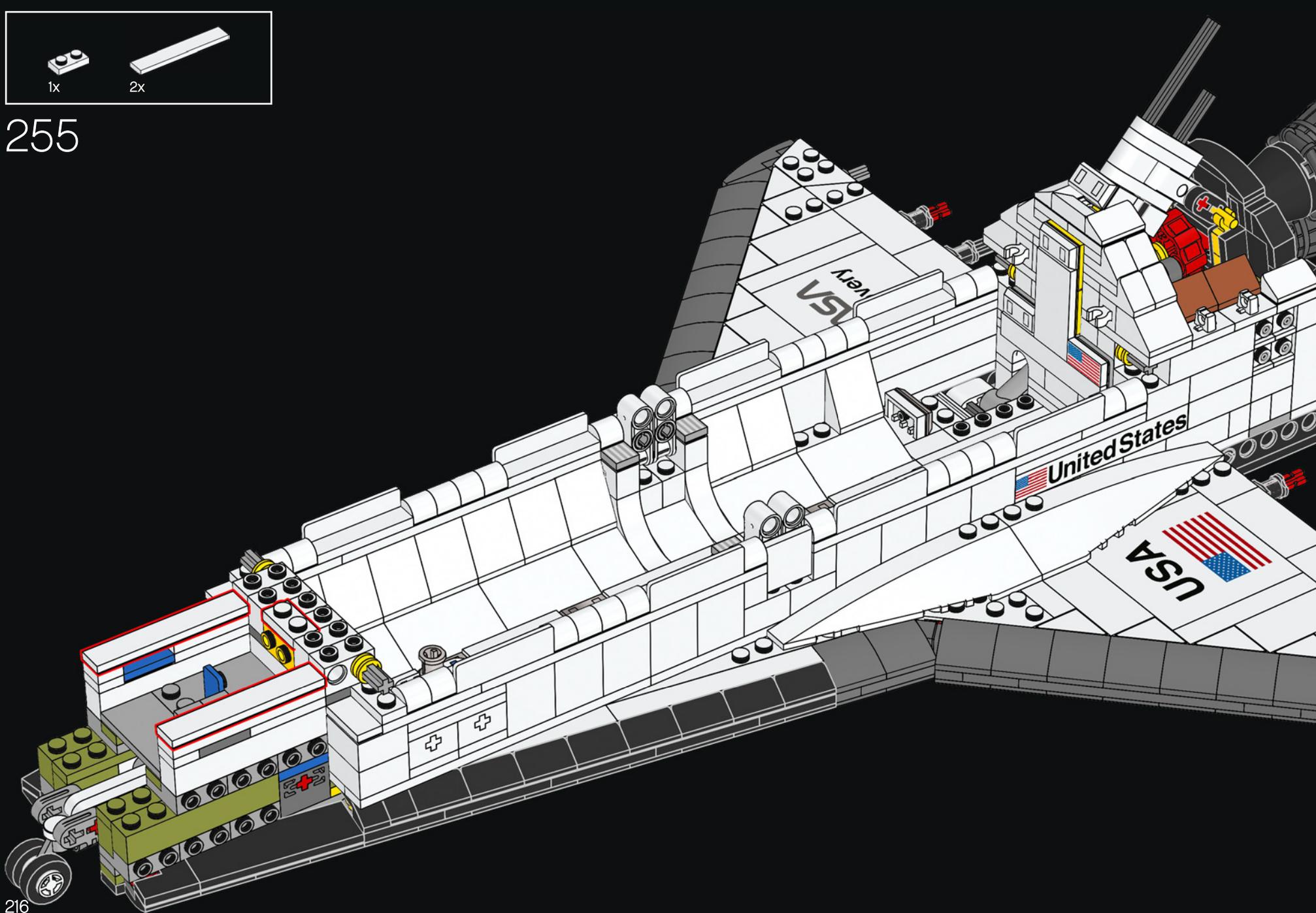


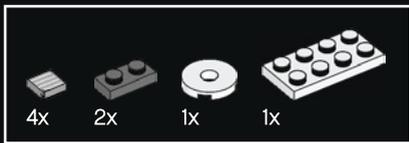
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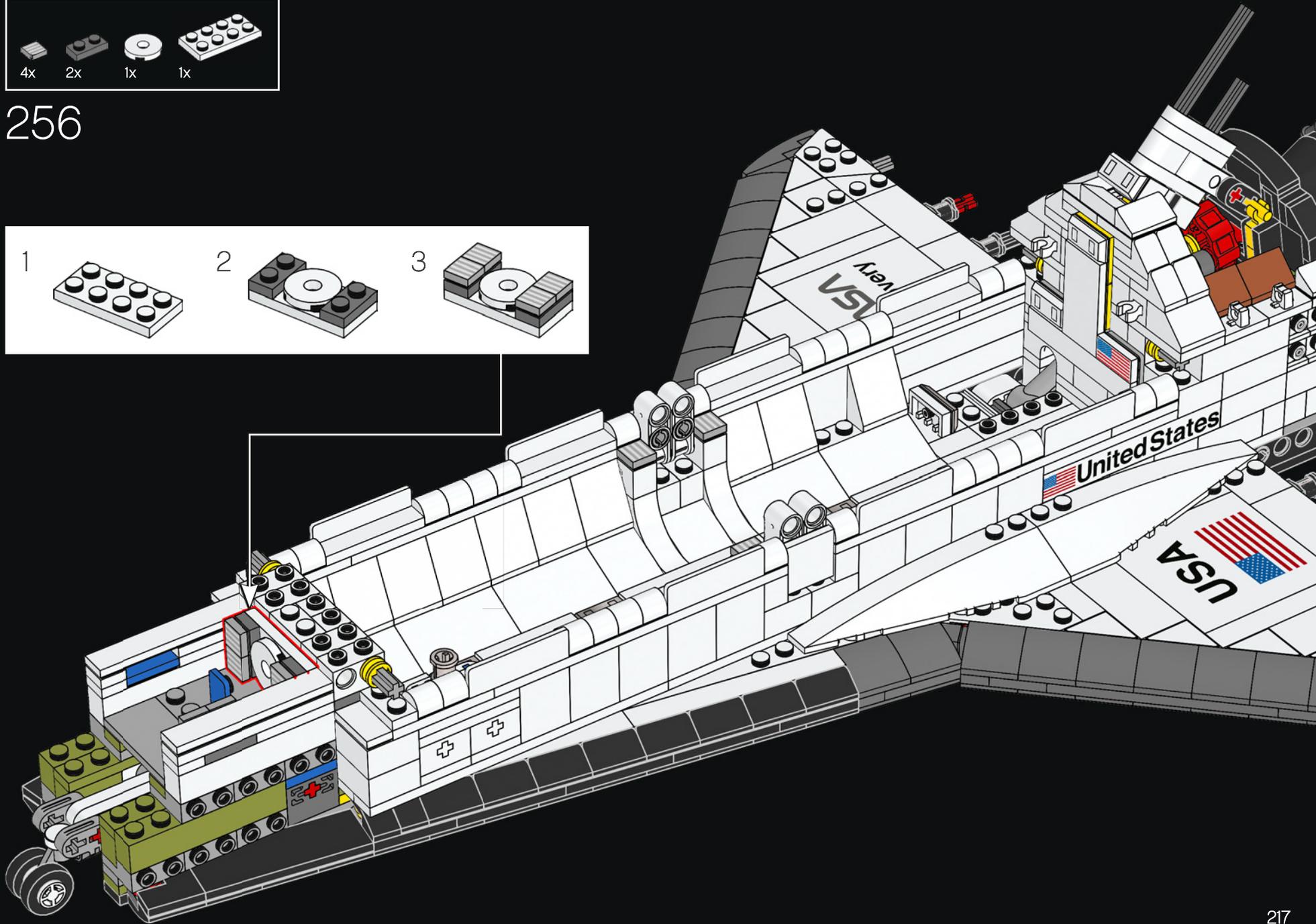
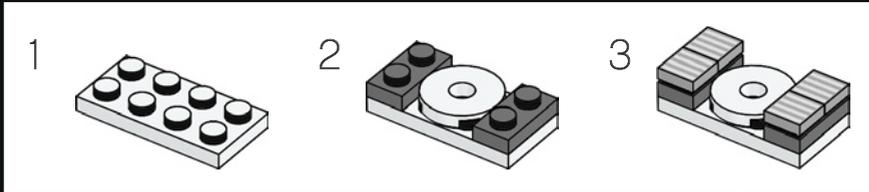


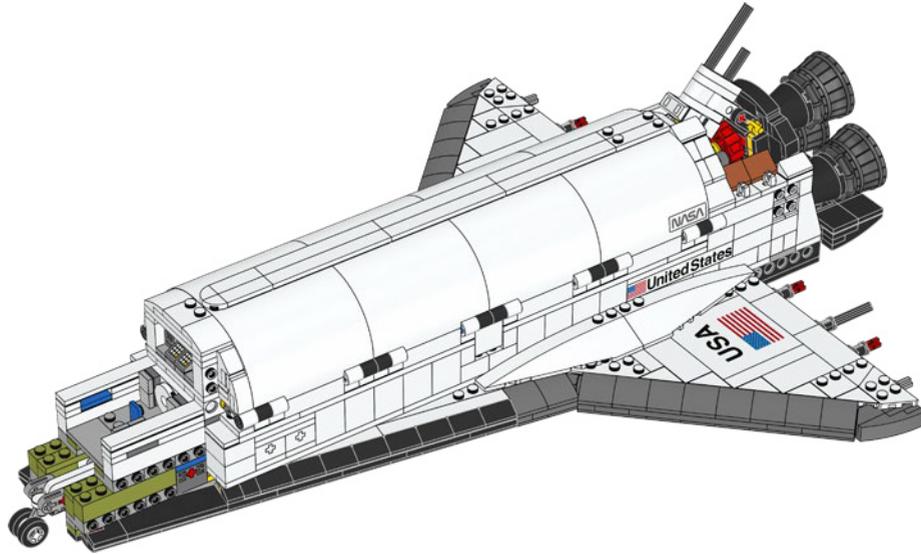
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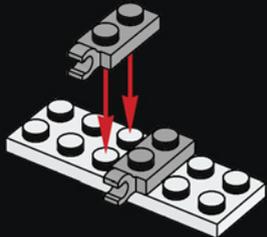


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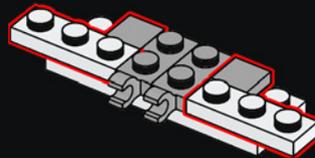




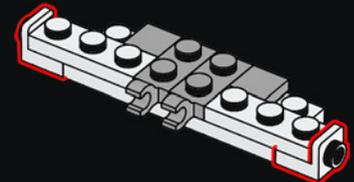
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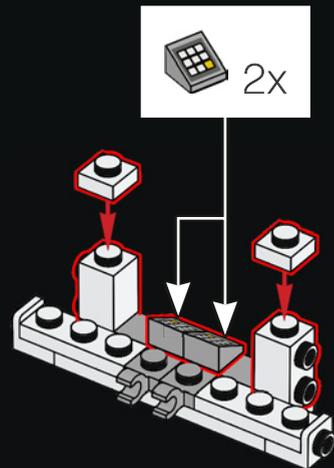


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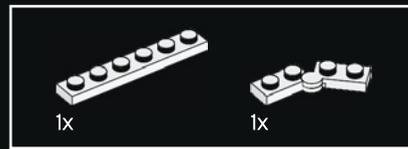
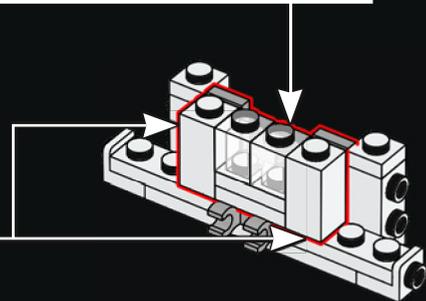
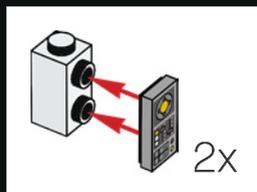
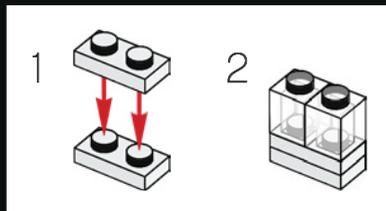




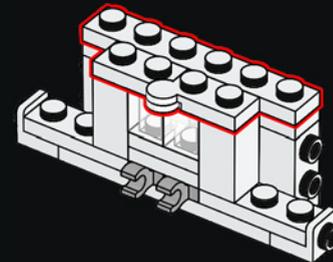
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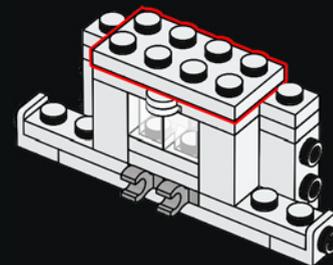
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262

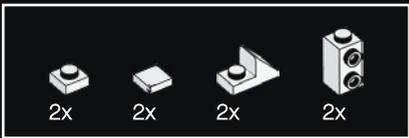
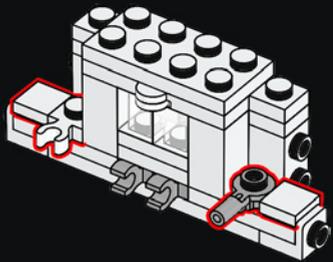


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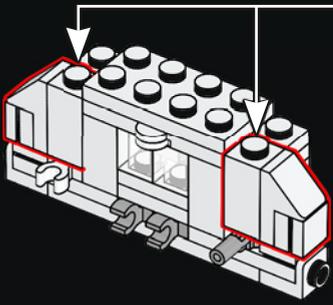
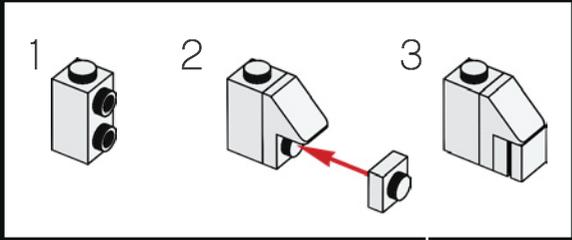




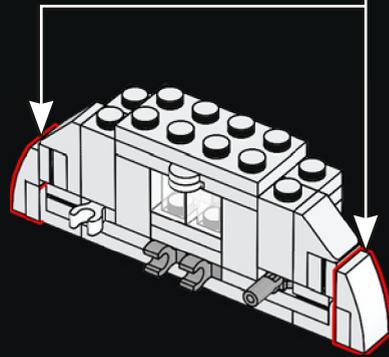
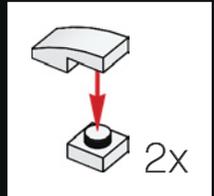
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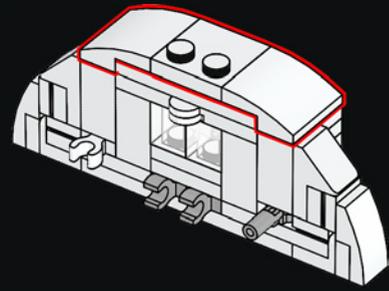
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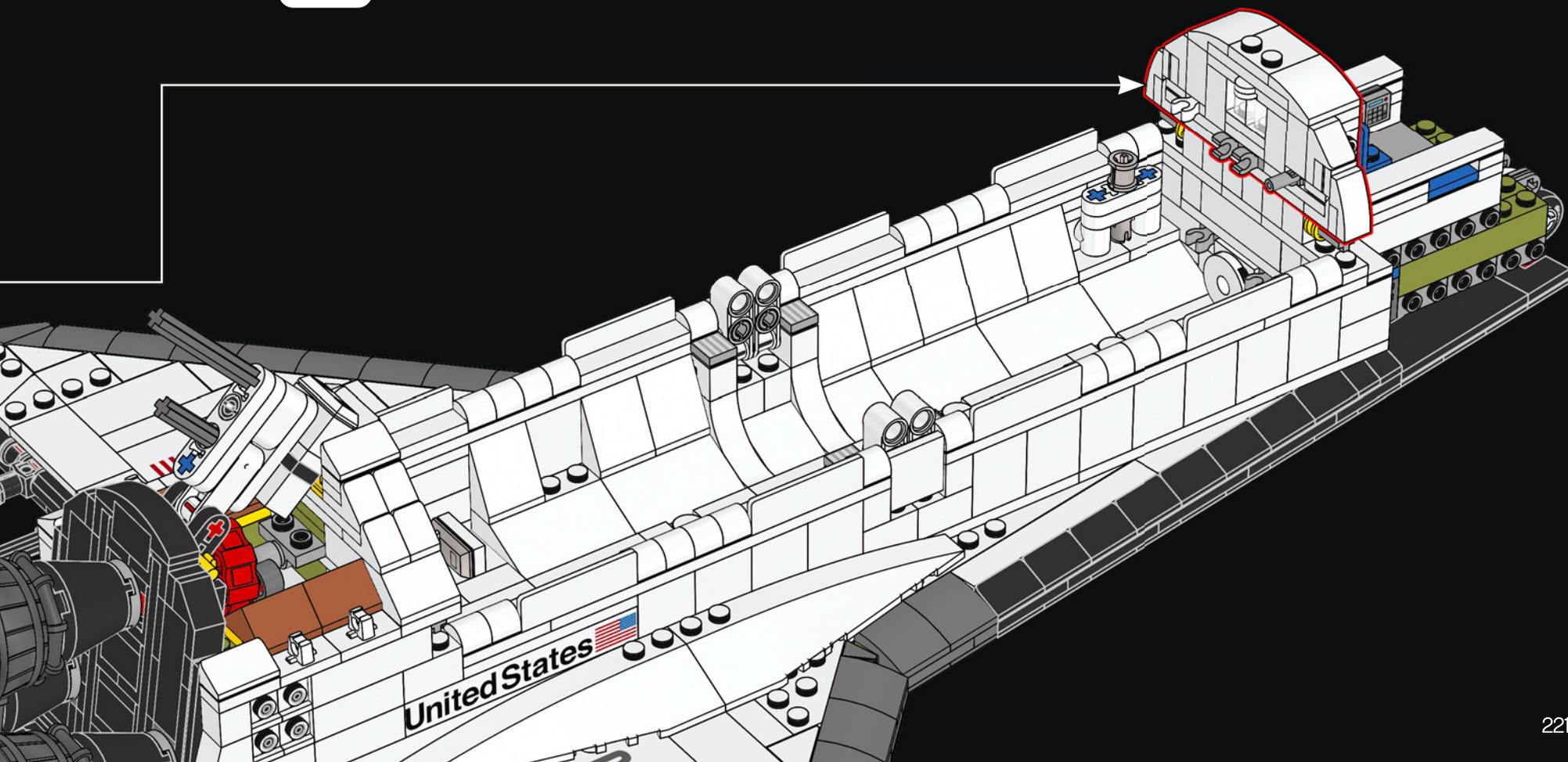


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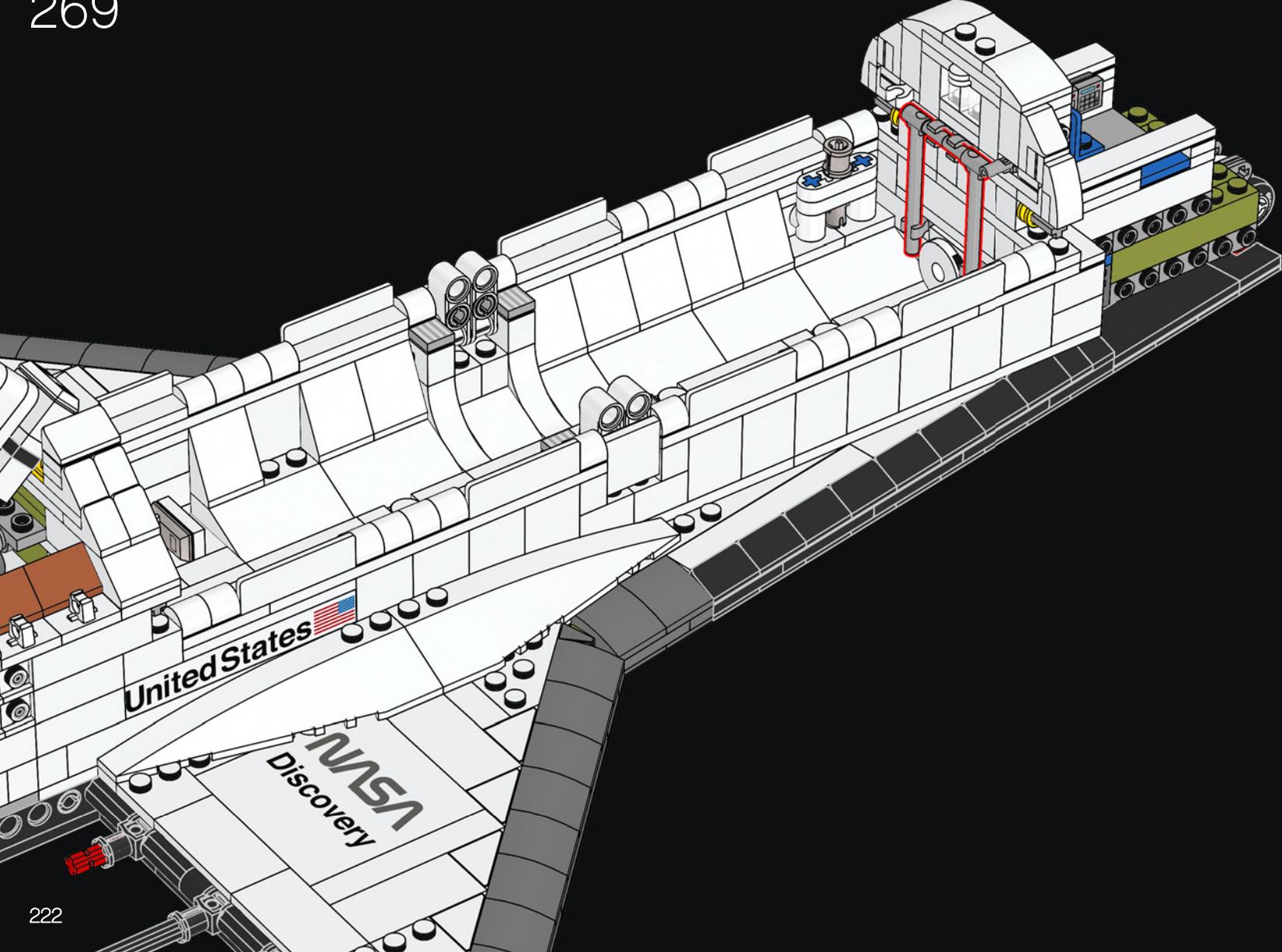
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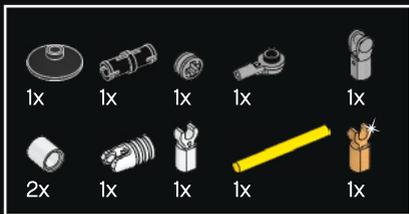




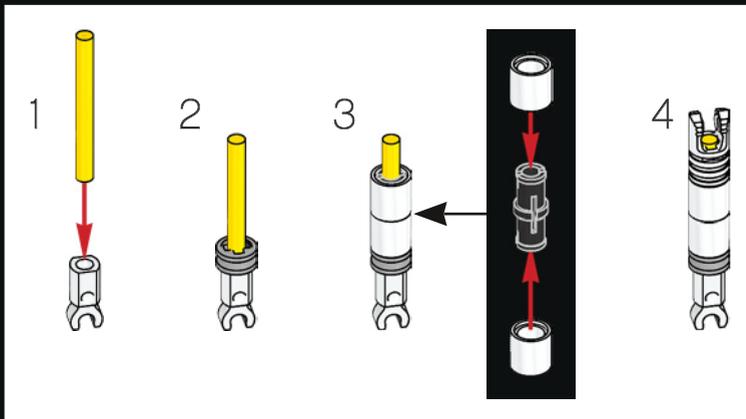
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222

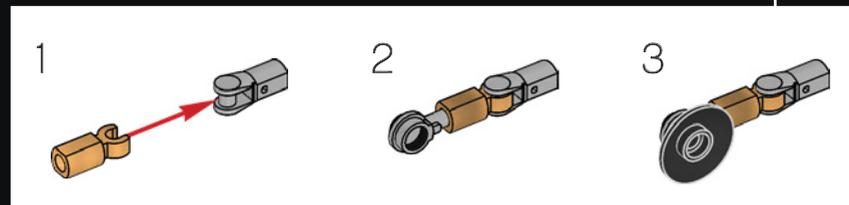
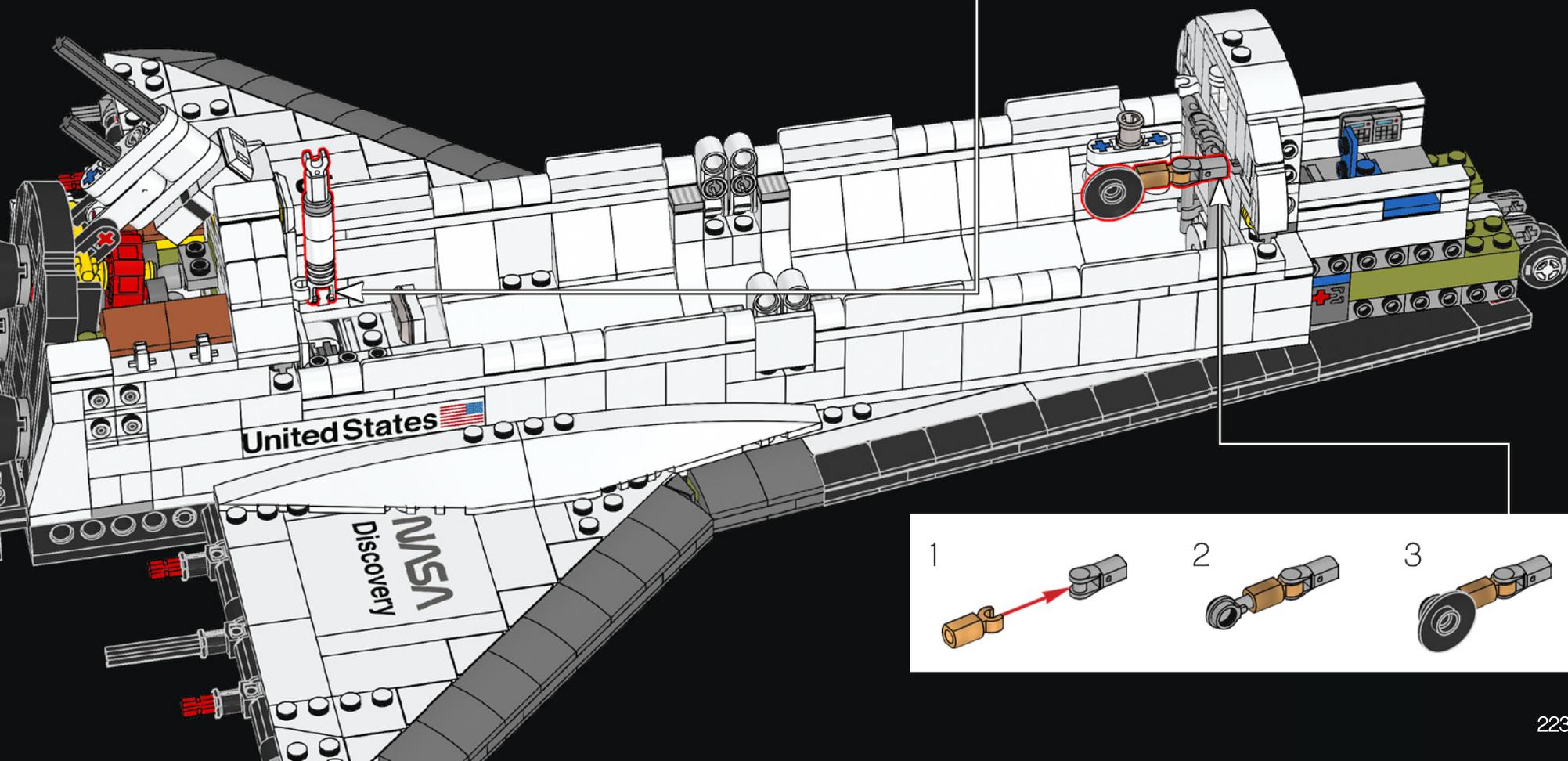


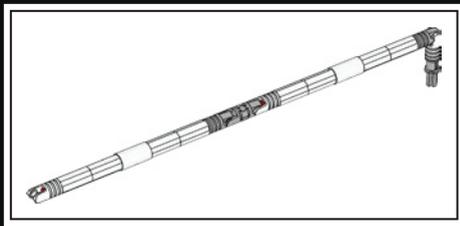
270



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L'antenna di banda Ku viene utilizzata in orbita e consente all'equipaggio dello shuttle di inviare e ricevere comunicazioni dalla Terra.

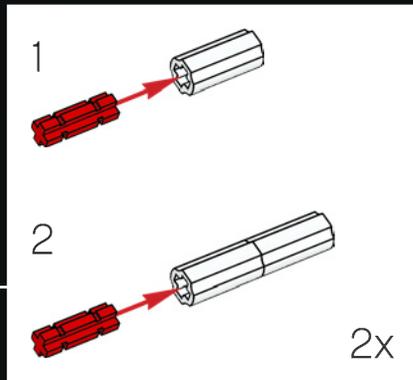
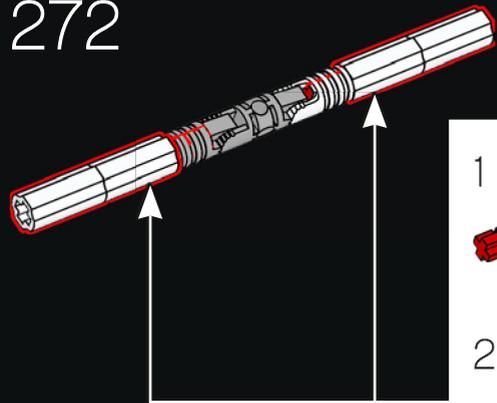




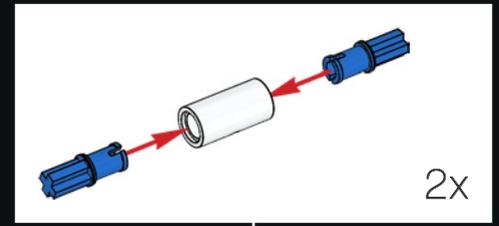
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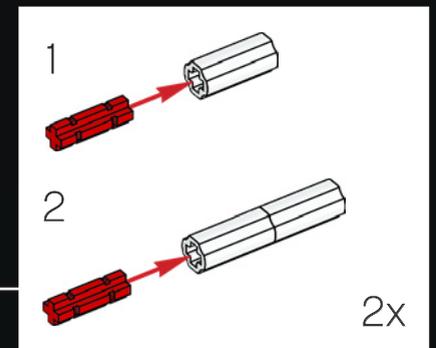
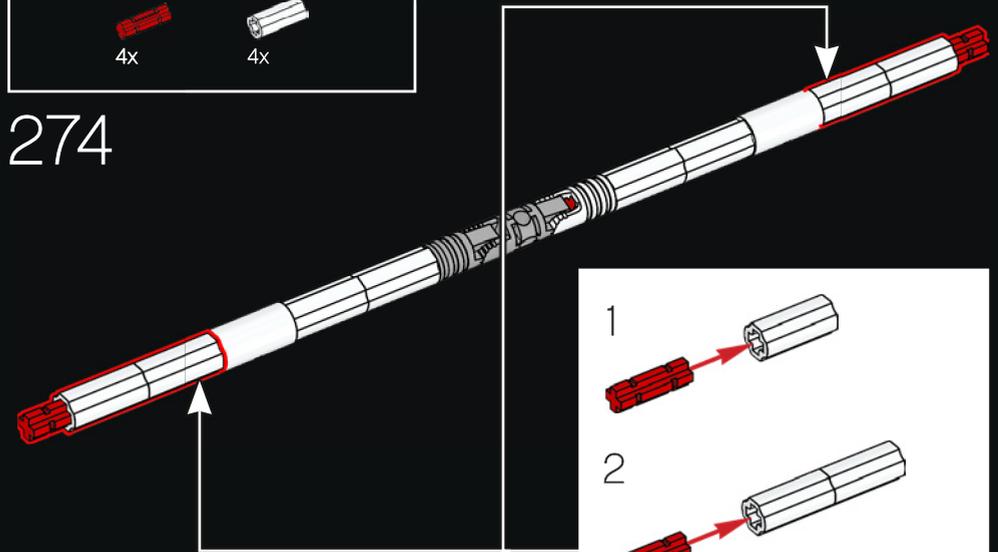
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273

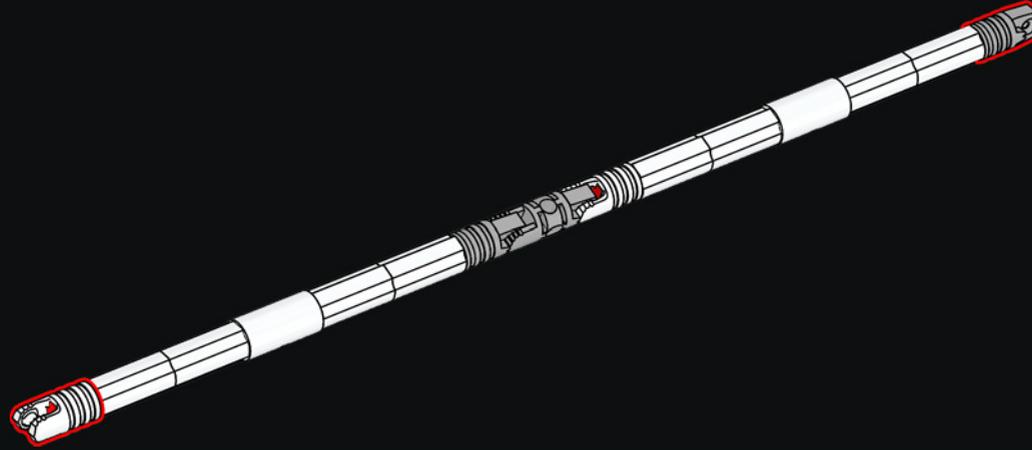


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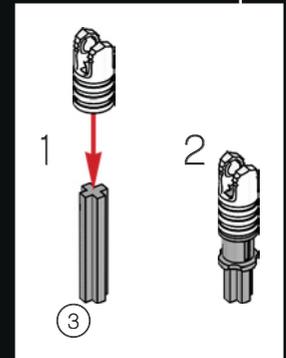
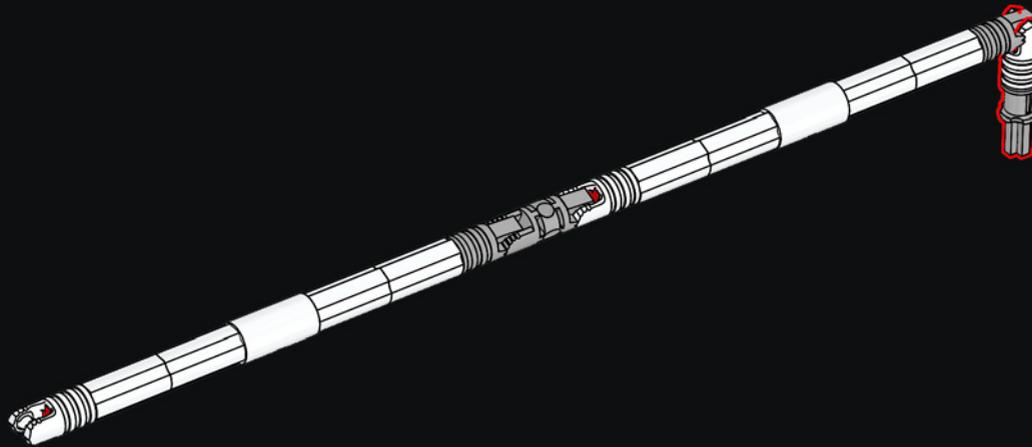




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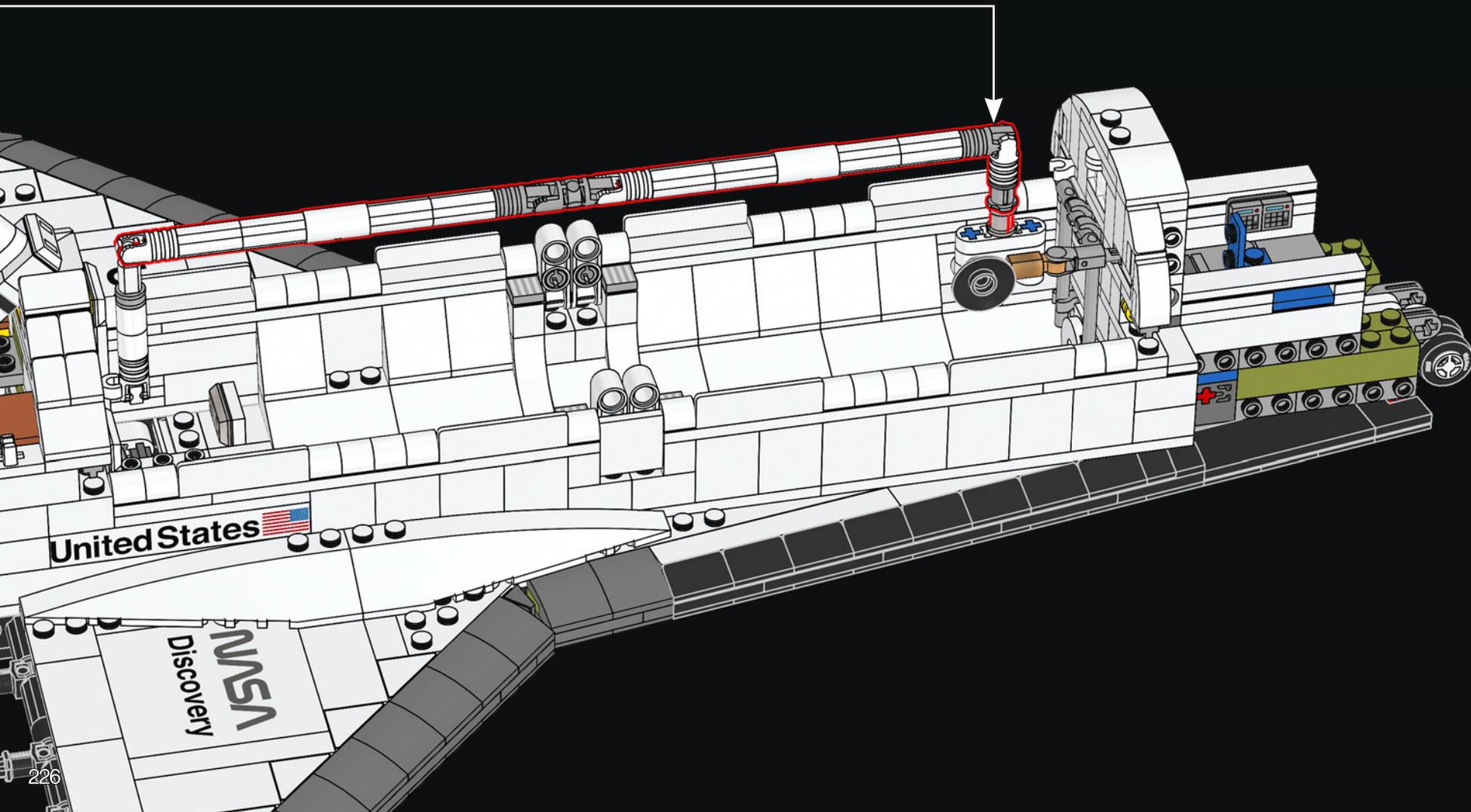
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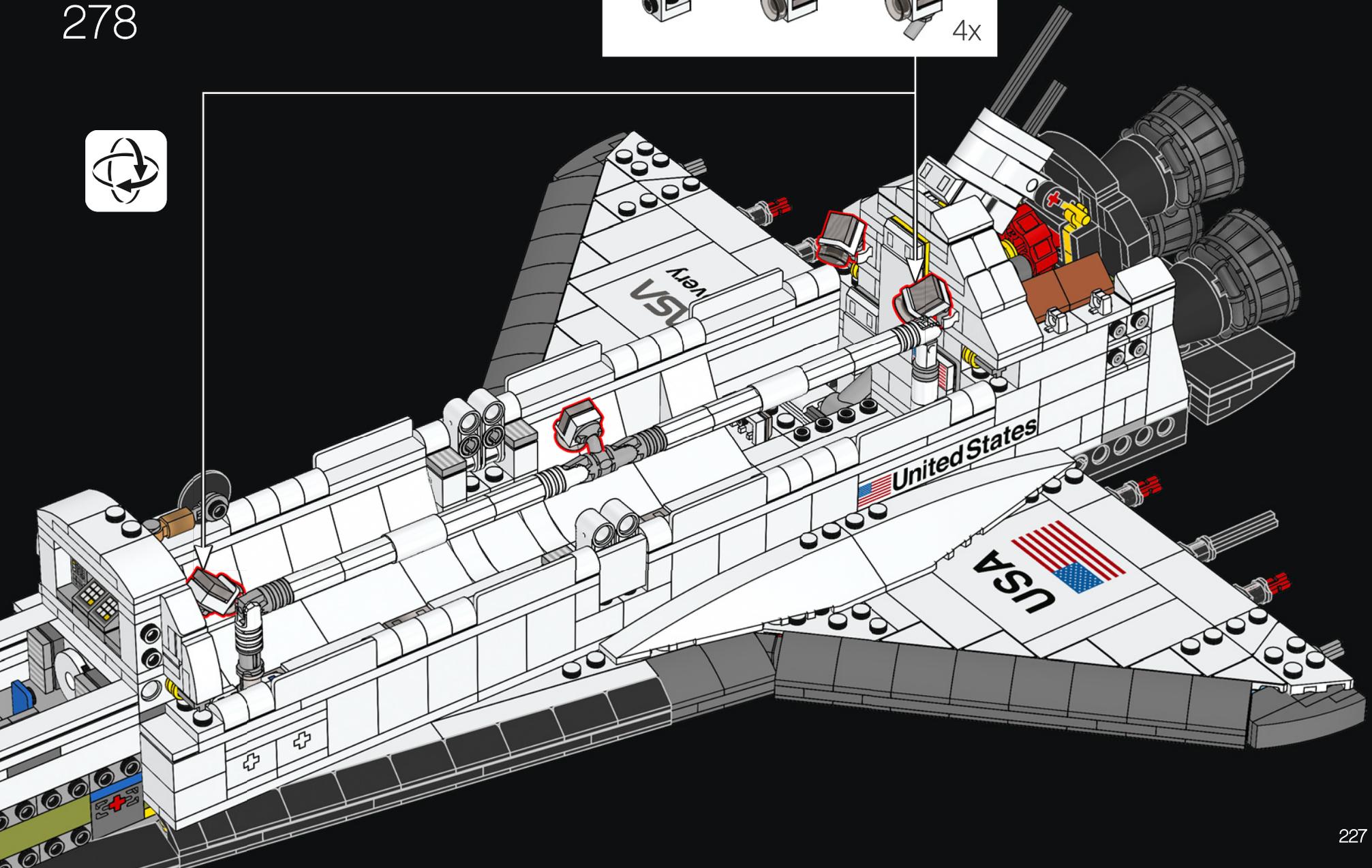
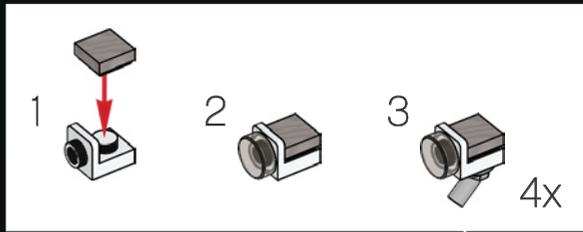
Il Remote Manipulator System (RMS) dello shuttle è stato utilizzato dagli astronauti all'interno della navetta per distribuire e manovrare il carico nella baia di carico e durante le passeggiate spaziali.

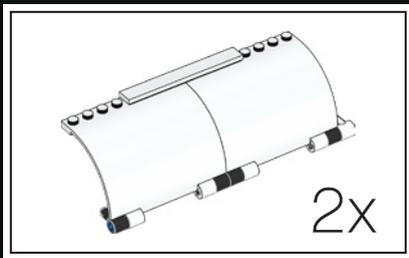
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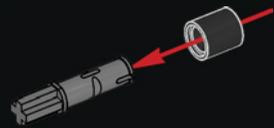


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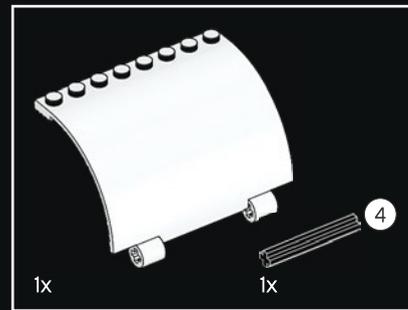




279



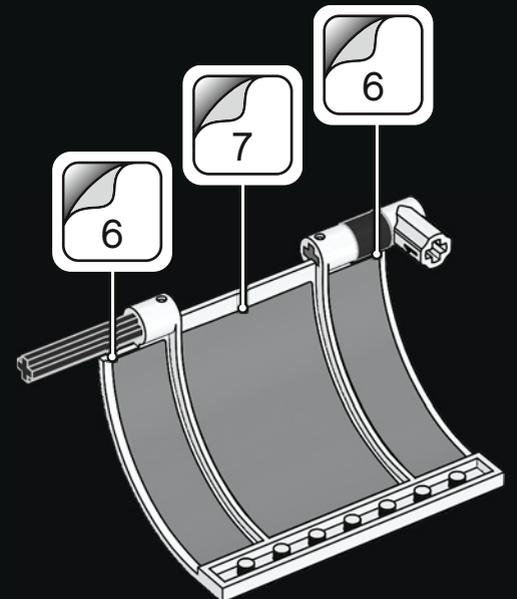
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281

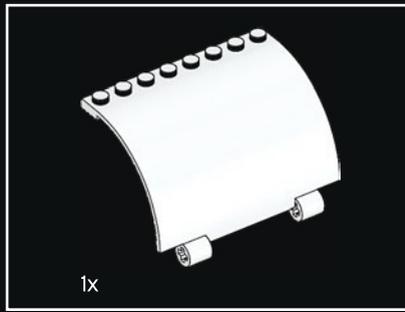
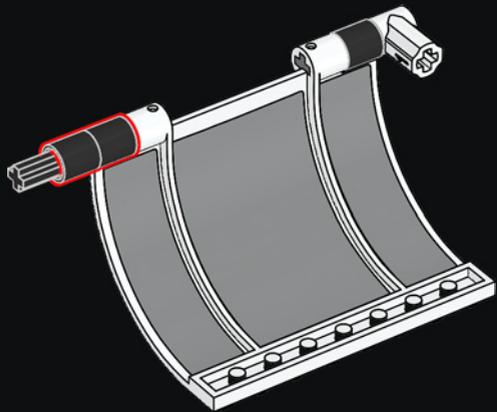


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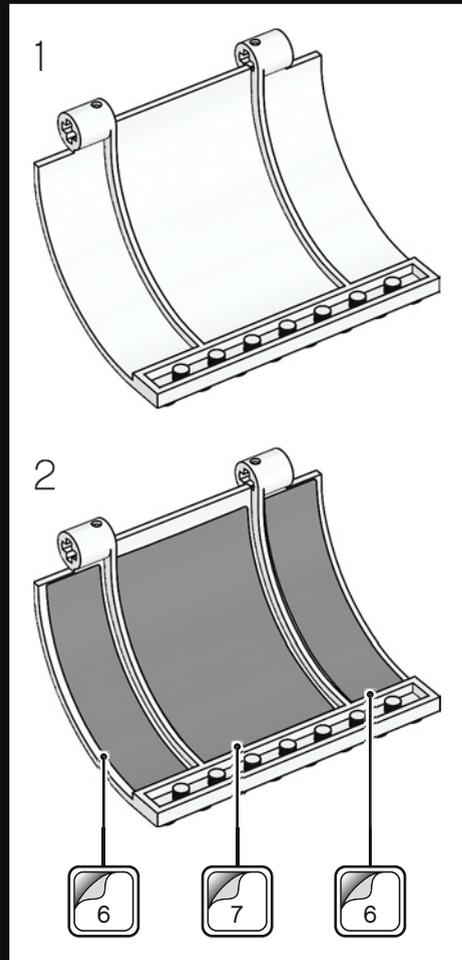
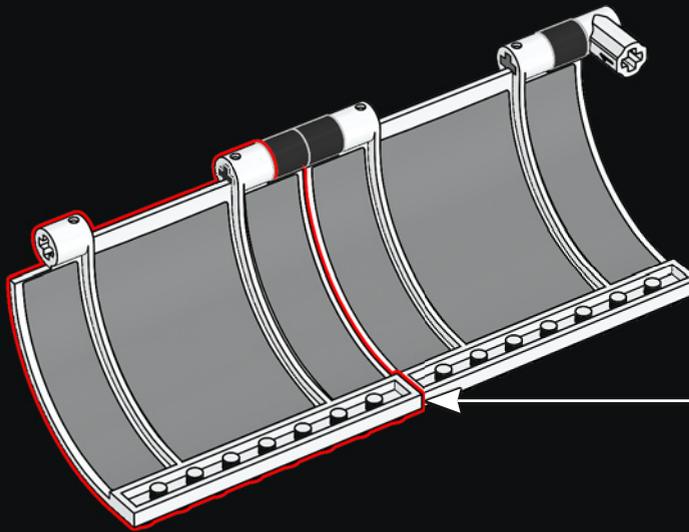




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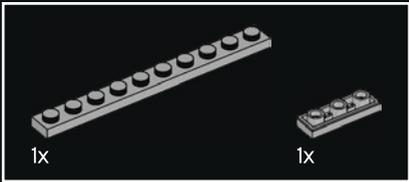
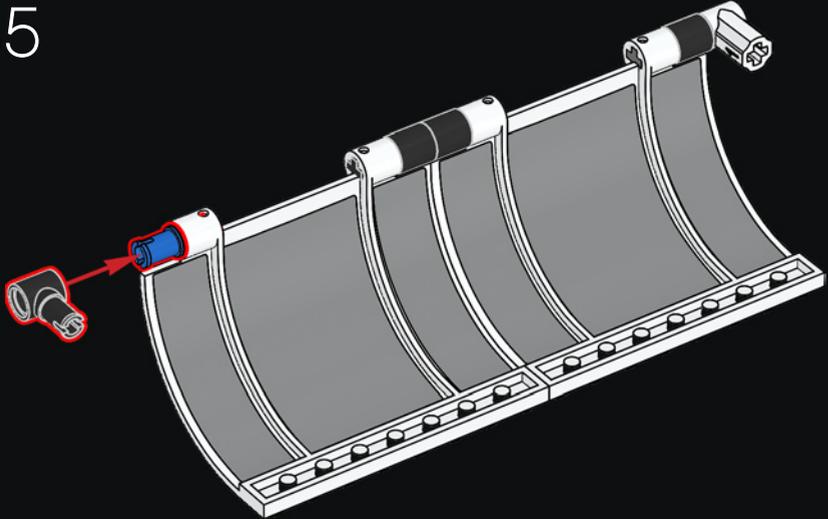


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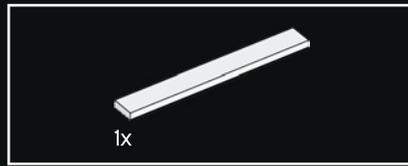
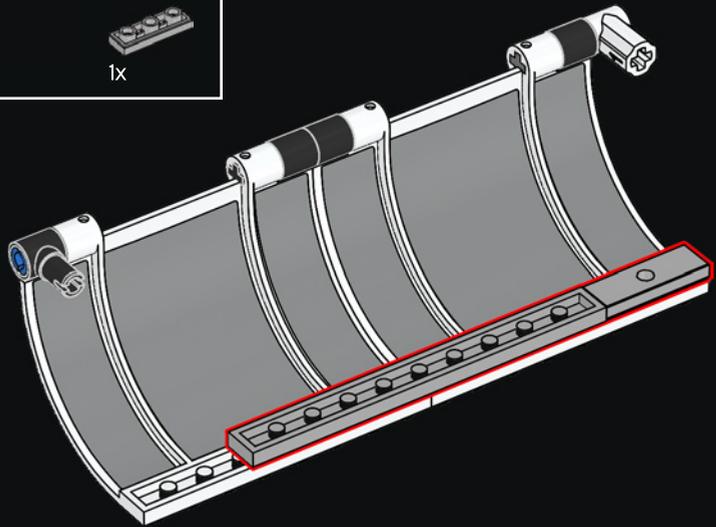




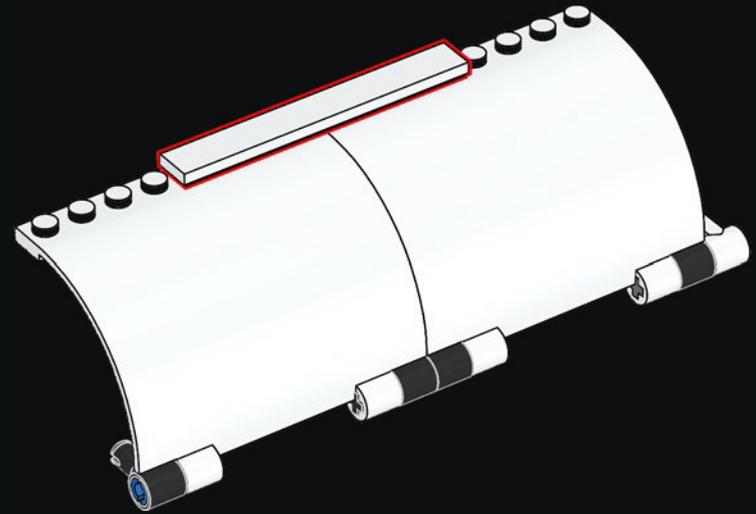
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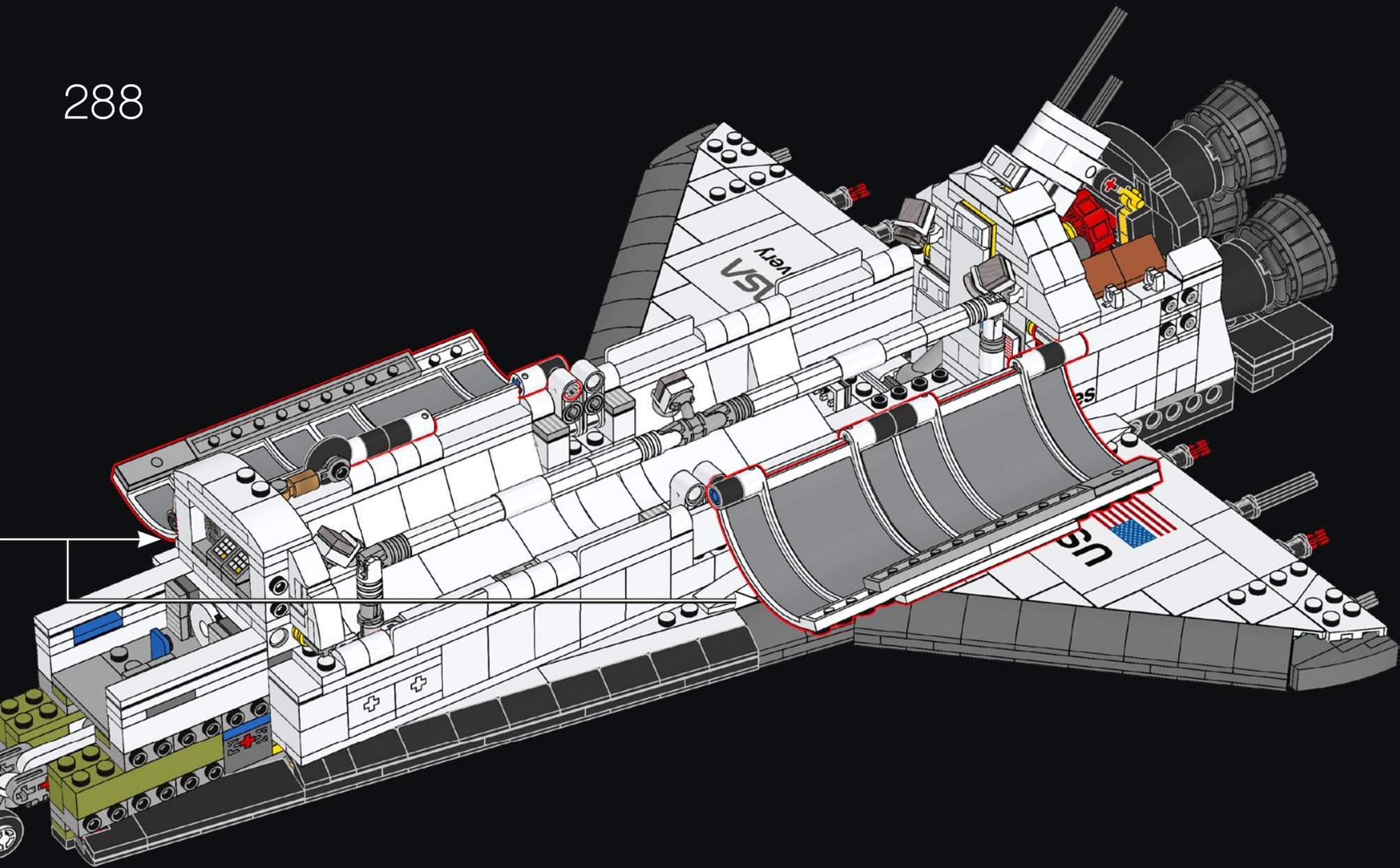
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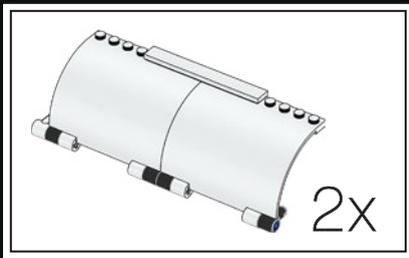


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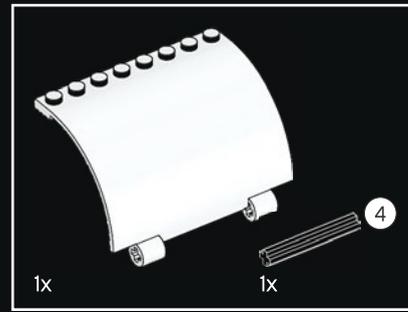




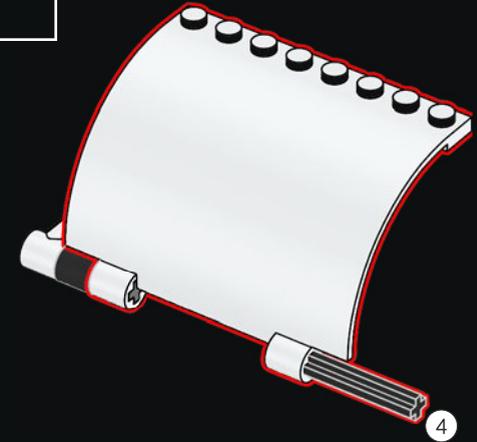
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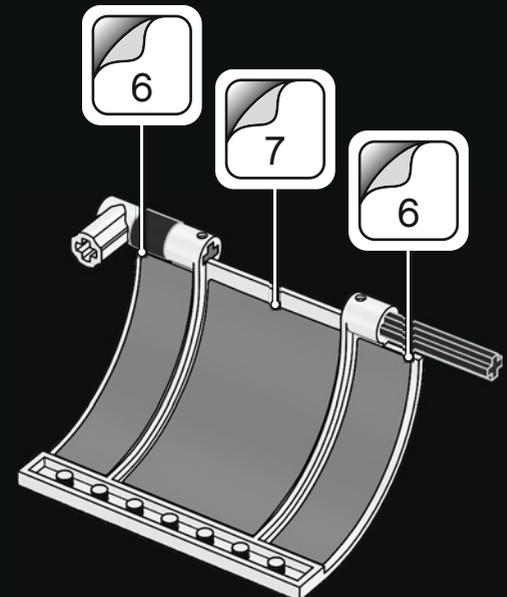
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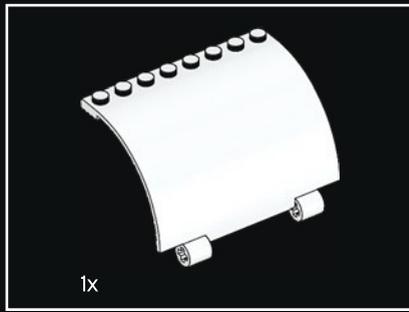


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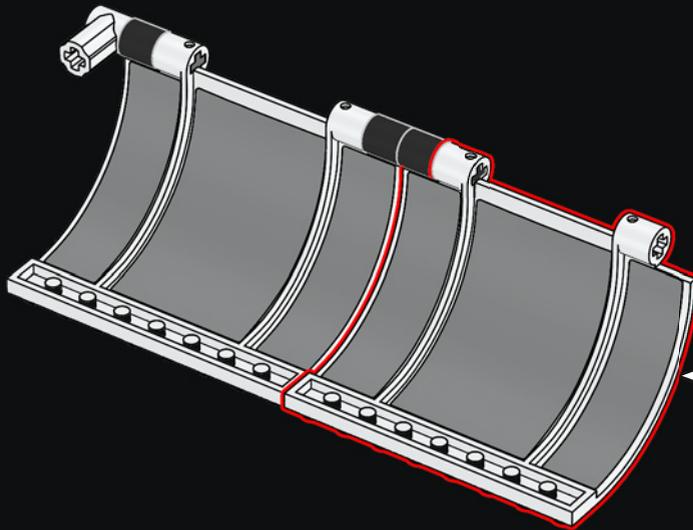
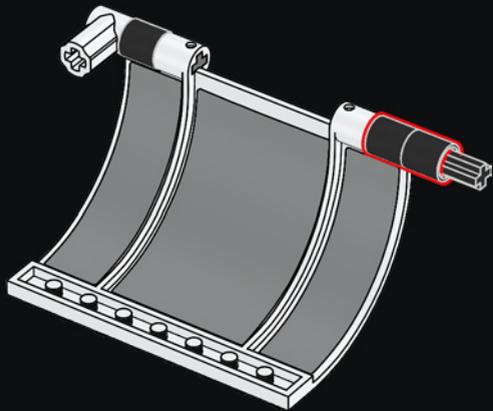
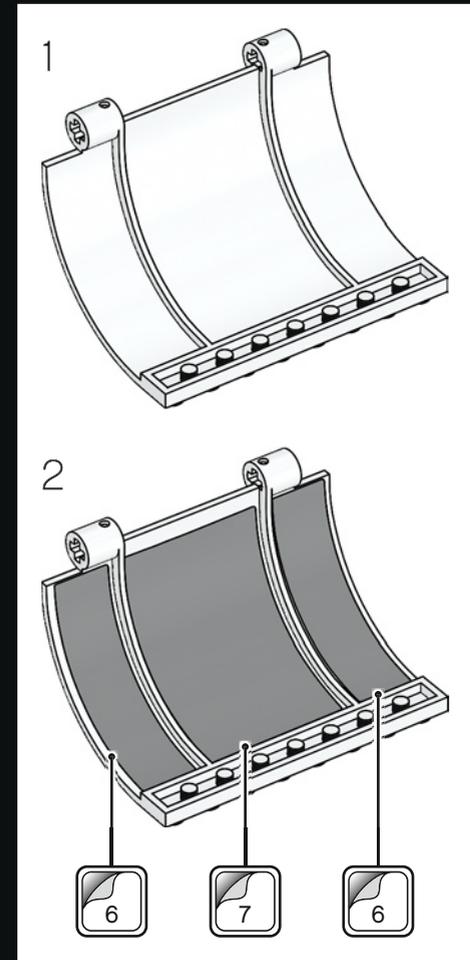




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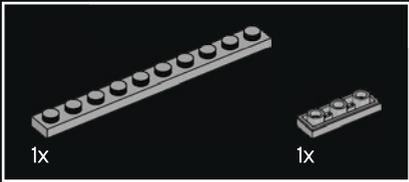
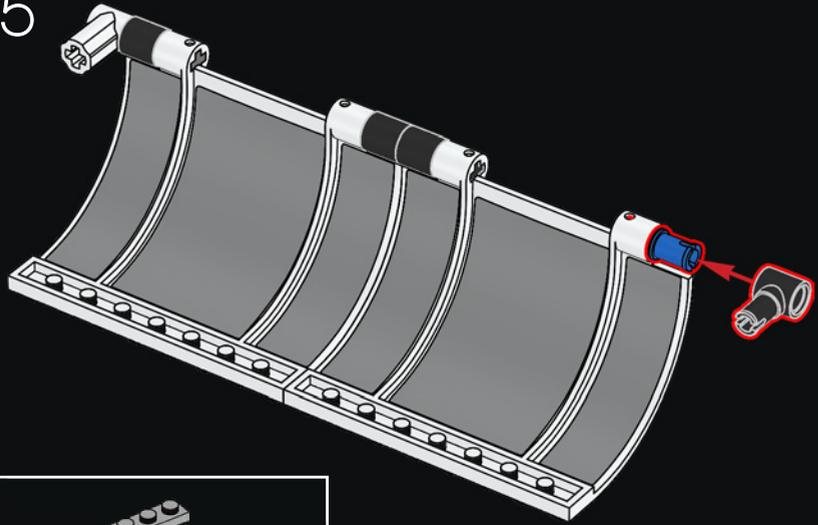


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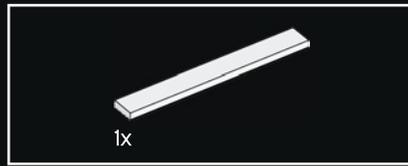
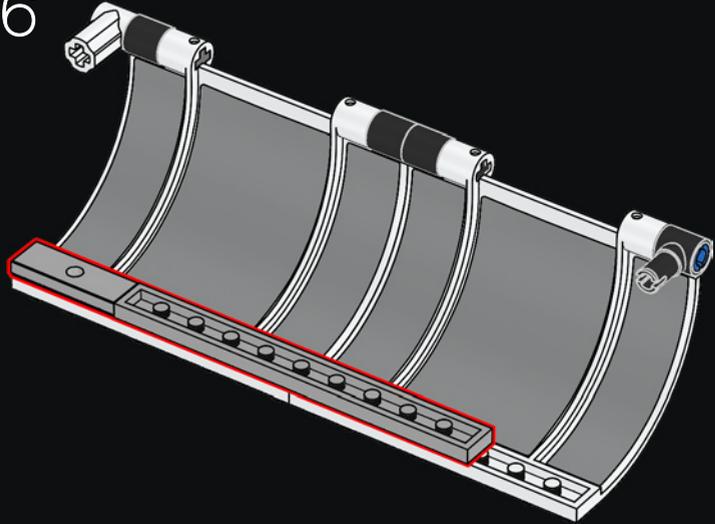




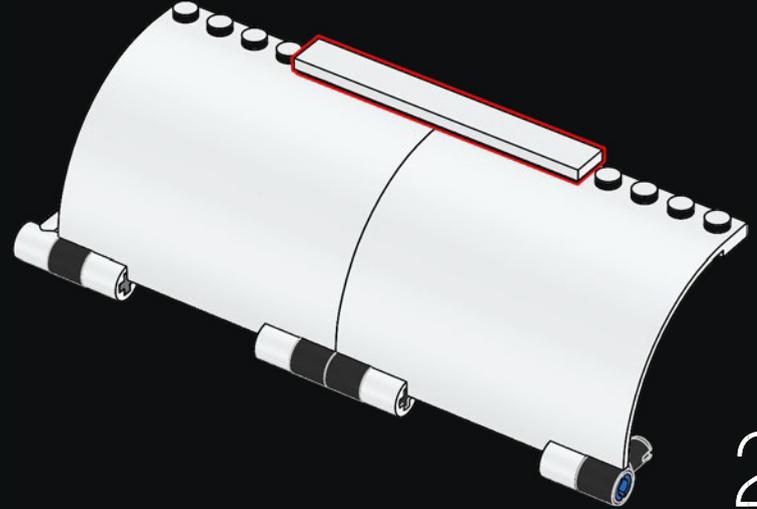
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296



297

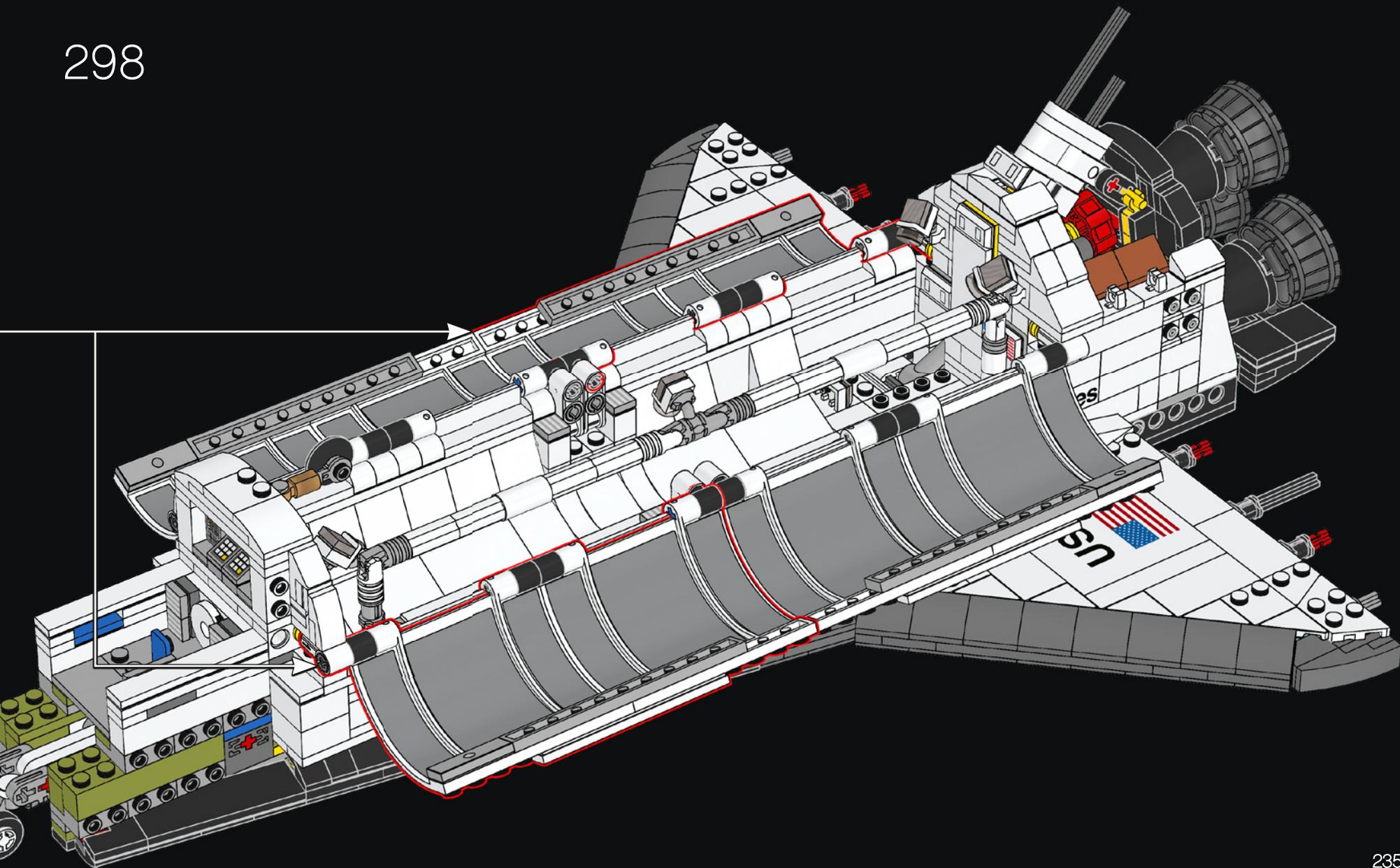


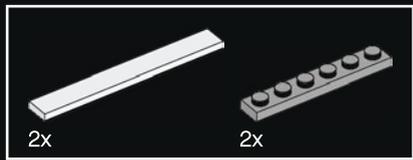
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LO SAPEVI?

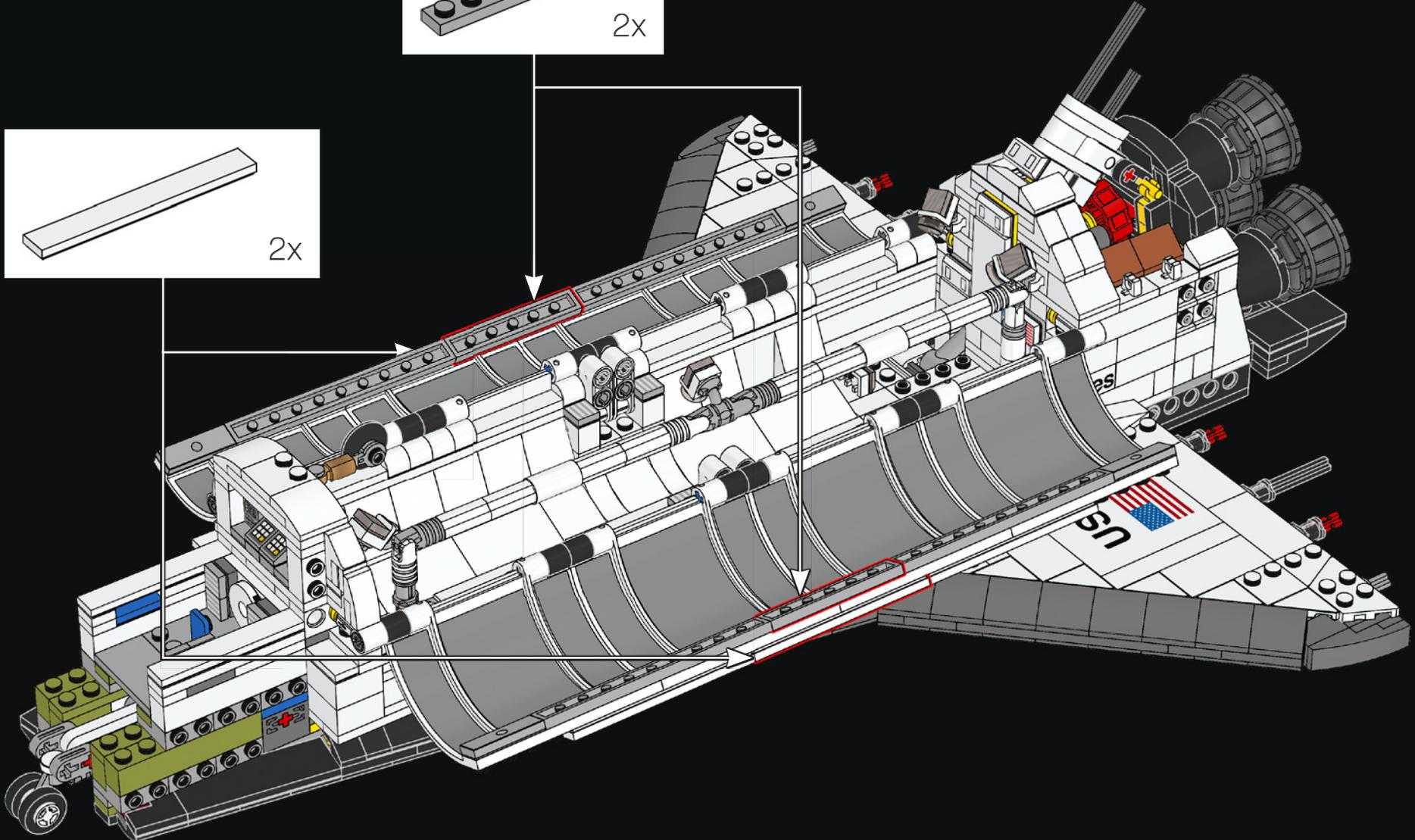
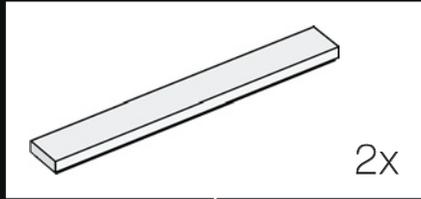
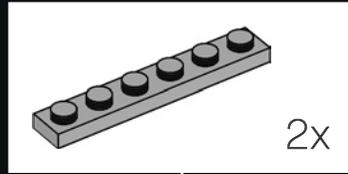
Gli sportelli della baia di carico utile, lunghi 18,2 m, sono sempre aperti per attivare i radiatori per il raffreddamento dello shuttle dopo l'entrata in orbita.

298



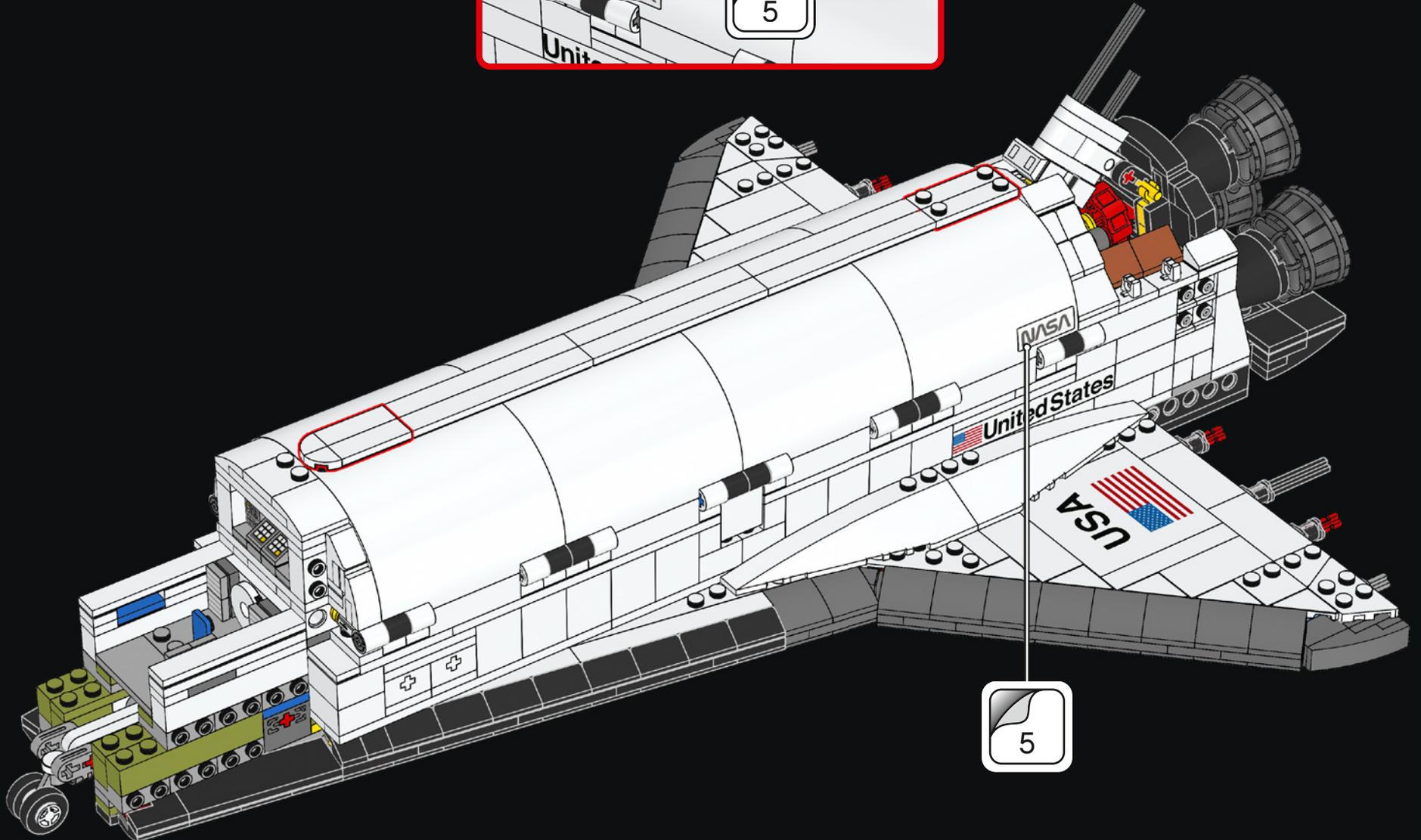
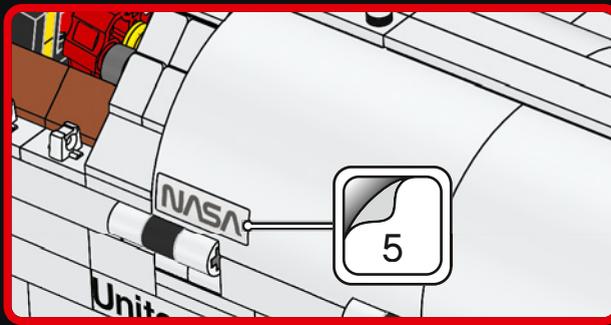


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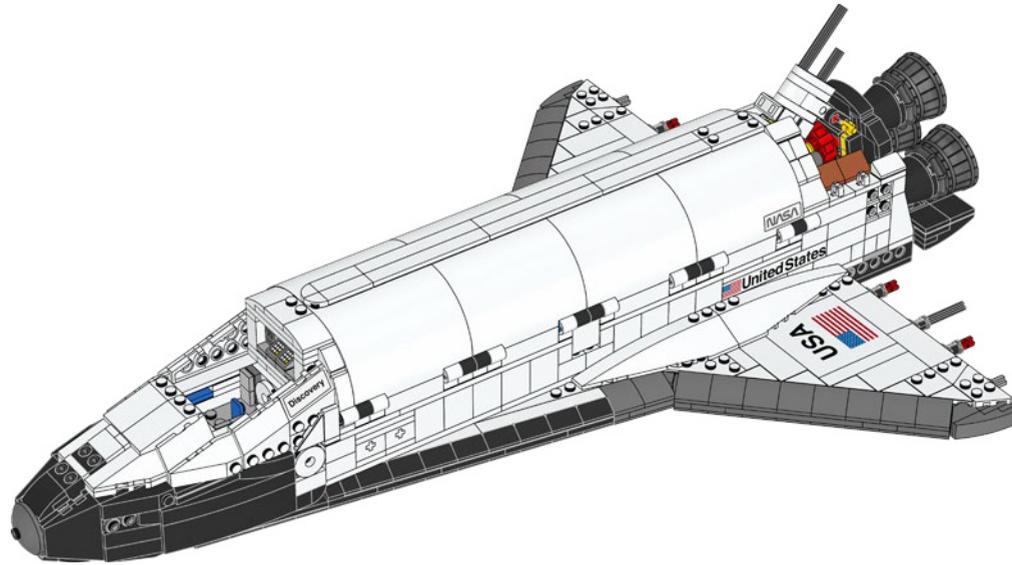


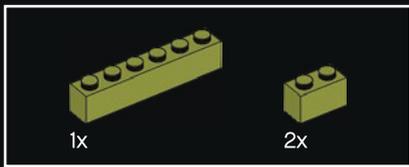


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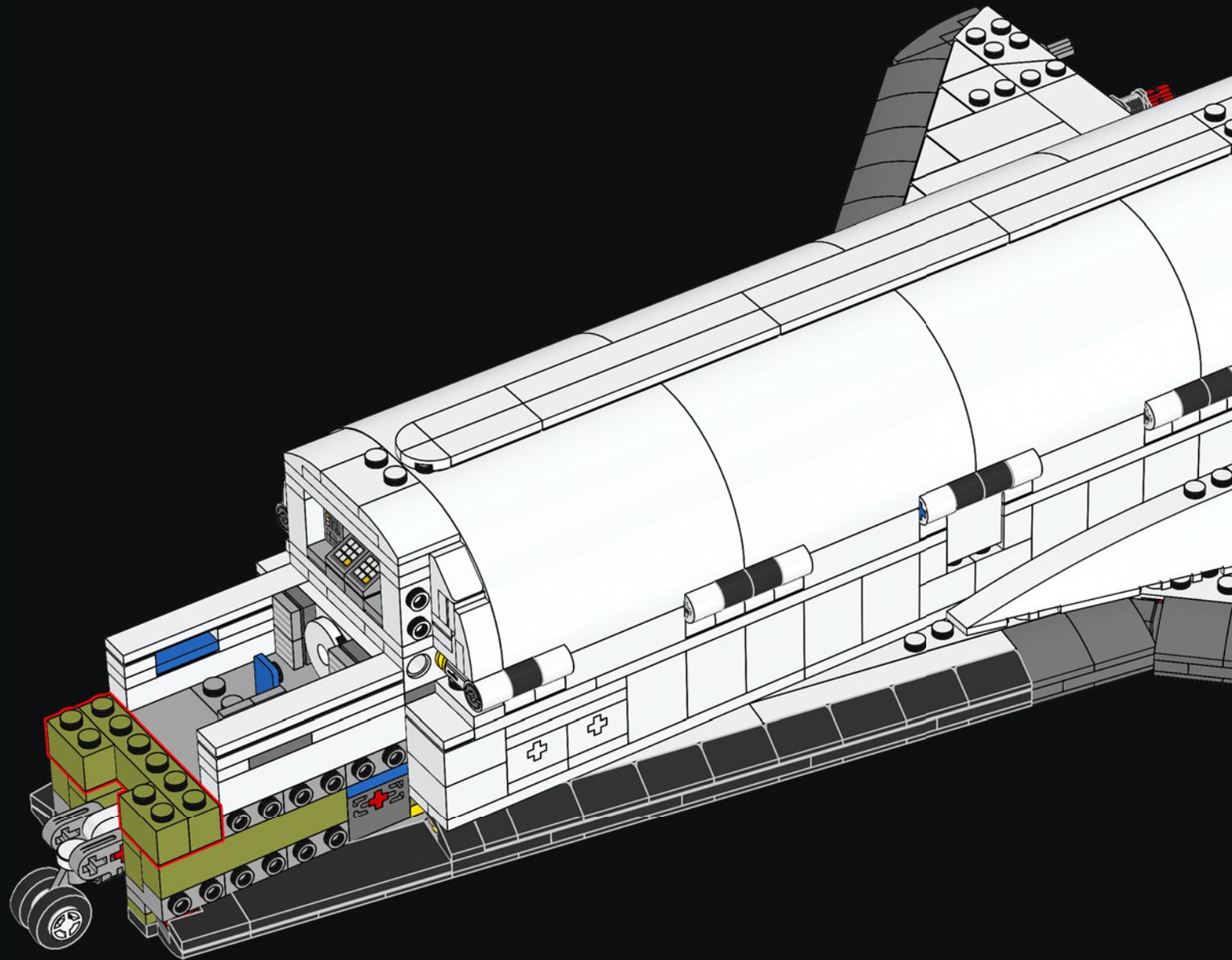


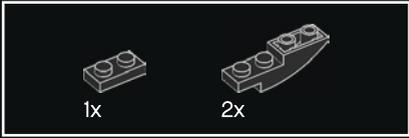
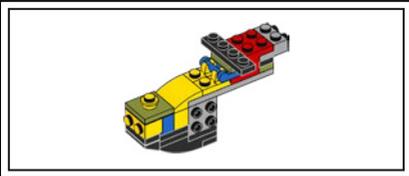
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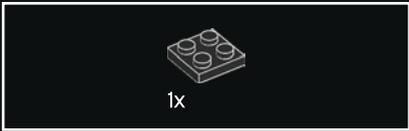
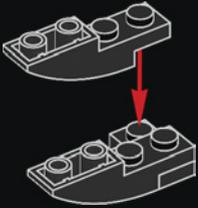


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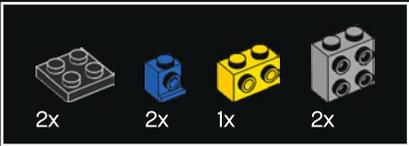
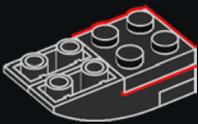




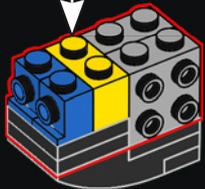
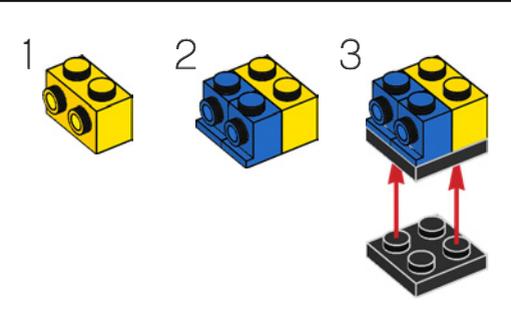
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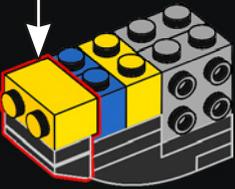
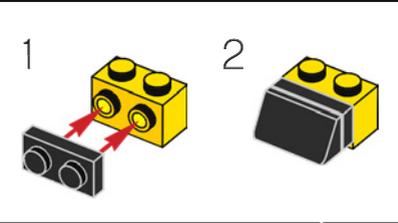
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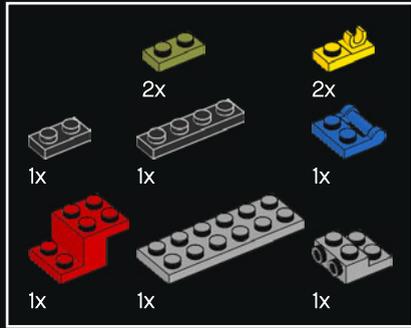


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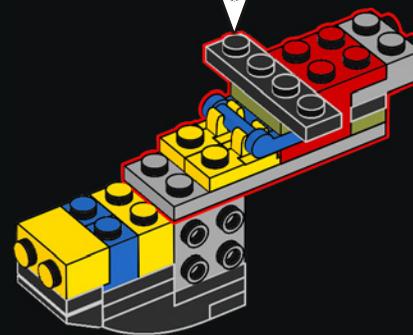
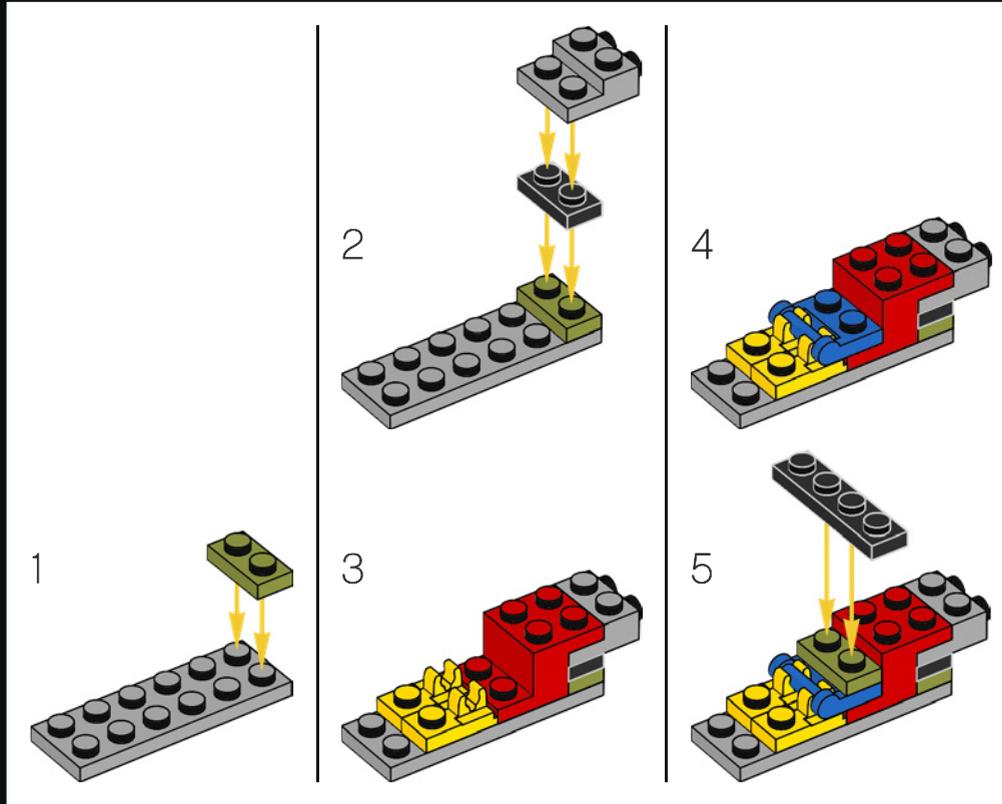


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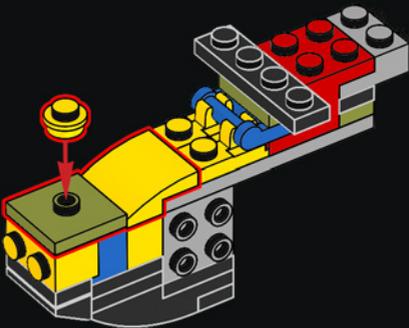


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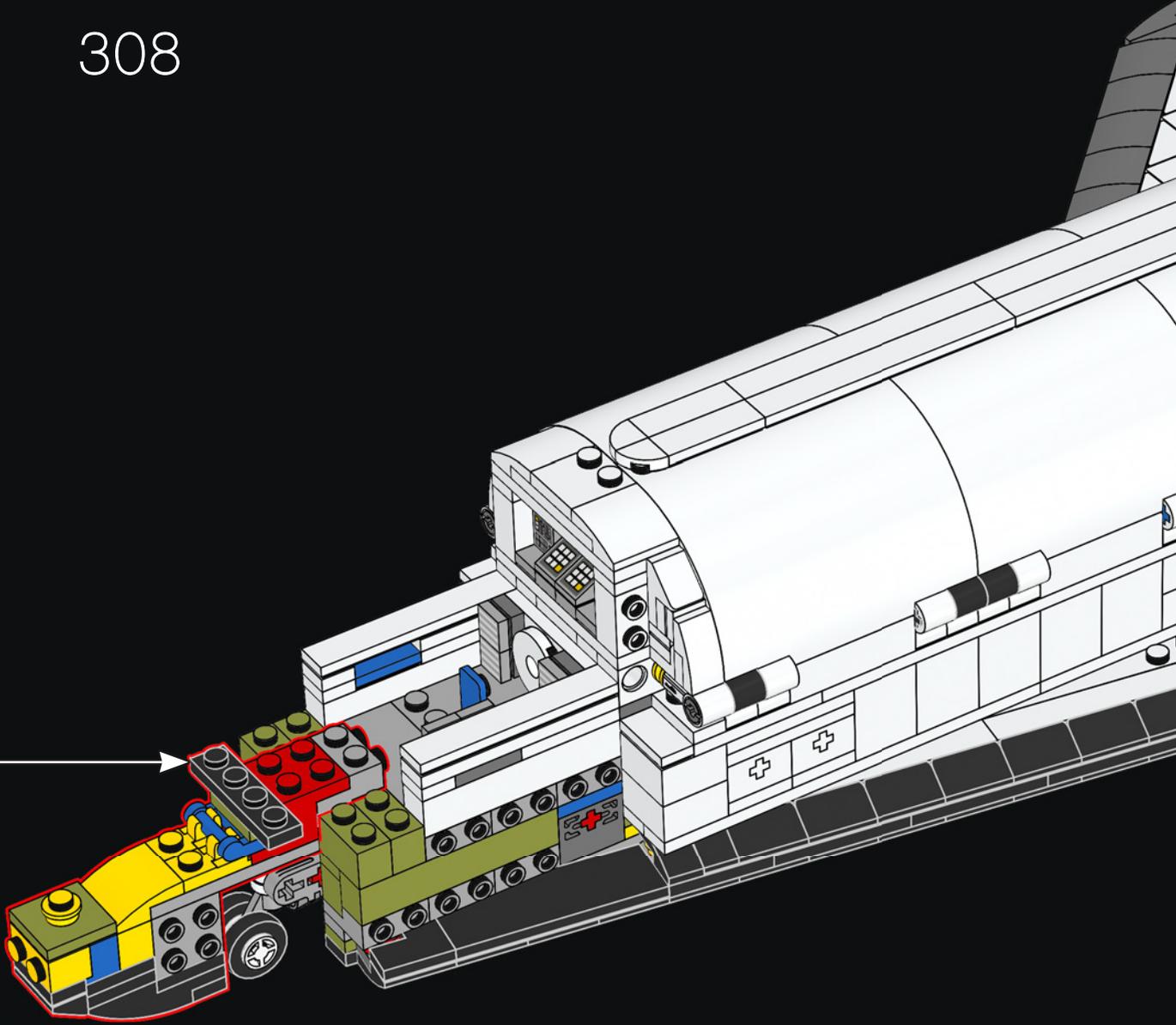


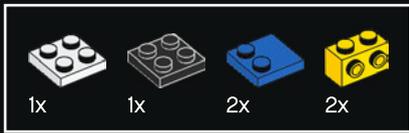


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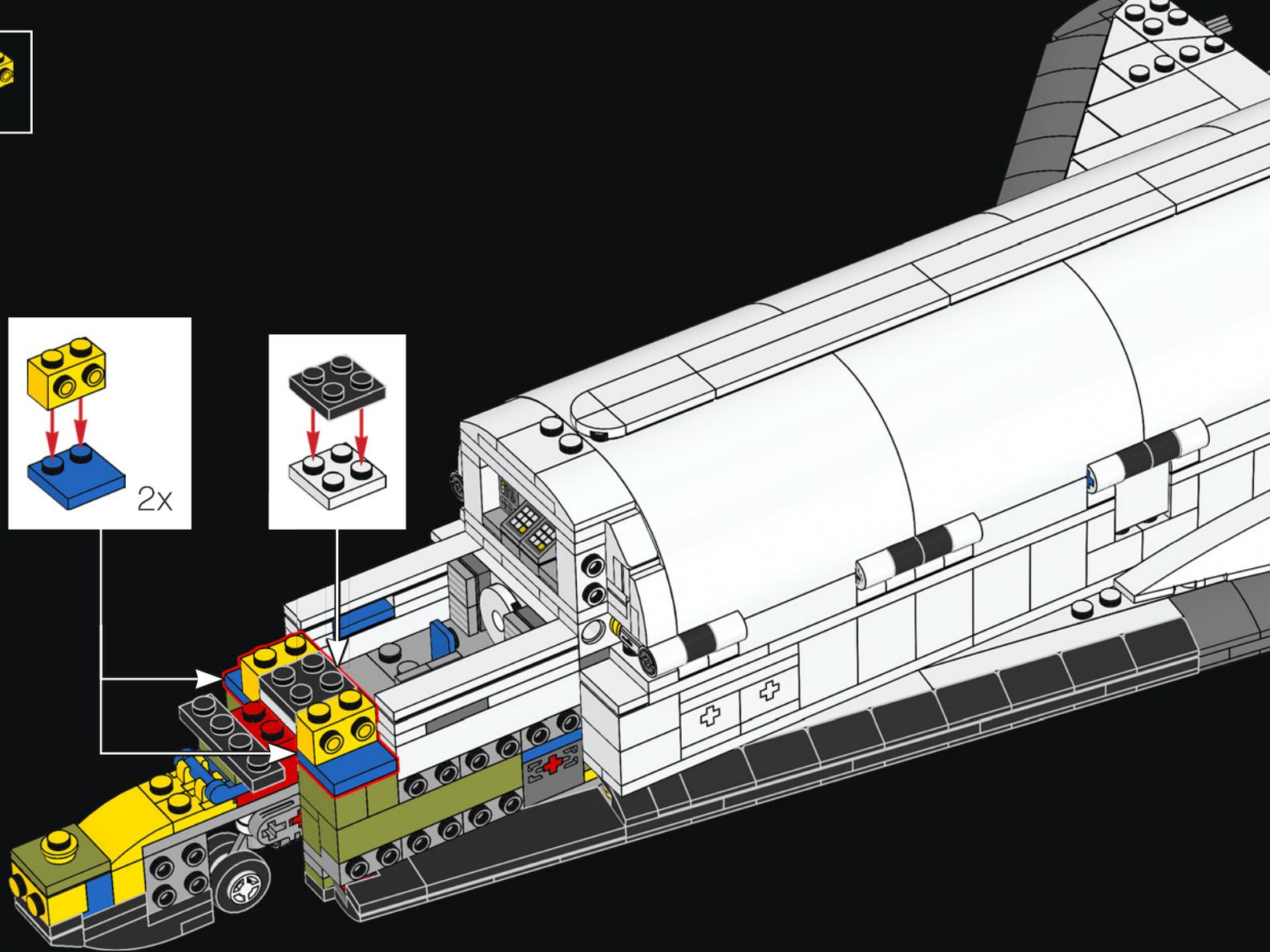
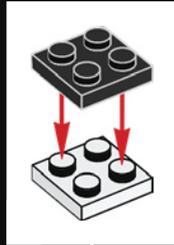
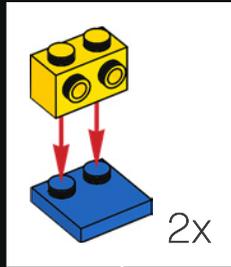


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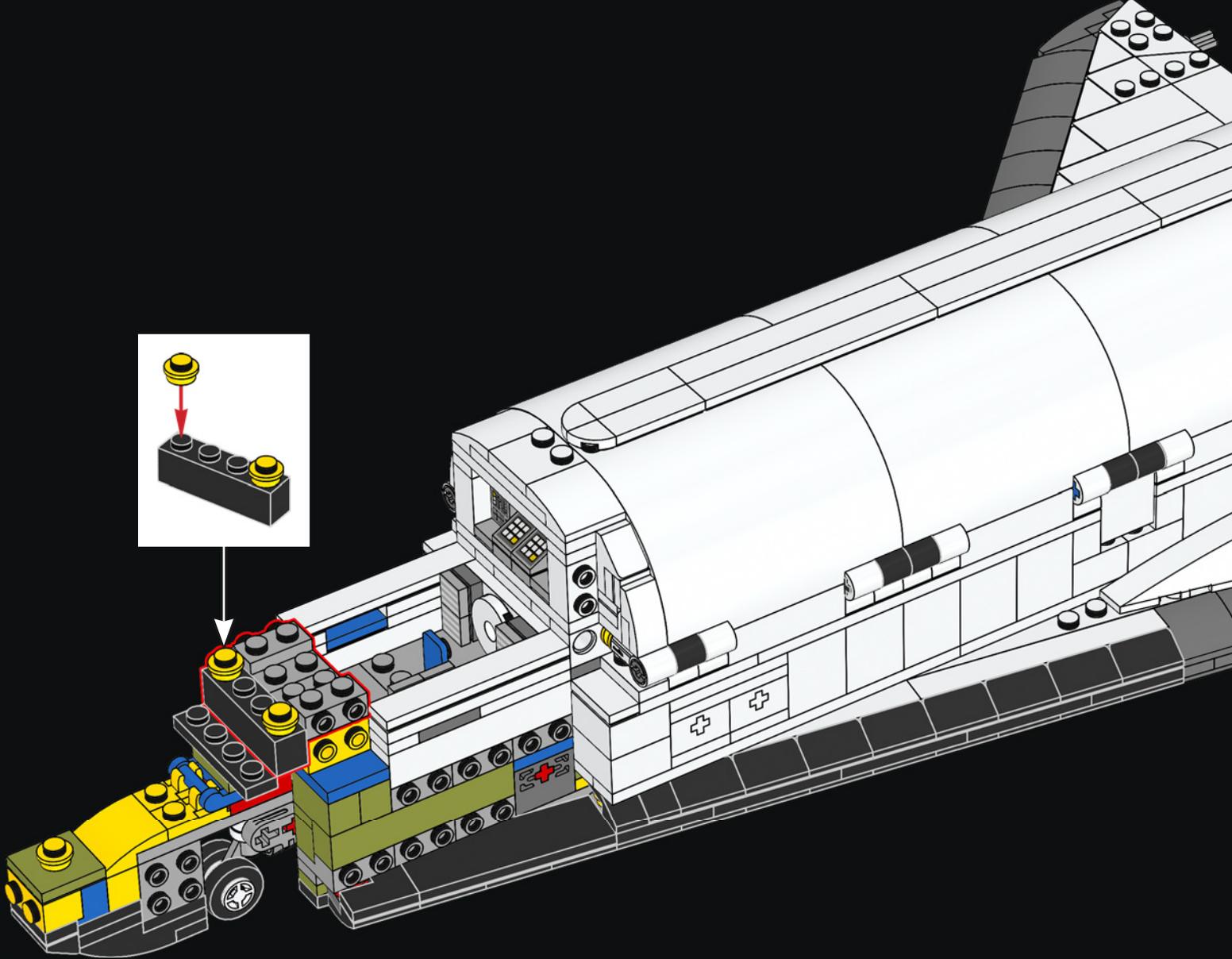
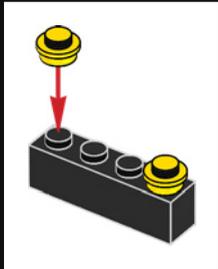


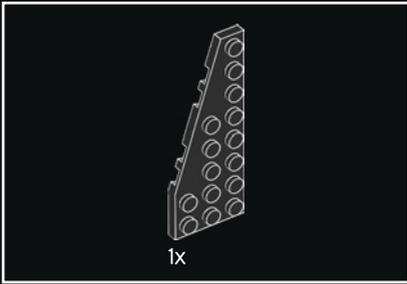
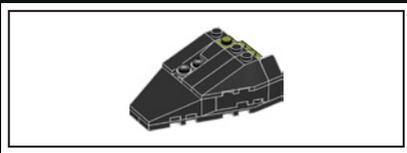
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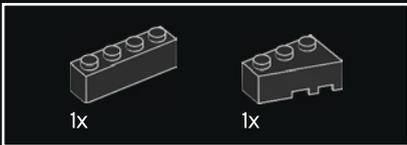
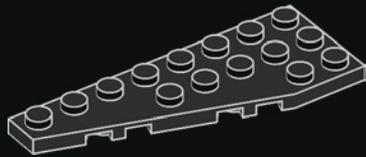


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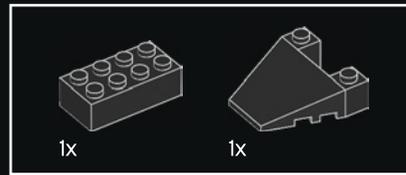
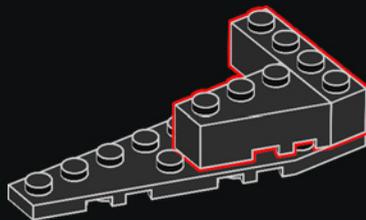




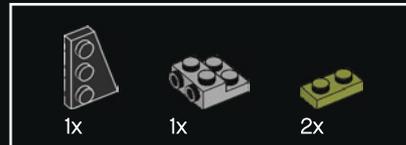
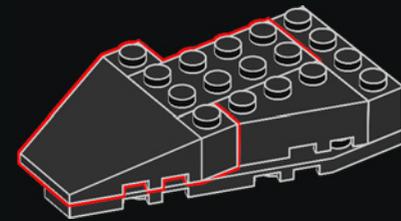
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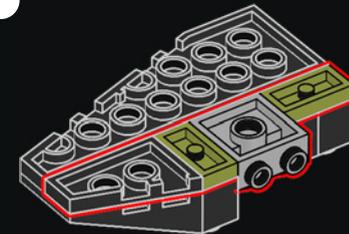
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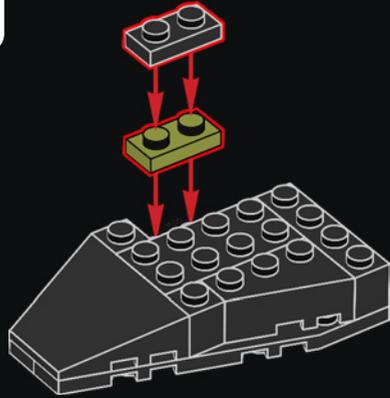


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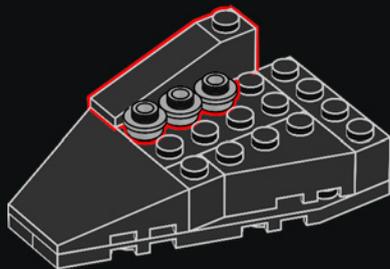




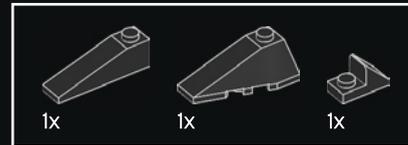
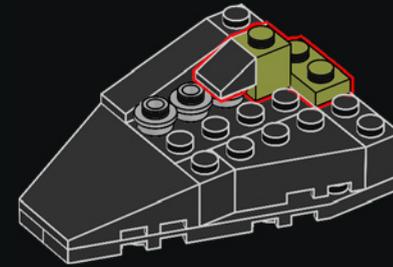
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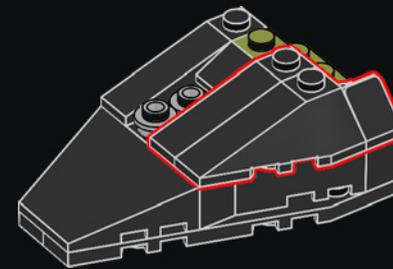
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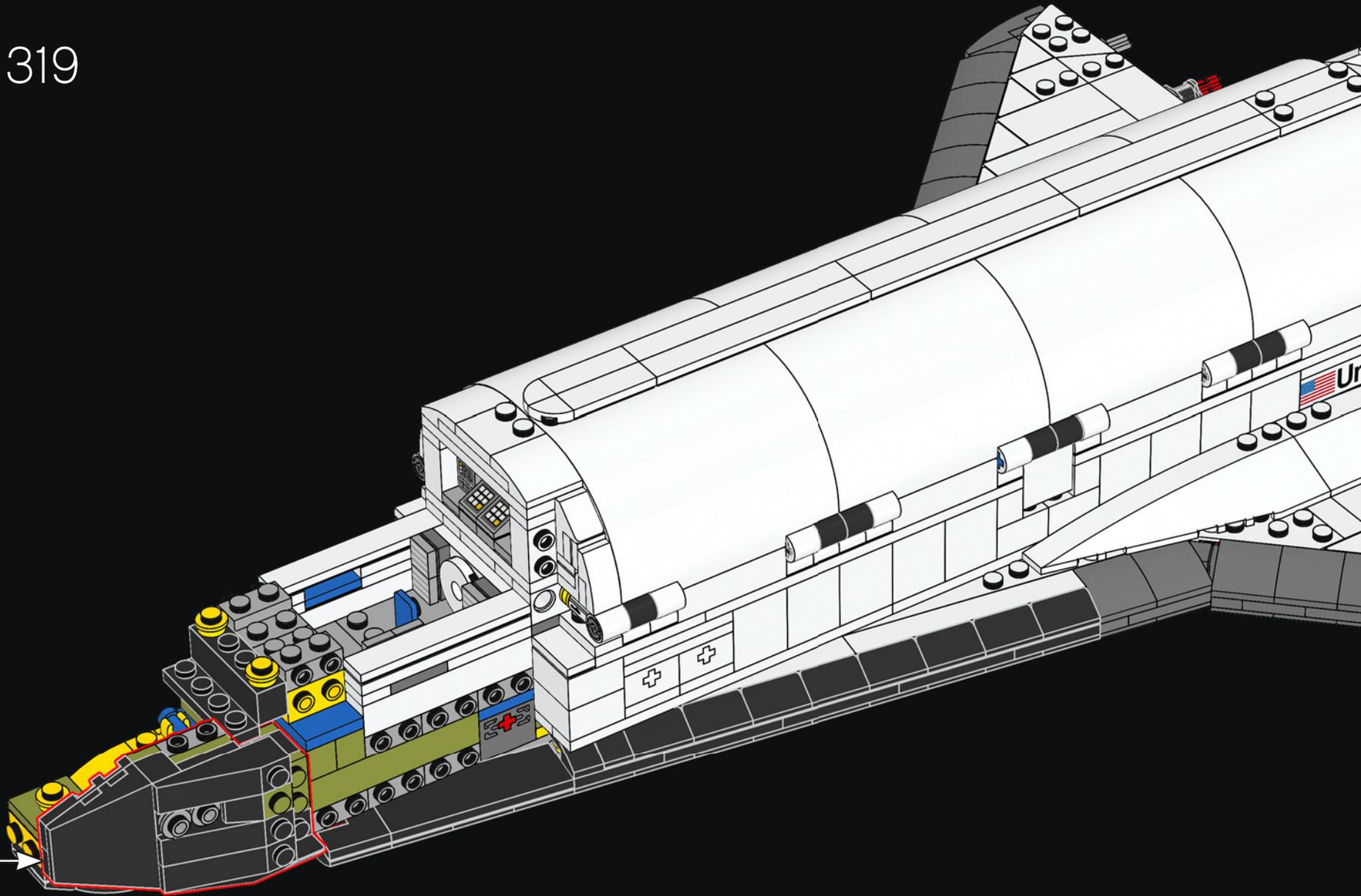
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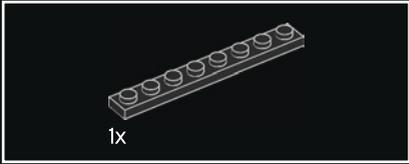
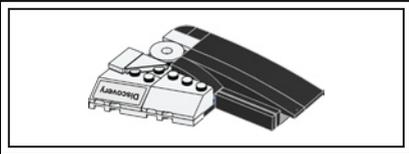


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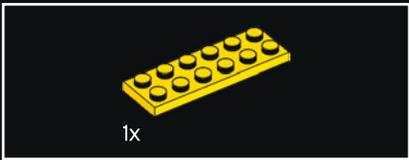
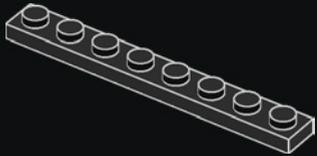


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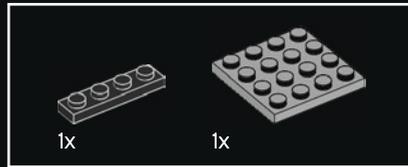
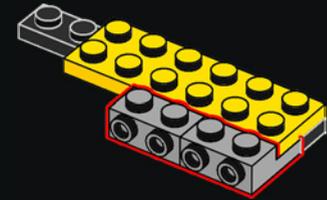


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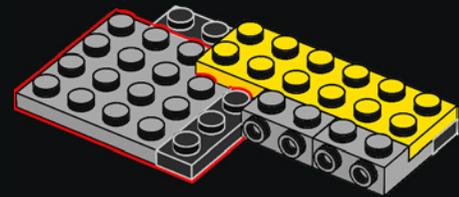
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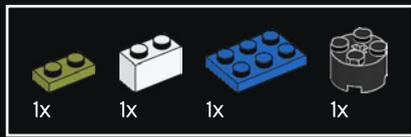


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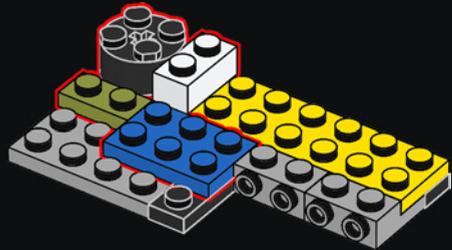
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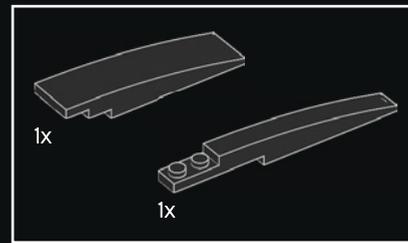
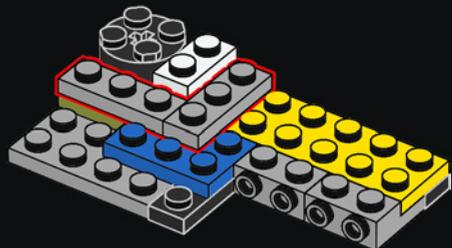




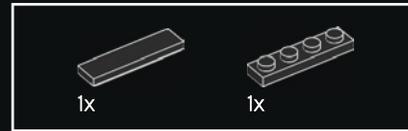
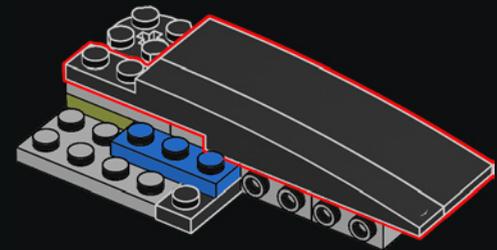
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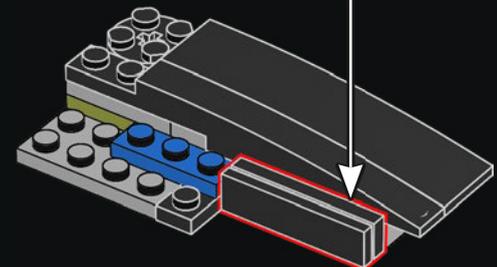
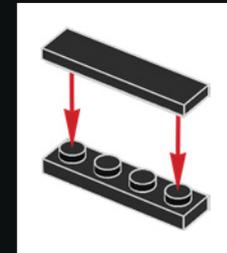
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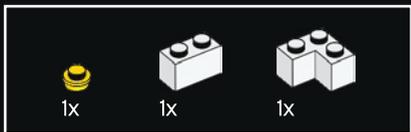


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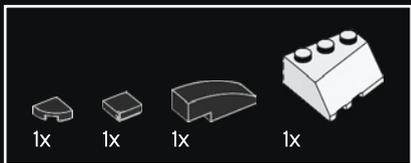
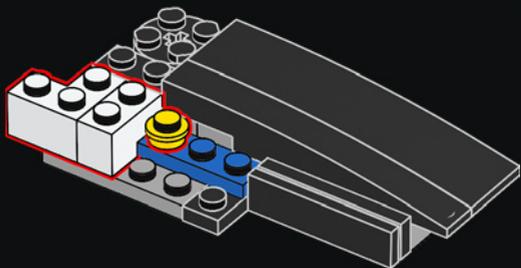


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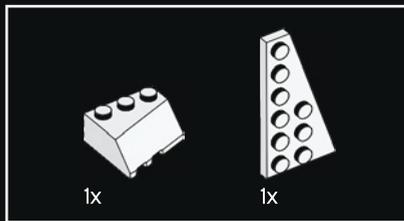
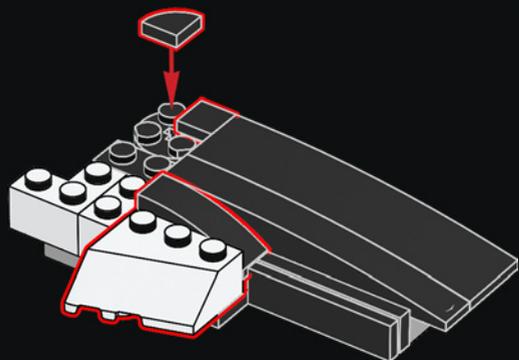




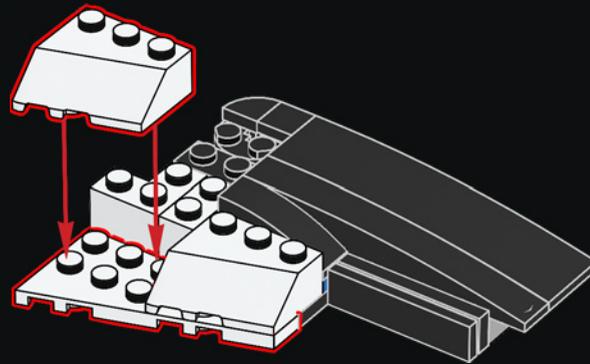
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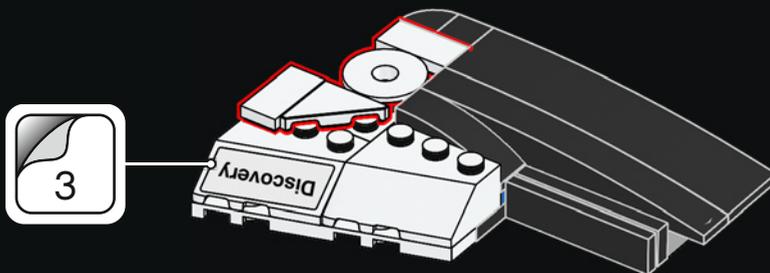
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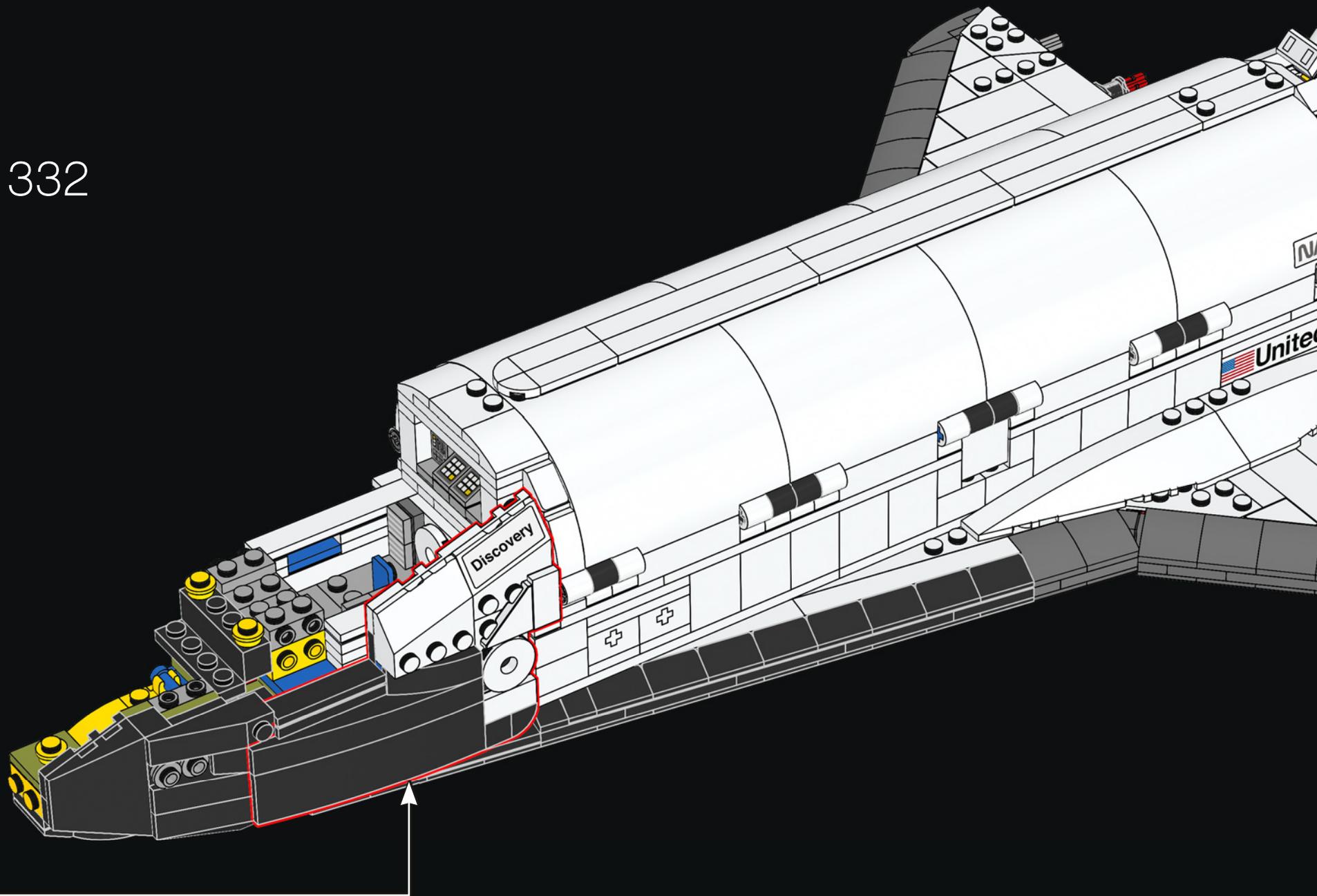
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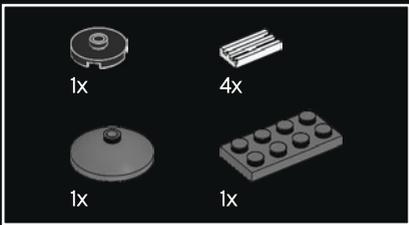


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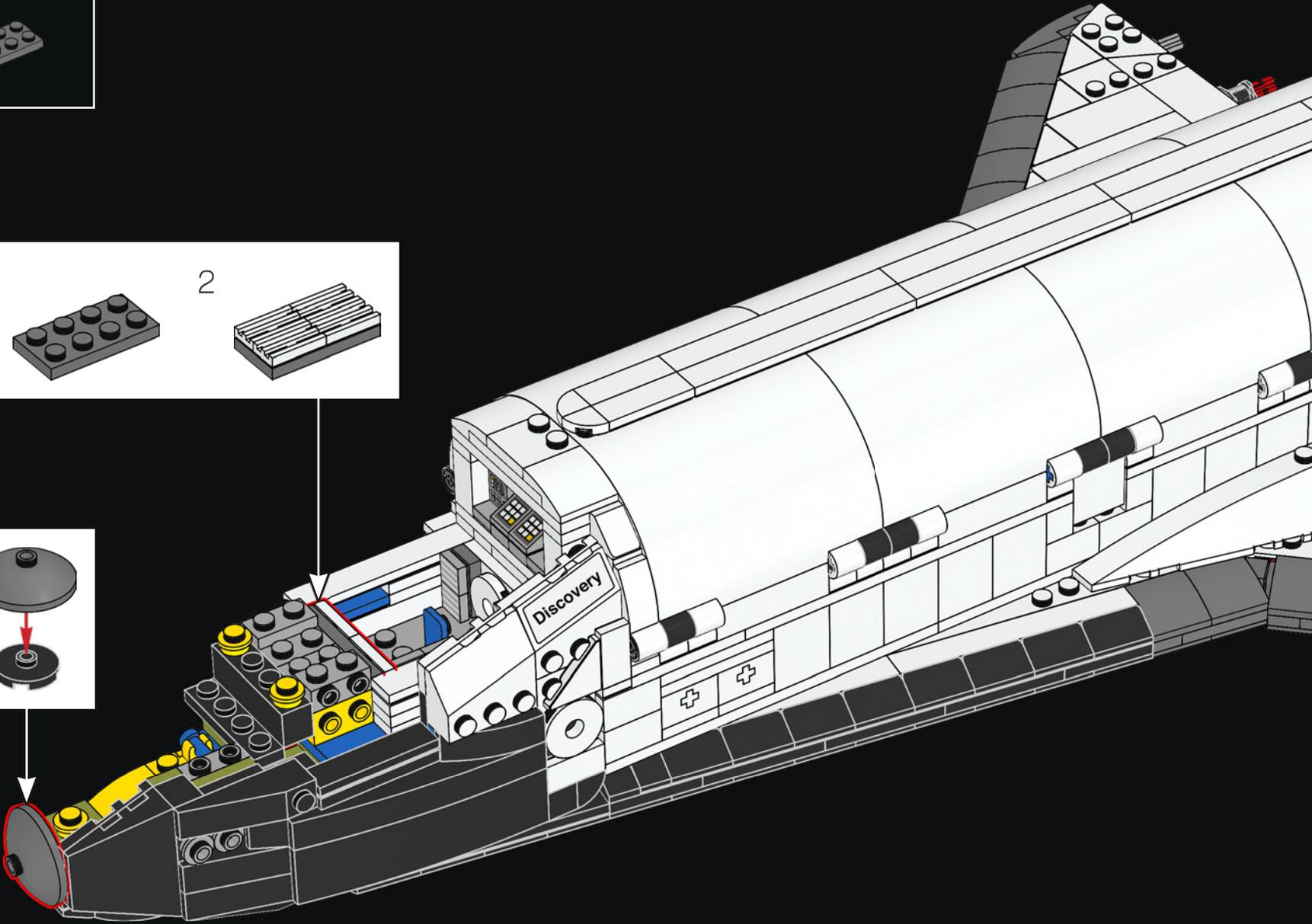
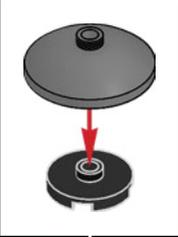
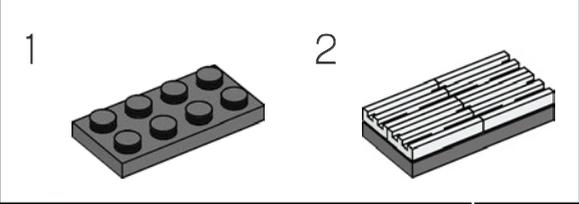


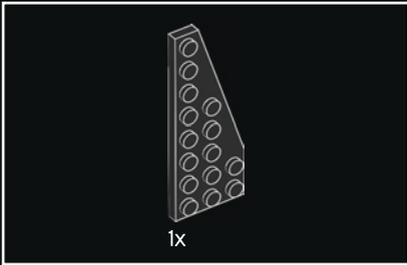
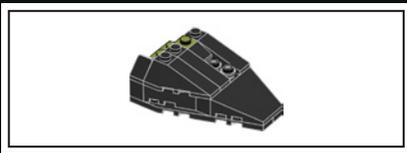
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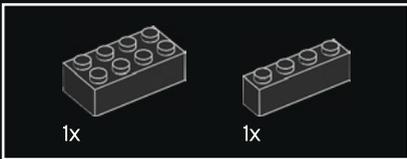
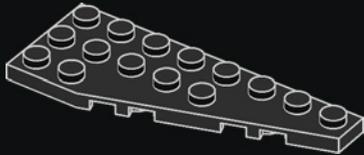


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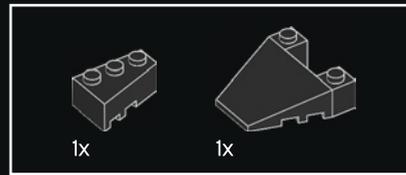
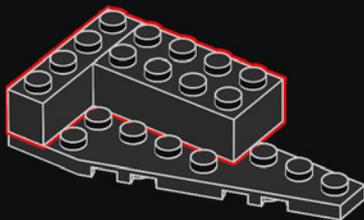




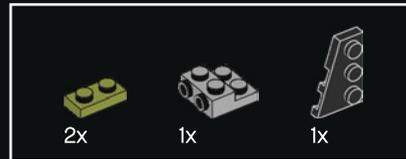
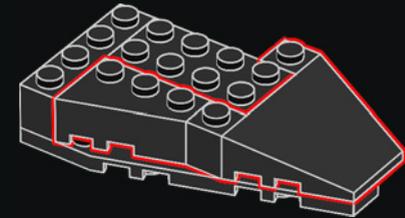
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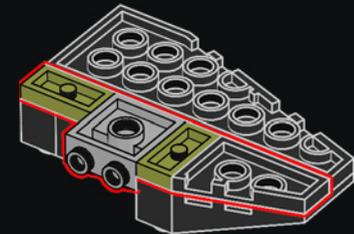
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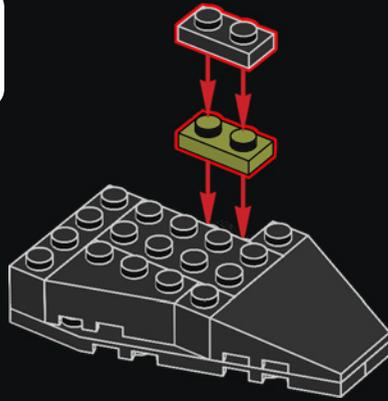


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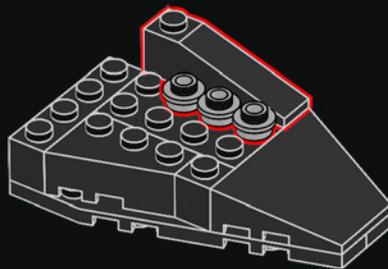




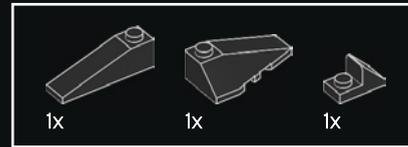
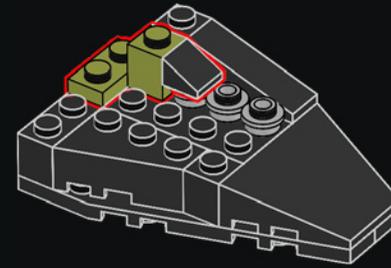
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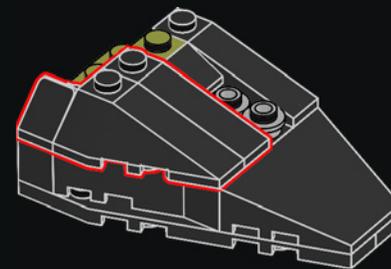
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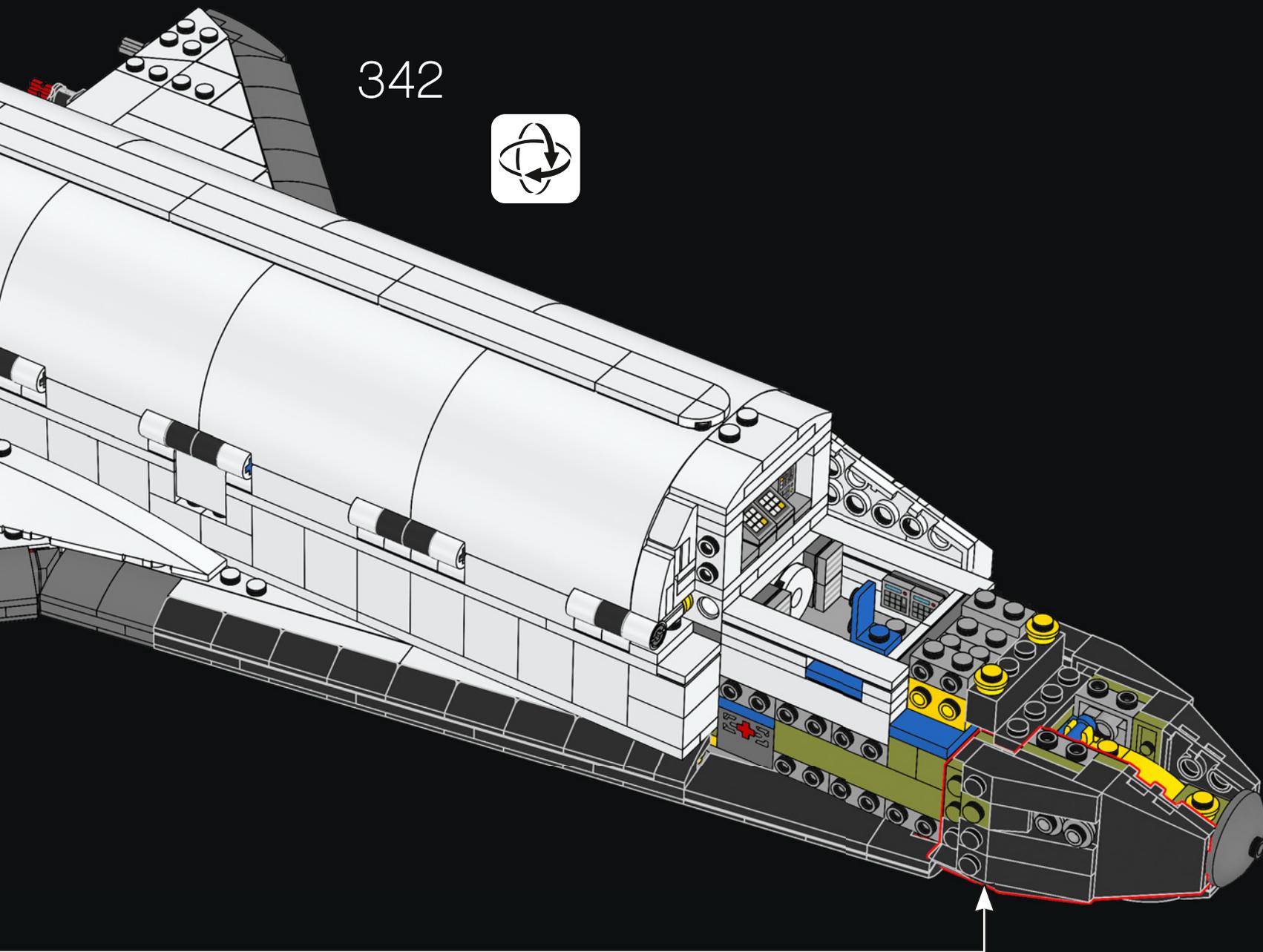
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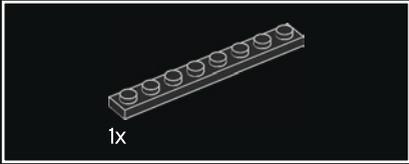
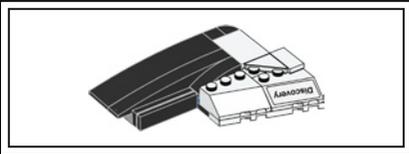


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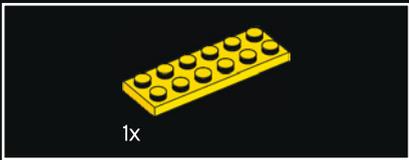
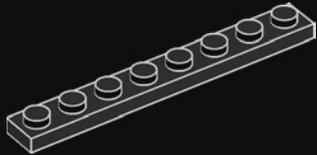


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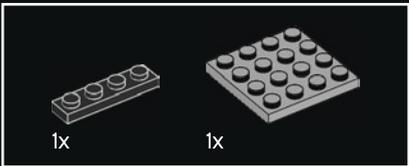
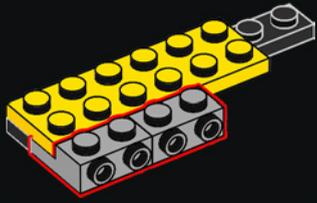


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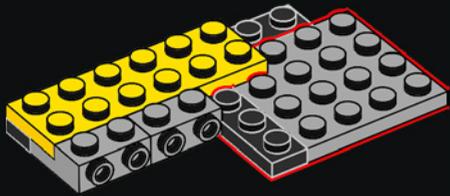
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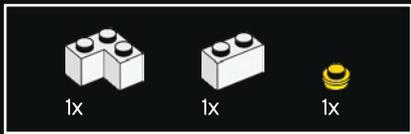


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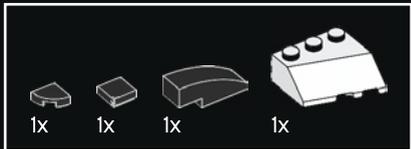
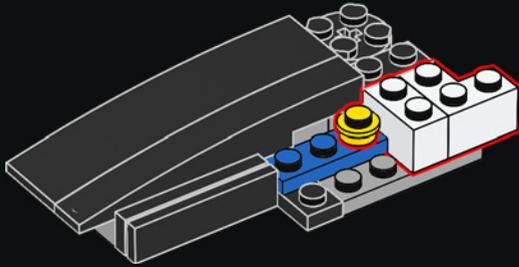
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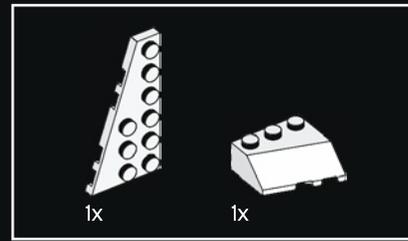
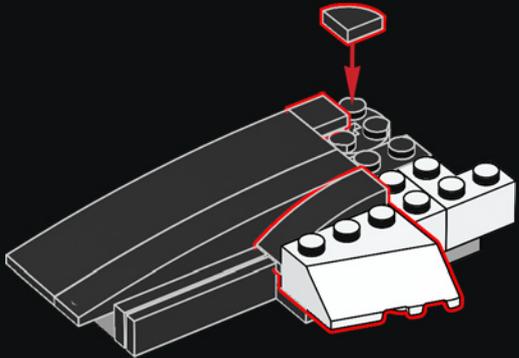




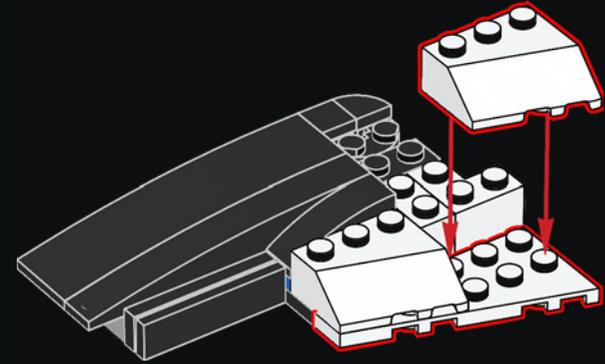
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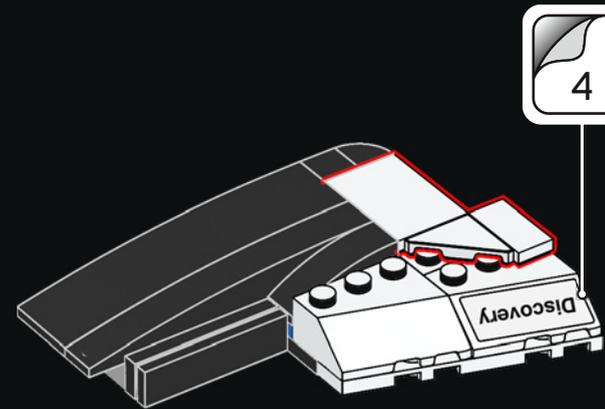
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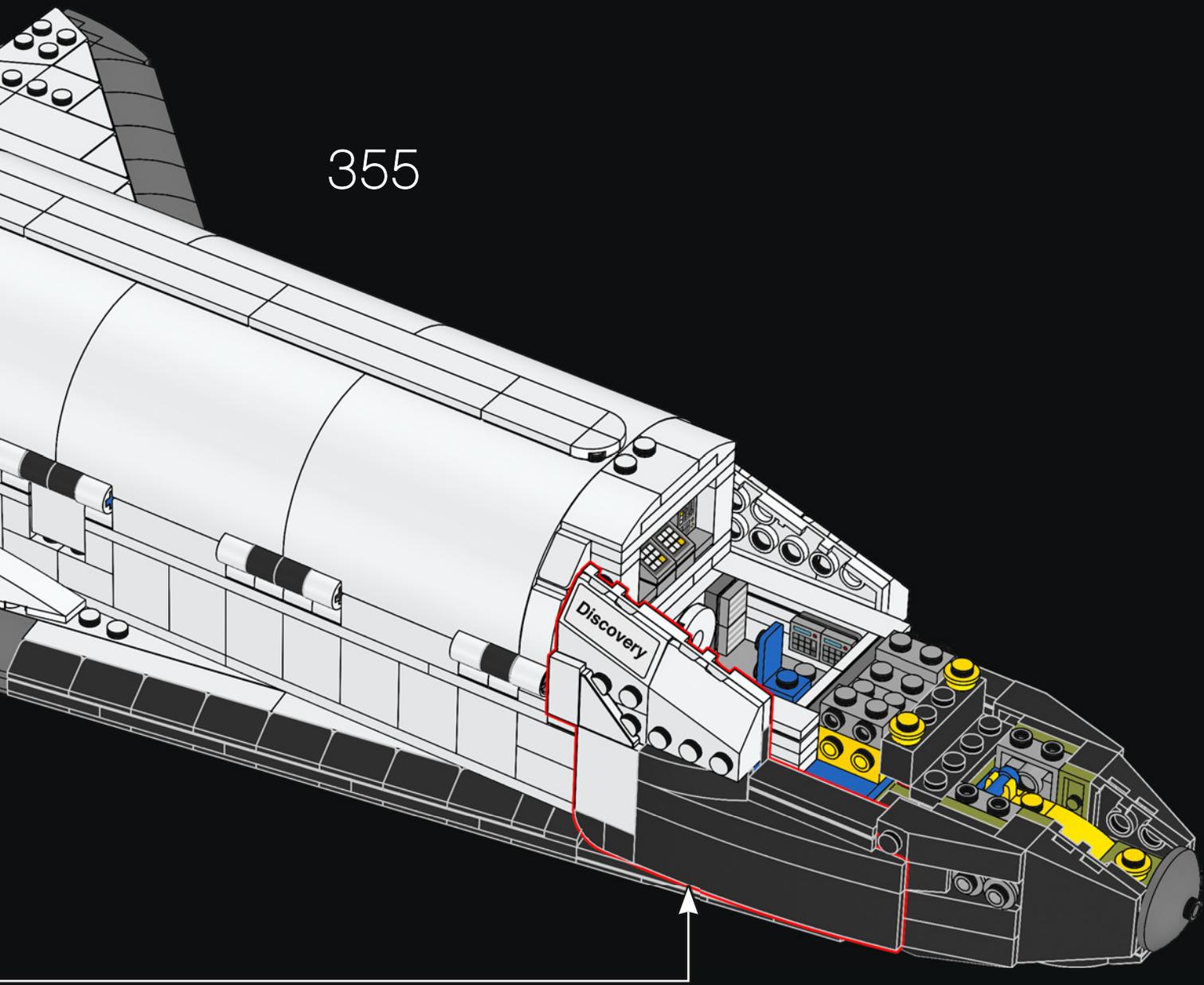


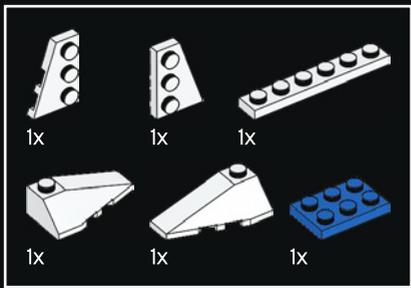
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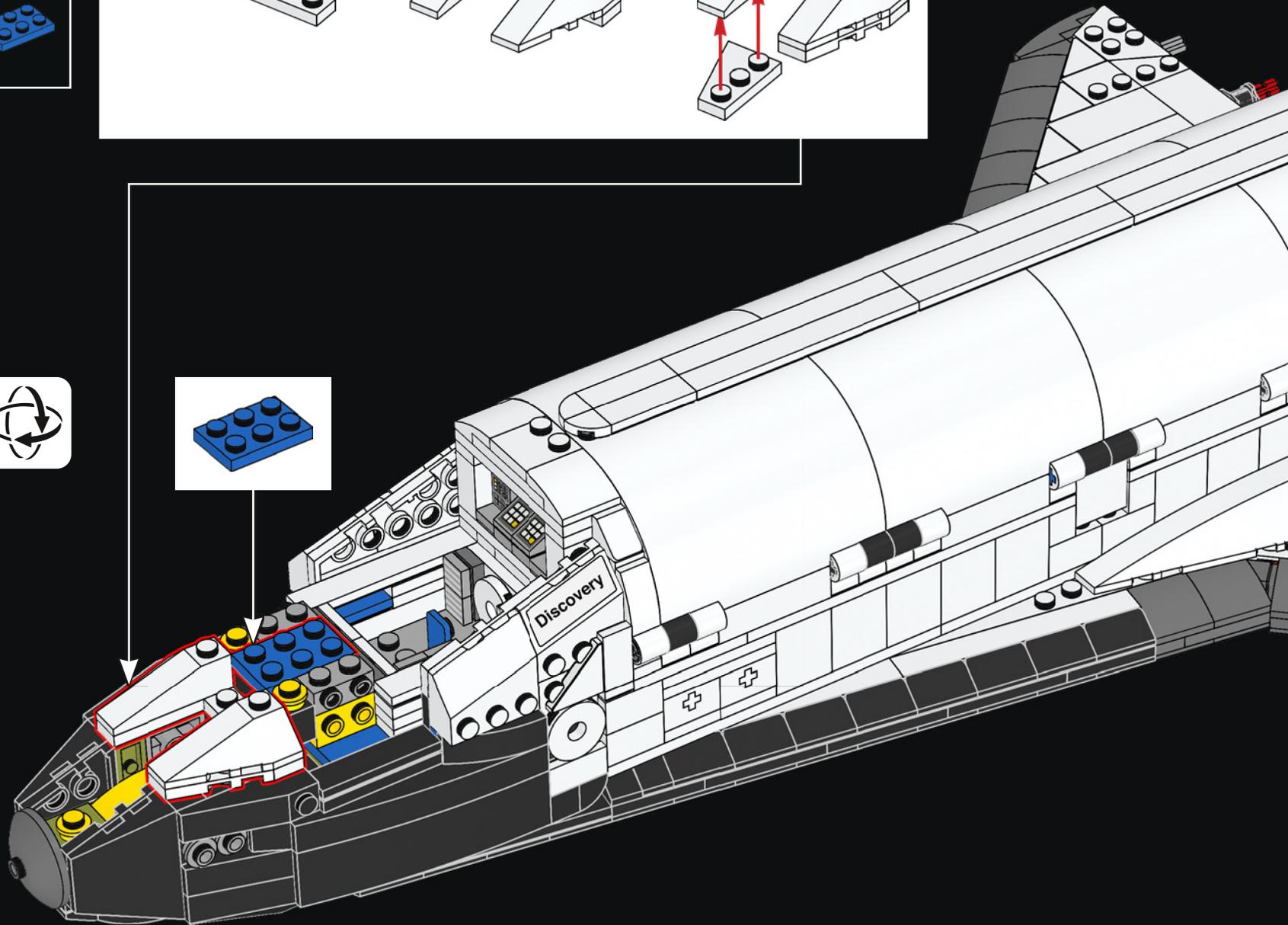
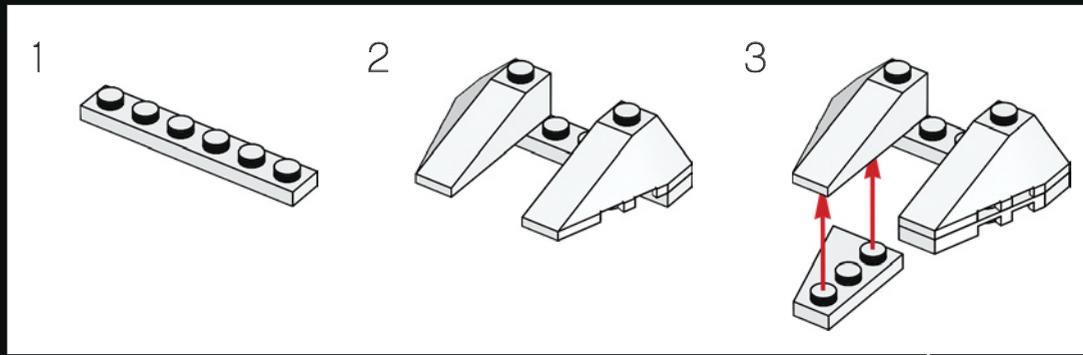
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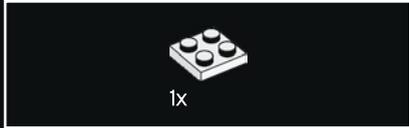
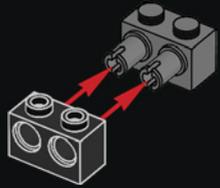


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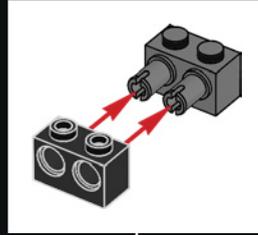
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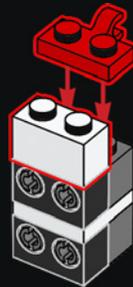
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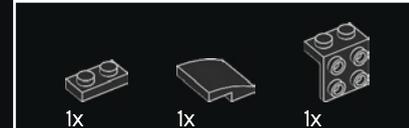
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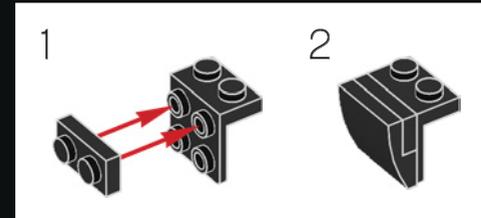
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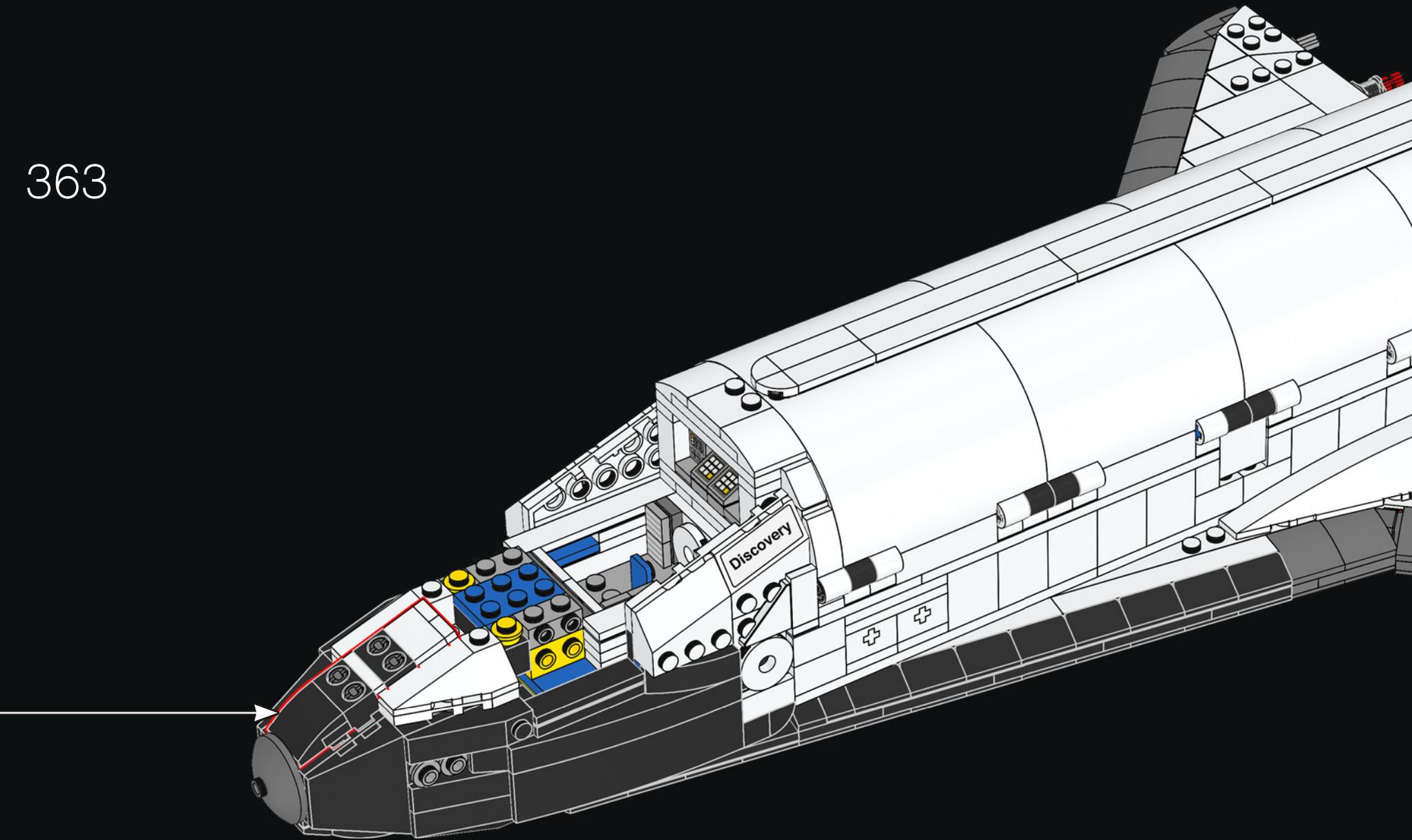
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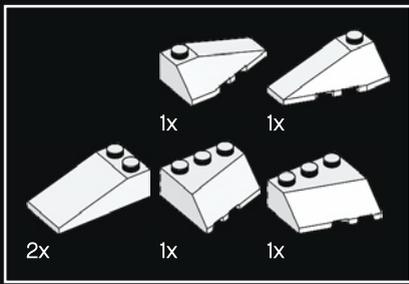


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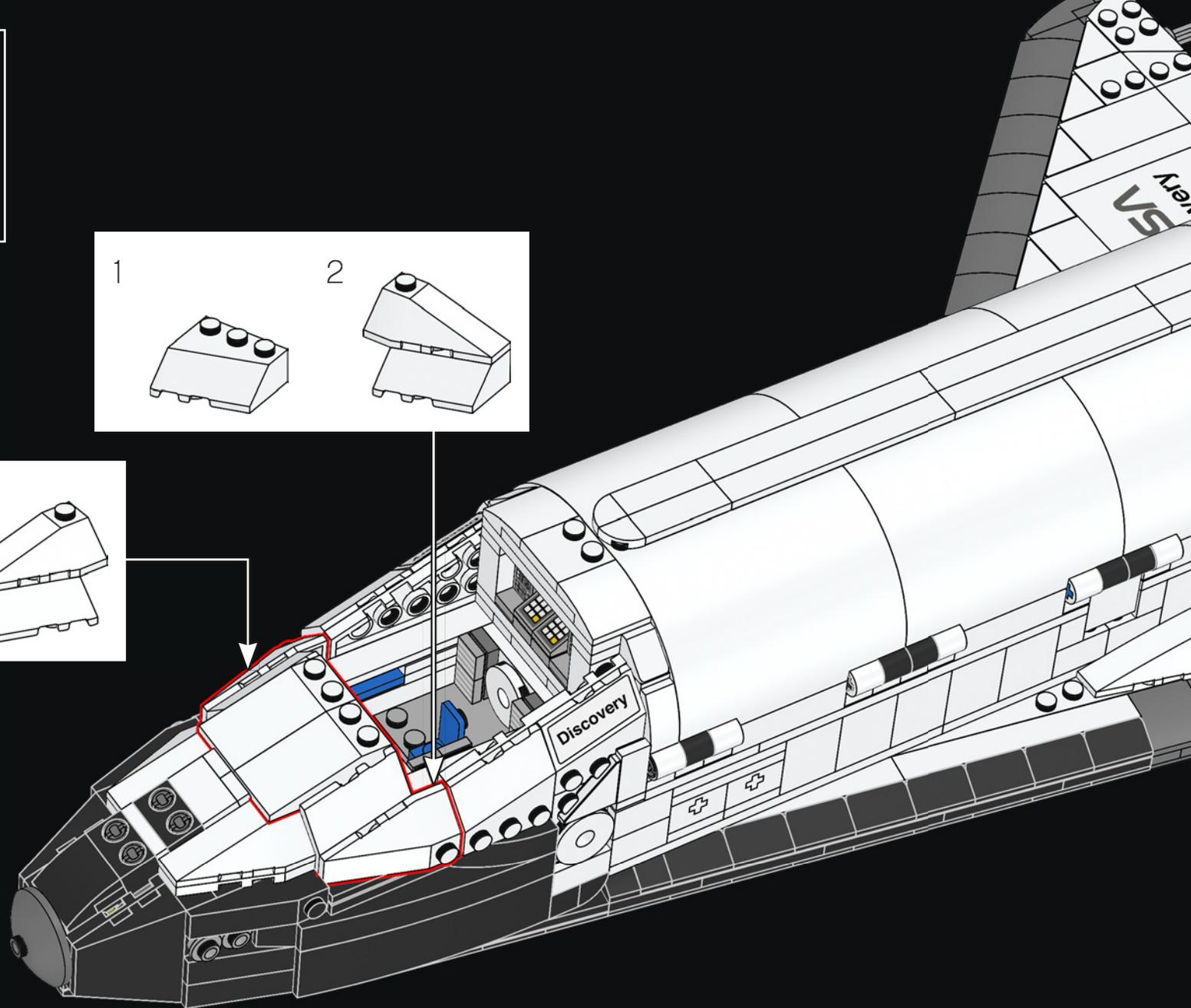
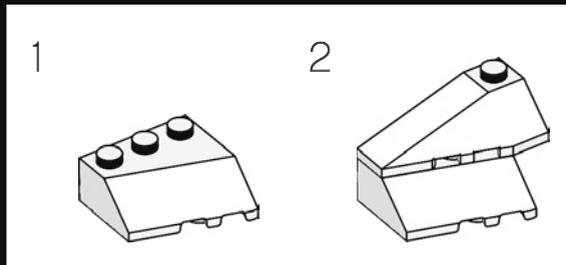
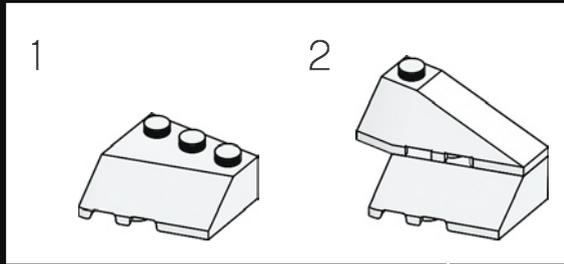


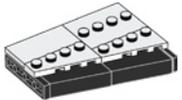
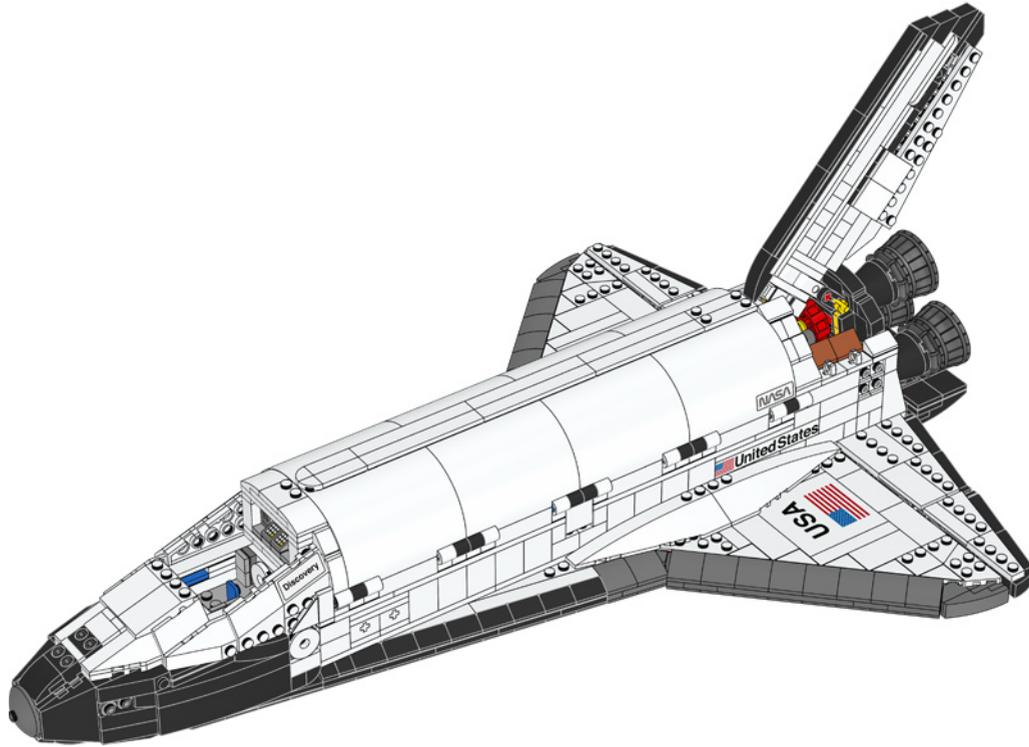
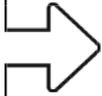
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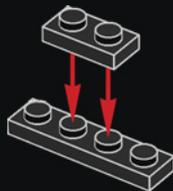


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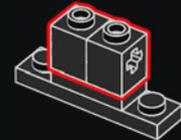
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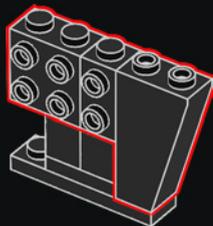
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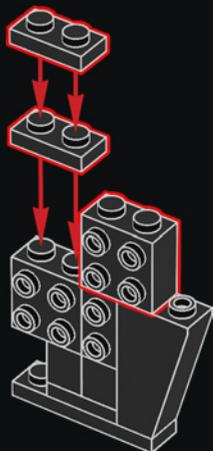




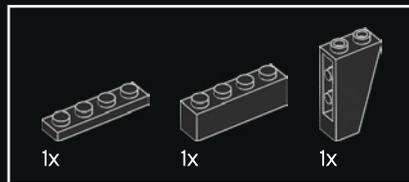
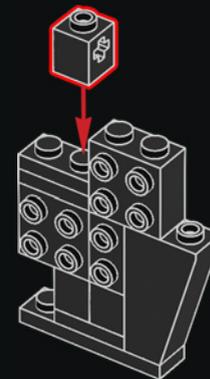
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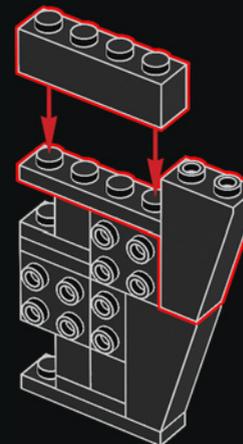
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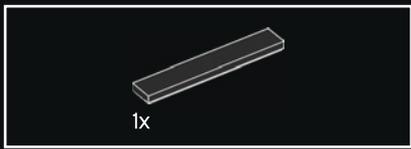


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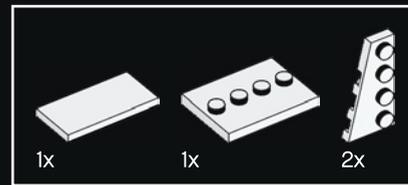
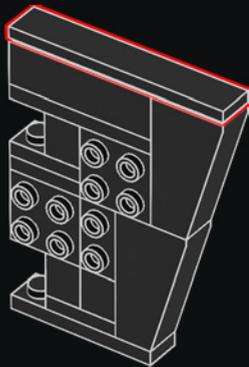


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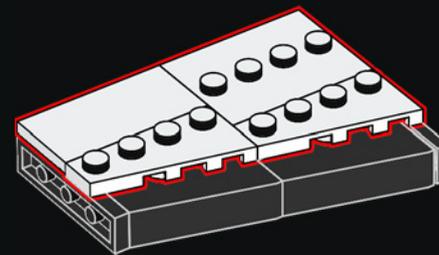




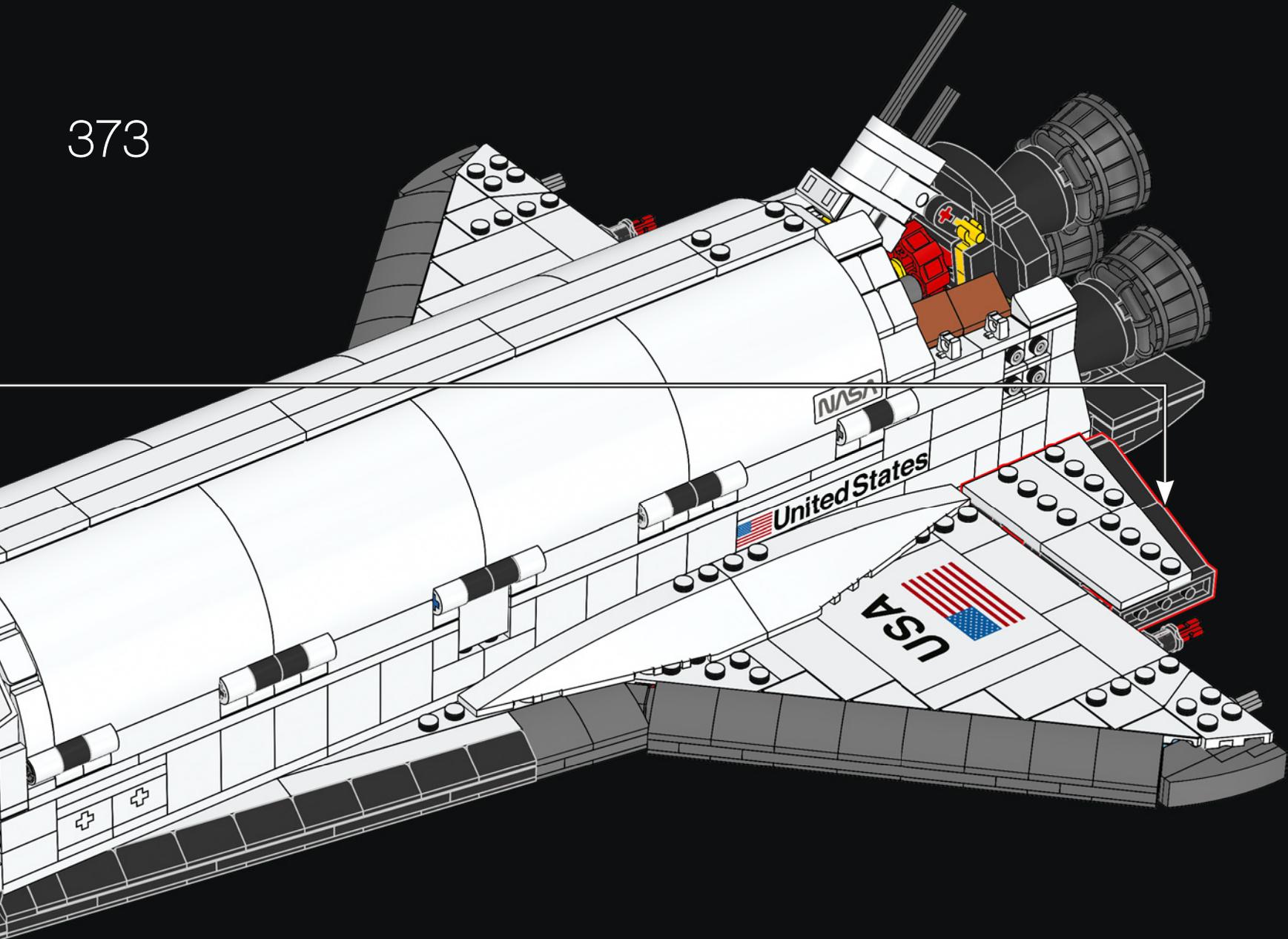
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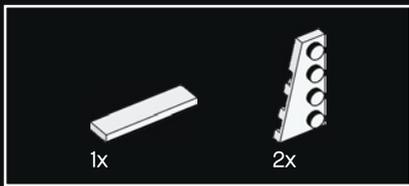


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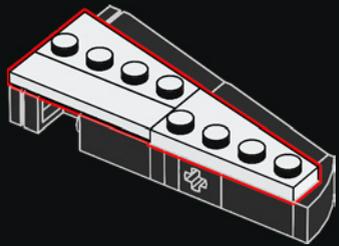


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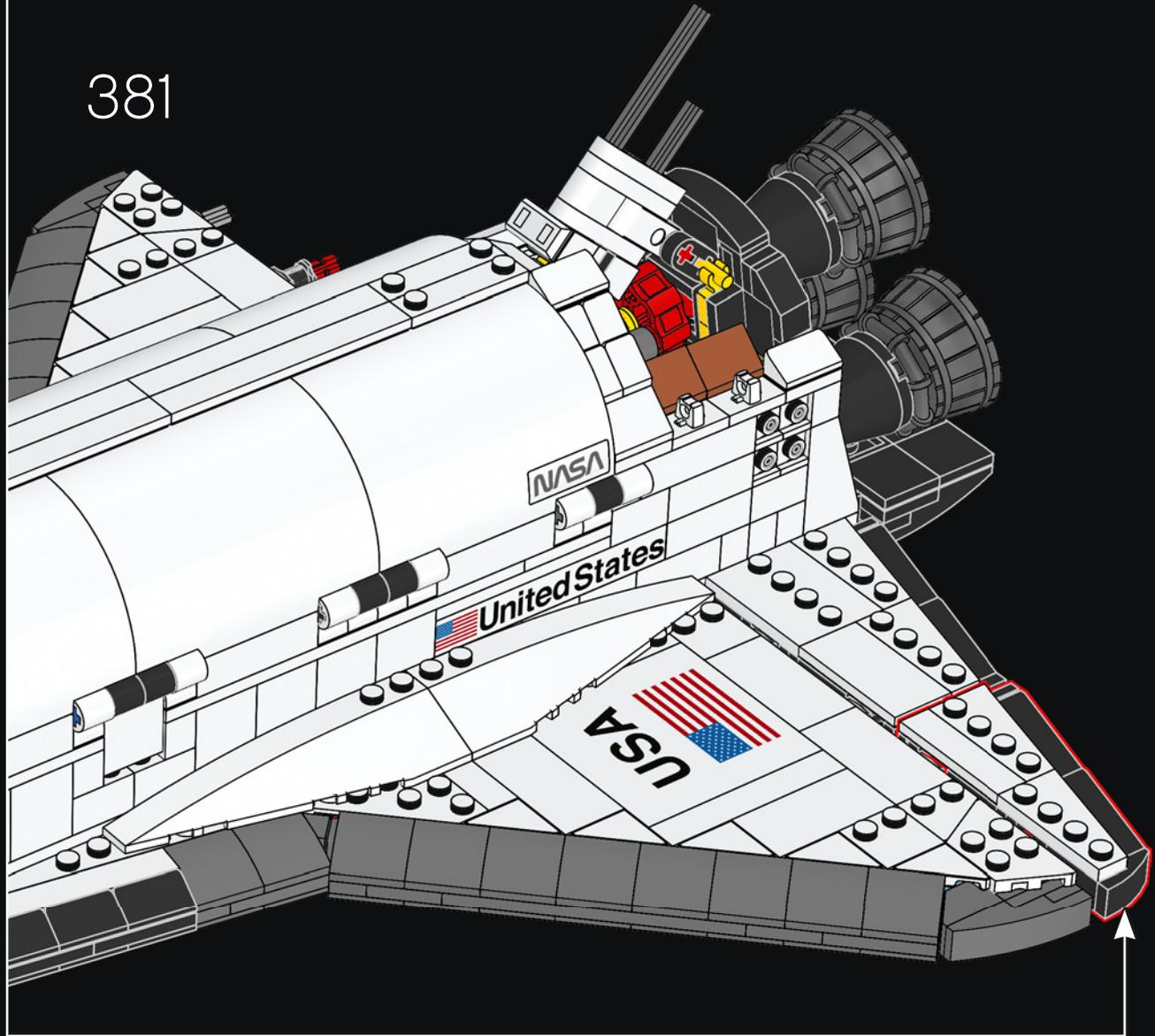


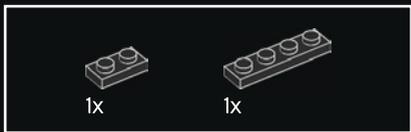


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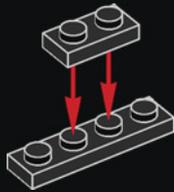


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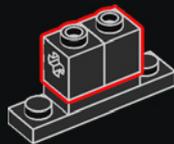




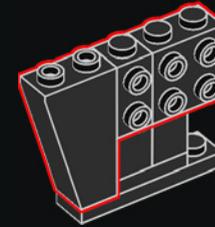
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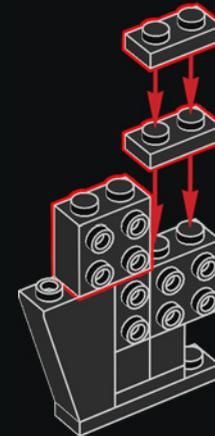
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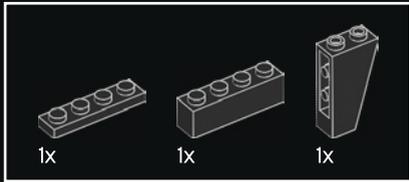
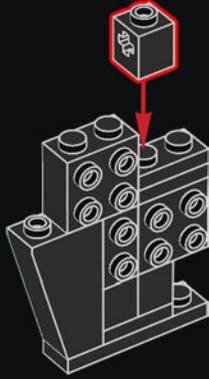


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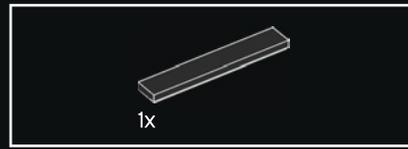
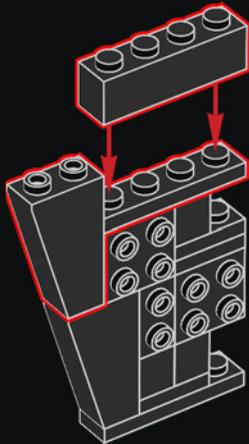




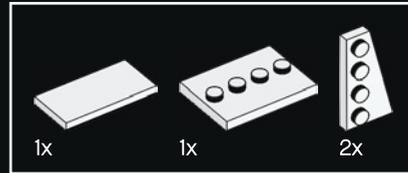
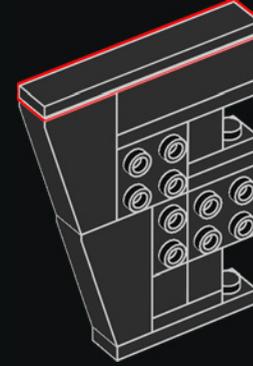
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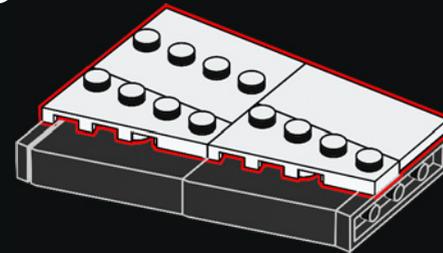
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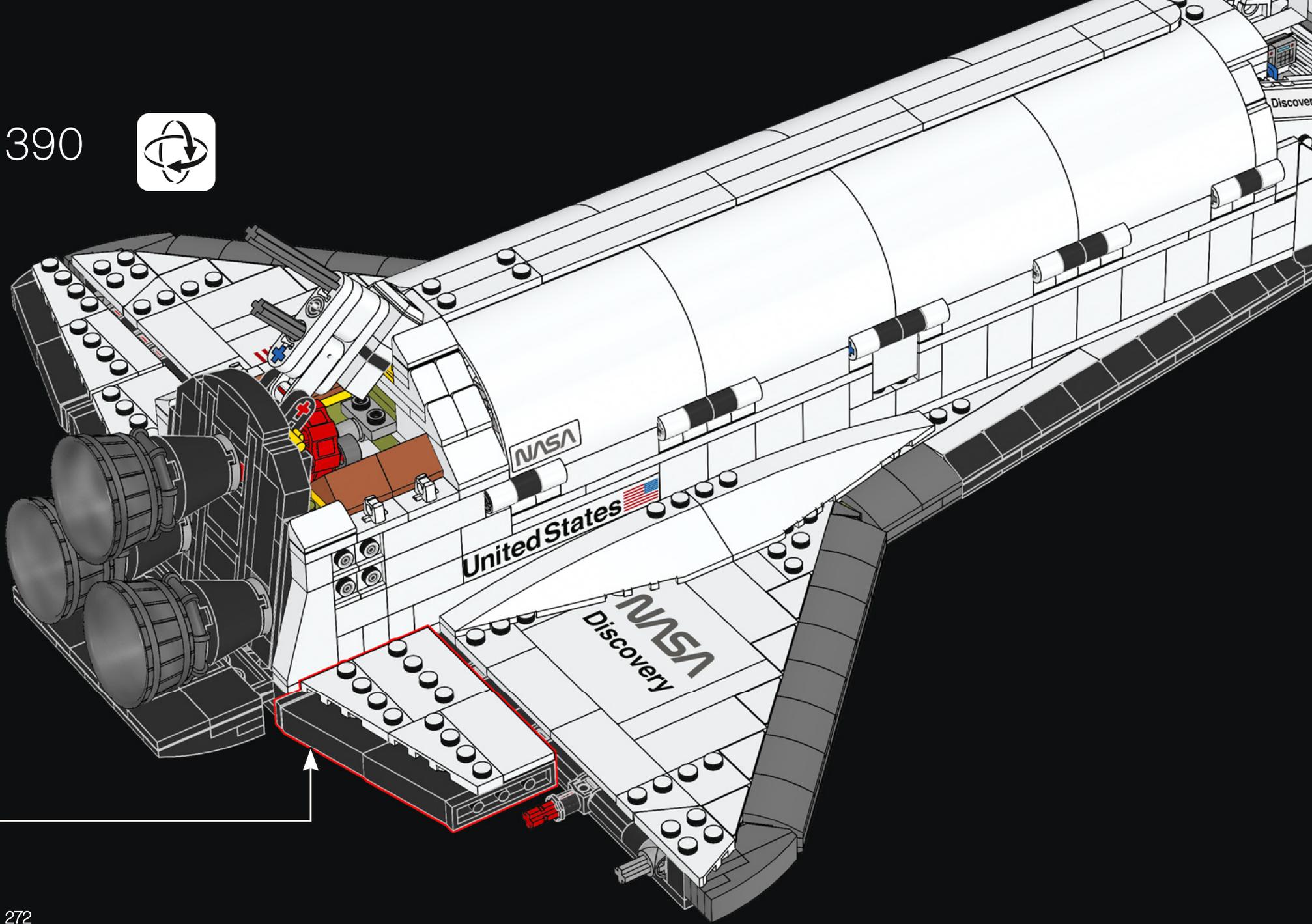
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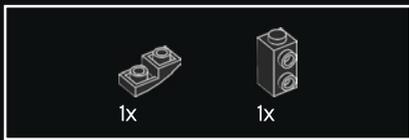


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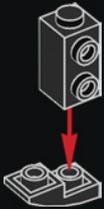


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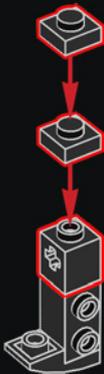




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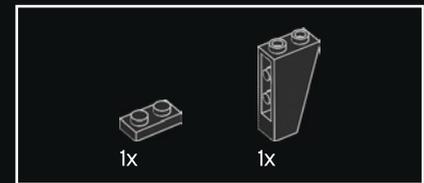
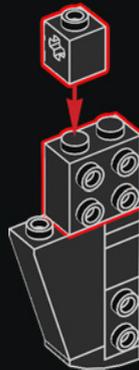
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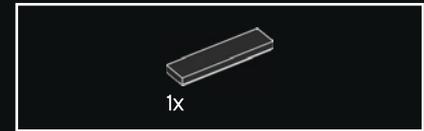
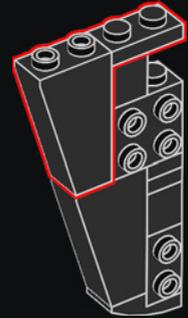
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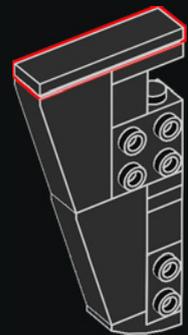
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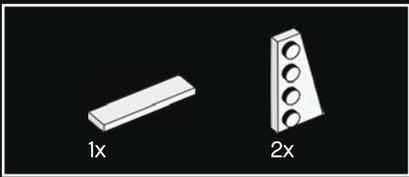


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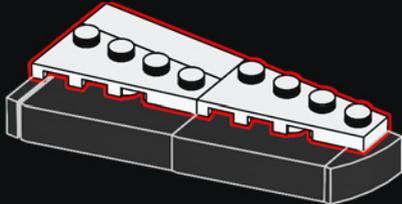


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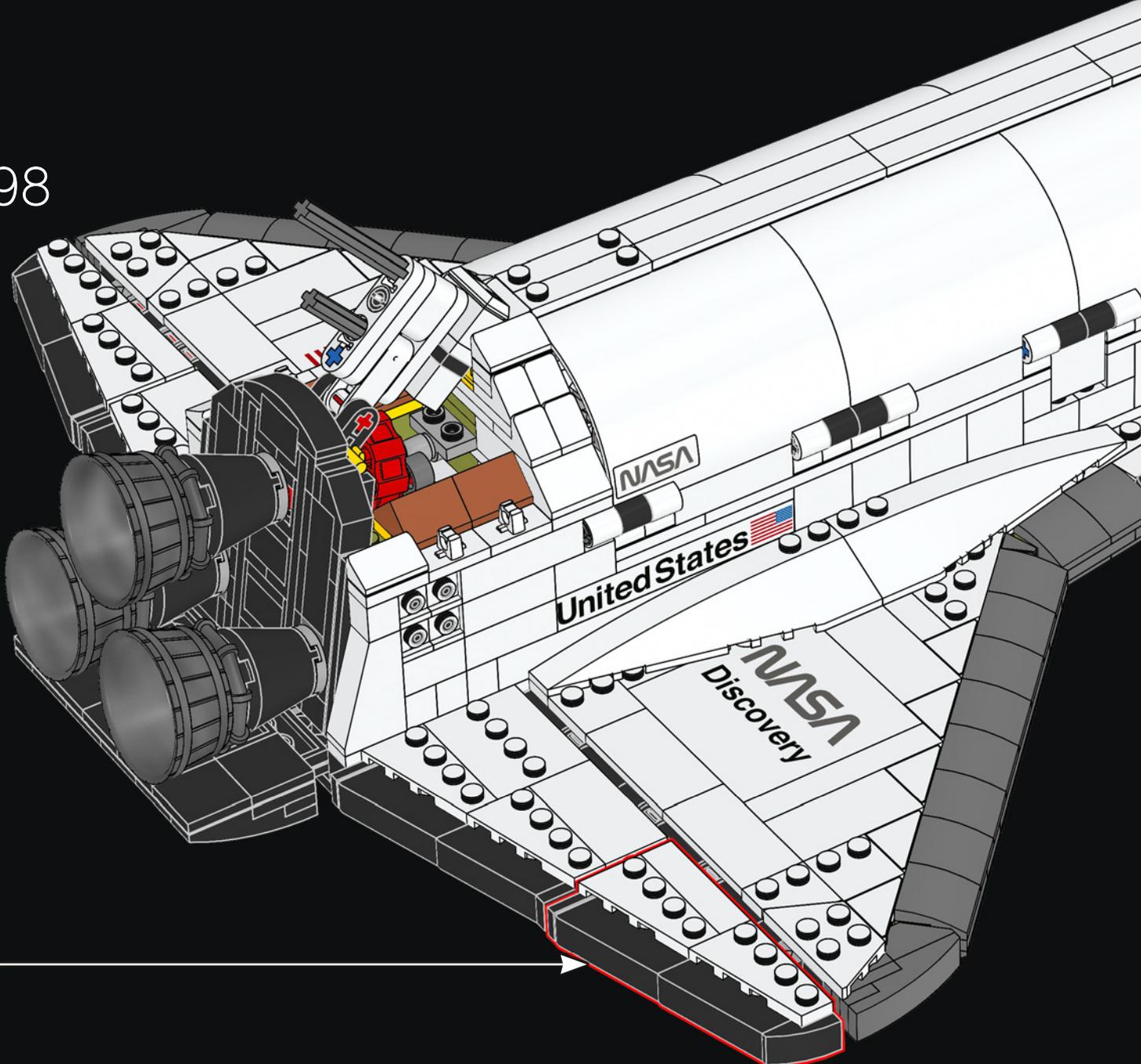


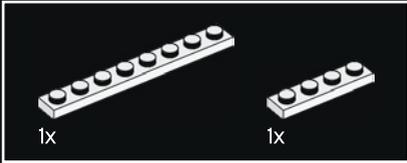
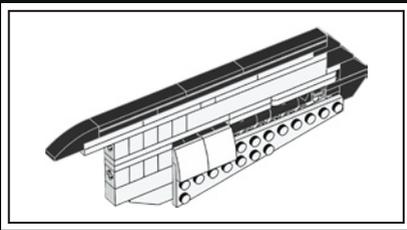


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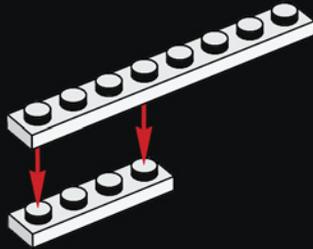


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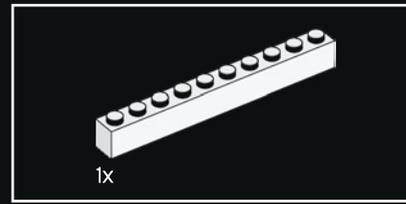
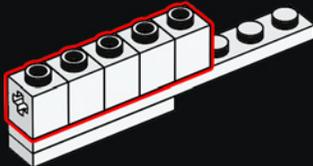




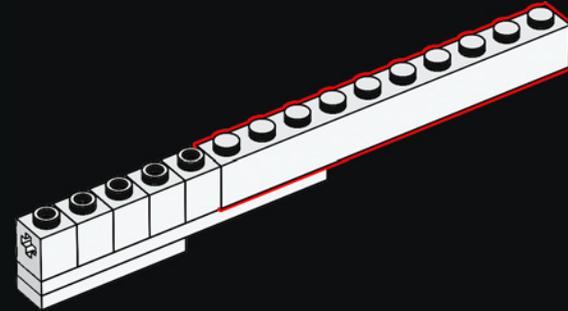
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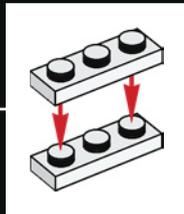
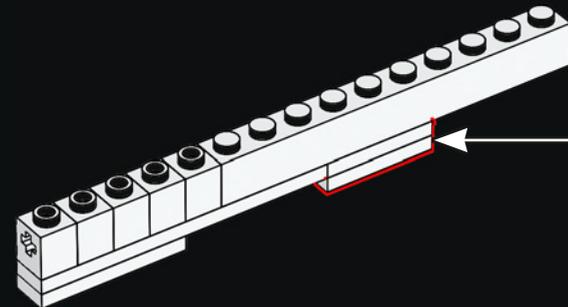
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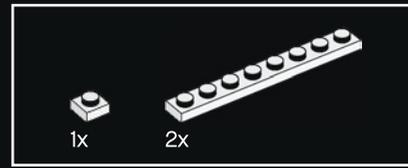
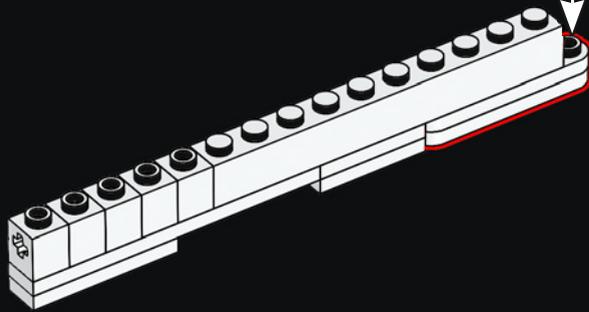
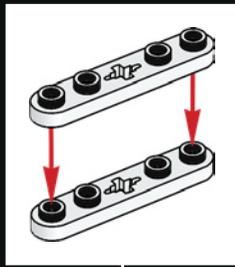


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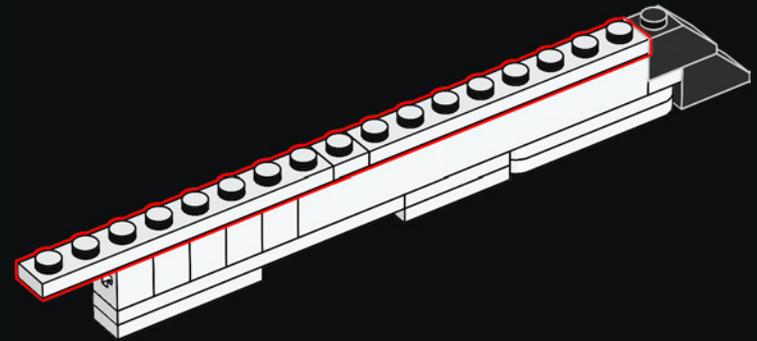




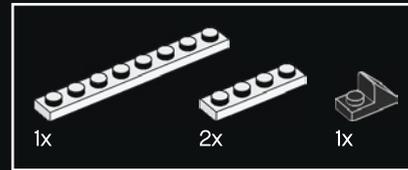
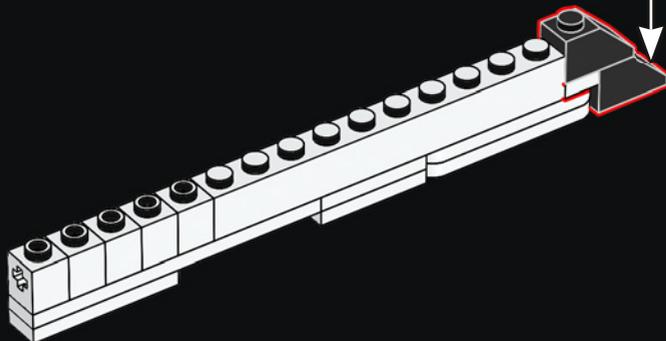
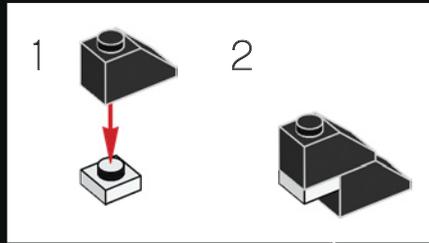
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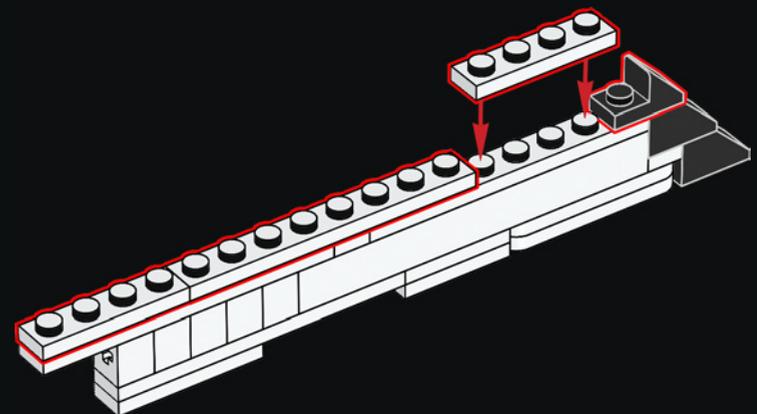
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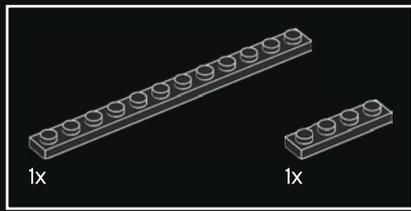


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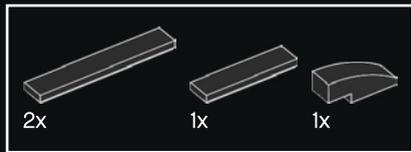
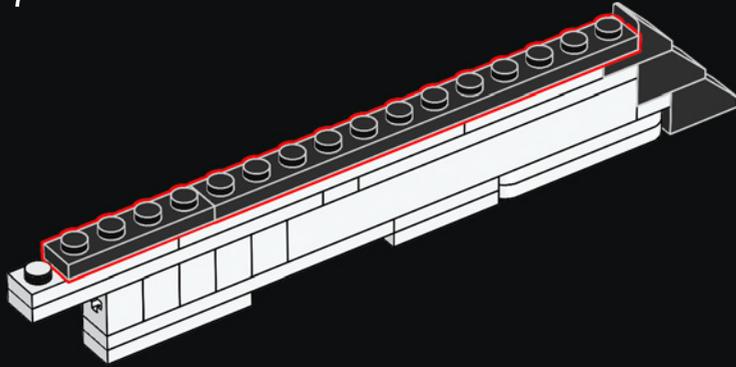


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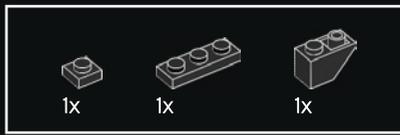
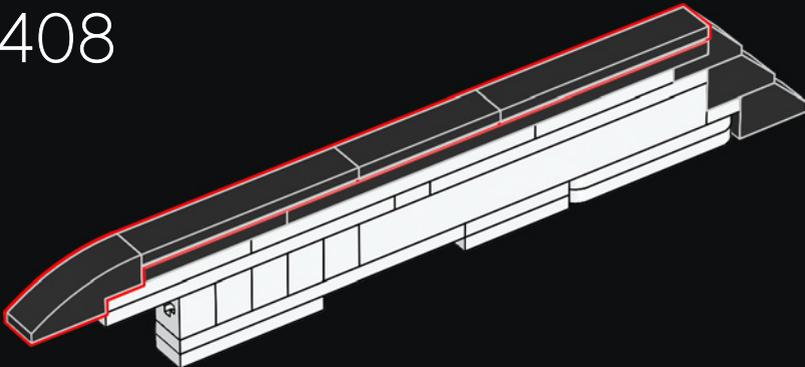




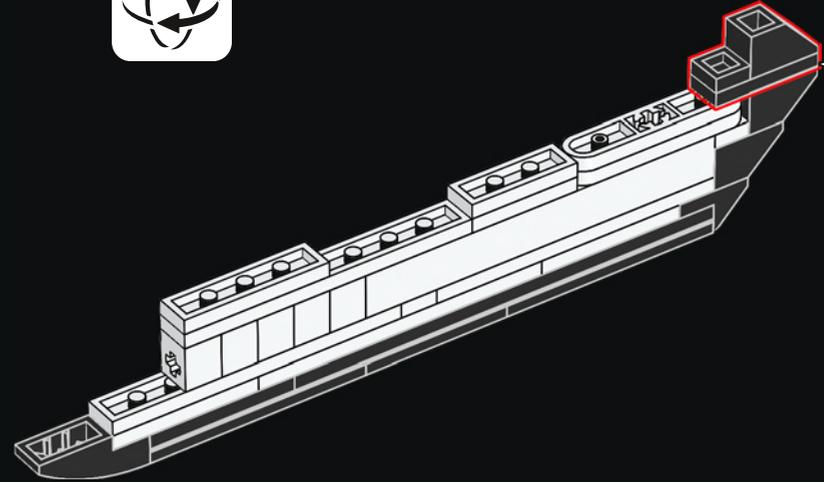
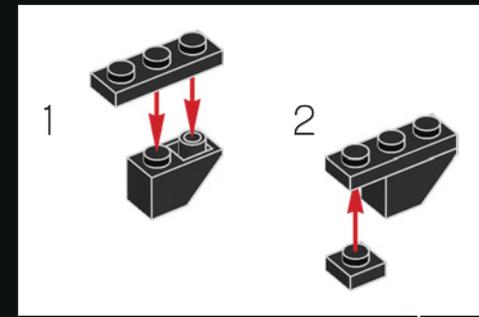
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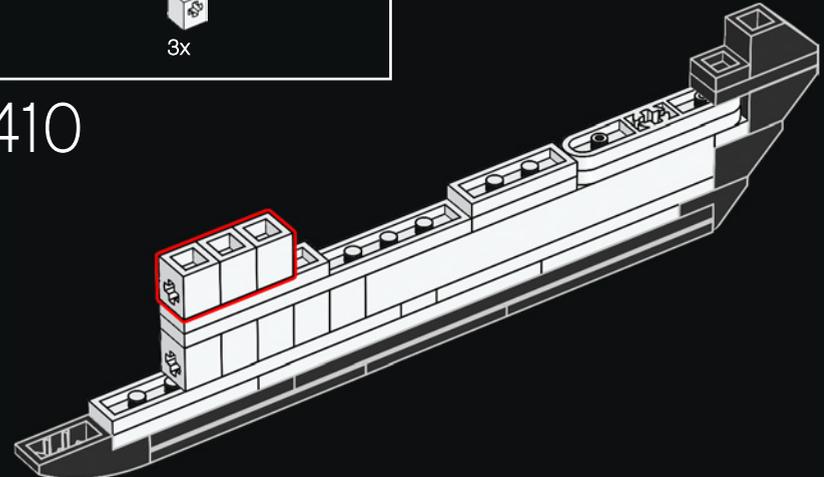
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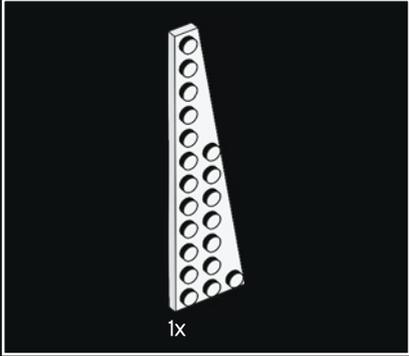
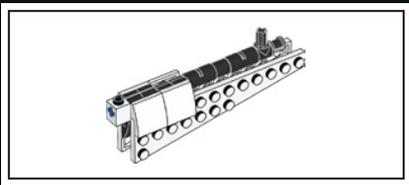


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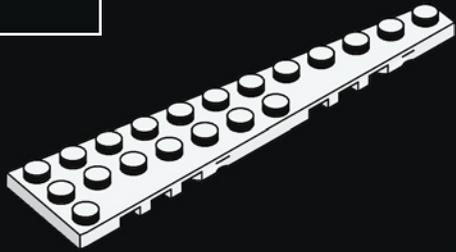


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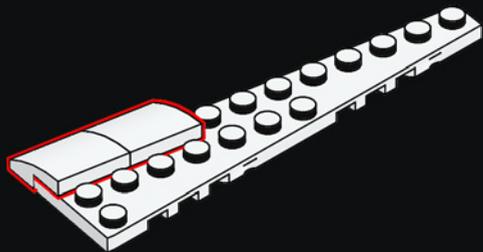




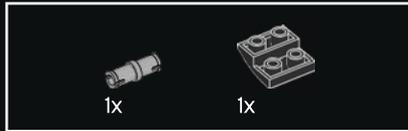
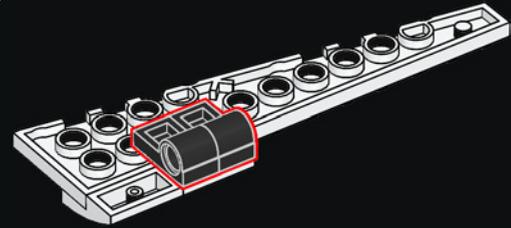
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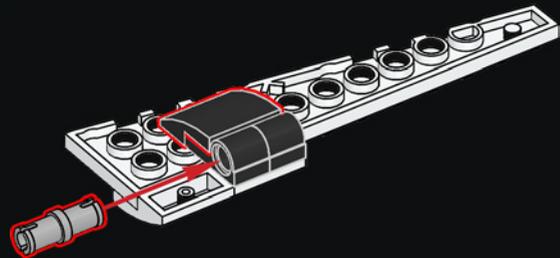
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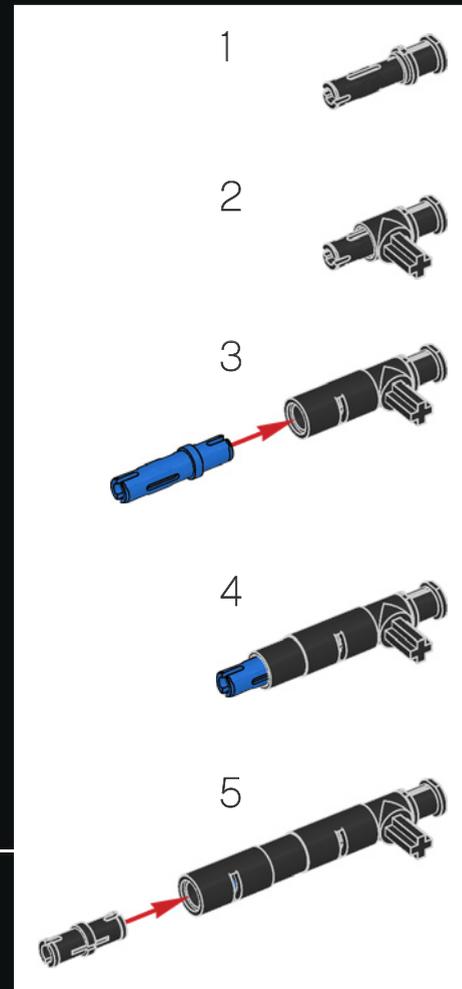
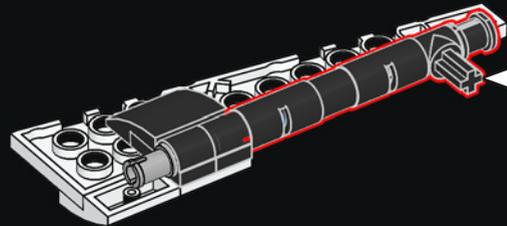


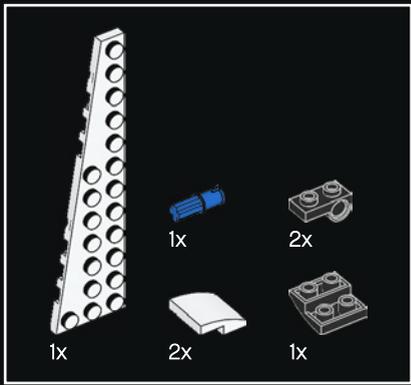
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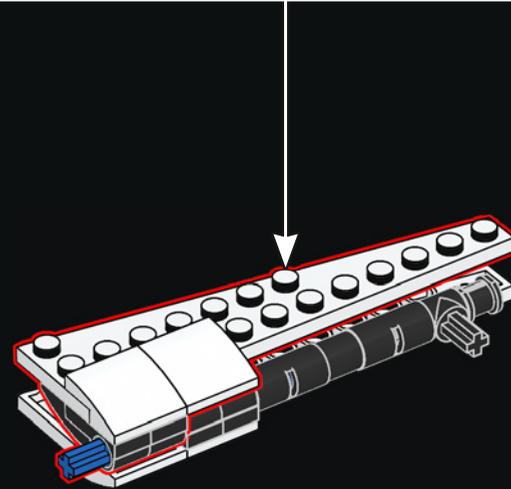
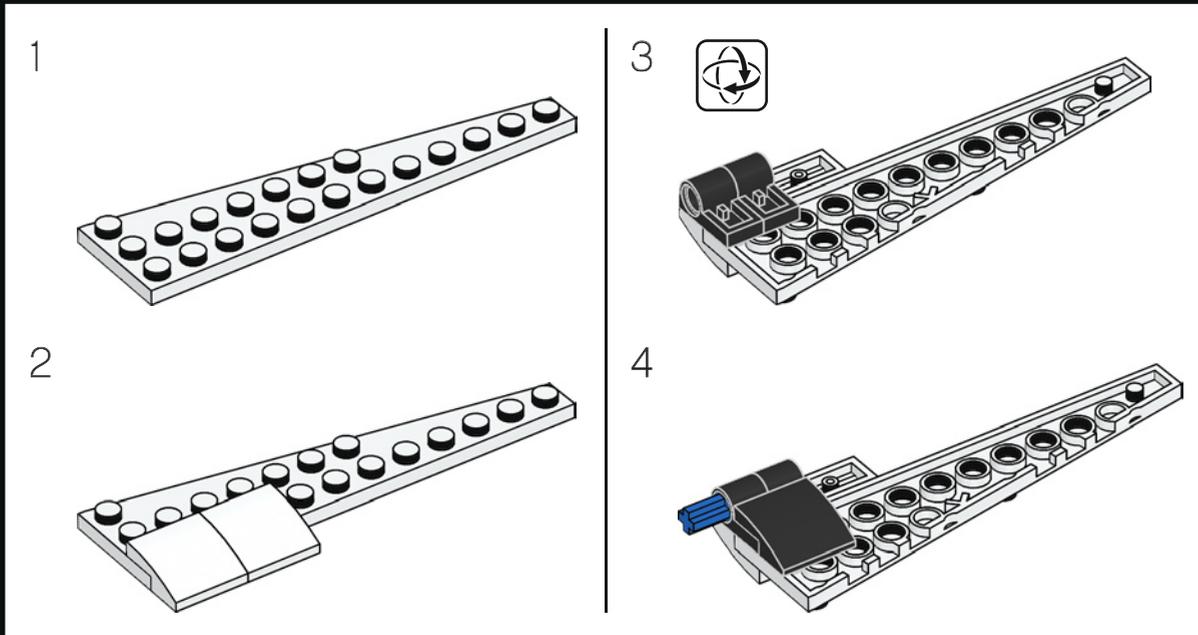


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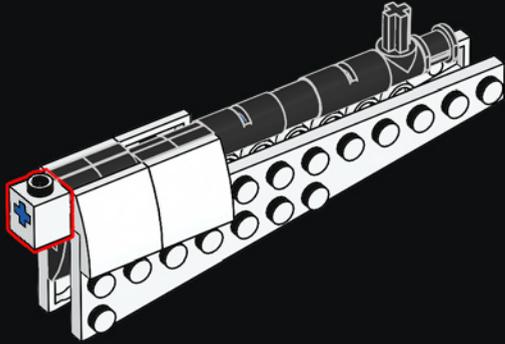


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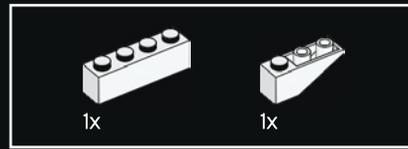
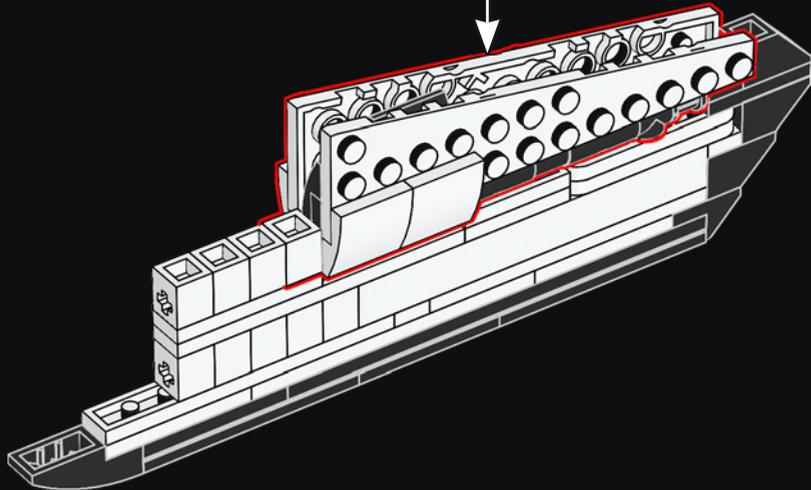




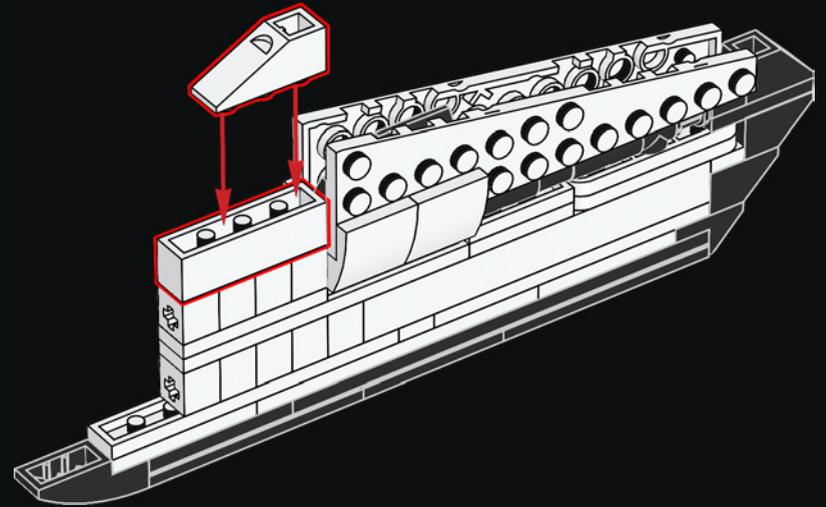
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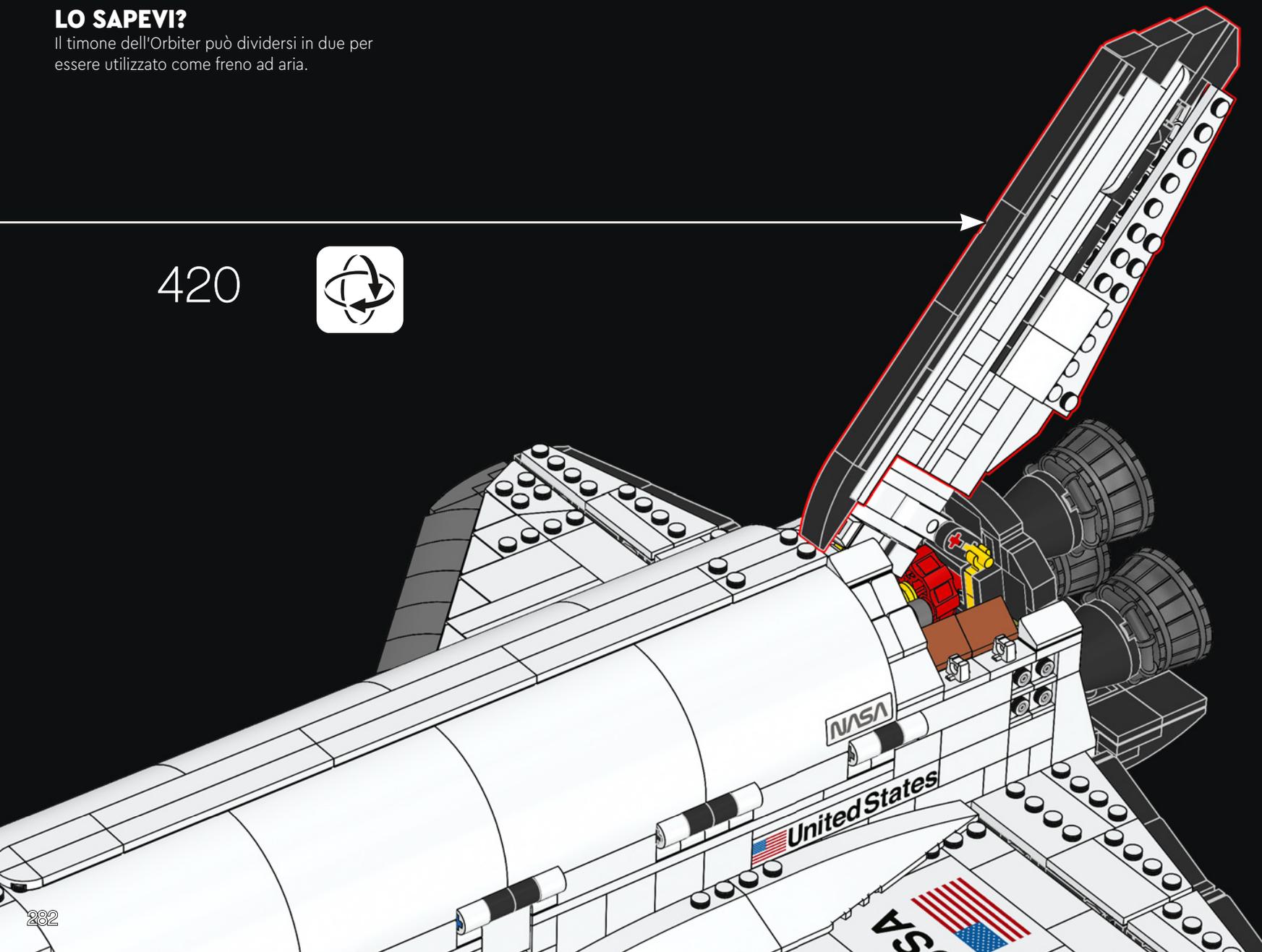
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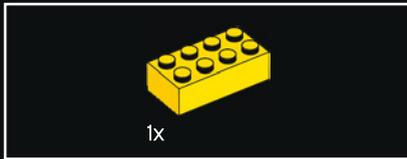
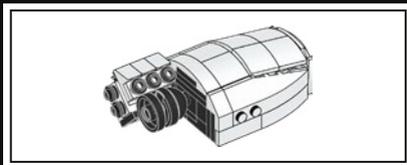
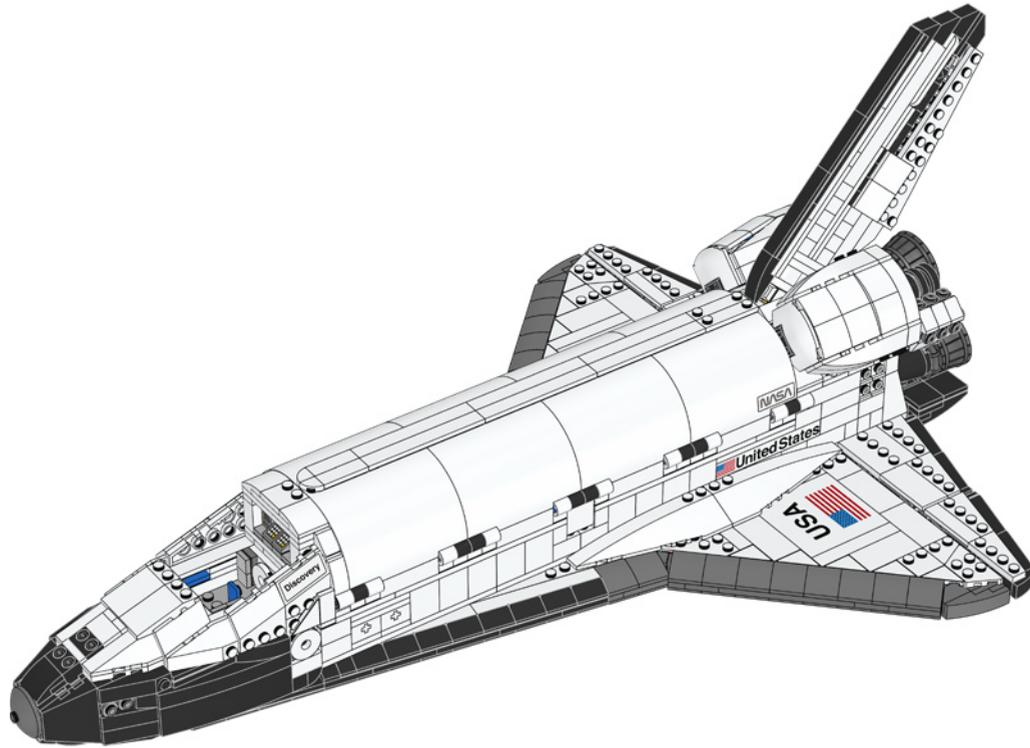
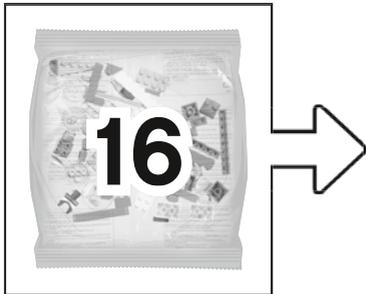


LO SAPEVI?

Il timone dell'Orbiter può dividersi in due per essere utilizzato come freno ad aria.

420

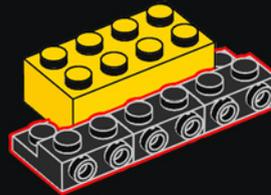




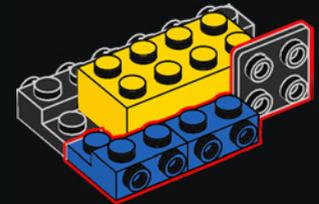
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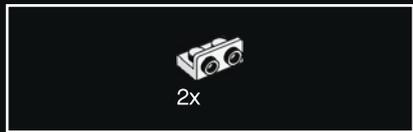
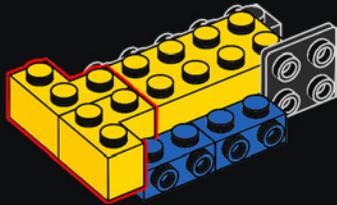


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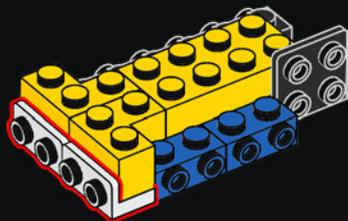




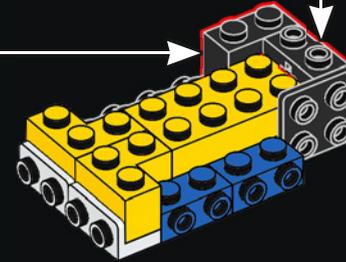
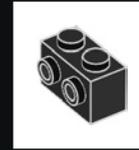
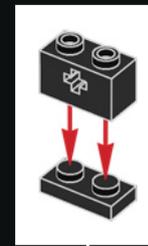
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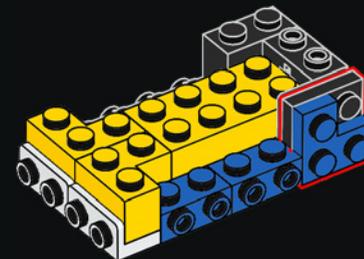
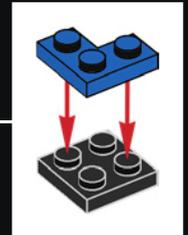
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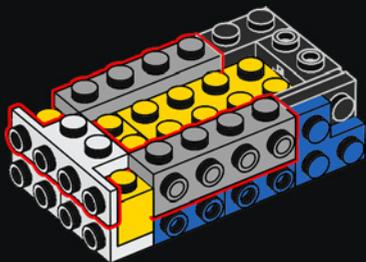


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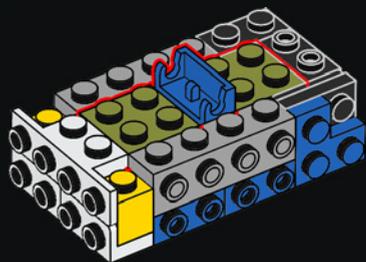




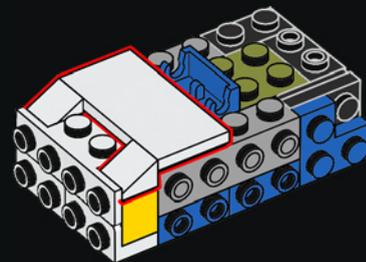
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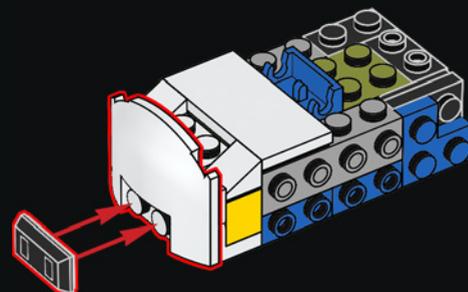
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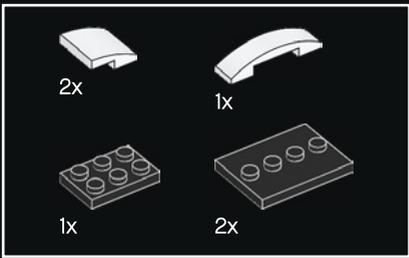


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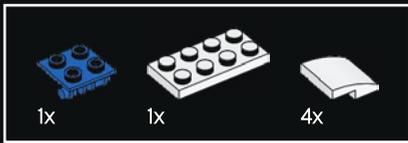
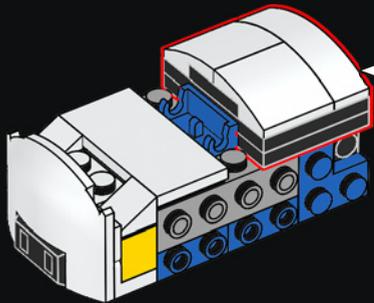
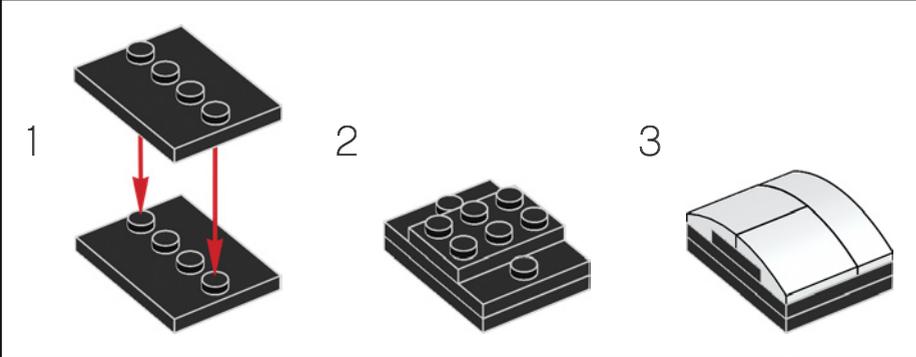


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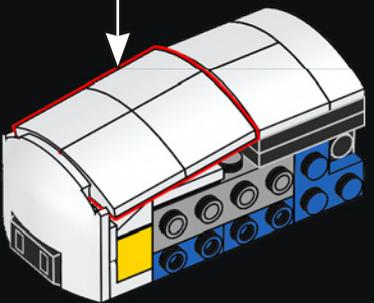
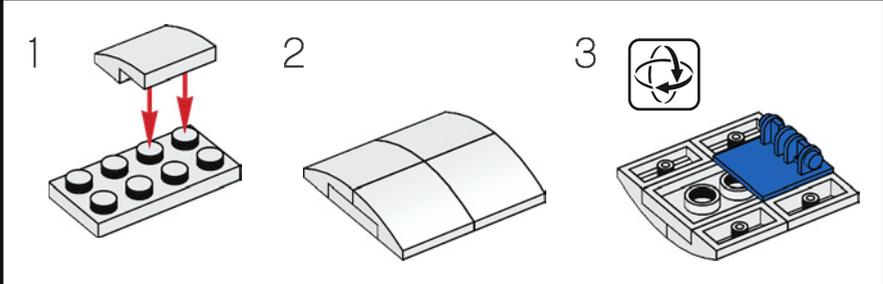




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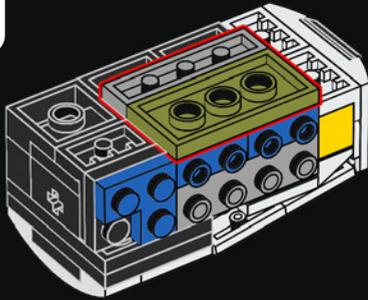


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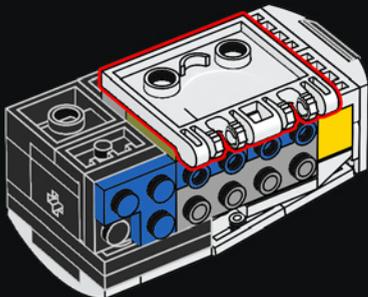




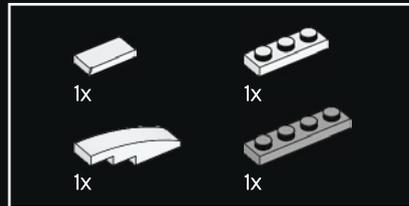
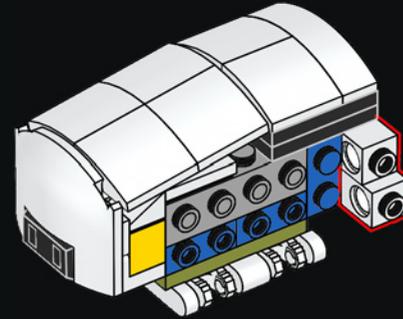
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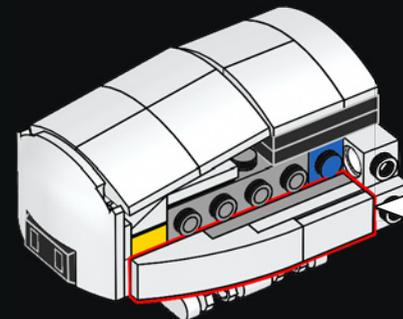
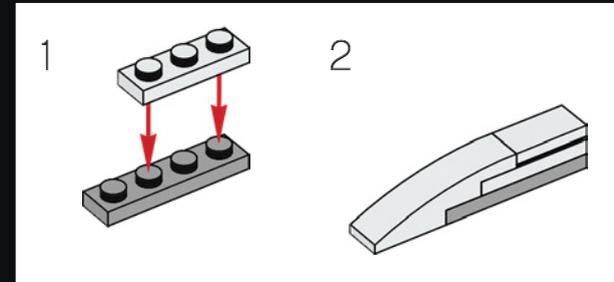
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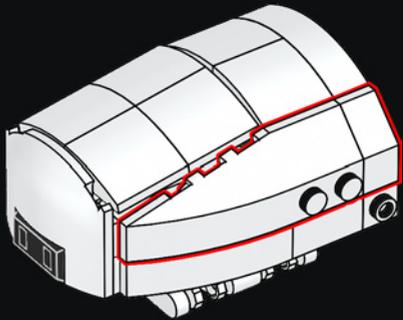


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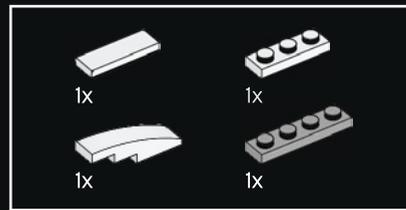
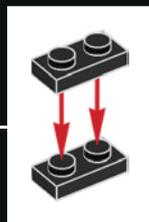
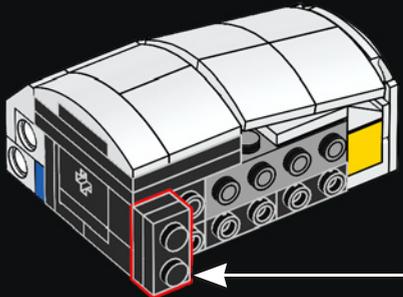




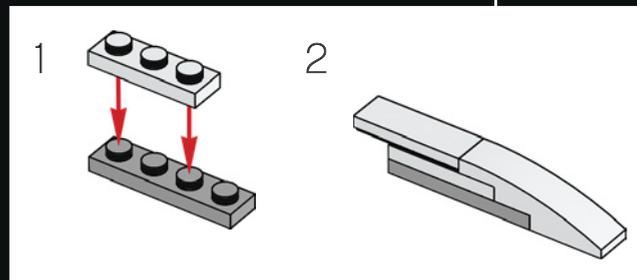
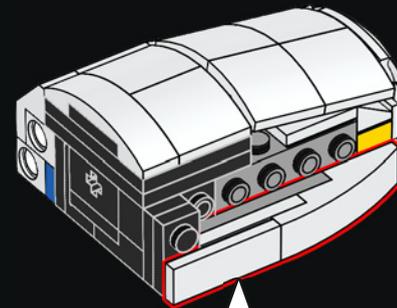
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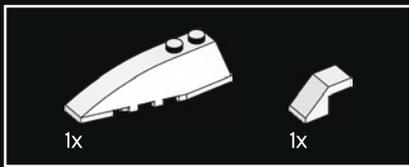


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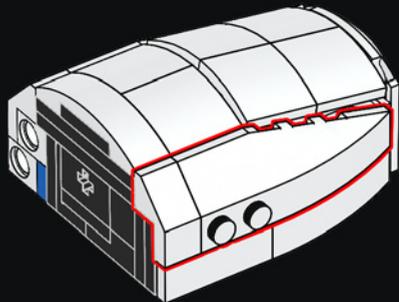


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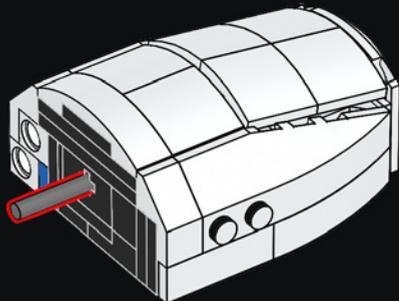




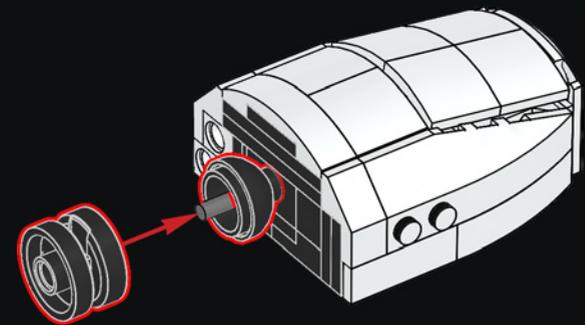
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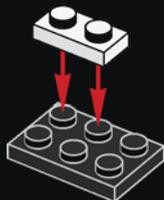


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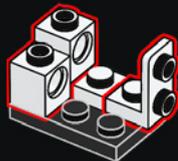




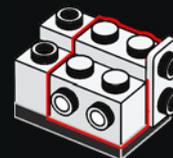
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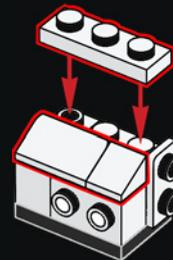
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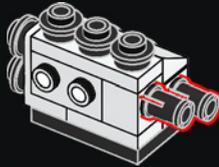




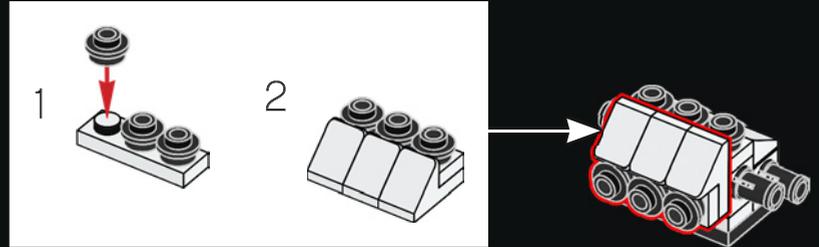
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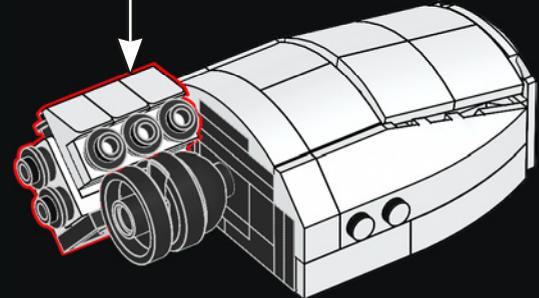
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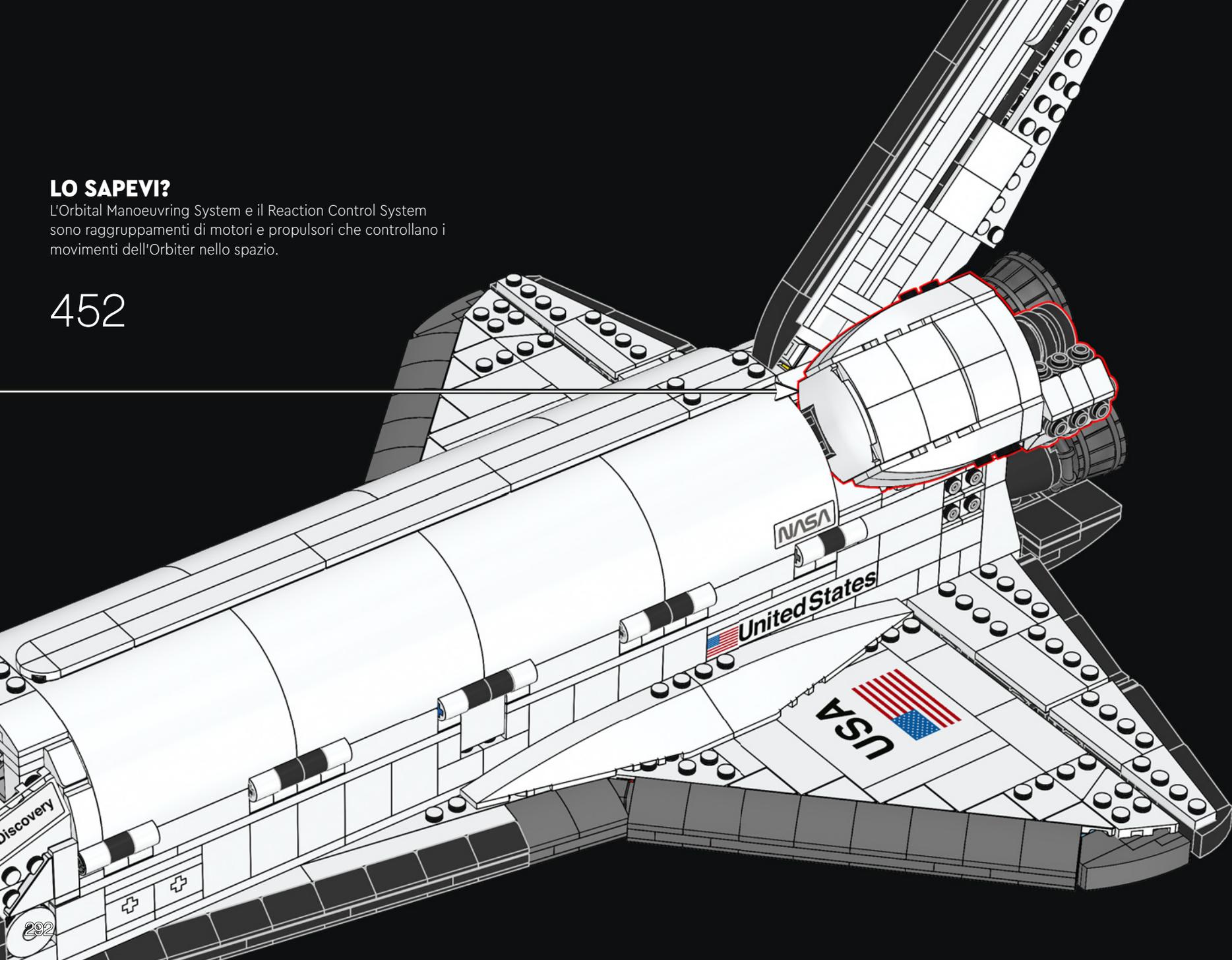
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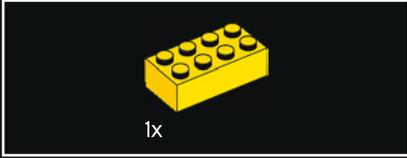
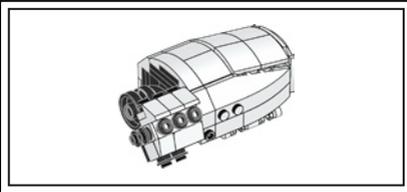


LO SAPEVI?

L'Orbital Manoeuvring System e il Reaction Control System sono raggruppamenti di motori e propulsori che controllano i movimenti dell'Orbiter nello spazio.

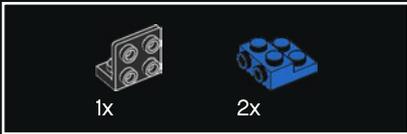
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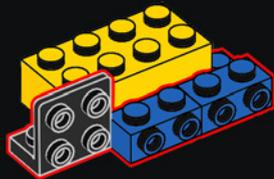
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2x

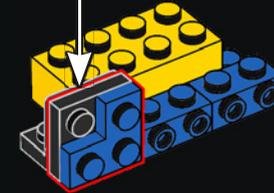
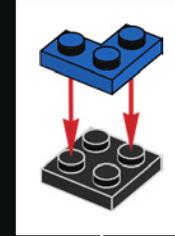
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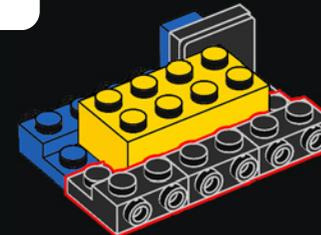
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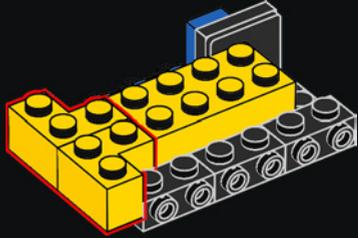
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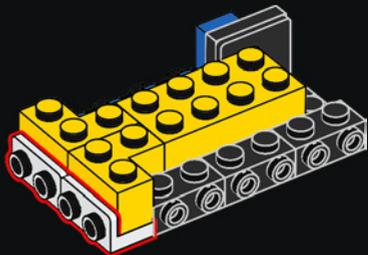




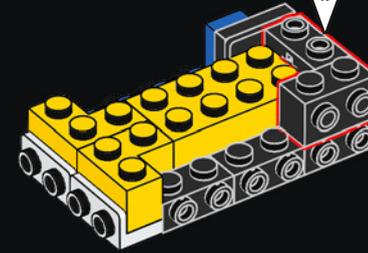
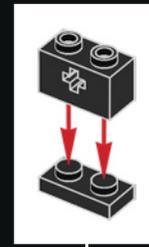
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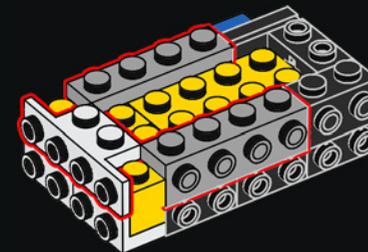
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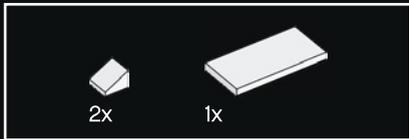
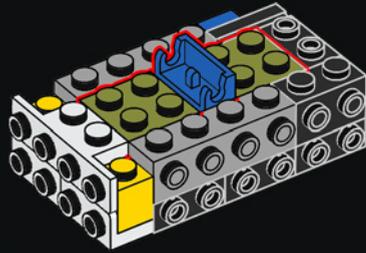


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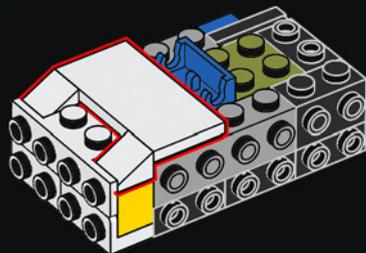




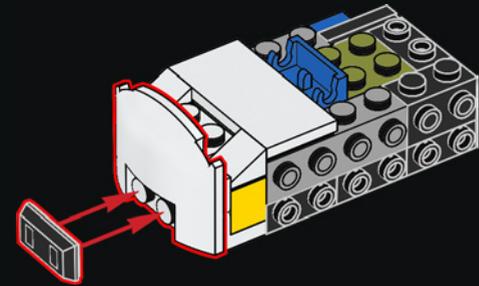
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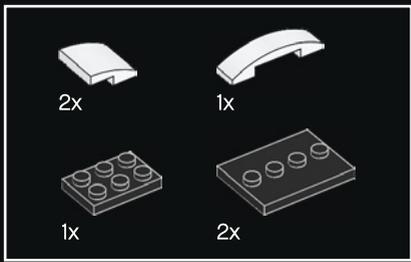


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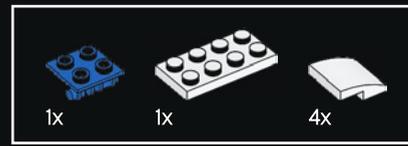
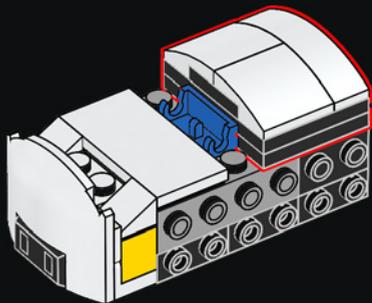
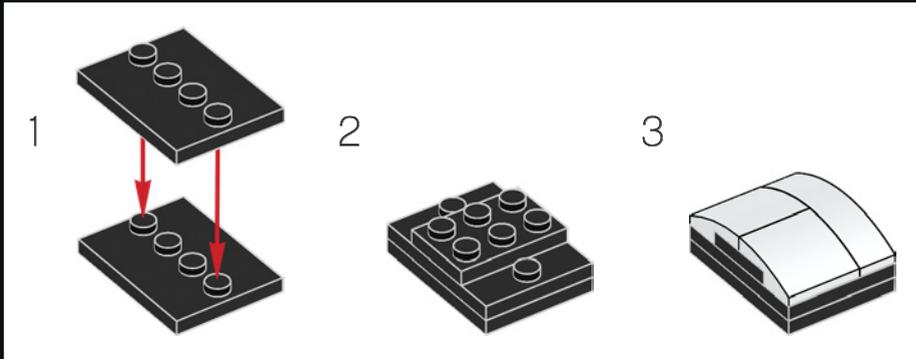


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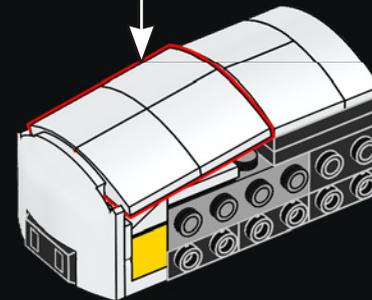
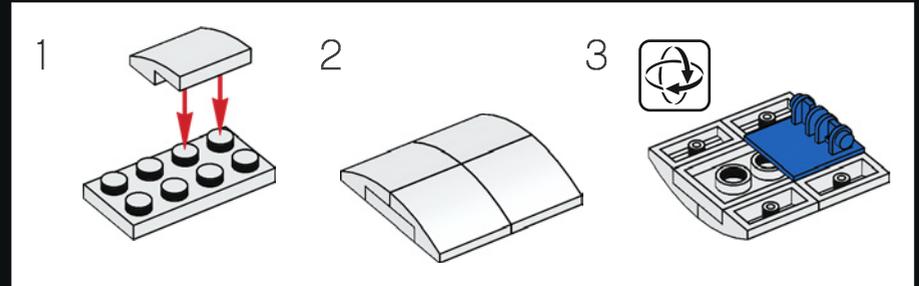




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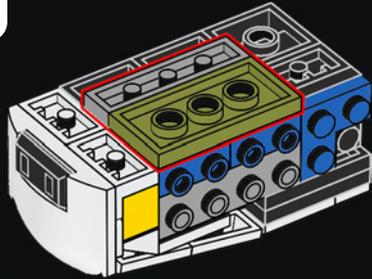


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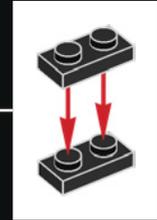
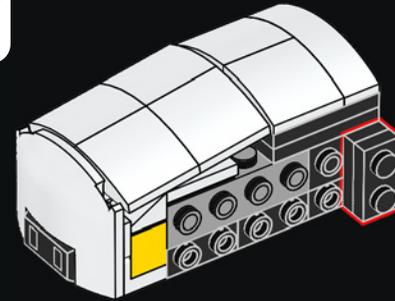




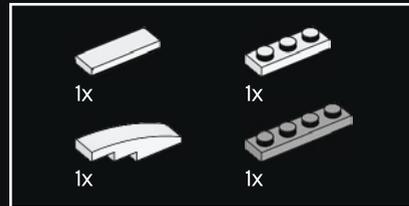
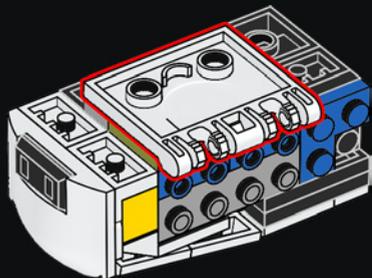
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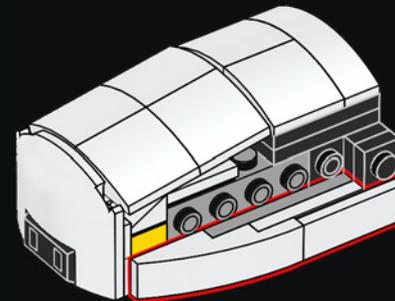
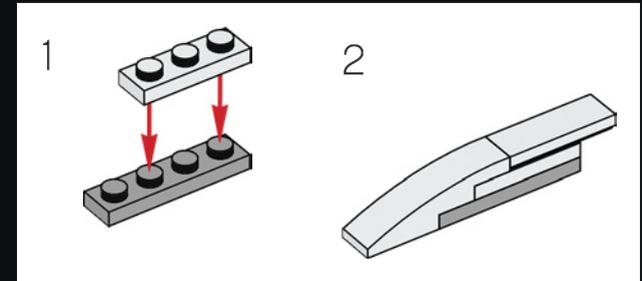
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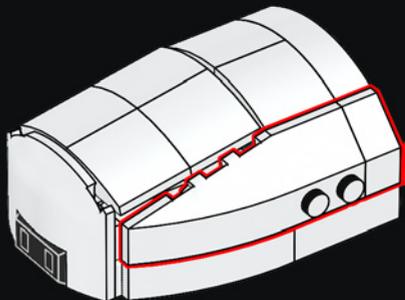


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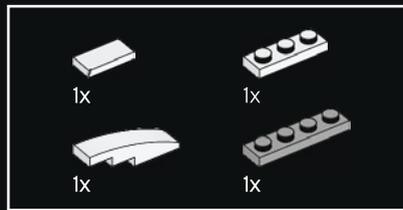
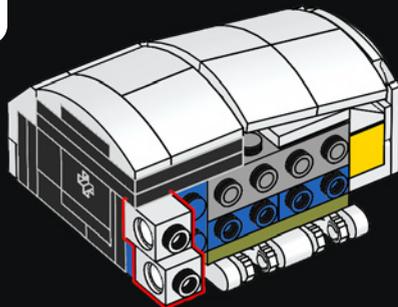




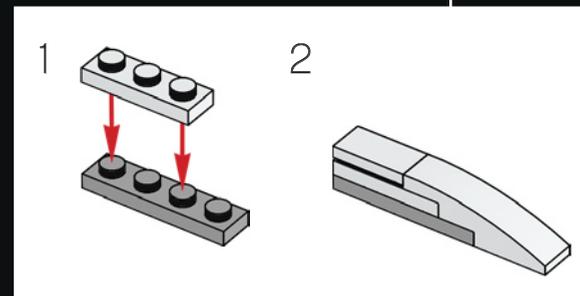
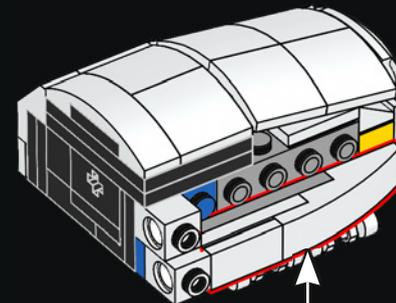
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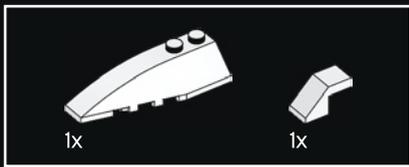


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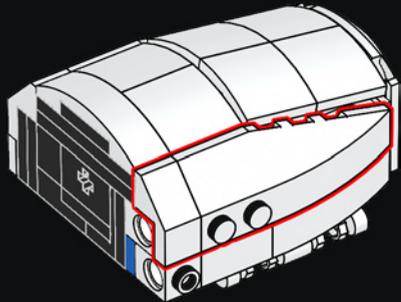


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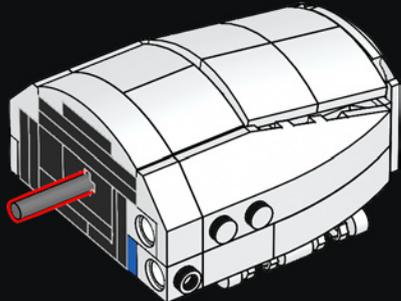




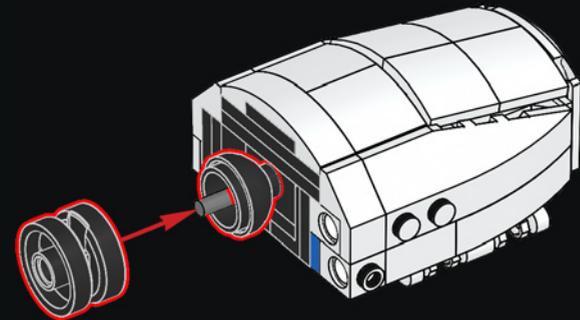
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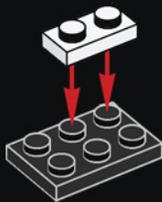


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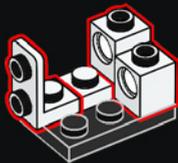




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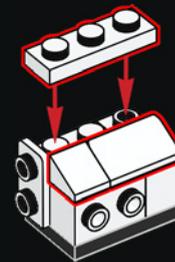
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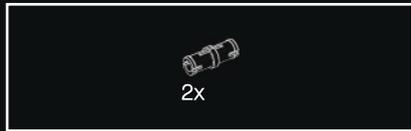


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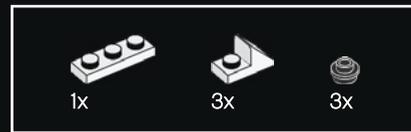
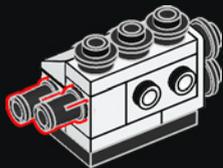




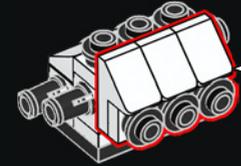
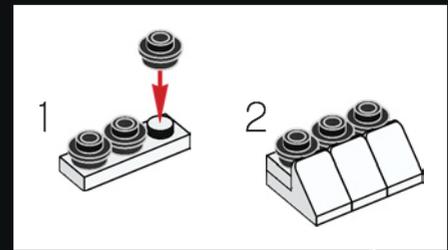
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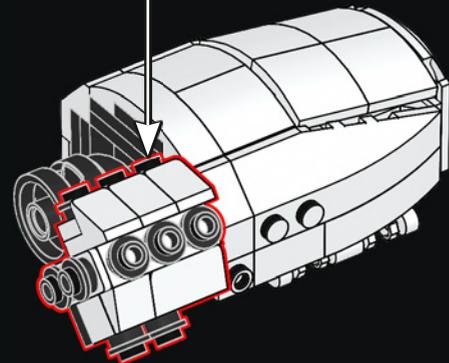
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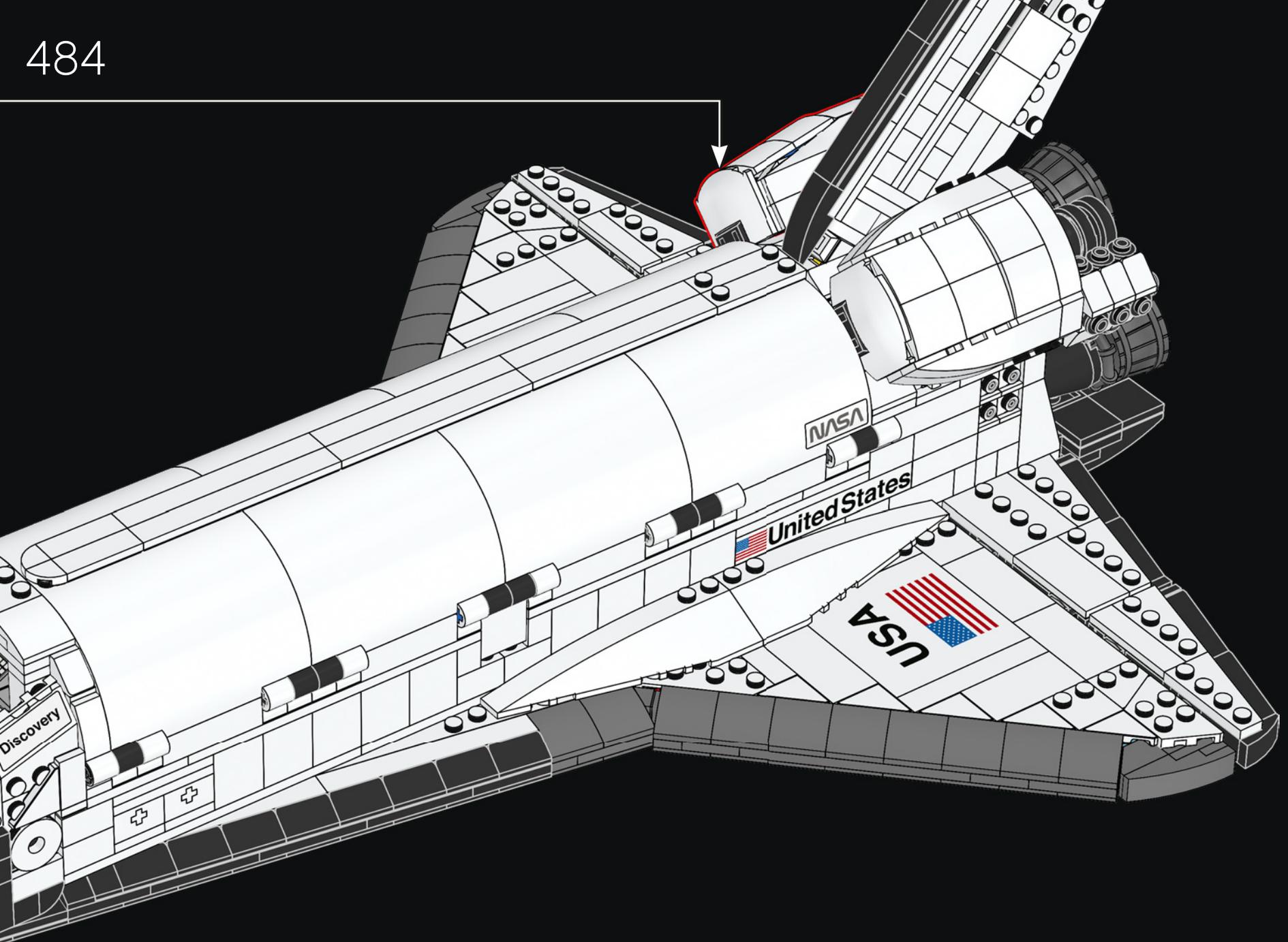


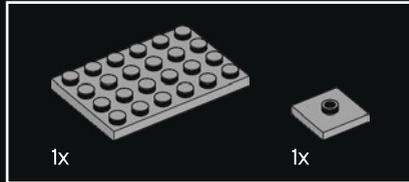
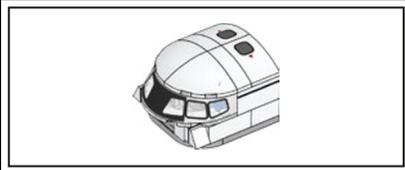
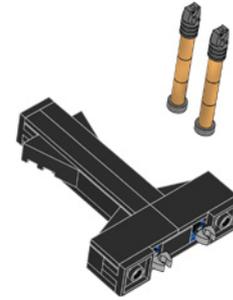
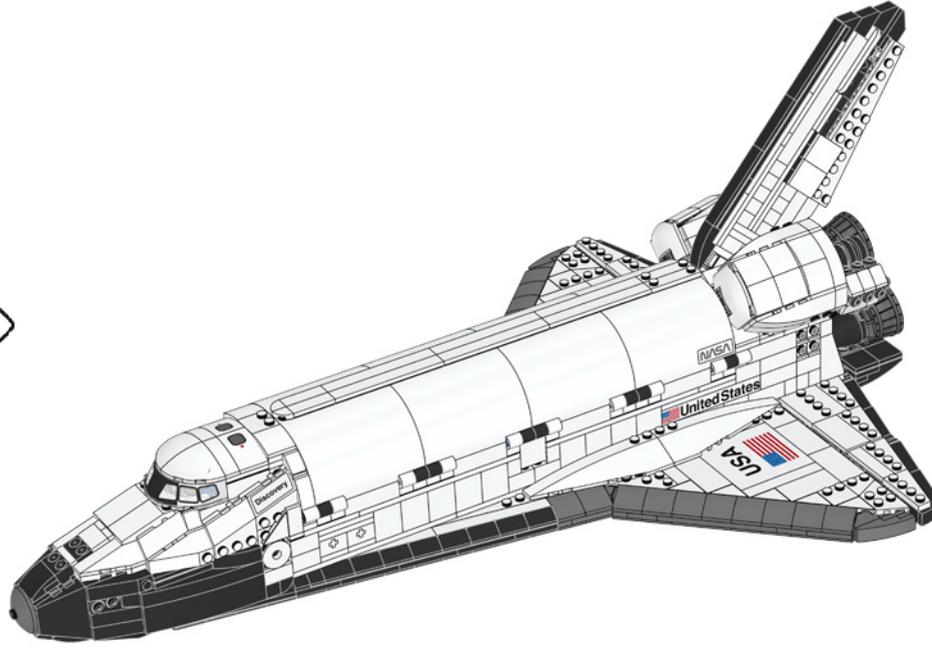
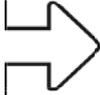
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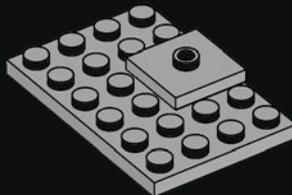
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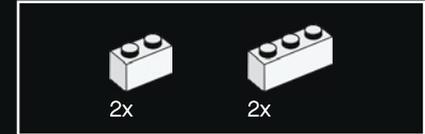
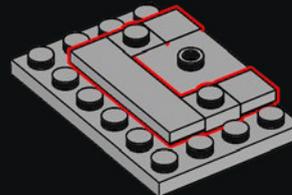




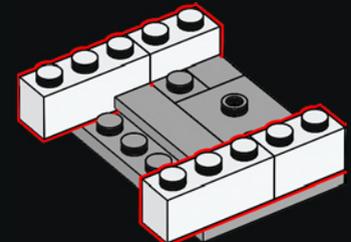
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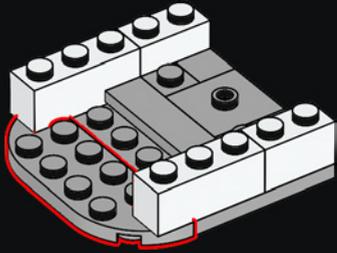


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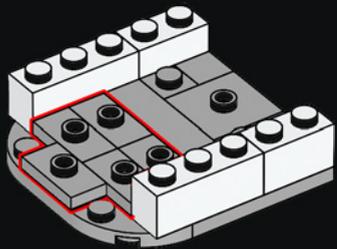




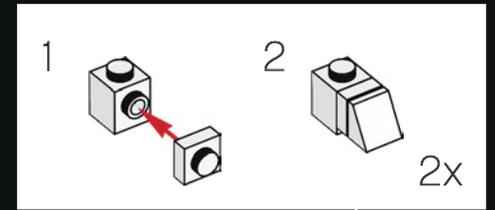
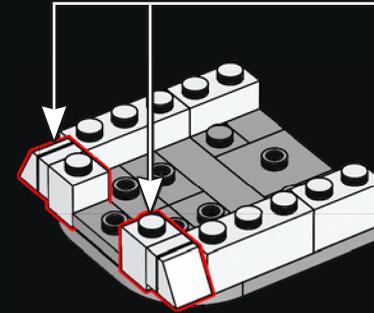
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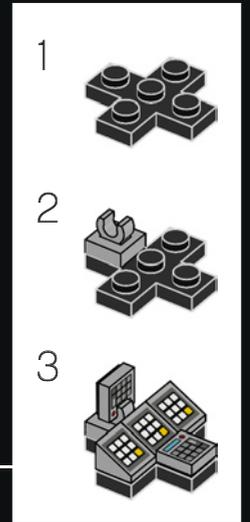
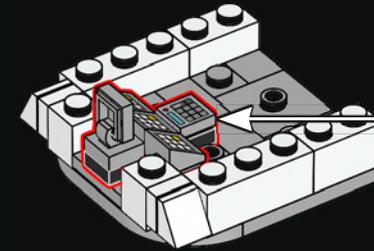
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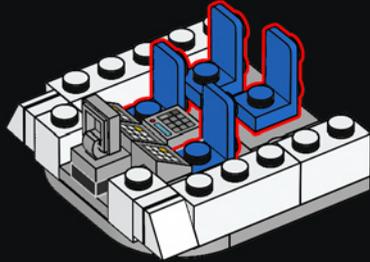


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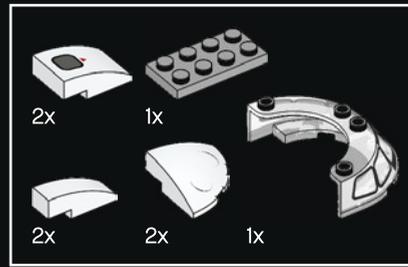
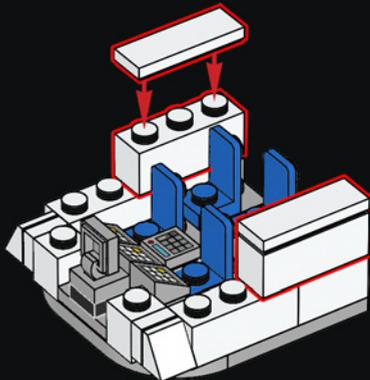




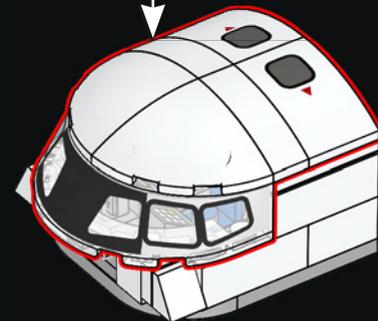
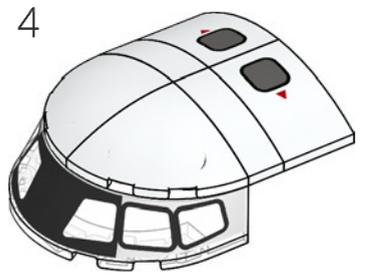
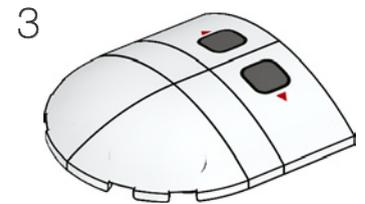
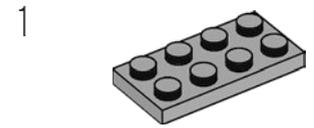
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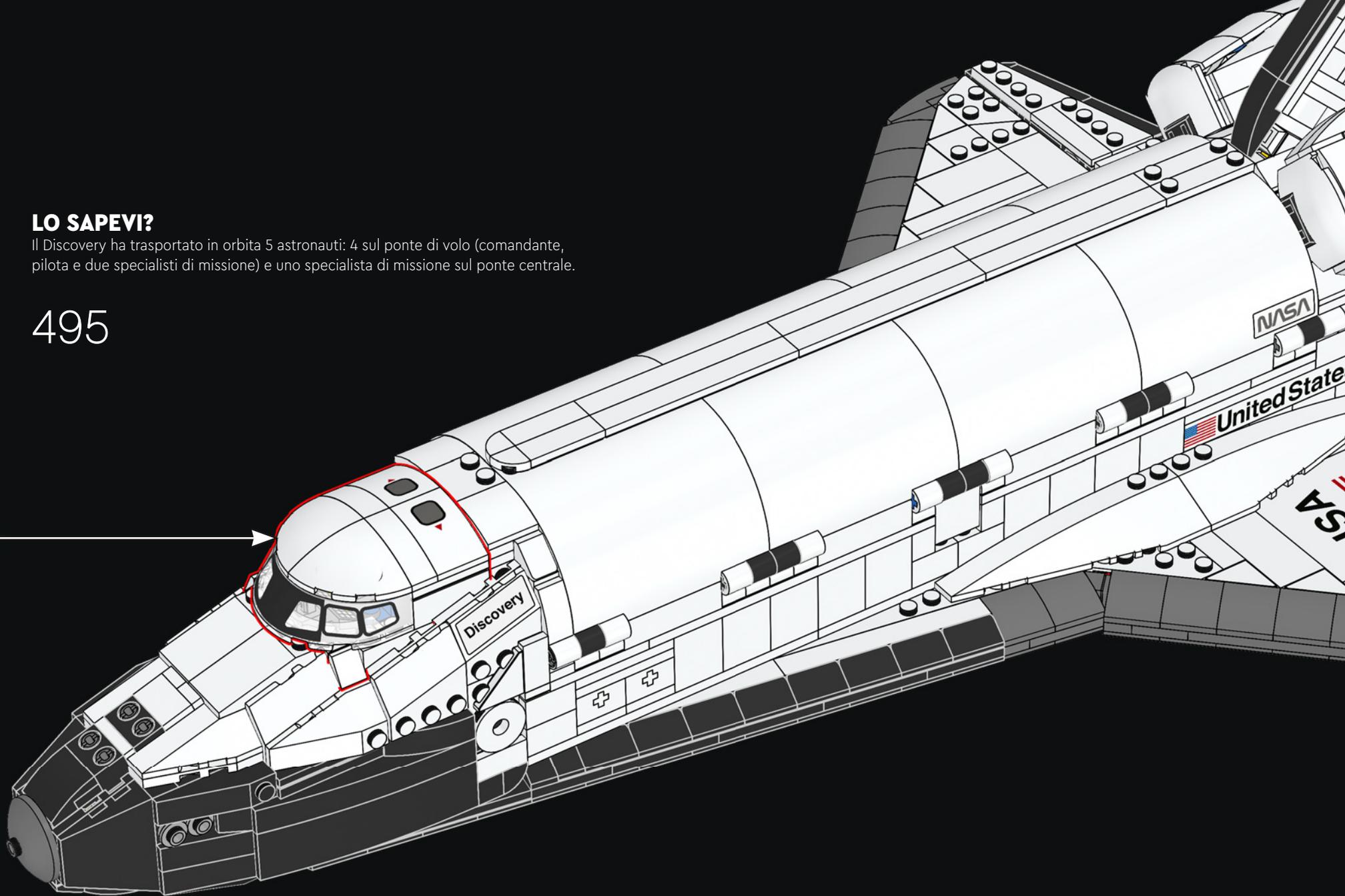
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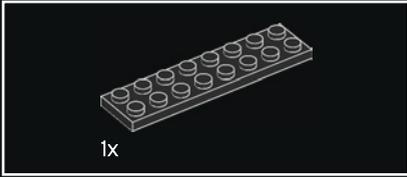
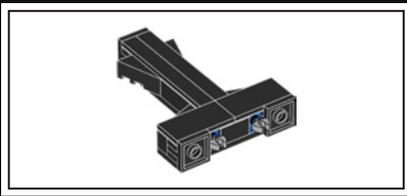


LO SAPEVI?

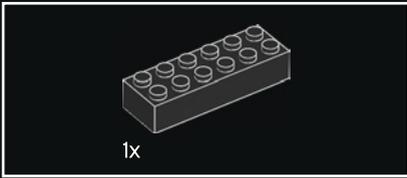
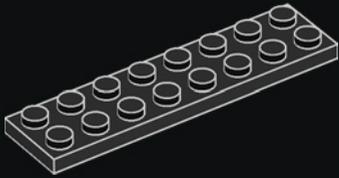
Il Discovery ha trasportato in orbita 5 astronauti: 4 sul ponte di volo (comandante, pilota e due specialisti di missione) e uno specialista di missione sul ponte centrale.

495

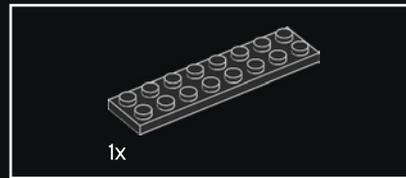
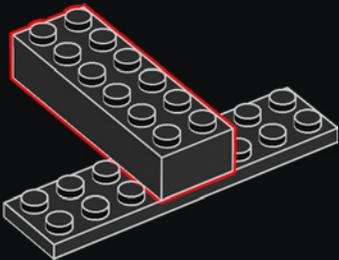




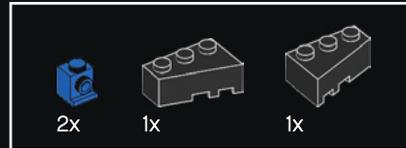
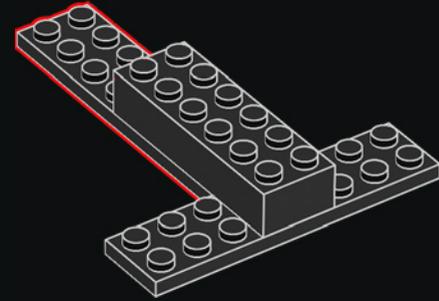
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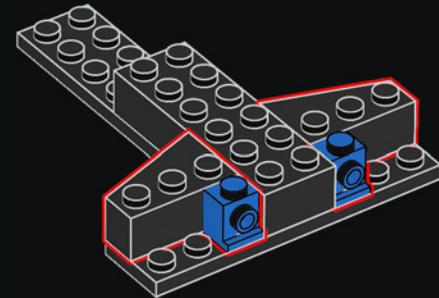
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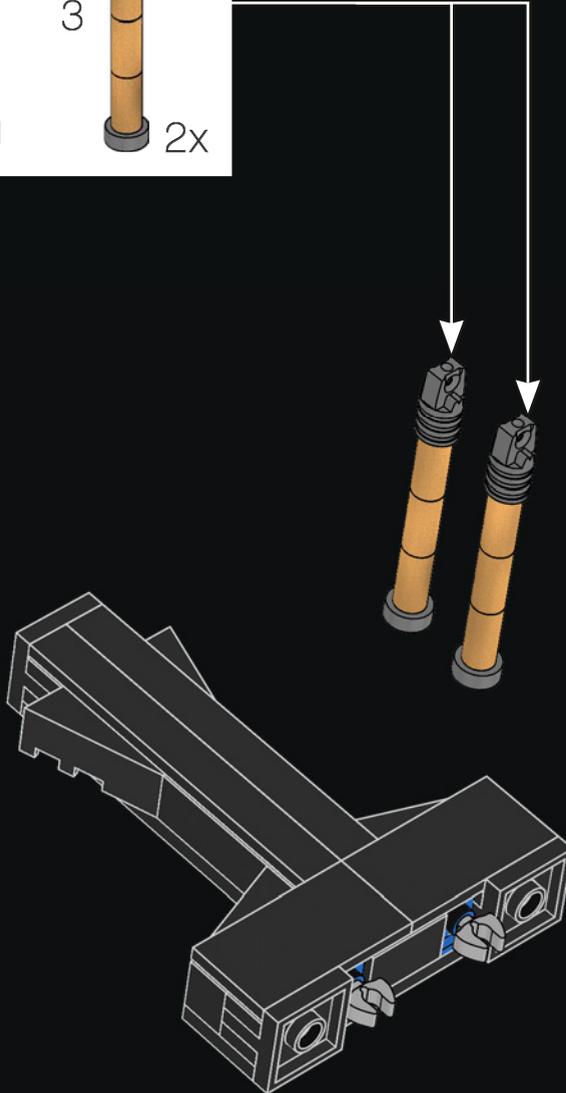
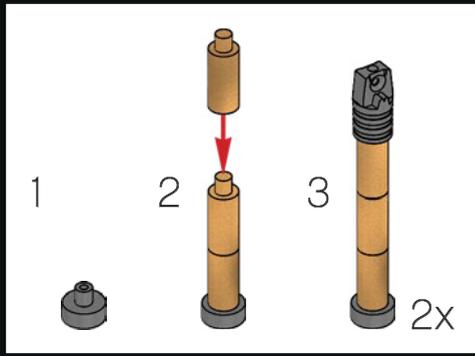


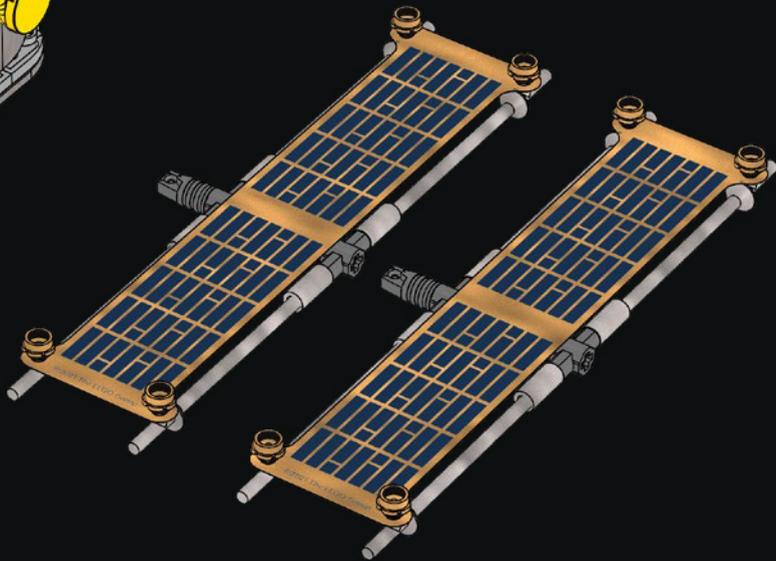
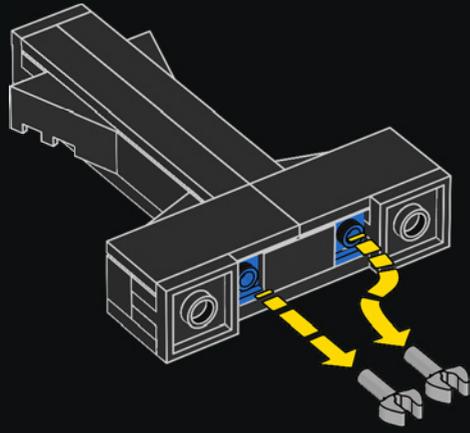
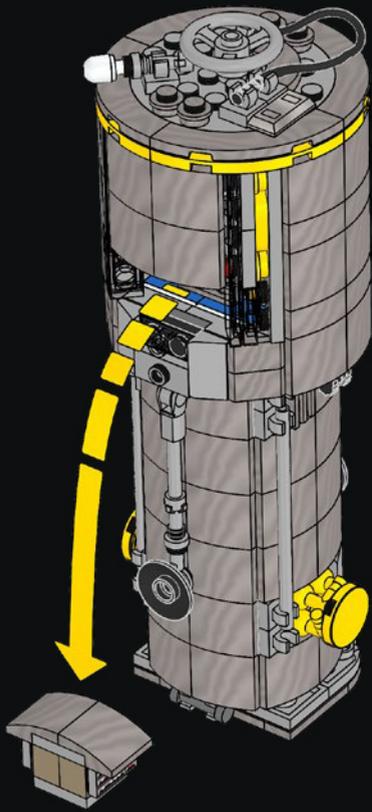
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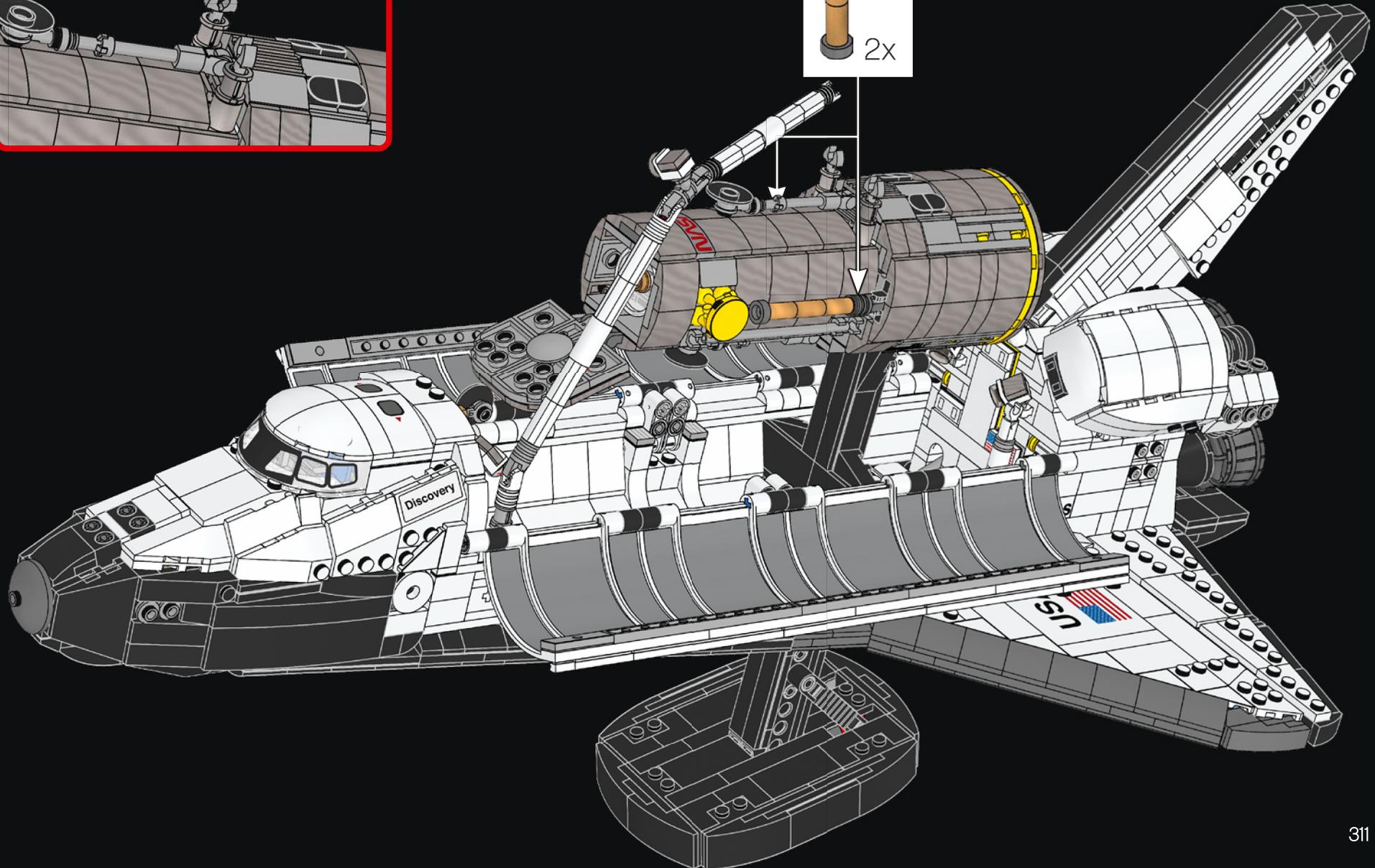
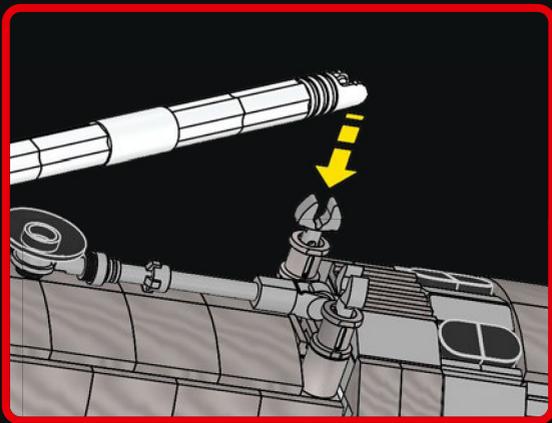


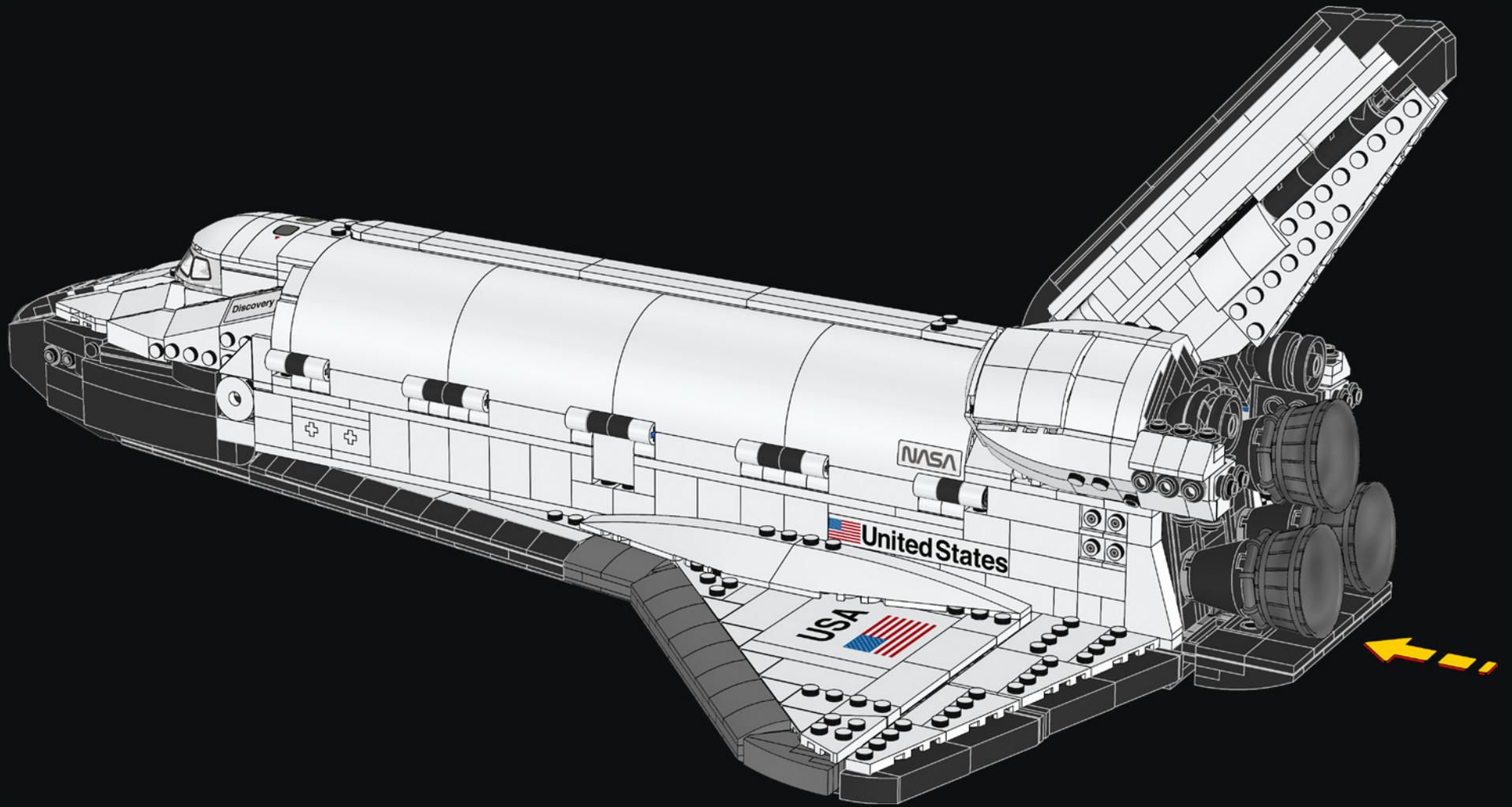


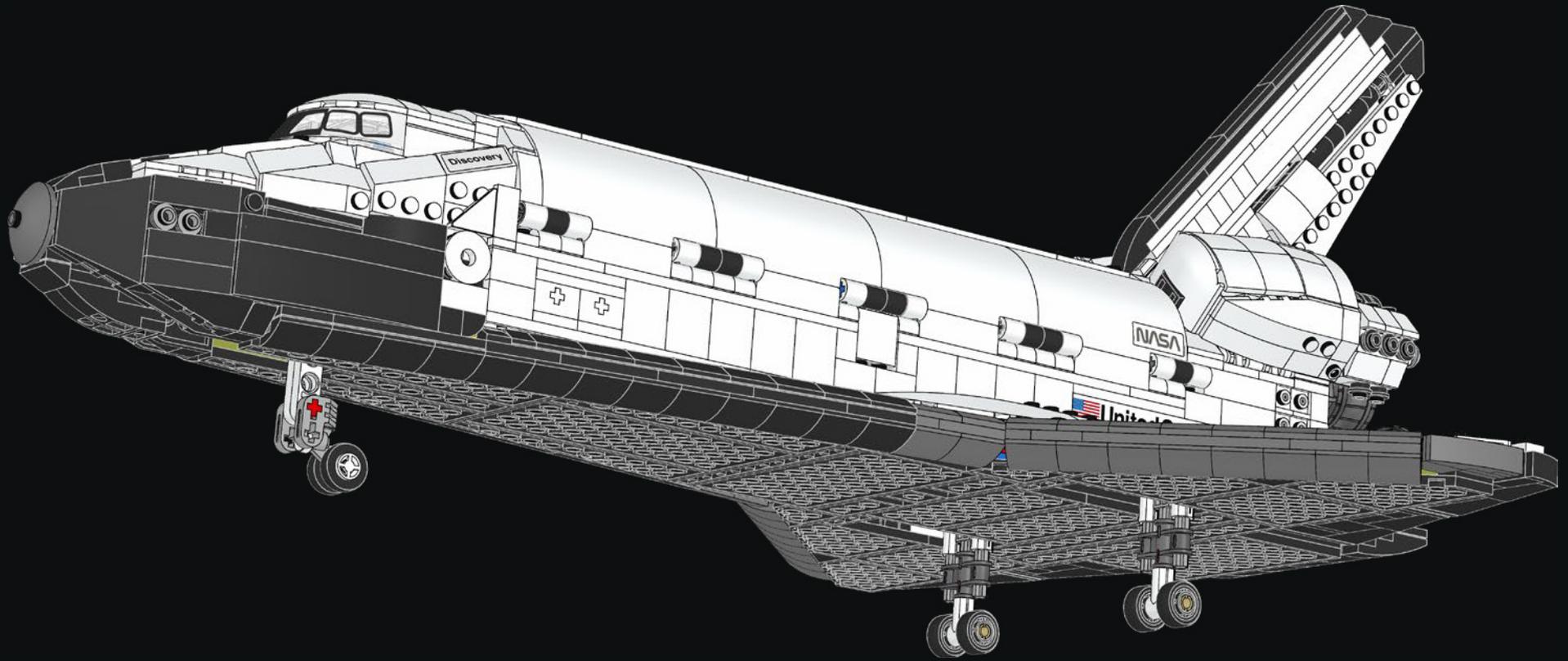
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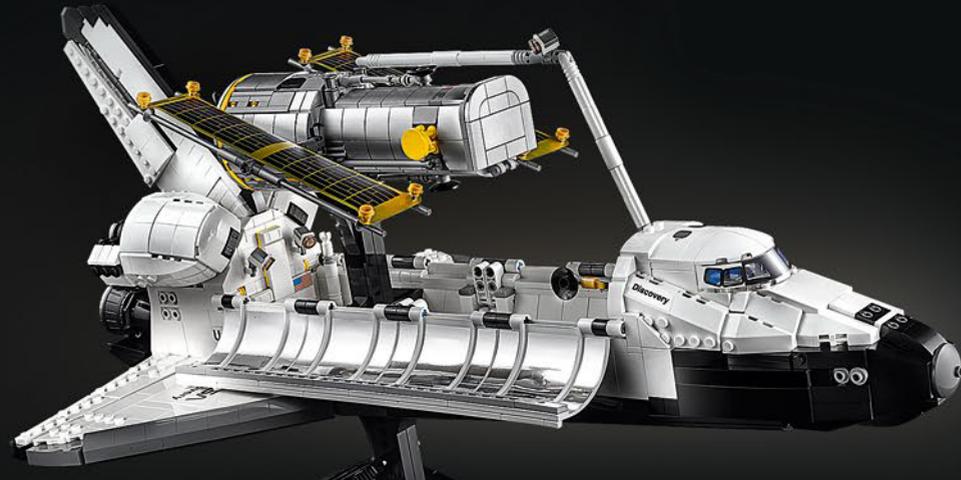
NASA
Space Shuttle Discovery STS-31

Weight	28,460 lb
Length	115 ft 5 in
Wingspan	145 ft 5 in
Height	73 ft 1 in
Max Speed	28,350 mph
Time in Space	1 year, 33 days, 15 minutes, 51 sec (total)



NASA **esa**
Hubble Space Telescope

Weight	10,880 lb
Length	132 ft 9 in
Wingspan	142 ft 9 in
Height	74 ft 6 in
Max Speed	29,000 mph
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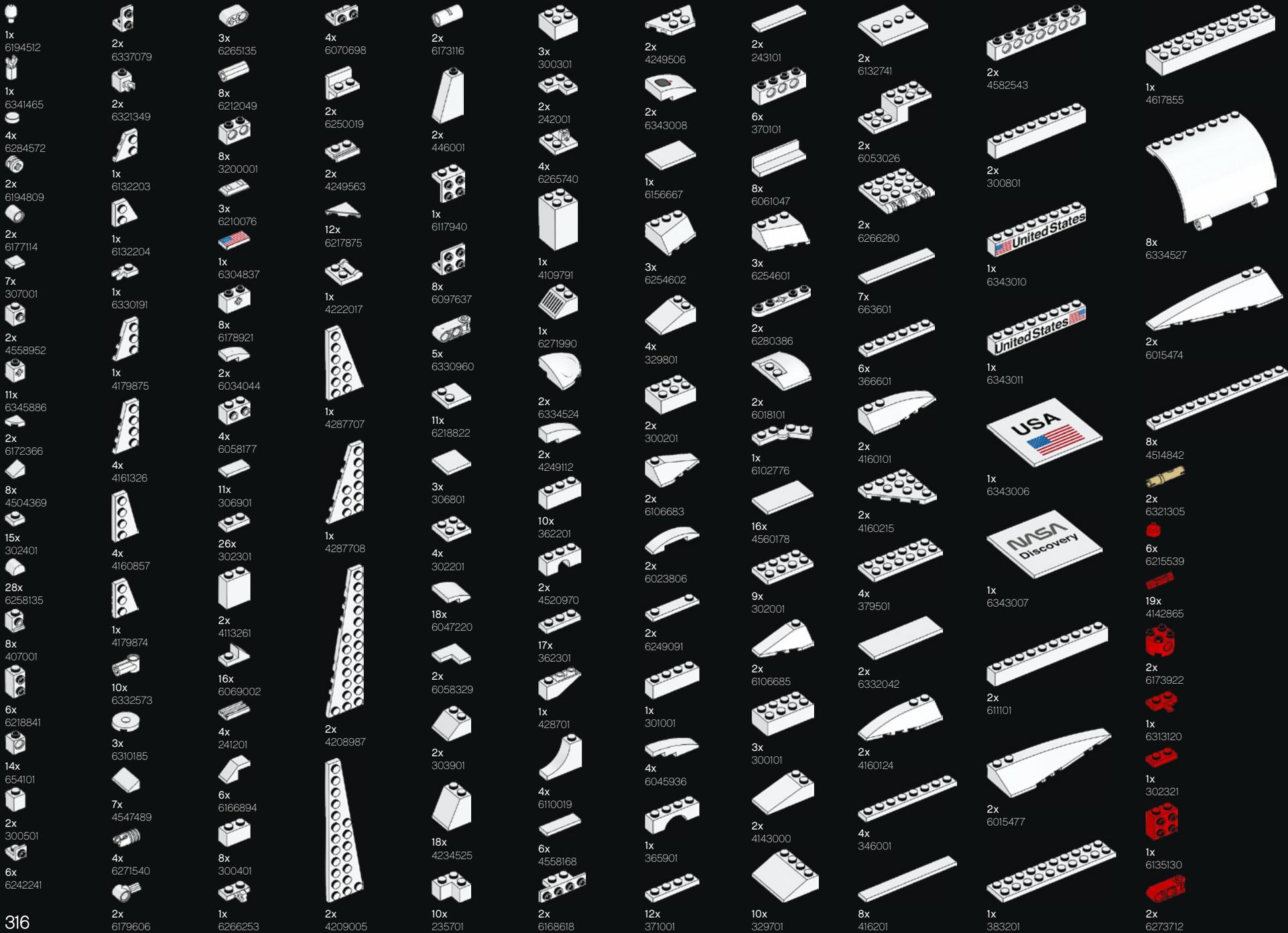
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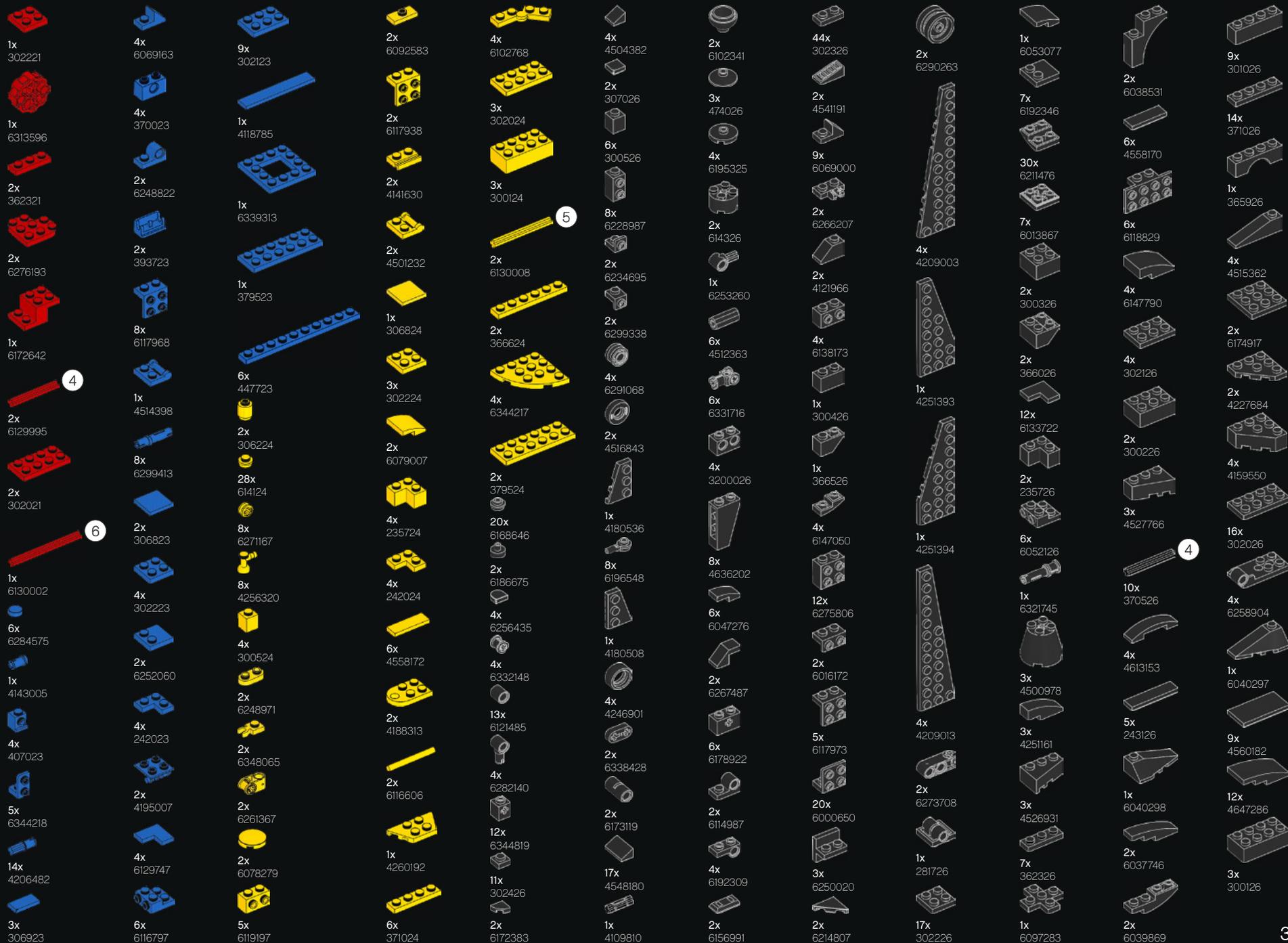
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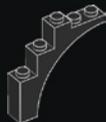
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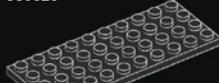
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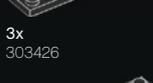
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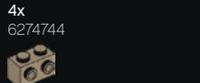
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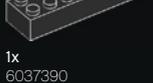
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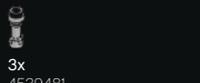
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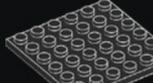
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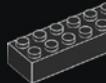
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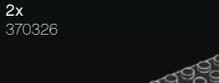
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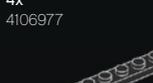
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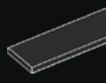
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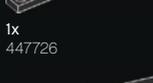
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6267112



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4211356



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13x
6308012



5x
4211807



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1x
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2x
4212363



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2x
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1x
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4211476



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6186657



4x
4211397



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6343004



16x
4211398



1x
6045988



3x
6257593



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4211452



8x
6286223



2x
4211469



8x
4211815



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4211636



5x
6318584



1x
6163477



2x
4211470



2x
6043639



2x
4645412



2x
451492



1x
6163478



2x
4211541



25x
4654577



1x
4211395



2x
451492



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