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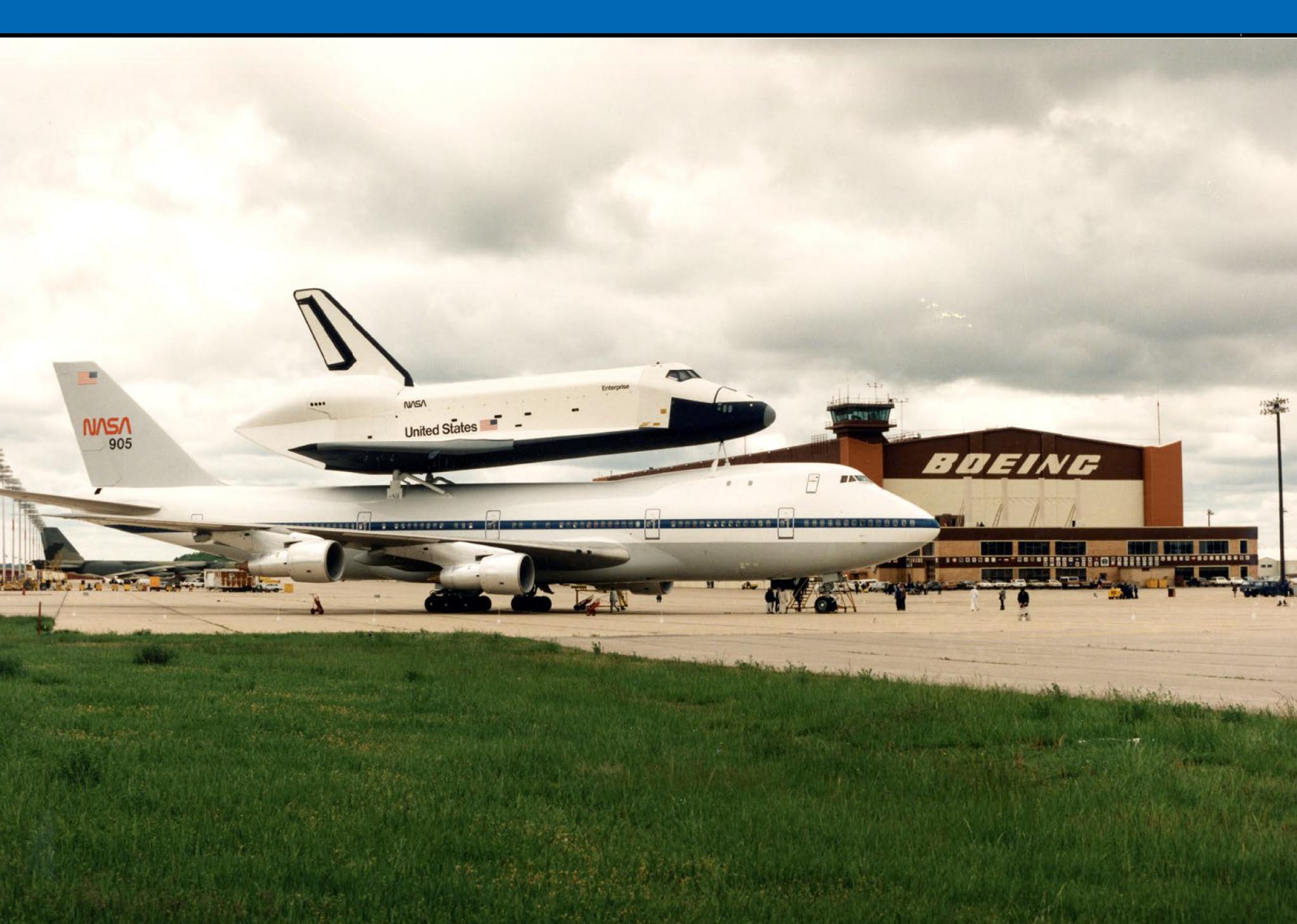


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史无前例的举措

在 20 世纪 70 年代和 80 年代间，NASA 联手波音发明了一项用于运输 NASA 轨道飞行器的创新技术，通常称为航天飞机。航空运输工具的设想源于一个实实在在的挑战：地面运输既耗时又耗力。

来自 NASA 和波音公司的团队合作，探索最初为商业用途而设计的波音™ 747™ 系列是否有可能重新设计以用作航天飞机运载机 (SCA)。

在 1974 年至 1990 年间，两架波音 747 模型成功改装，实现在着陆点和发射场之间运送现役航天飞机。主要往返于佛罗里达州的 NASA 肯尼迪航天中心。

第一架波音 747 SCA 于 1974 年由 NASA 从一家商业航空公司收购。最初用于尾涡研究，后来改装为航天飞机运载配置。它在 1977 年航天飞机与轨道器原型企业号的进场和

着陆测试中发挥了关键作用。这架飞机执行了大部分穿梭渡轮任务，并将退役的穿梭机运送到博物馆。它于 2012 年退役，现在是 NASA 休斯顿太空中心展览的一部分。

第二架波音 747 SCA 于 1990 年至 2012 年服役，自首次建造以来累计飞行时间超过 33000 个小时。它现在在加利福尼亚的一家航空航天文物博物馆展出。

为首次发布做好准备

这两个 SCA 均具有独特的改装。大部分内部陈设已被拆除，以减轻重量，并为承载班机所需的功能腾出空间。



垂直稳定器:

在标准水平稳定器的每一端都安装了两个额外的垂直稳定器,以提高飞行时的稳定性。

电源补充:

增加了电源和电缆,主要用于在渡轮运行期间为轨道飞行器的流体系统加热器和水冷却剂回路泵供电。



尾锥:

航天飞机上使用了特殊的尾锥发动机盖,以改善运输过程中的空气动力学。



飞行器安装支柱:

增加了三个安装支柱——一个向前,两个向后——以将航天飞机轨道飞行器固定在飞机上。

发动机改进:

改装普拉特·惠特尼 JT9D 发动机以提供更多动力。



乐高® Icons 设计团队寄语

1983年，第一架波音™ 747™ SCA 和 NASA 轨道飞行器企业号一起出现在法国巴黎航展上，这是他们唯一一次参加国际巡演。在 NASA 和波音合作伙伴的帮助下，我们开发了新的拼搭解决方案和组件，以捕捉这个独特展览的特定设计细节和功能。希望您能喜欢拼搭这个航空工程奇迹，就像我们喜欢创造它一样。

驾驶舱:

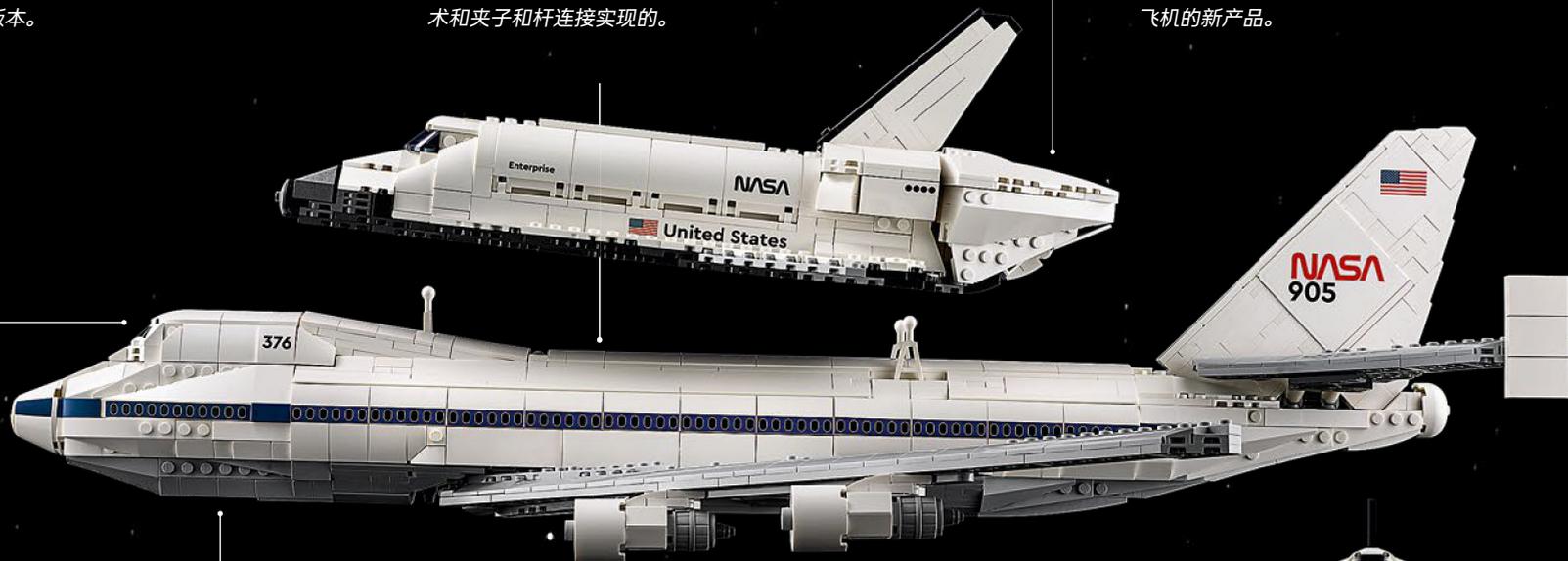
弯曲的驾驶舱和独特的机头模仿了现实生活中的版本。

机身:

波音 747 光滑的“管”形是通过创新的拼搭技术和夹子和杆连接实现的。

尾锥:

用于覆盖 NASA 企业号发动机的尾锥，是乐高® 航天飞机的新产品。



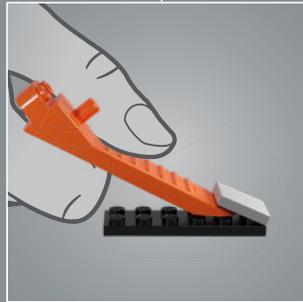
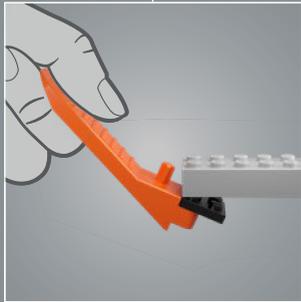
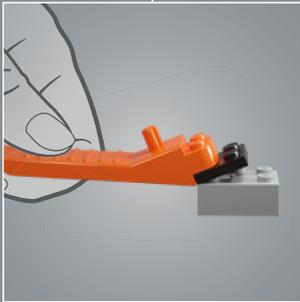
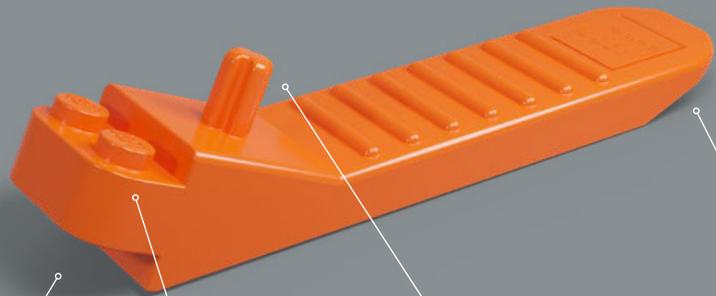
起落架

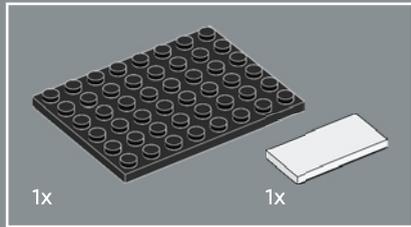
这是第一个带有五个起落架的官方乐高® 飞机同步同时移动。一个新的起落架组件可将四个飞机轮固定在“卡车”上。

机翼:

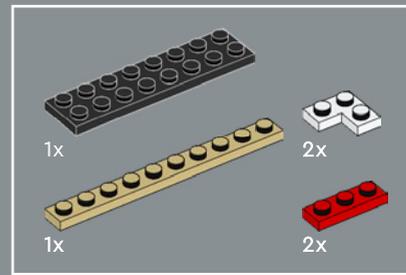
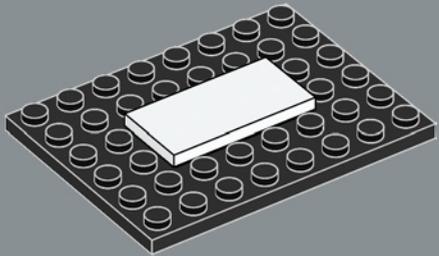
一组三角形结构，一个水平，一个垂直，有助于形成波音™ 747™ 机翼的弯曲前缘及其轻微的直立角度。



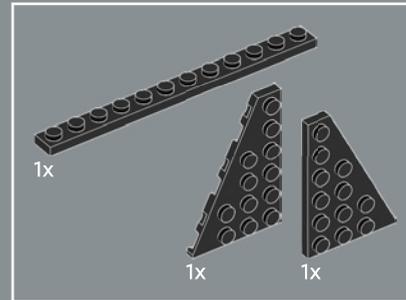
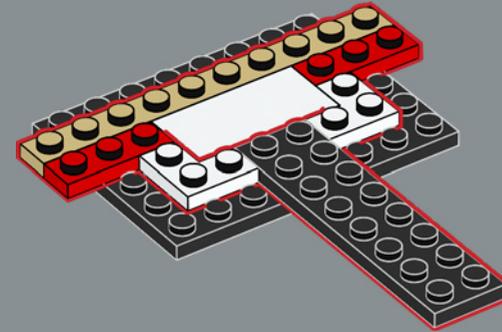




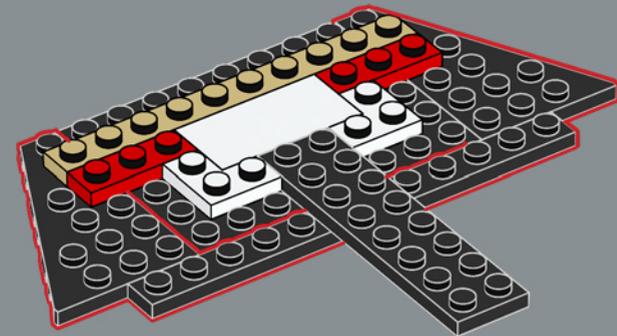
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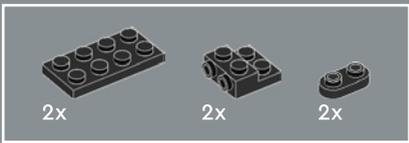


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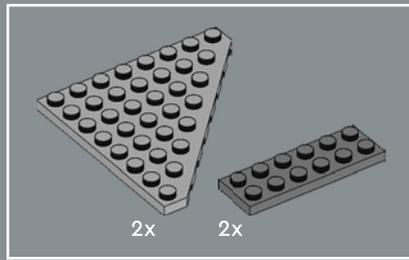
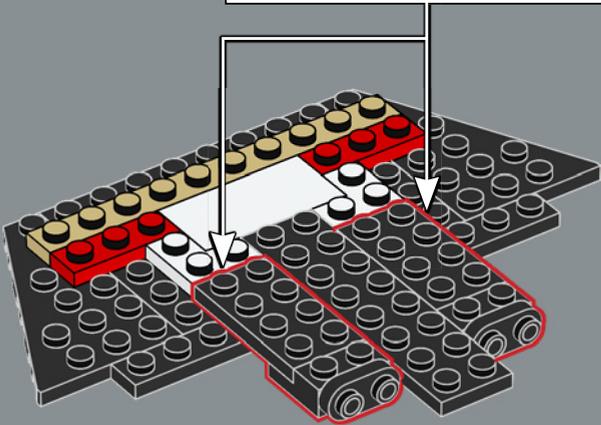
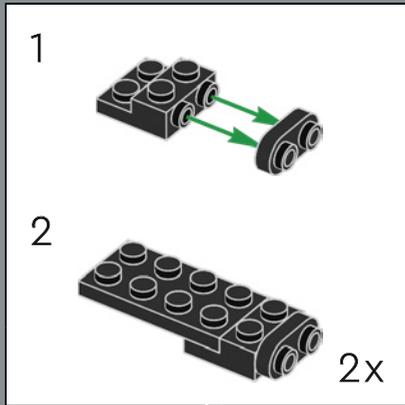


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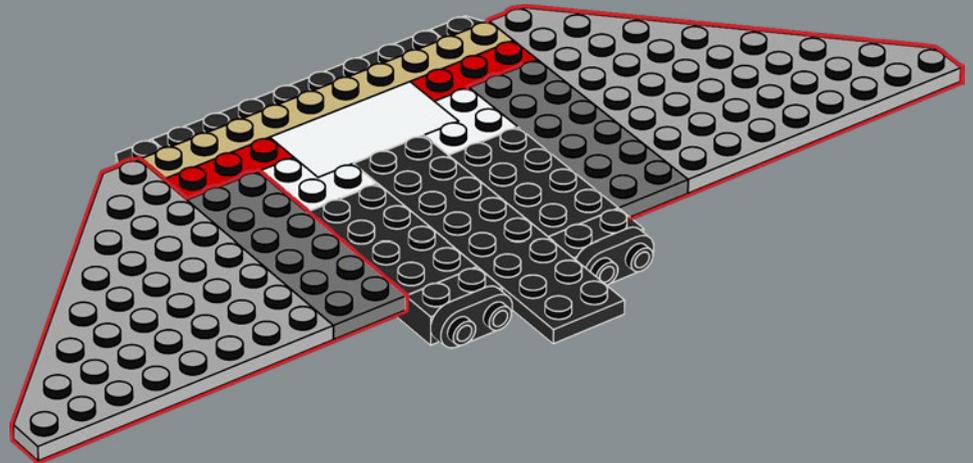


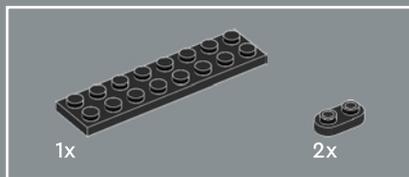


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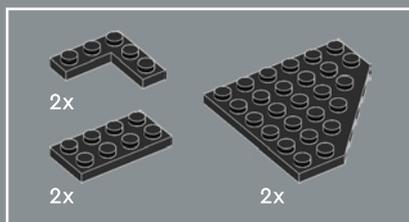
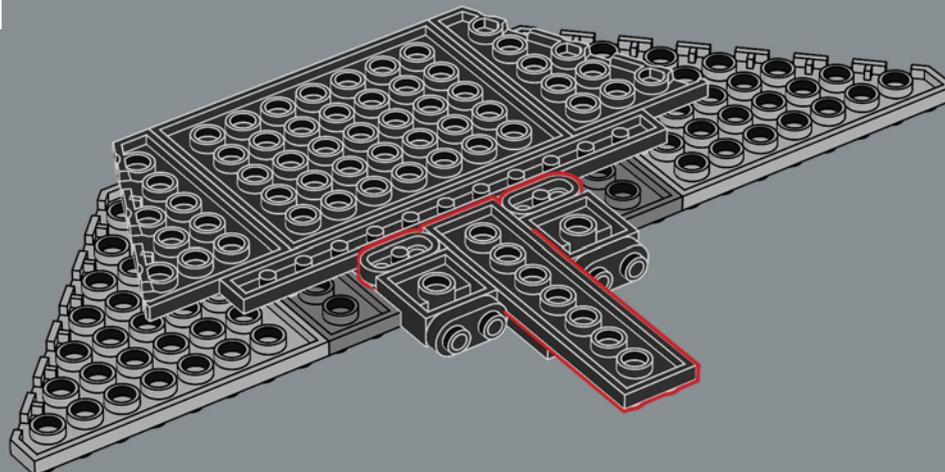
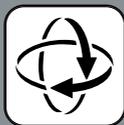


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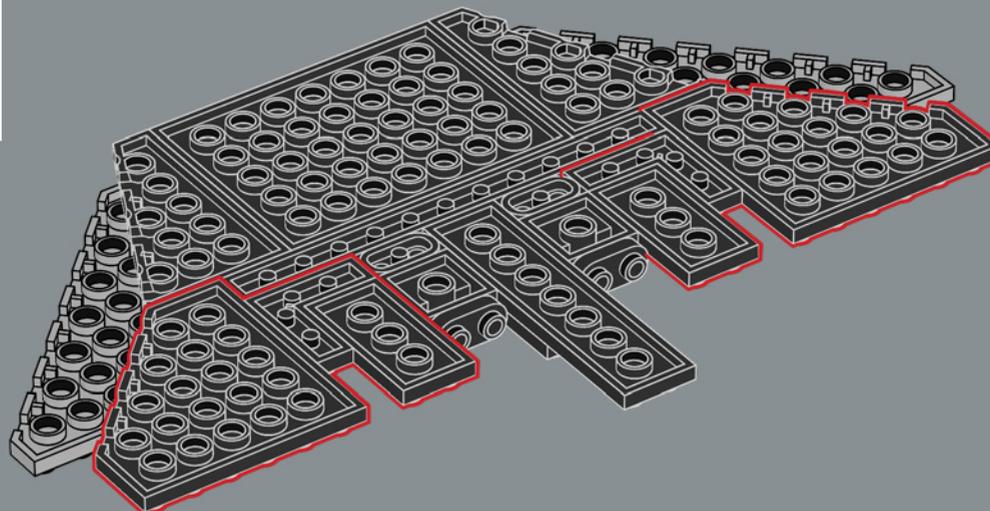


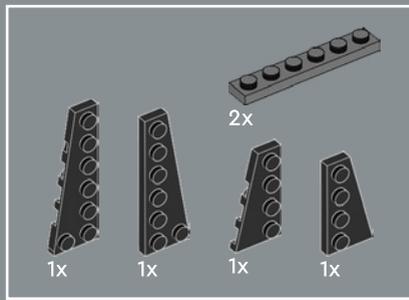


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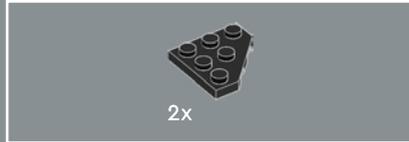
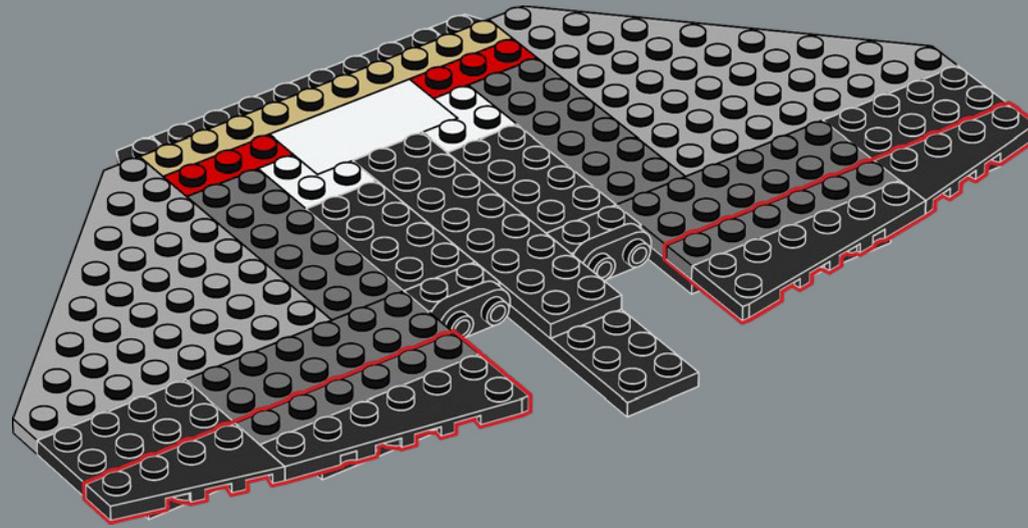


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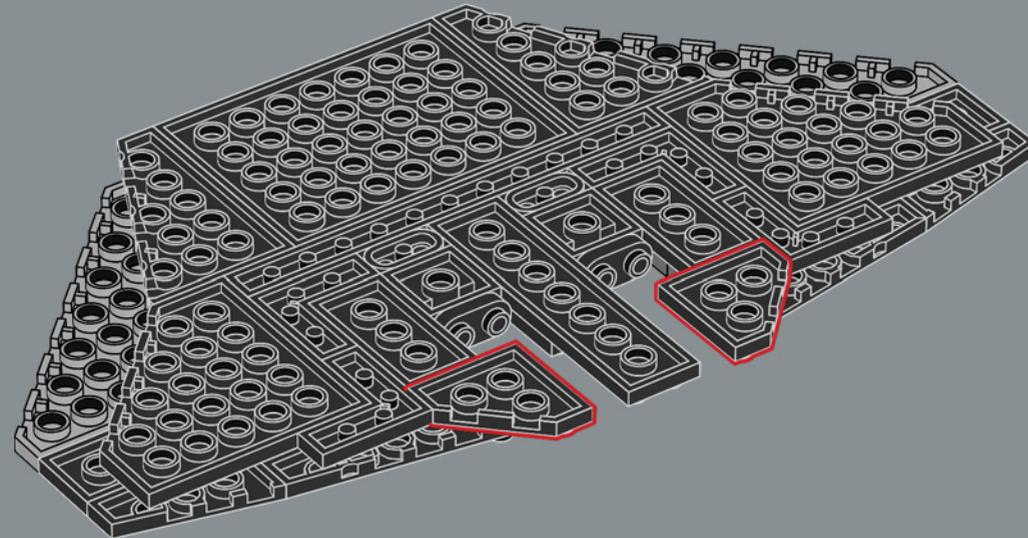




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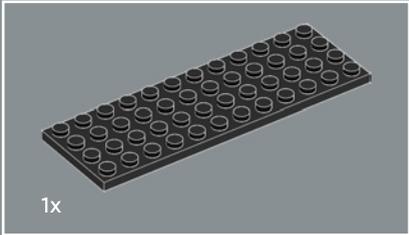
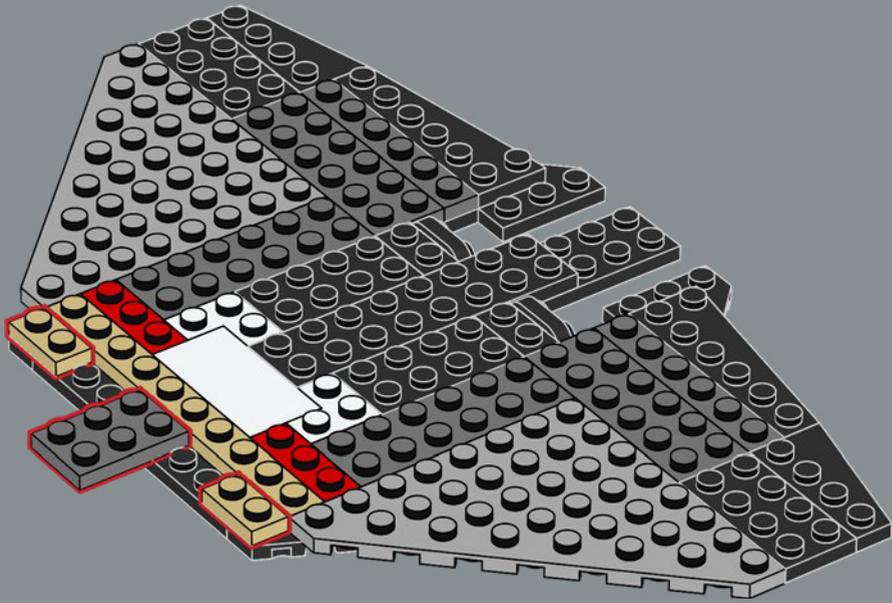


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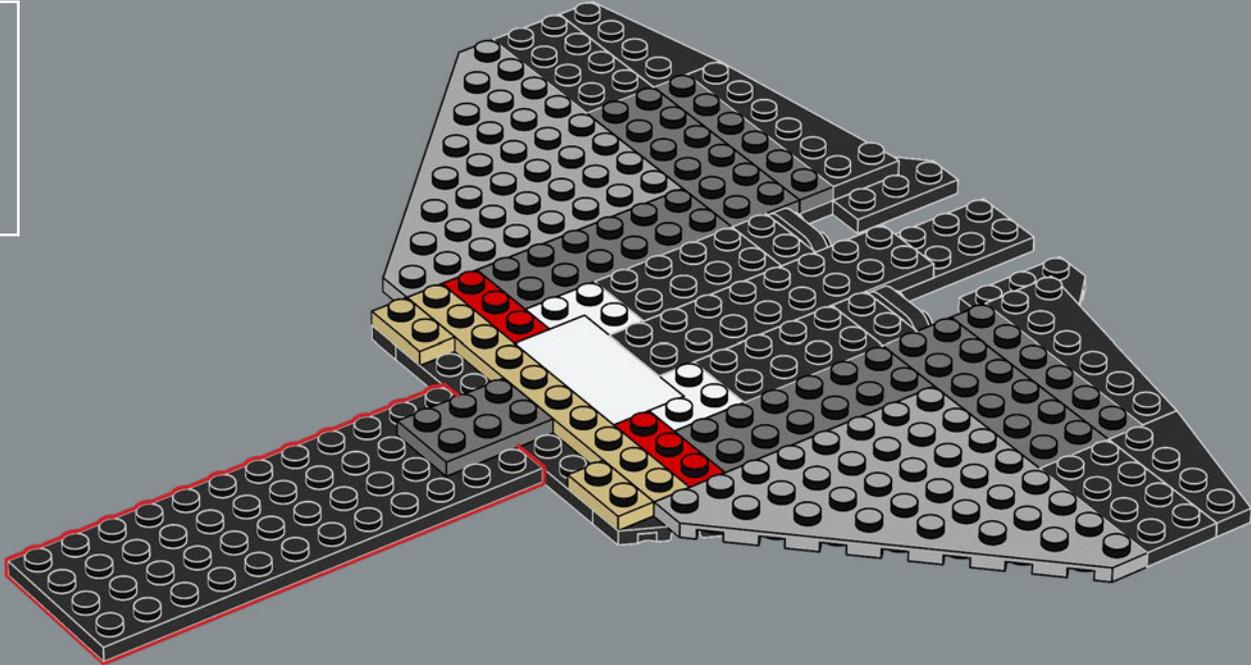


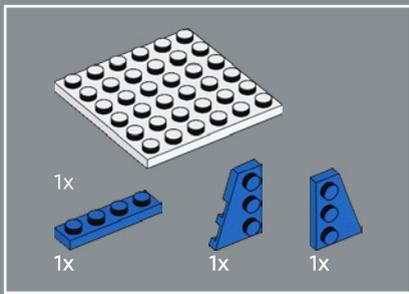


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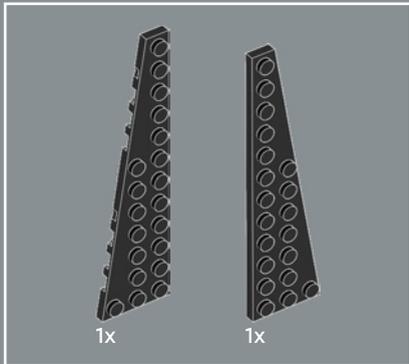
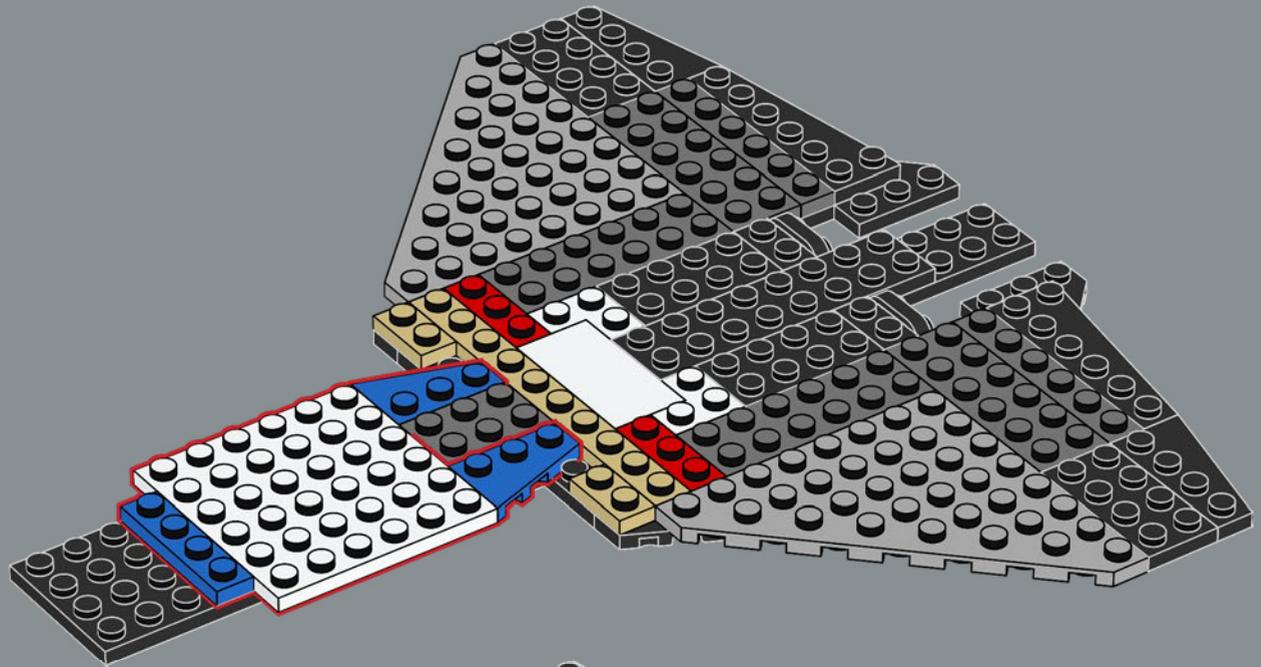


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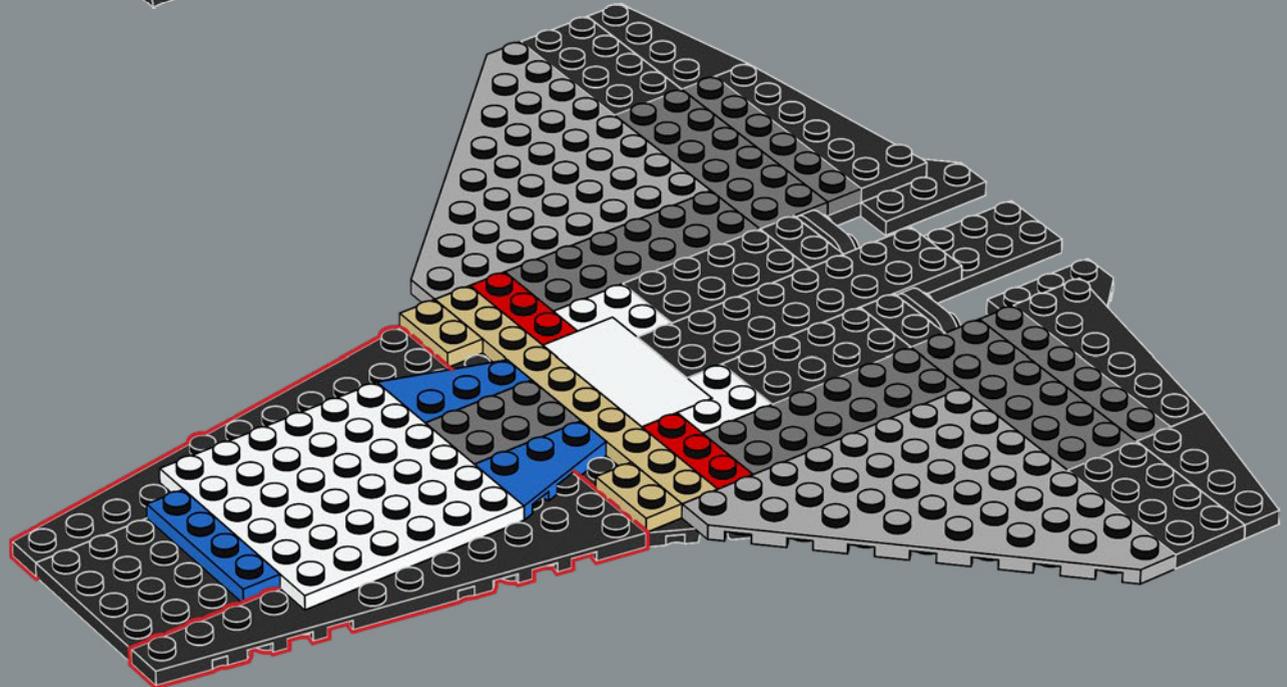


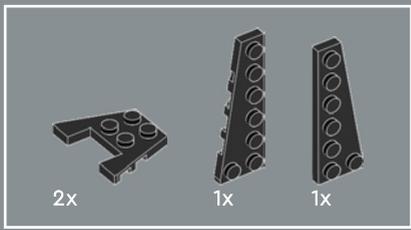


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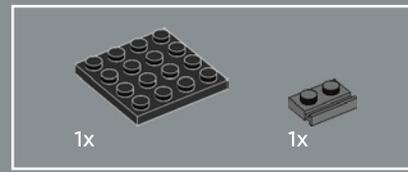
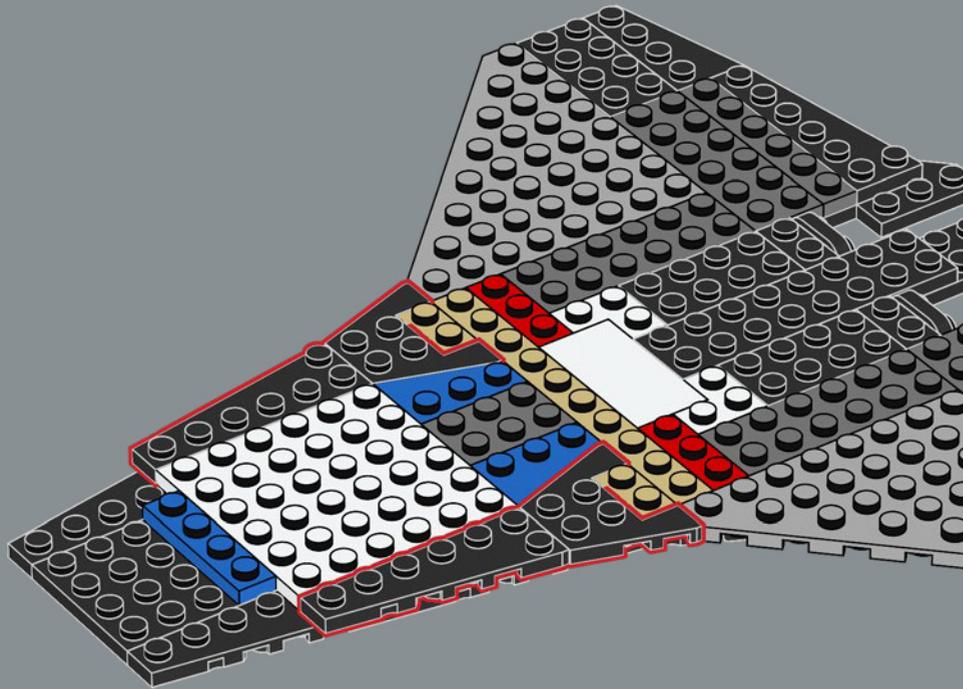


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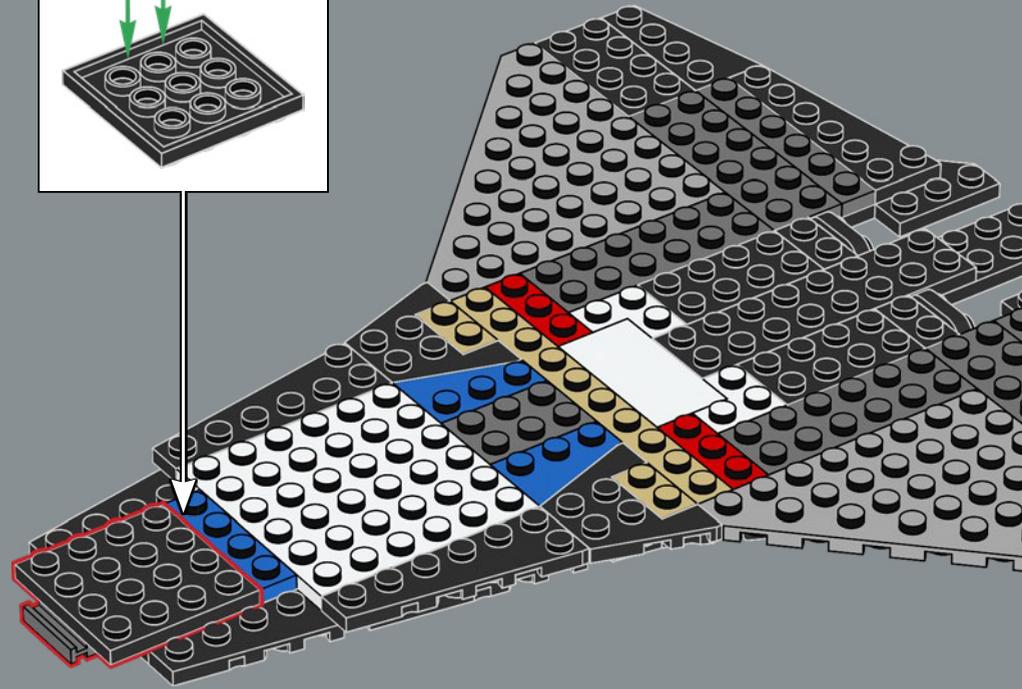
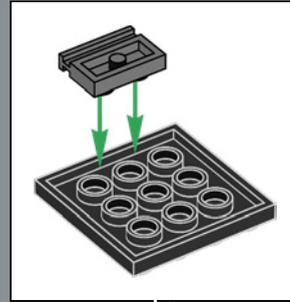


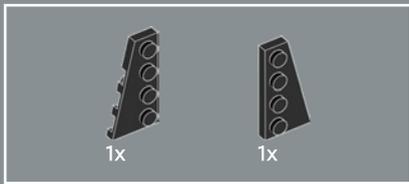


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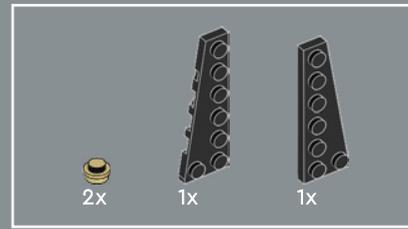
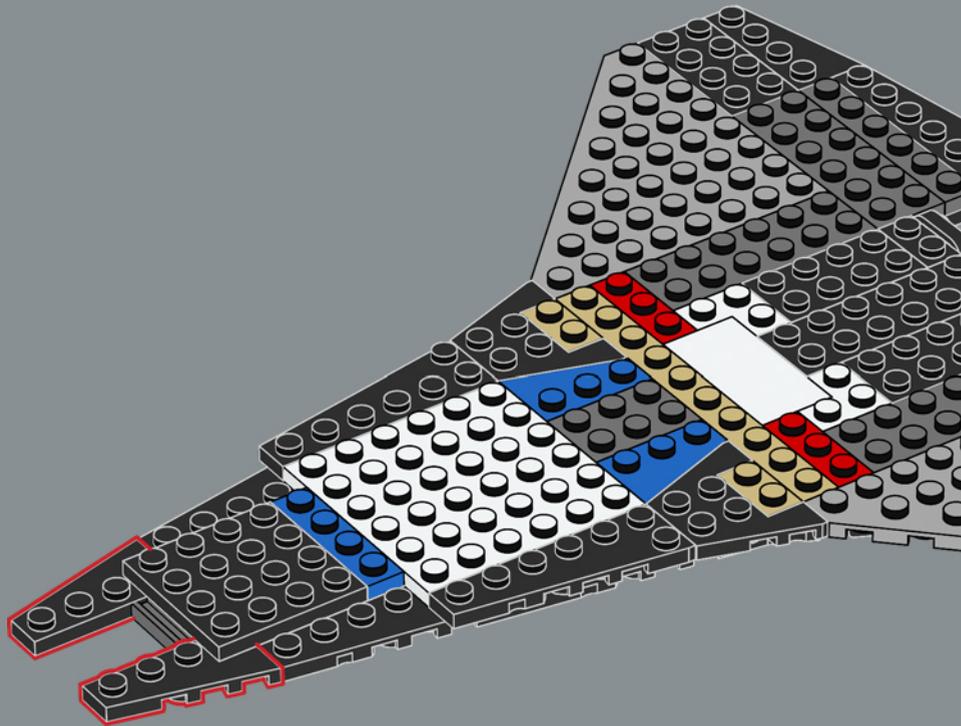


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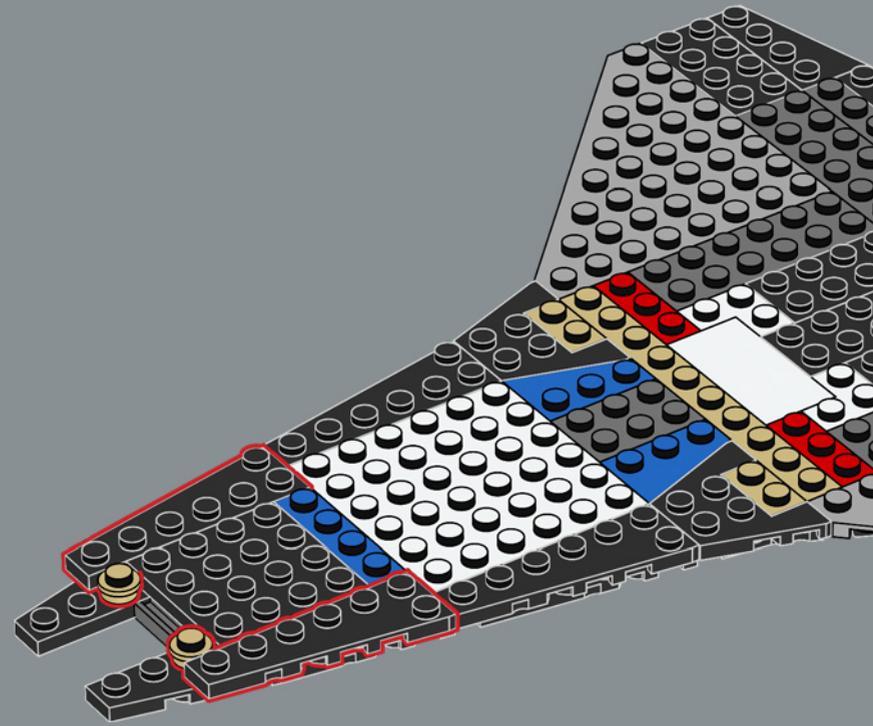


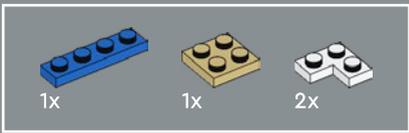


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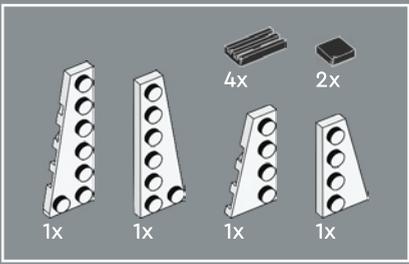
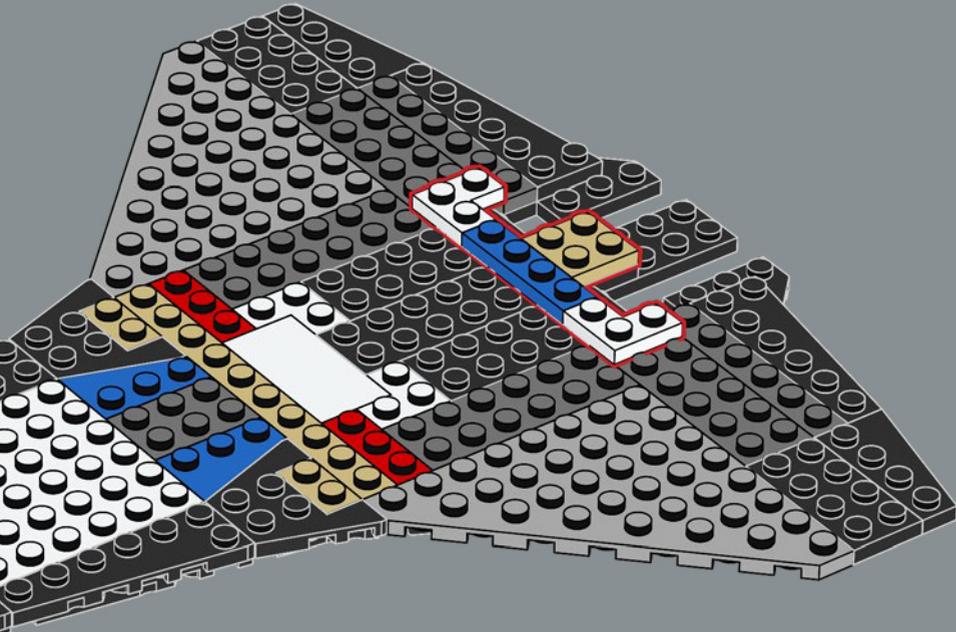


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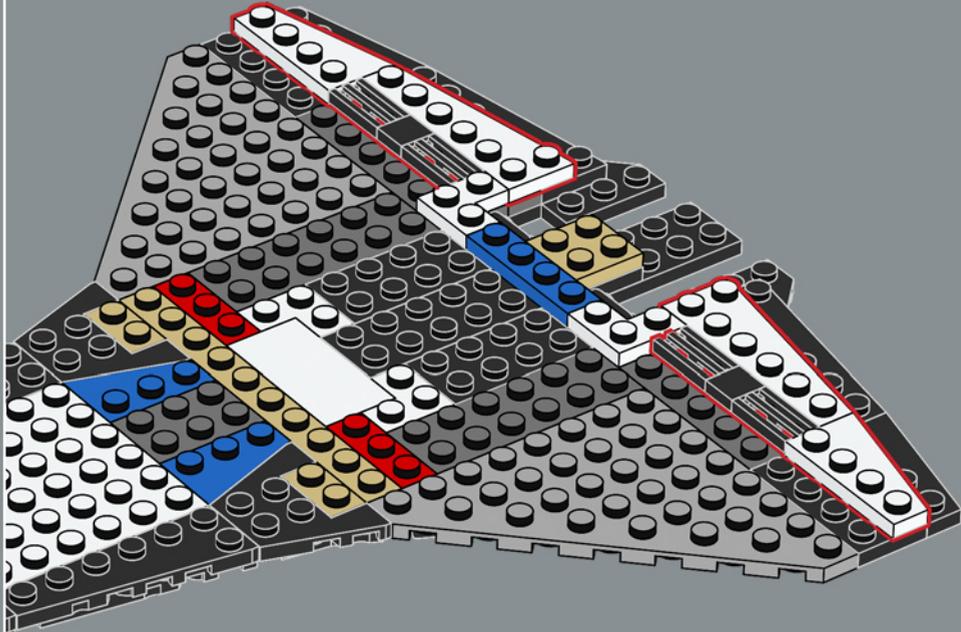


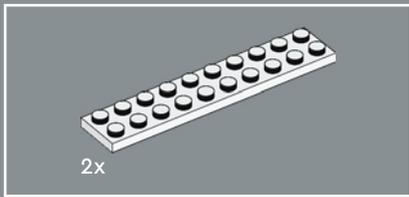


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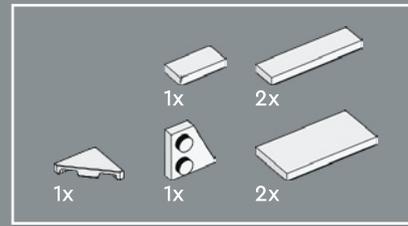
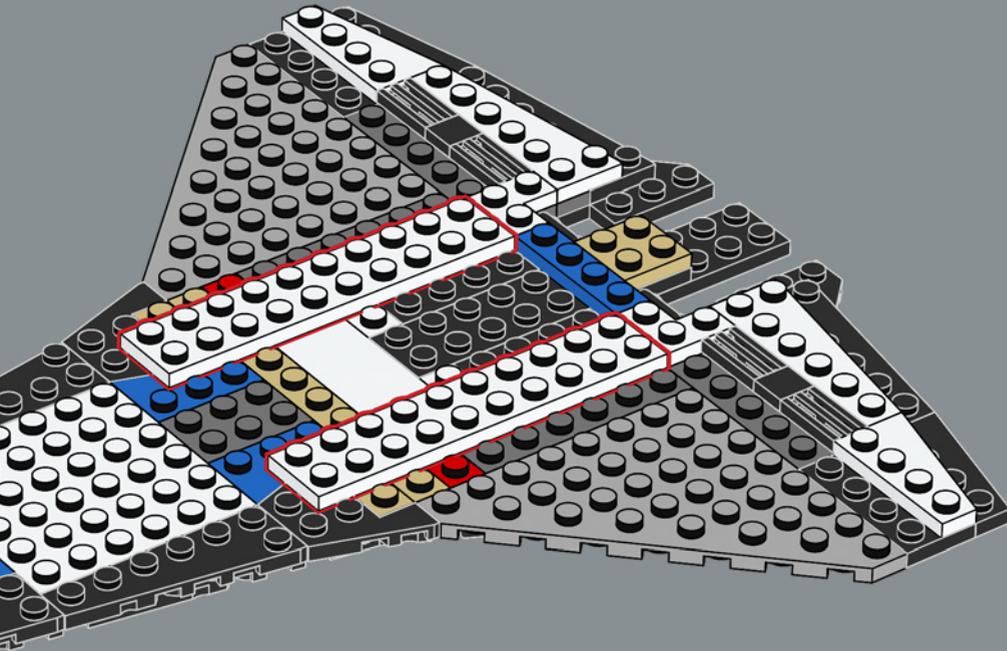


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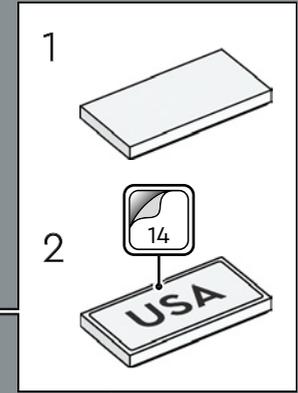
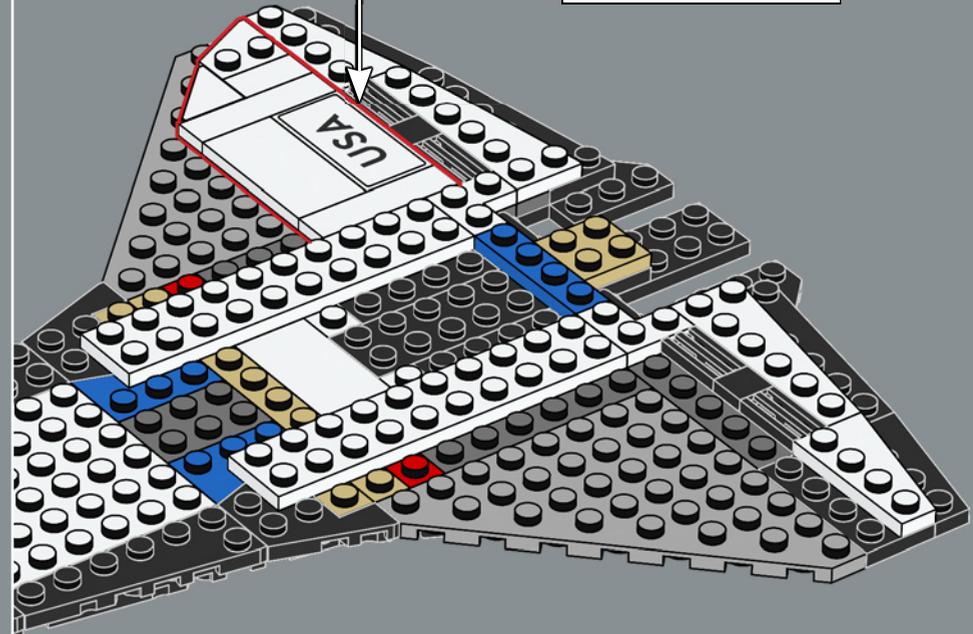


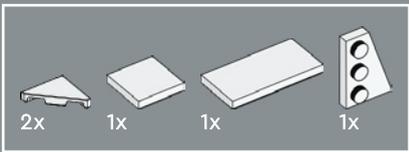


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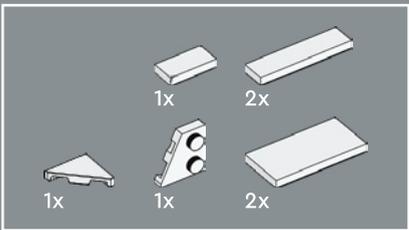
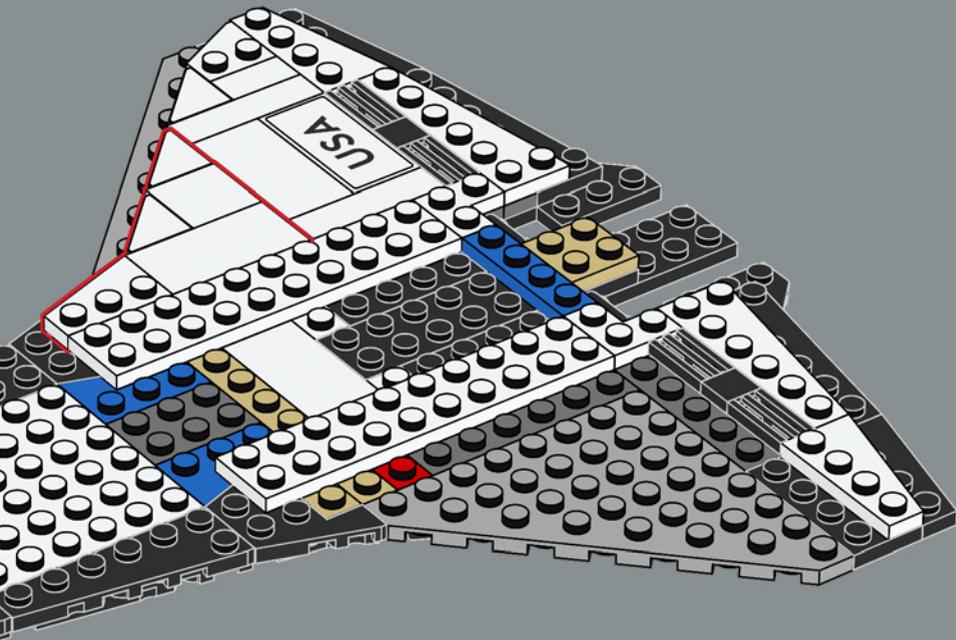


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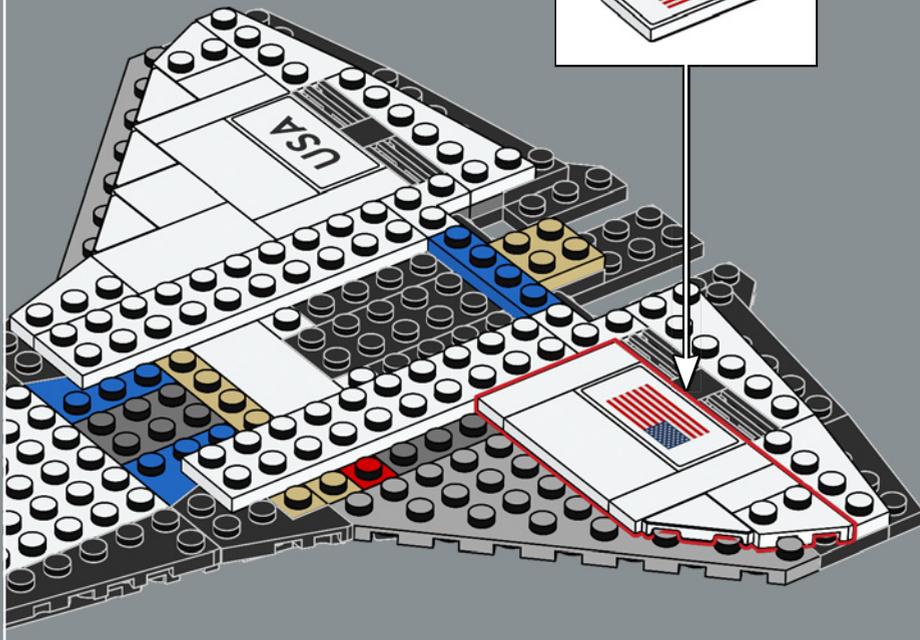
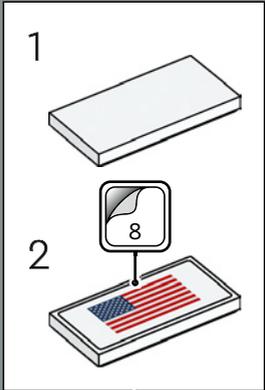


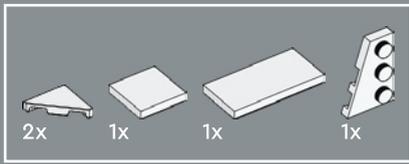


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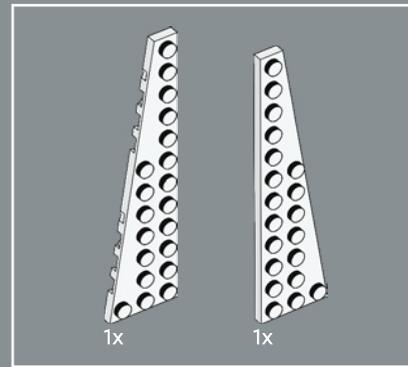
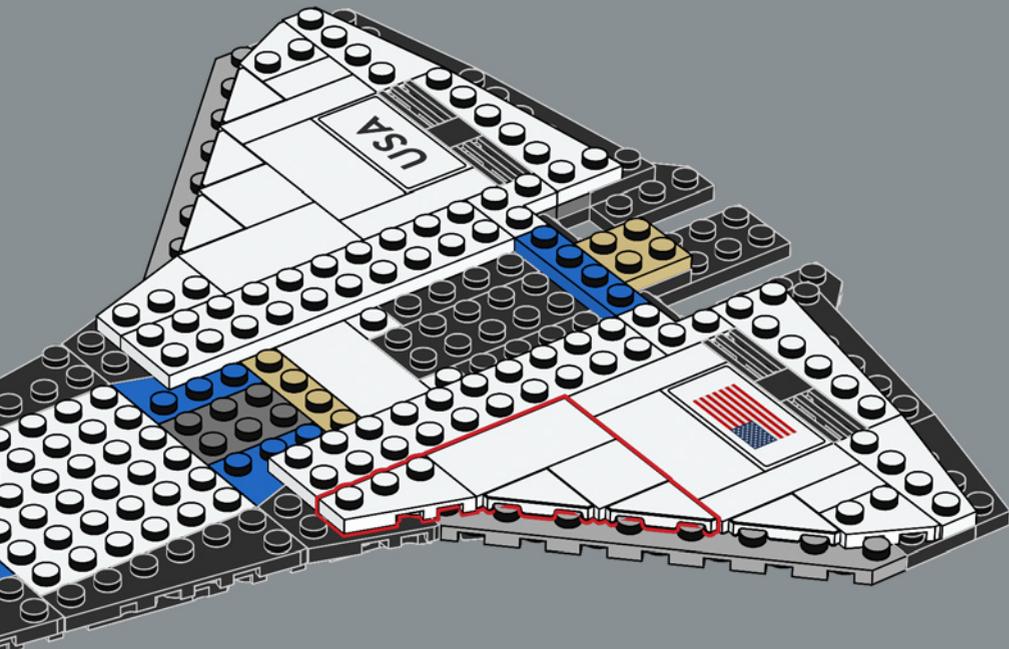


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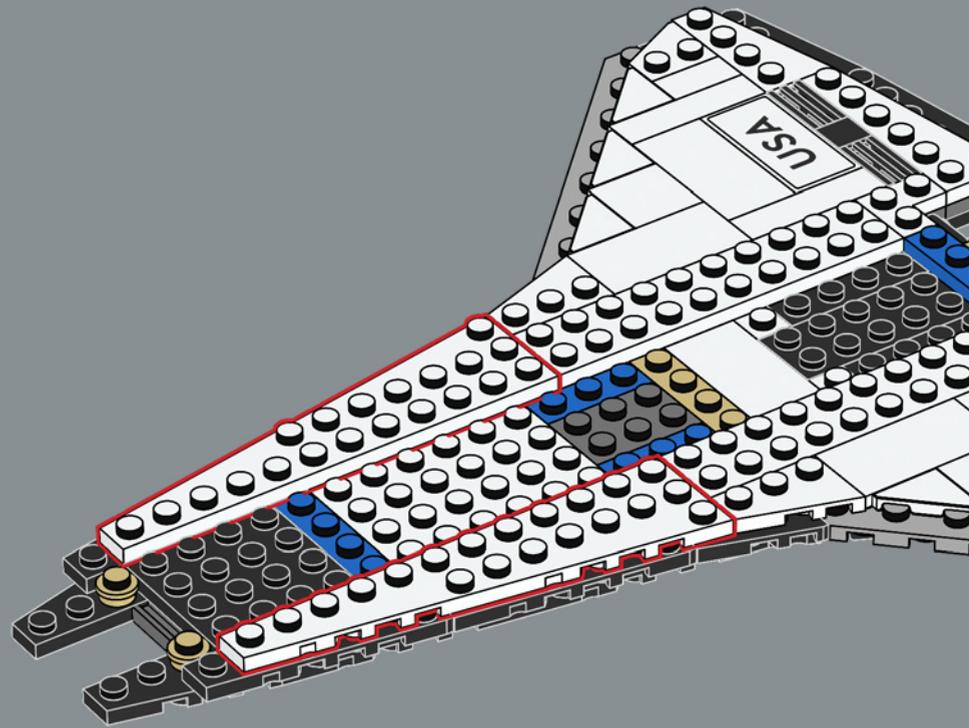


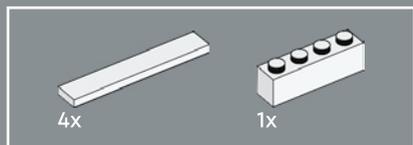


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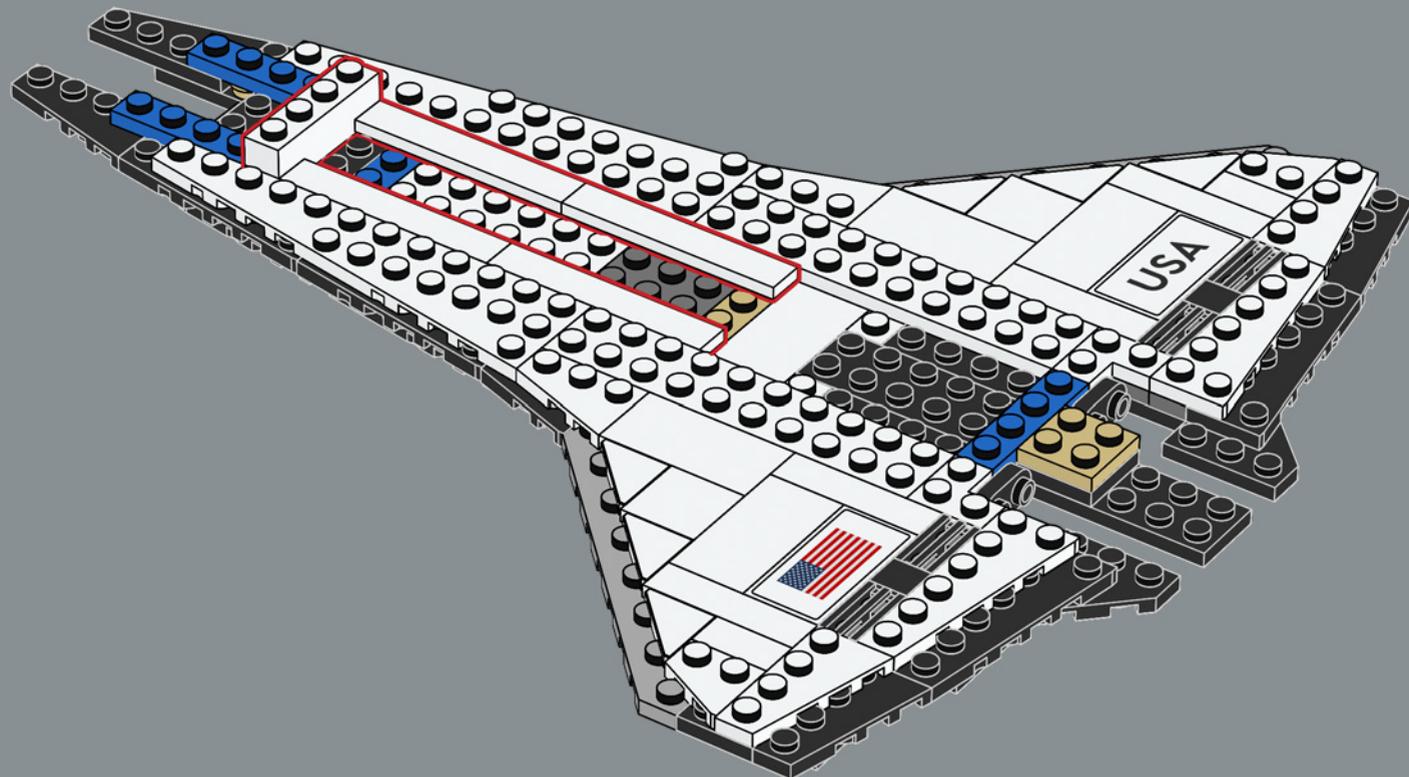


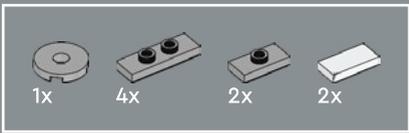
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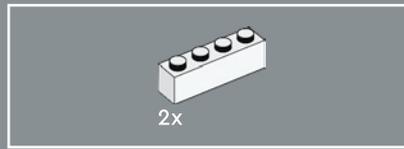
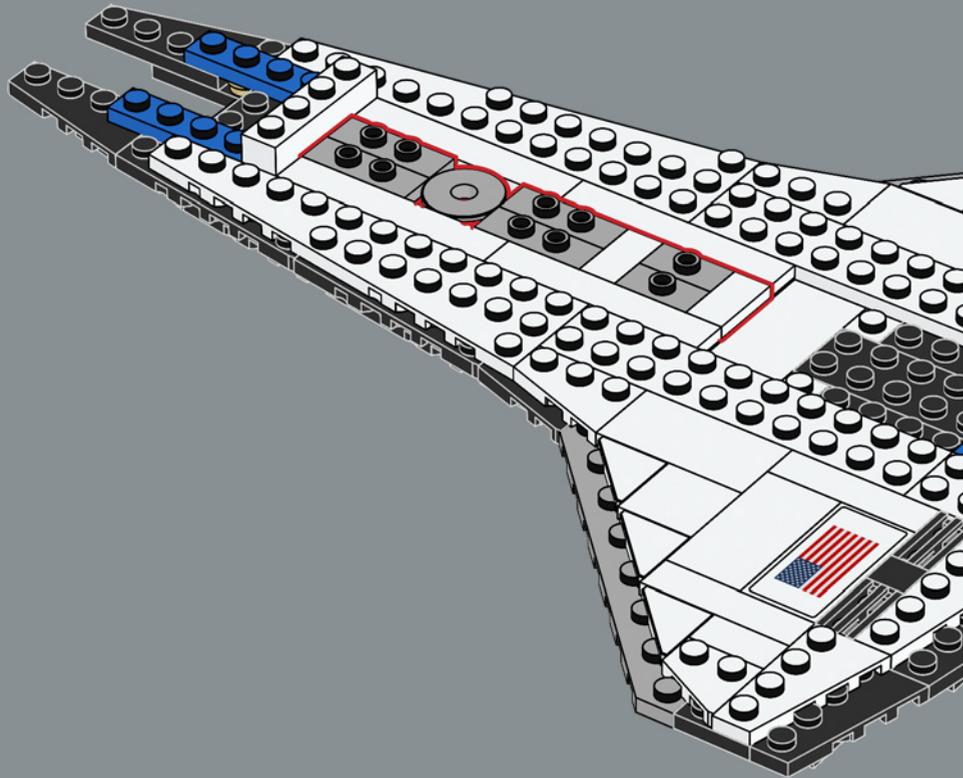


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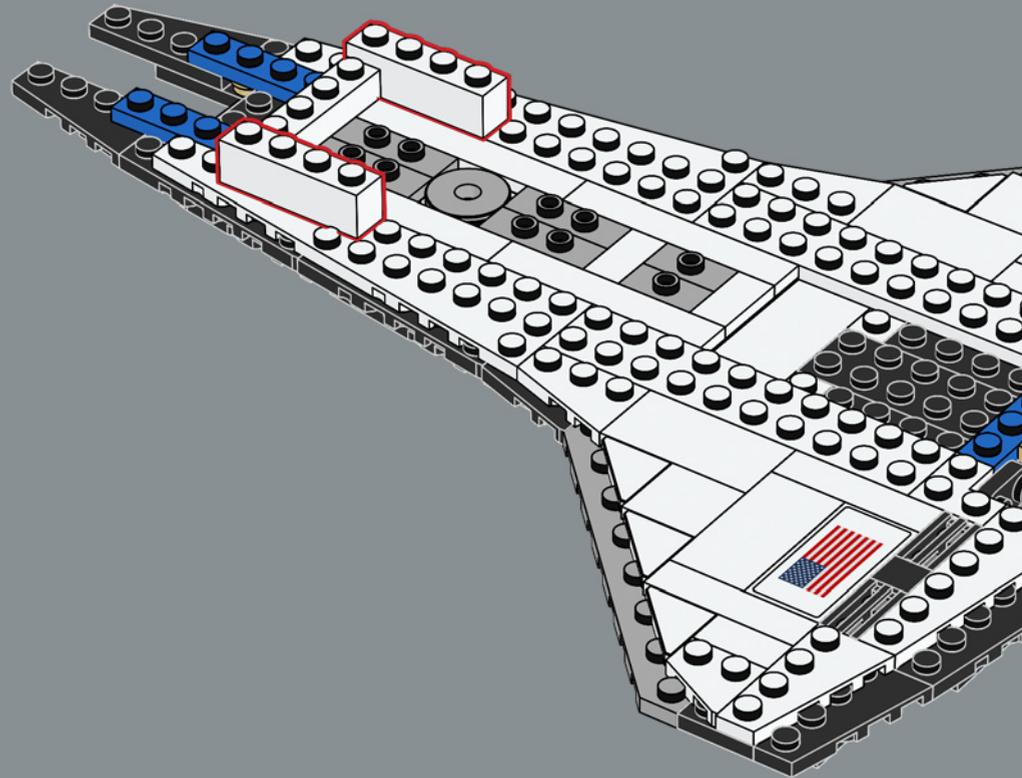


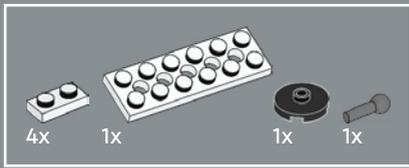


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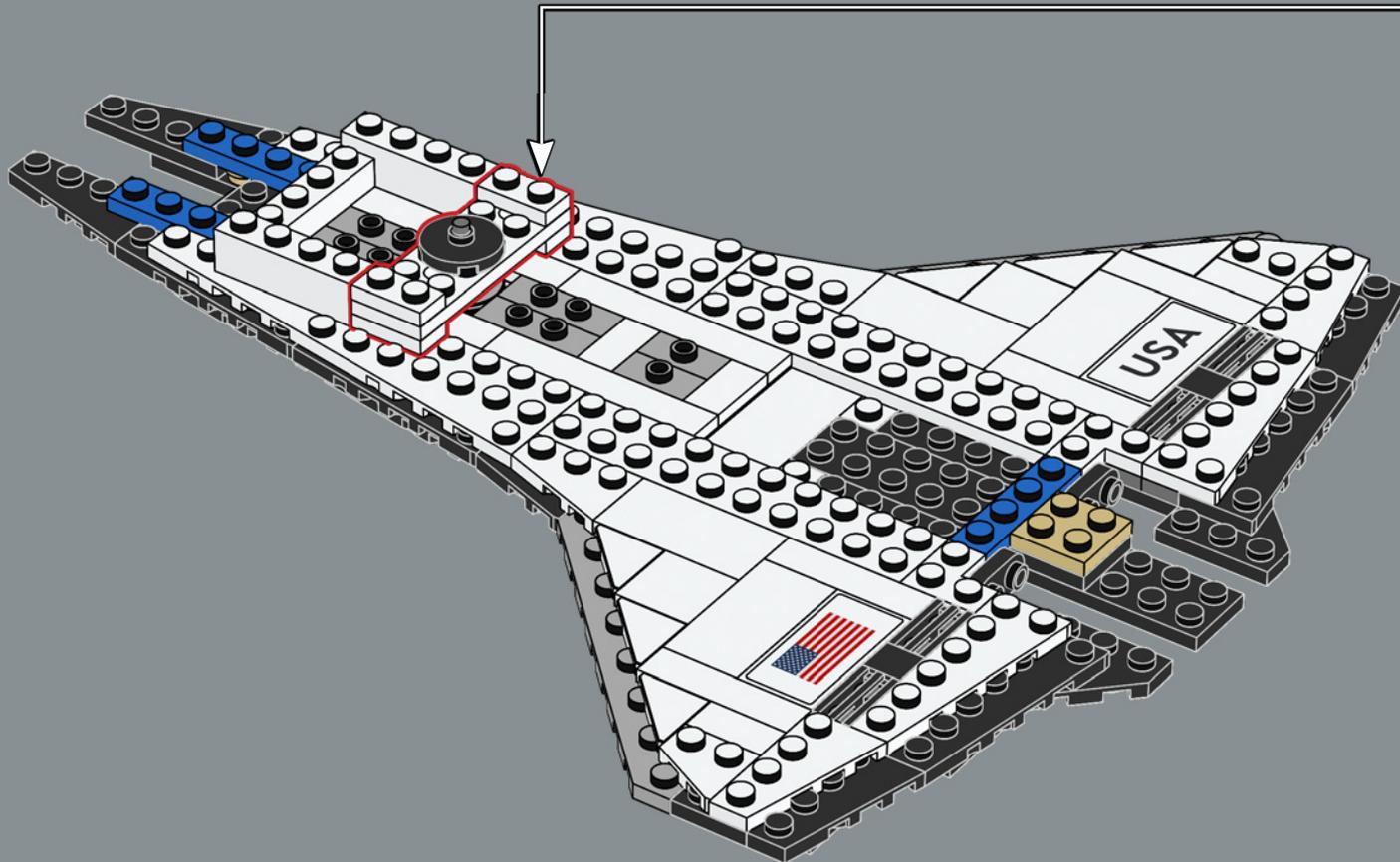
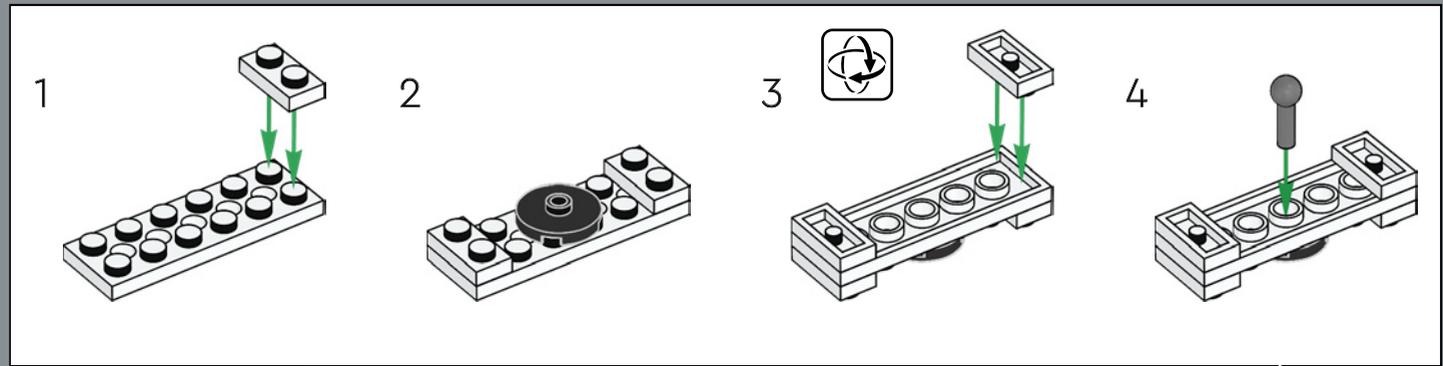


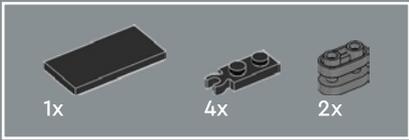
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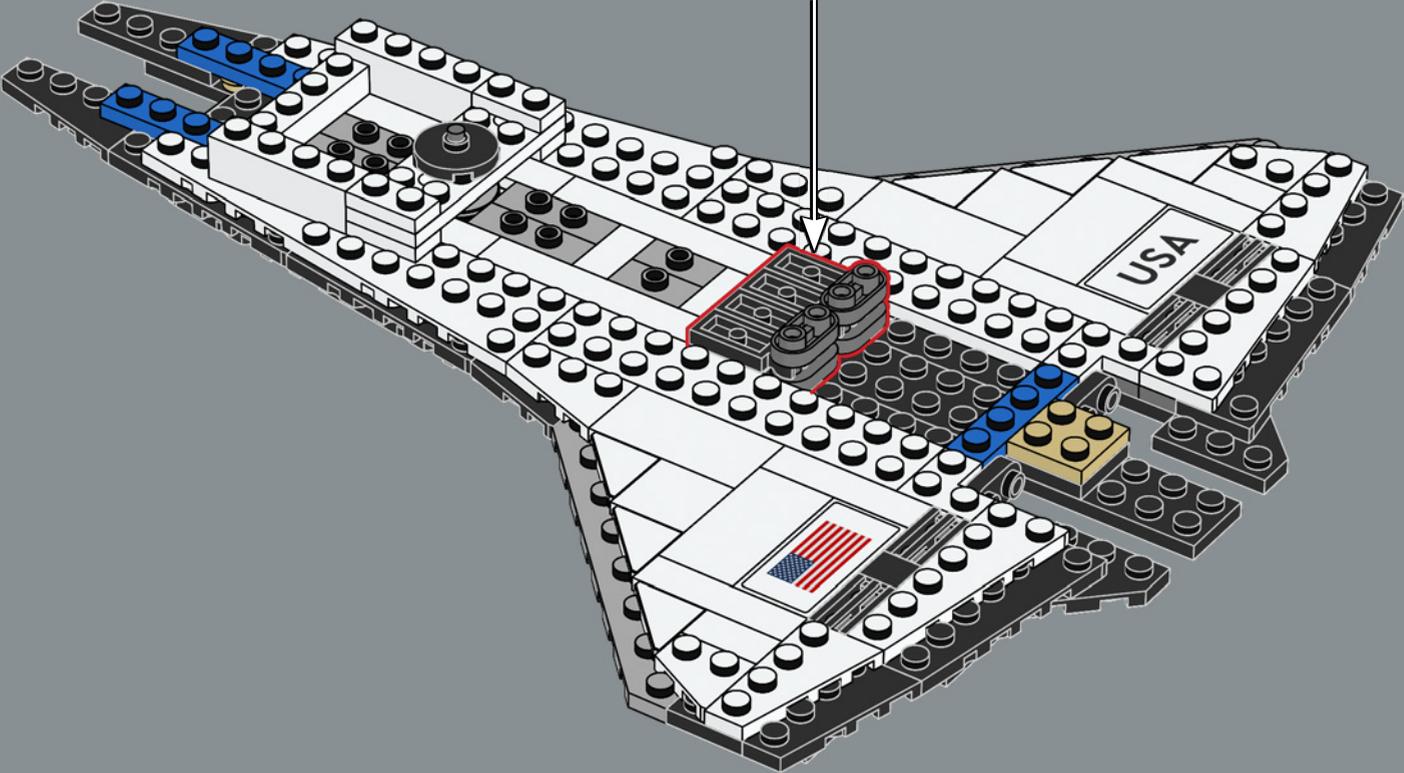
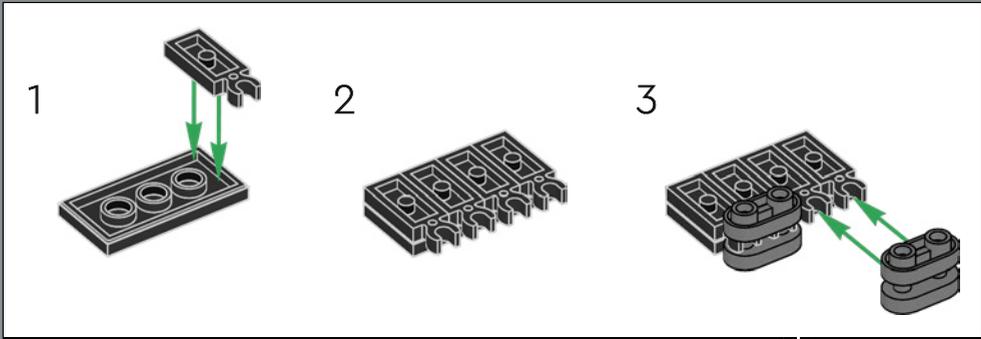


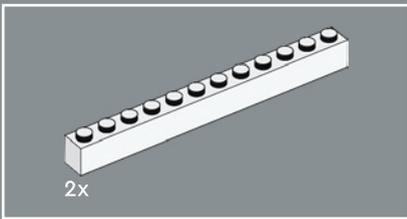
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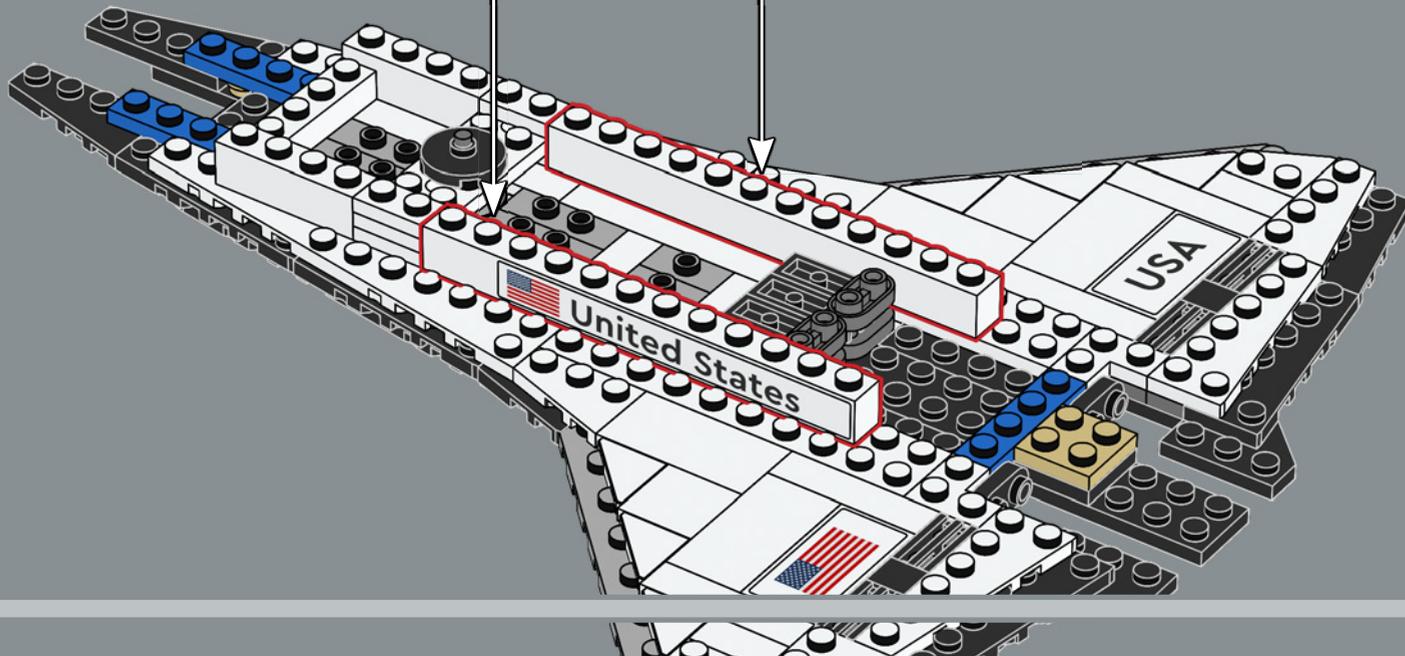
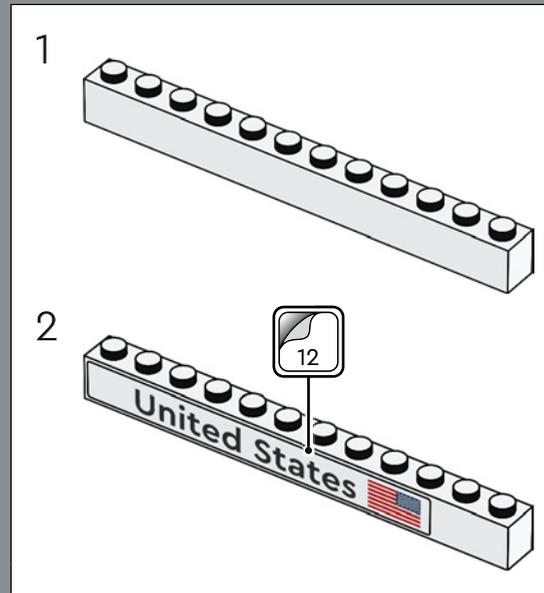
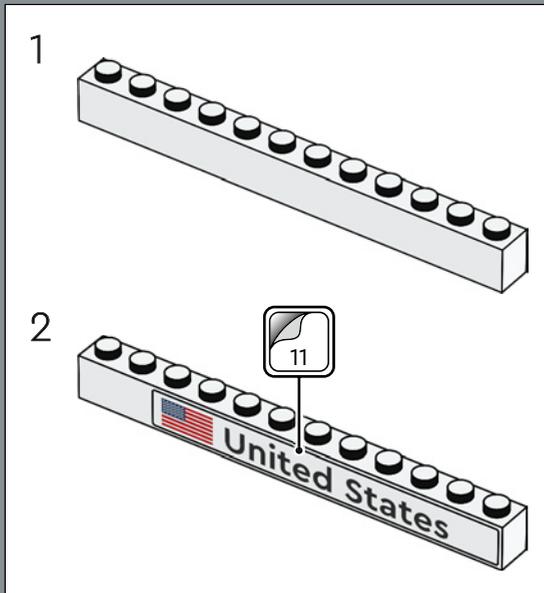


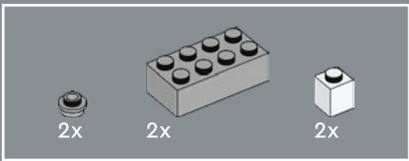
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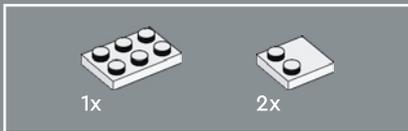
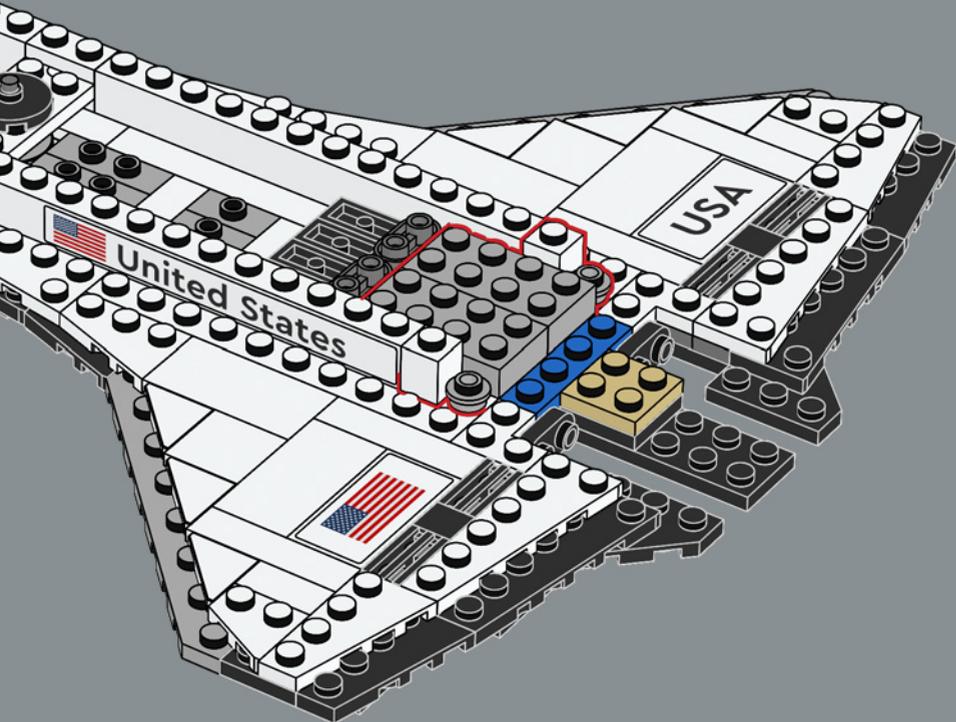


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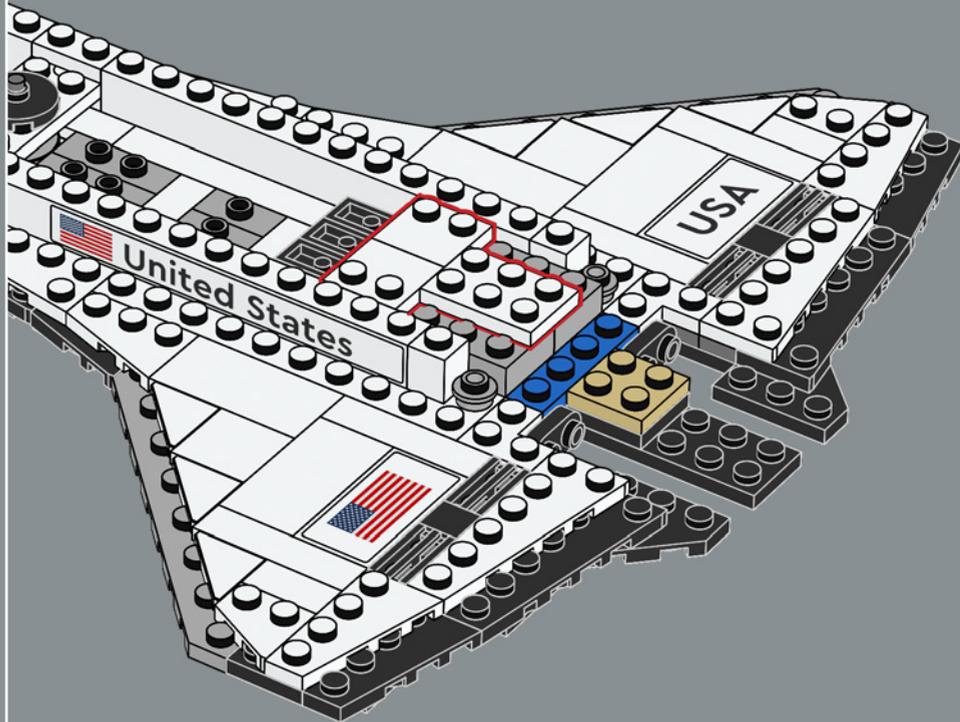




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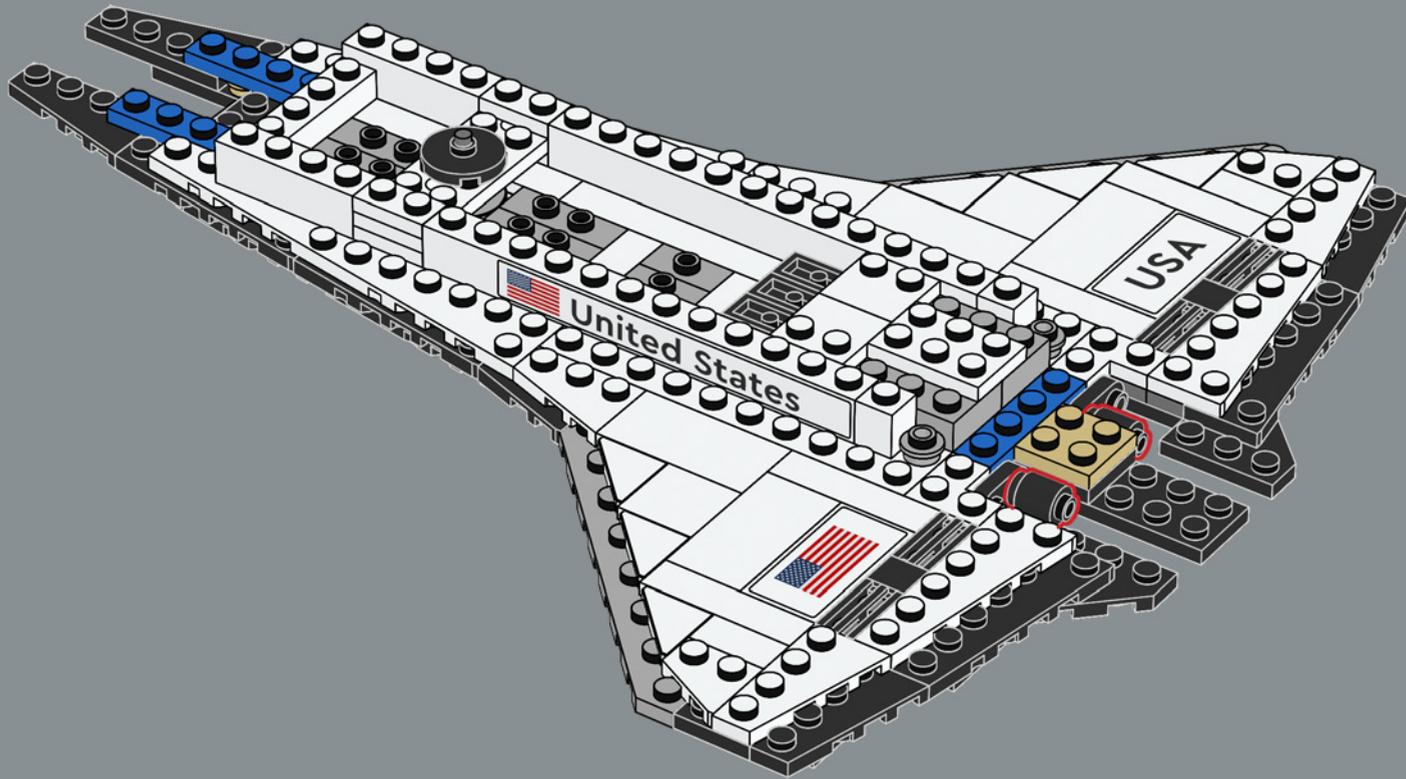
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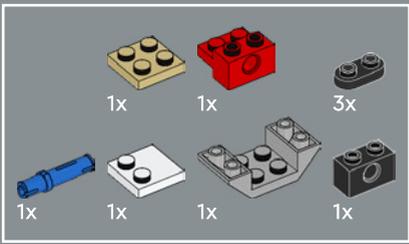




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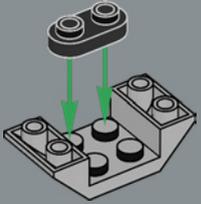
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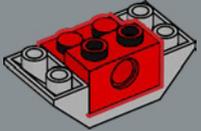


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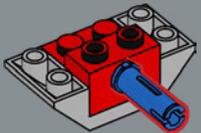
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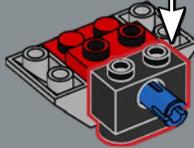
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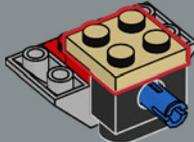
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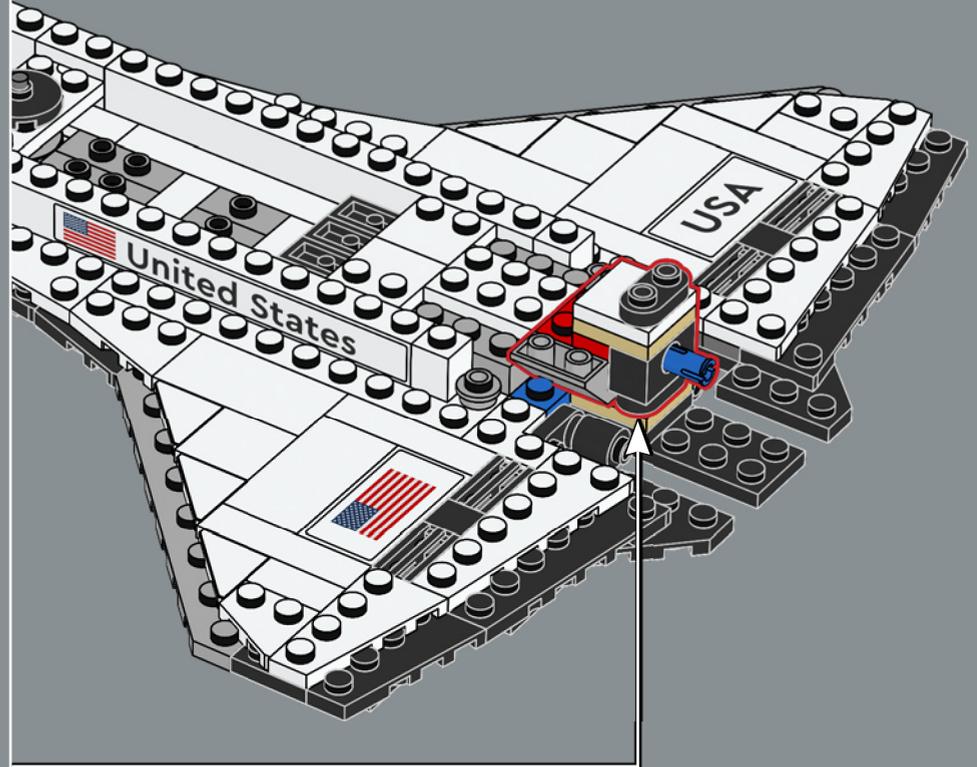
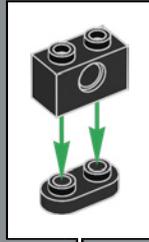
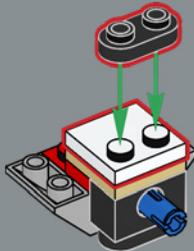
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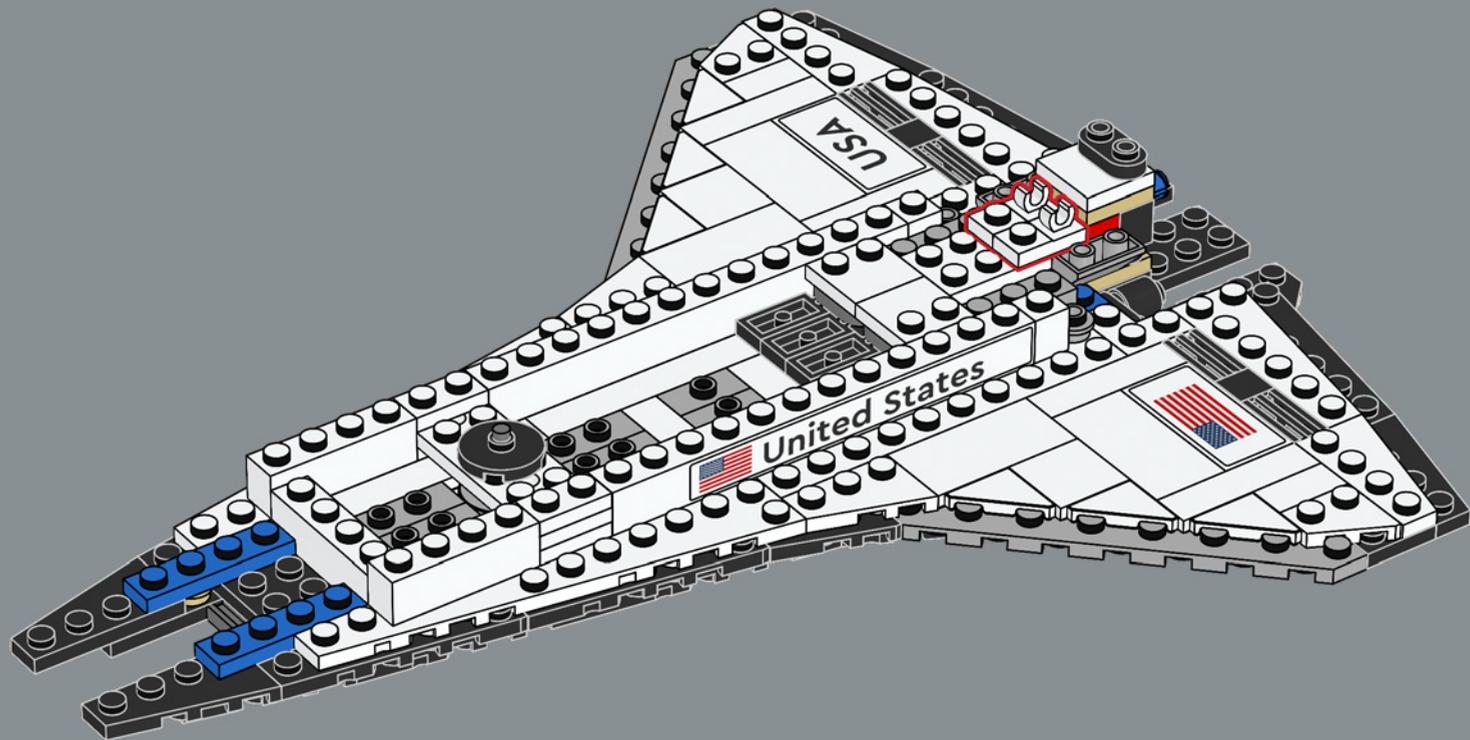


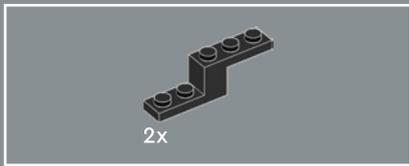
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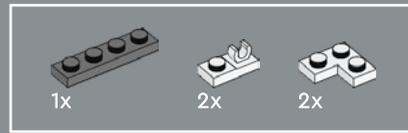
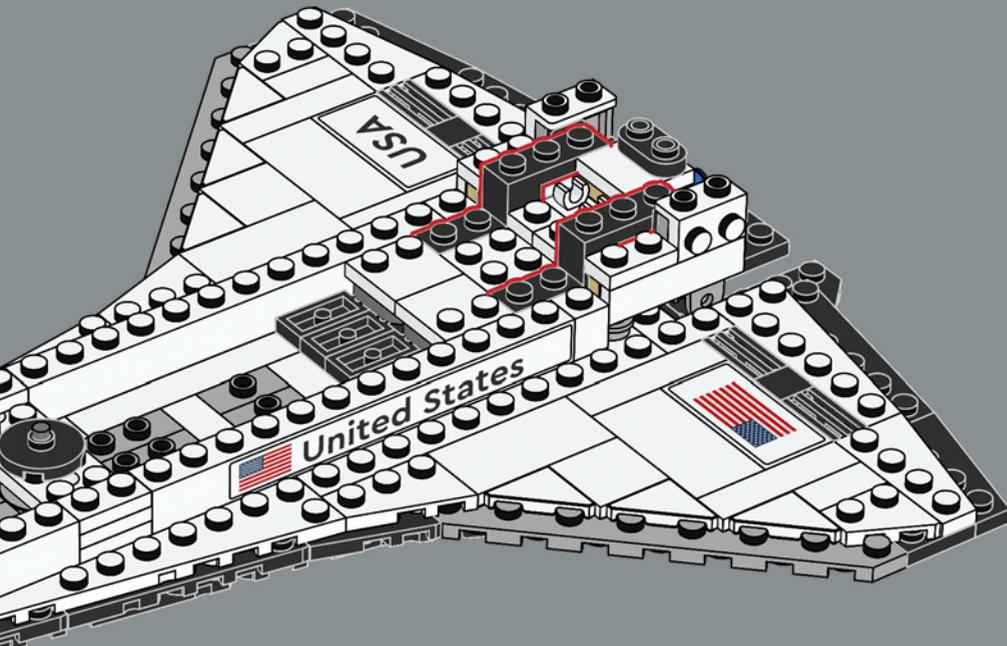


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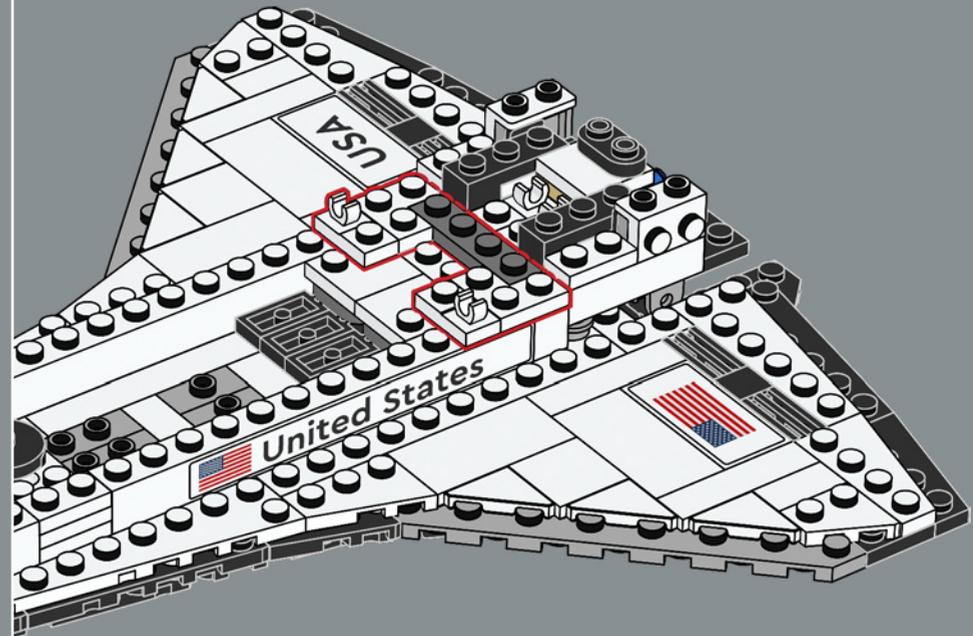


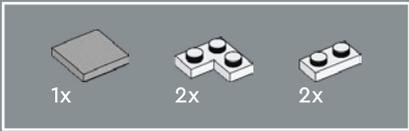


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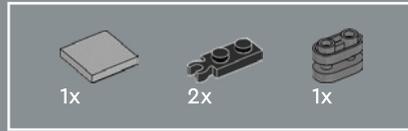
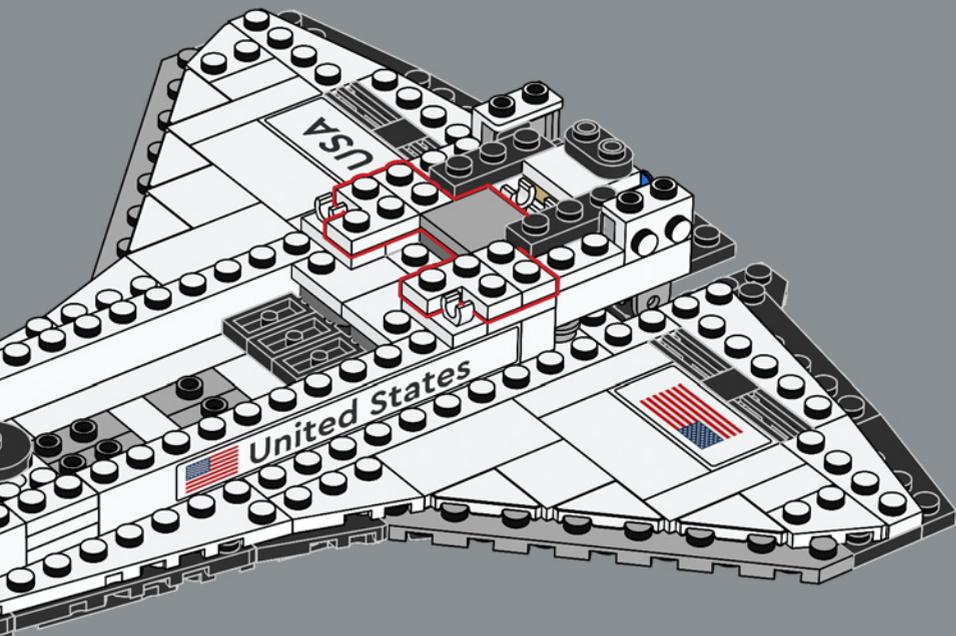


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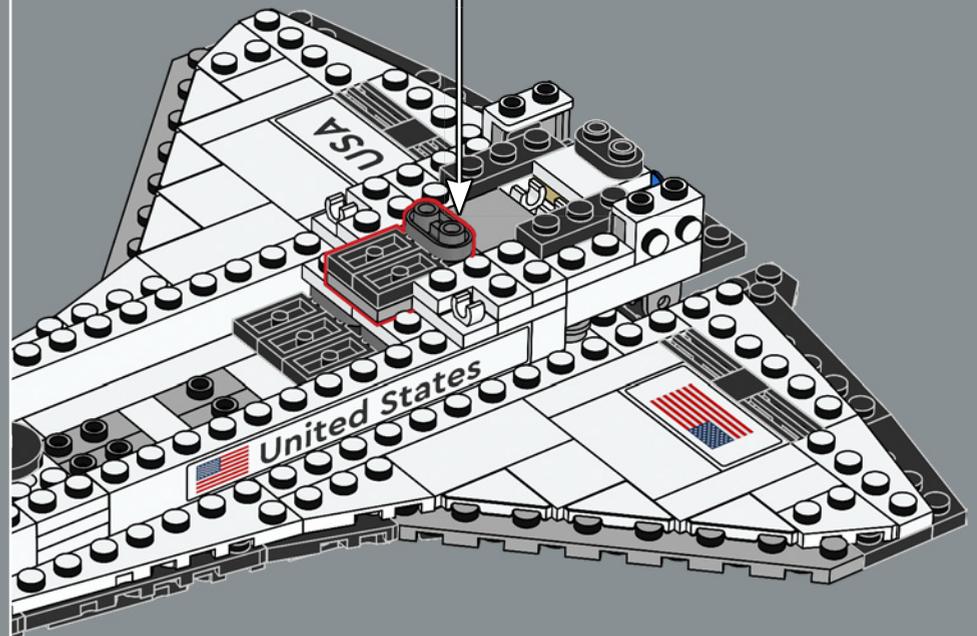
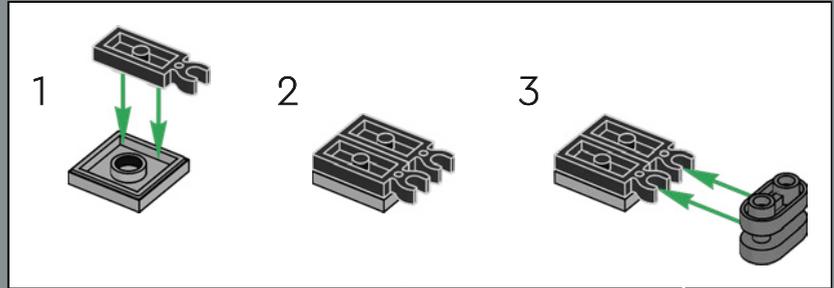


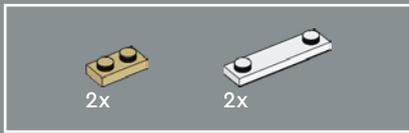


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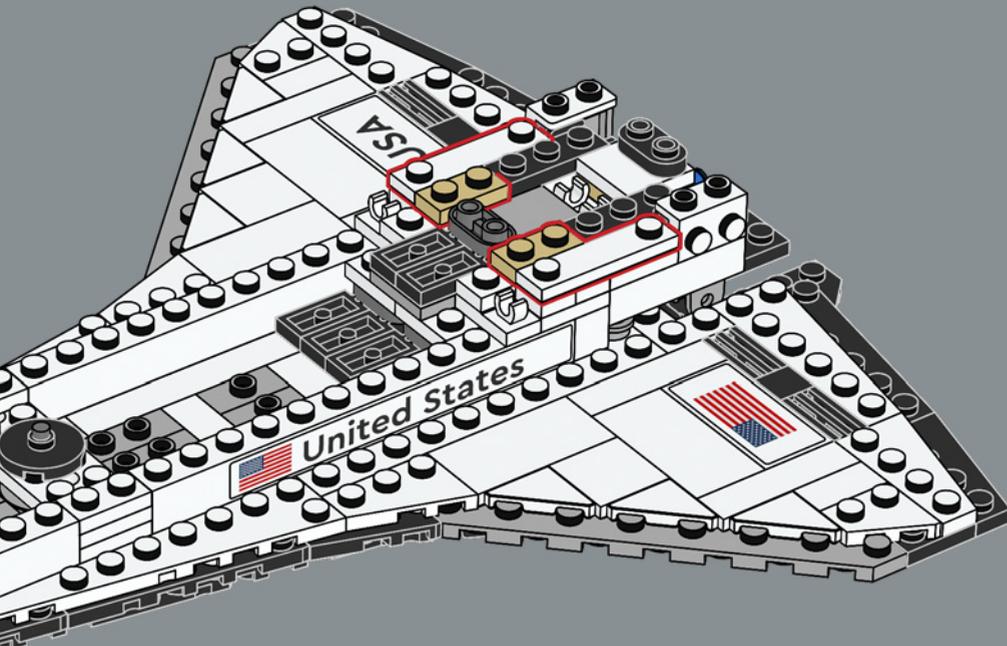


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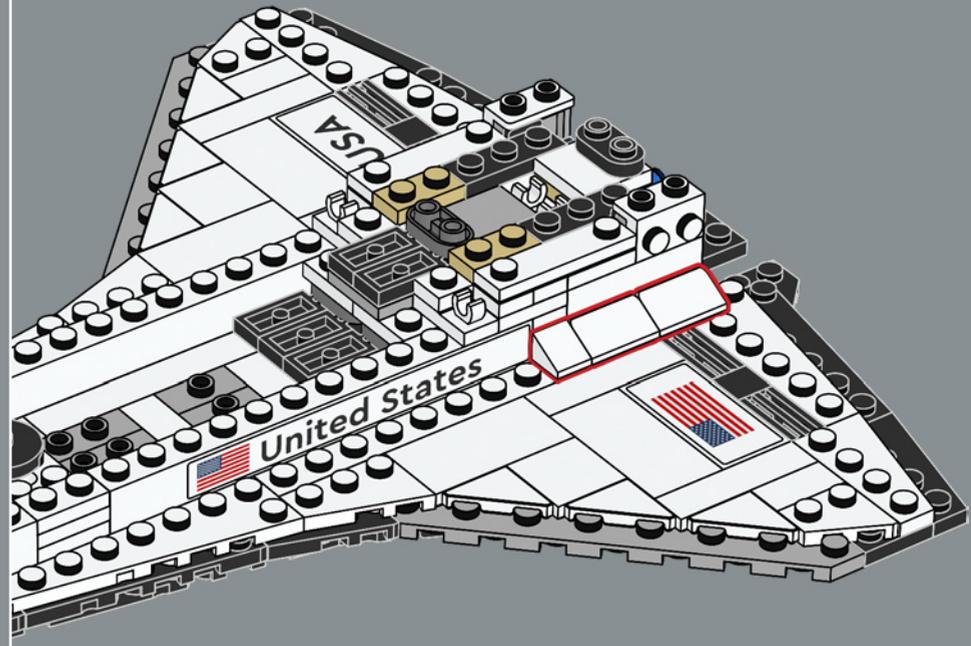


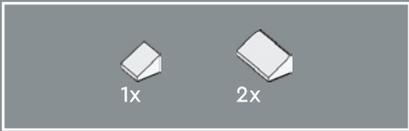


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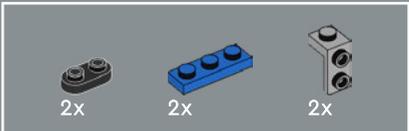
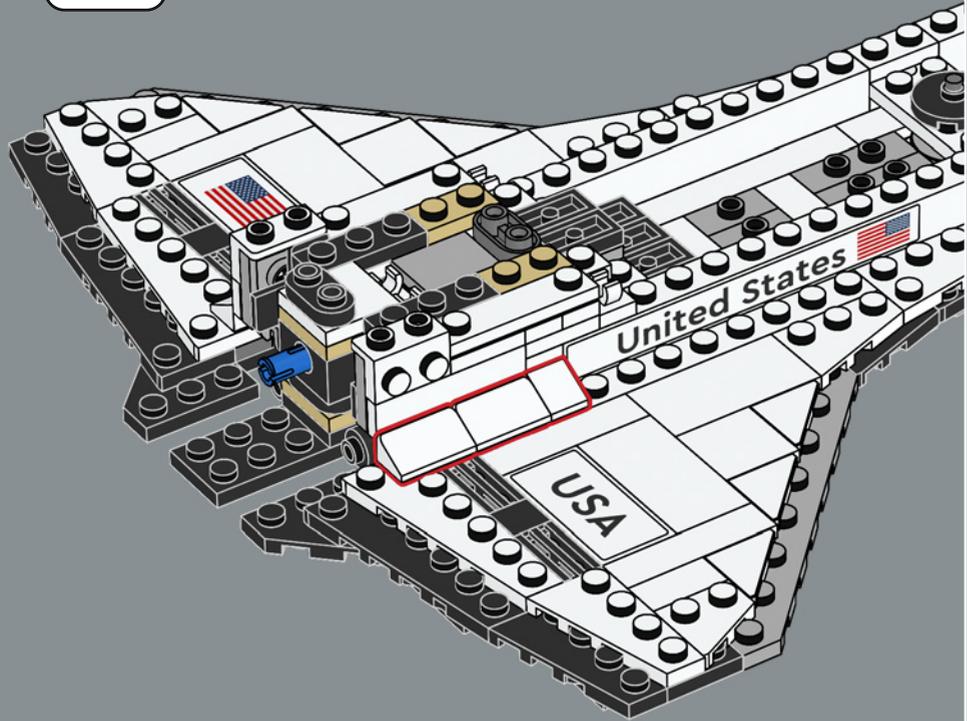


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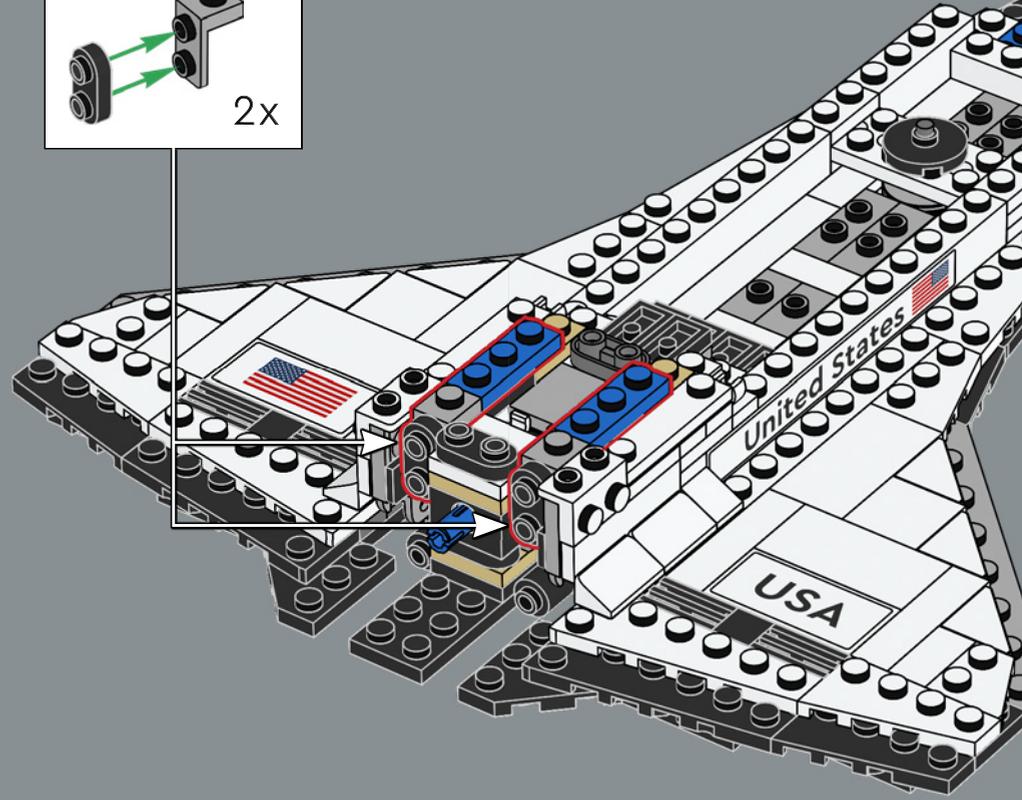
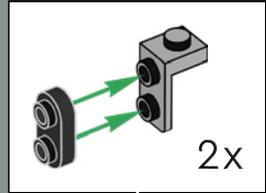


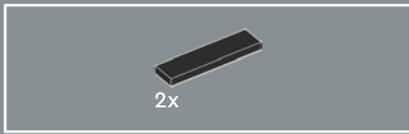


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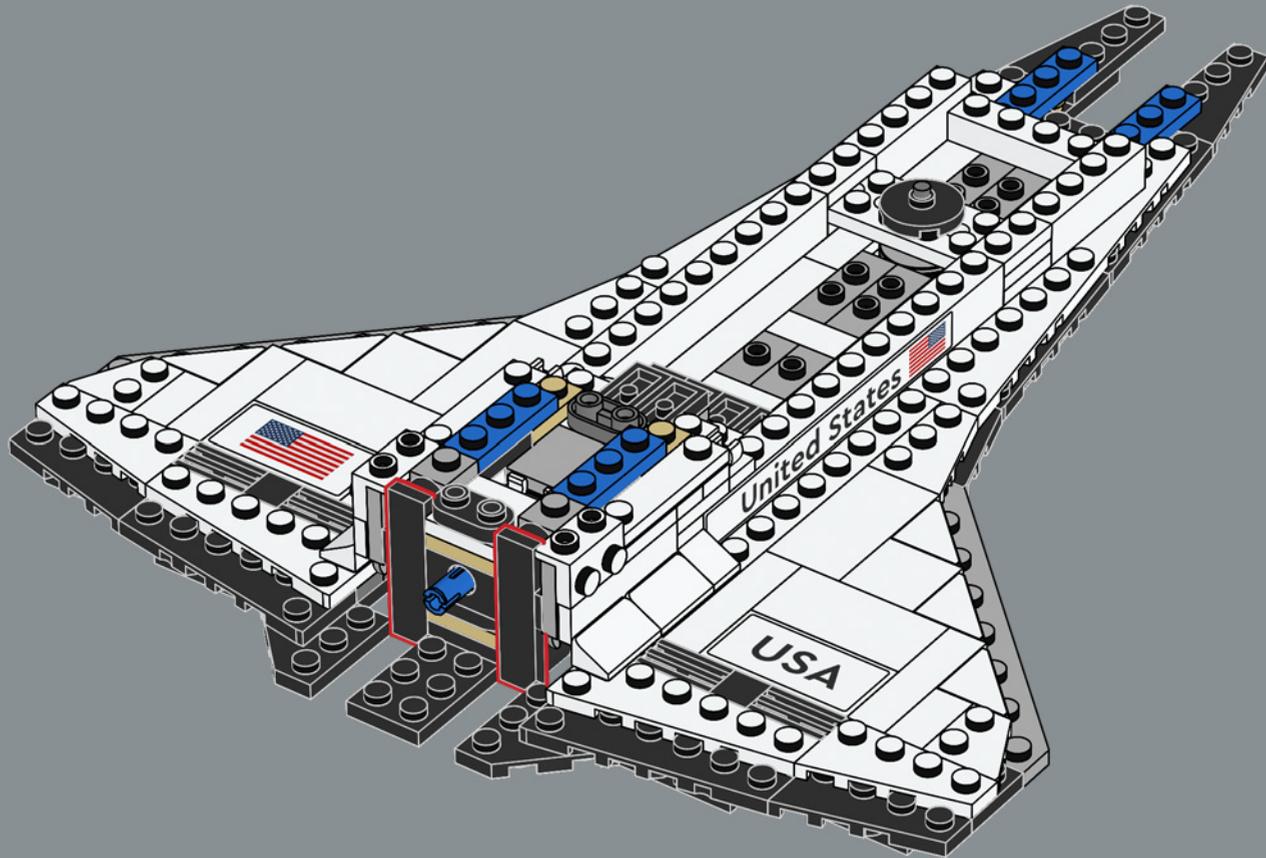


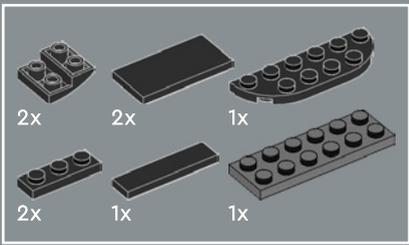
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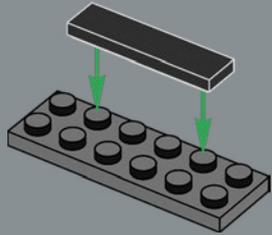
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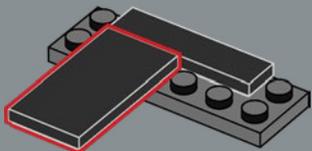


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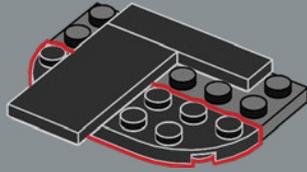
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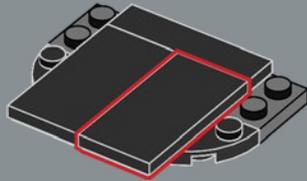
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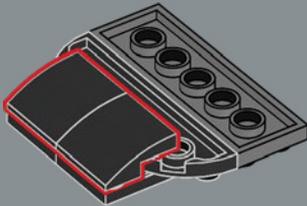
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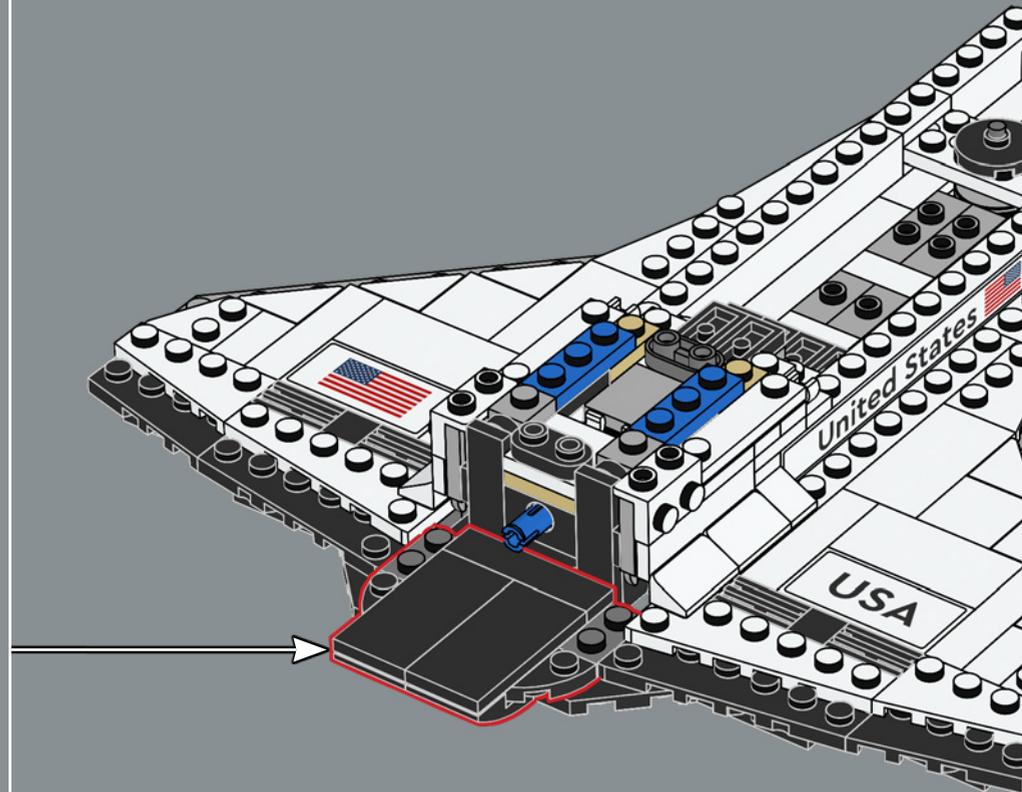
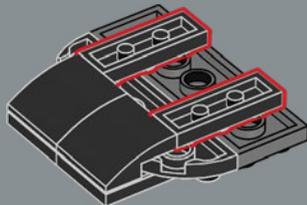
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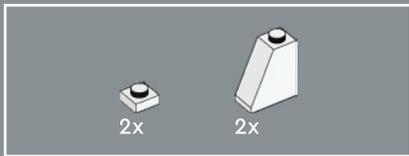


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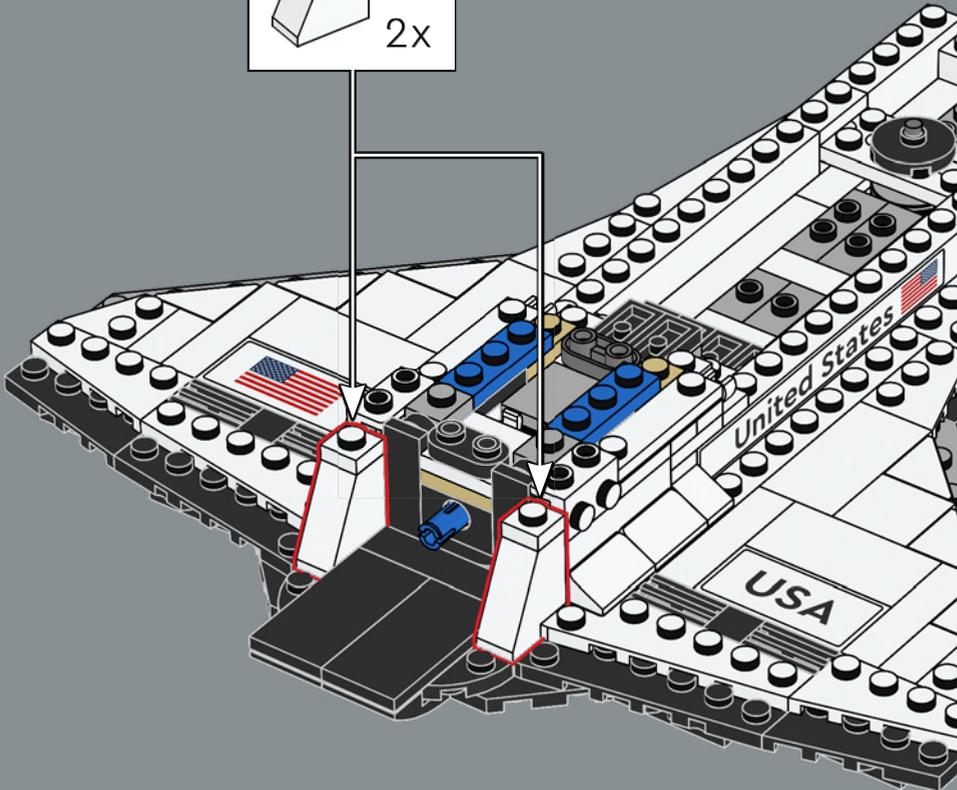
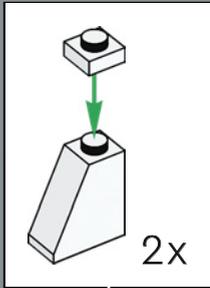


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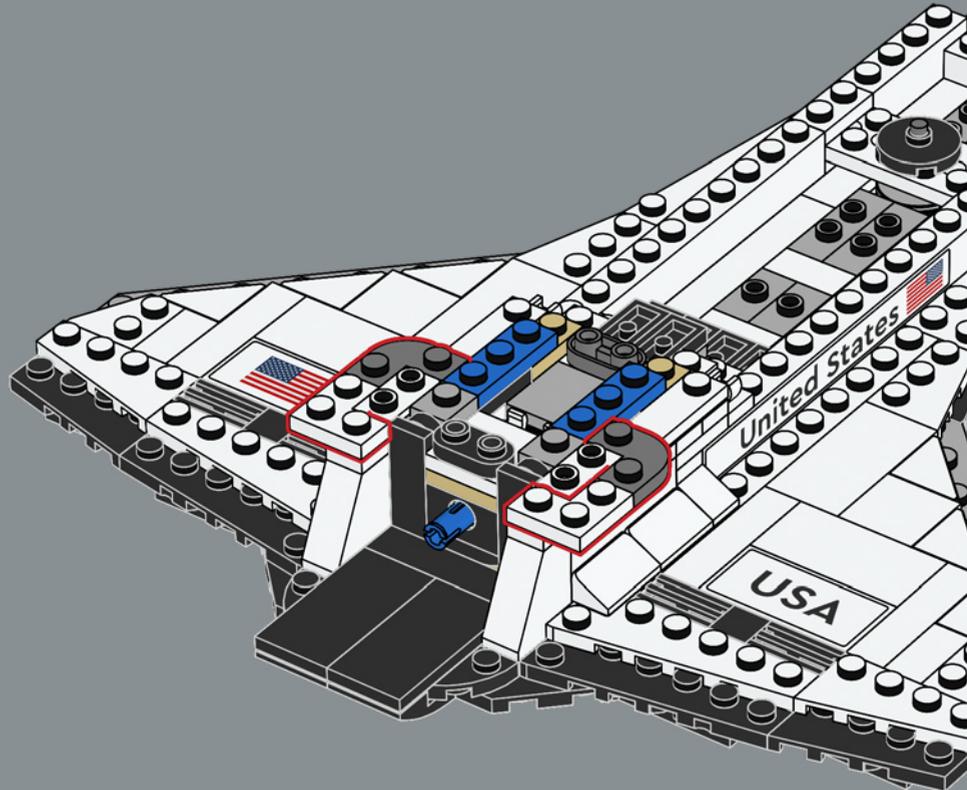


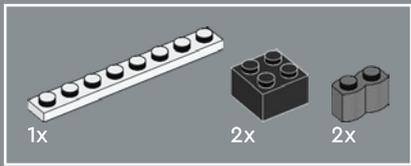


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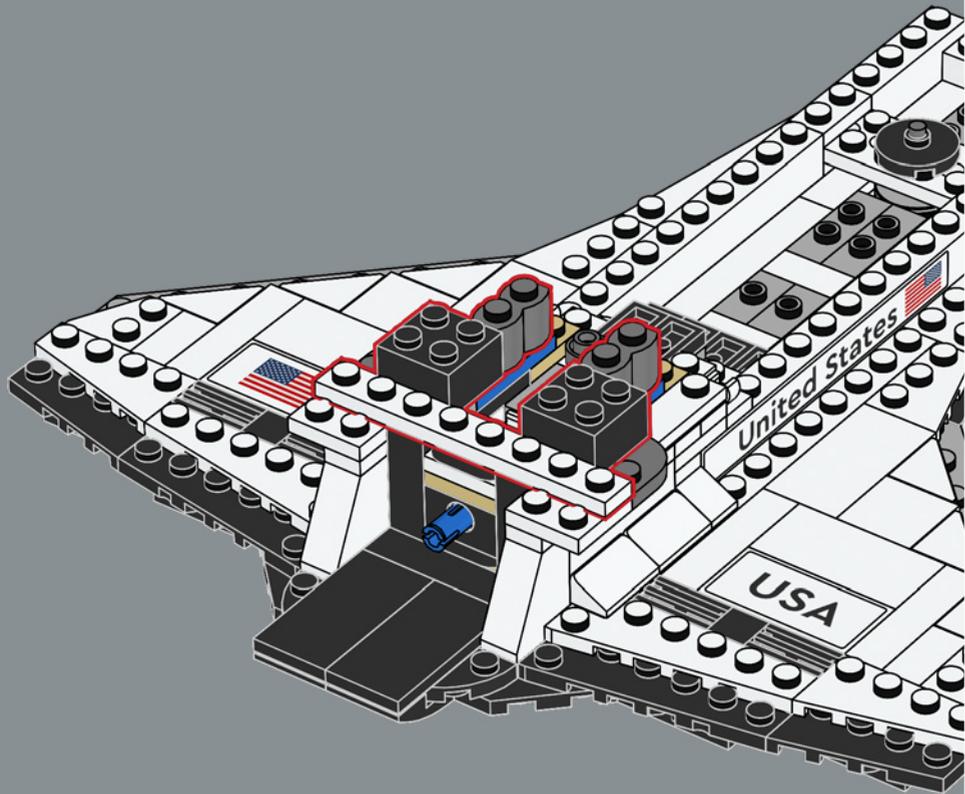


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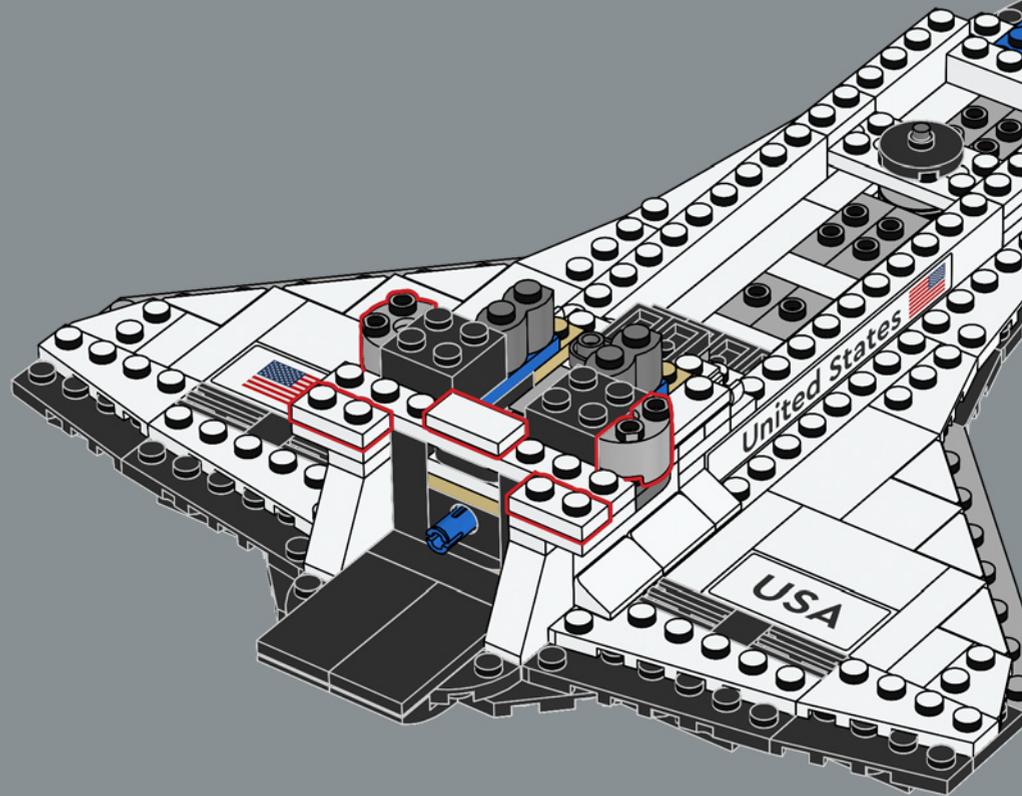


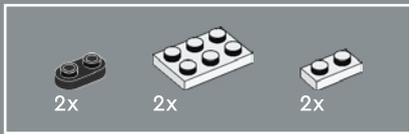


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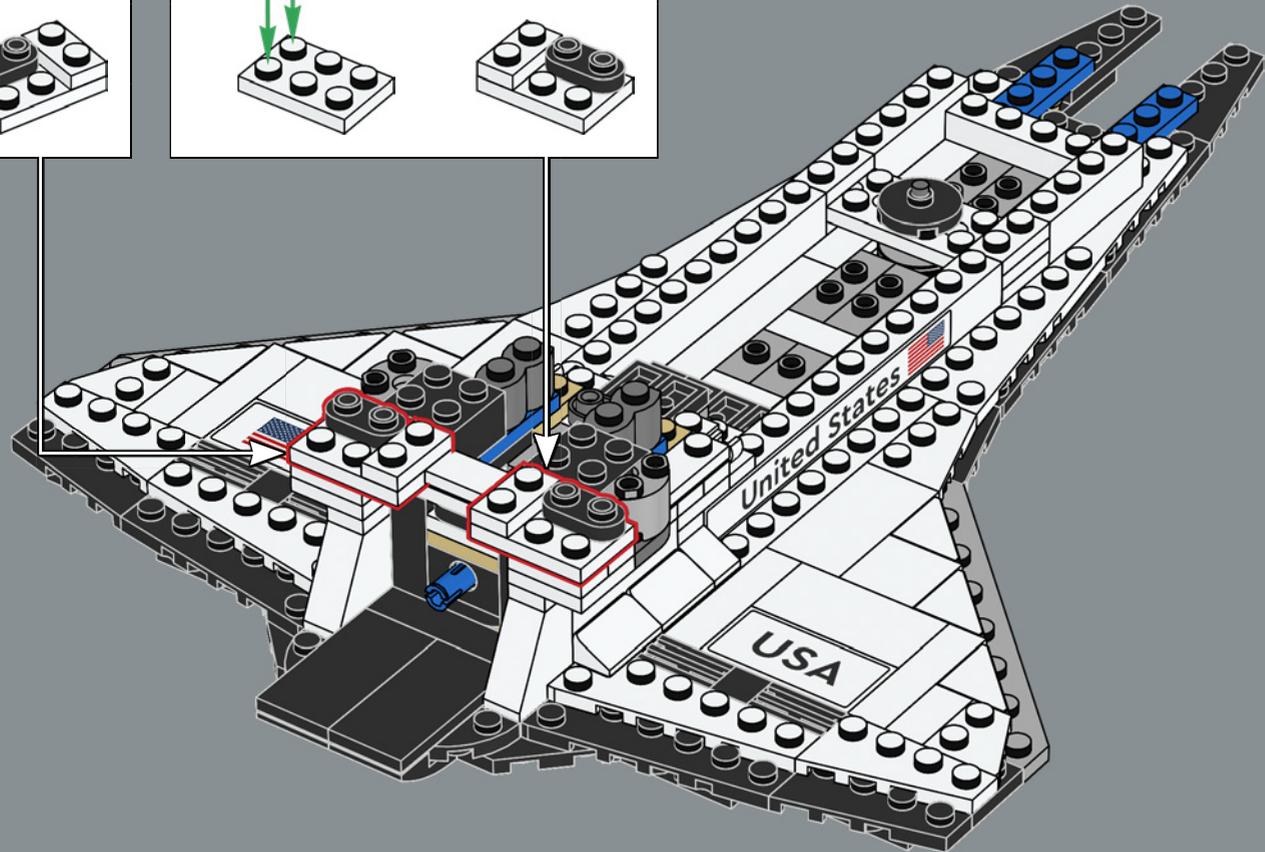
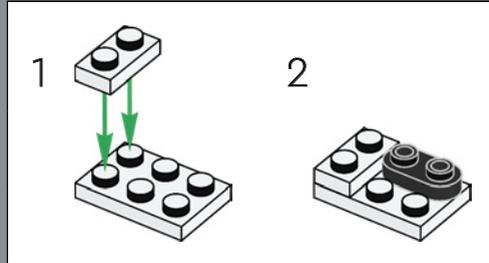
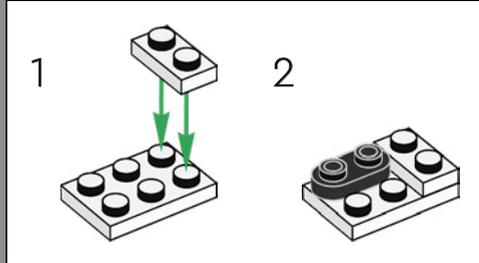


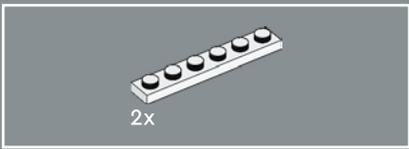
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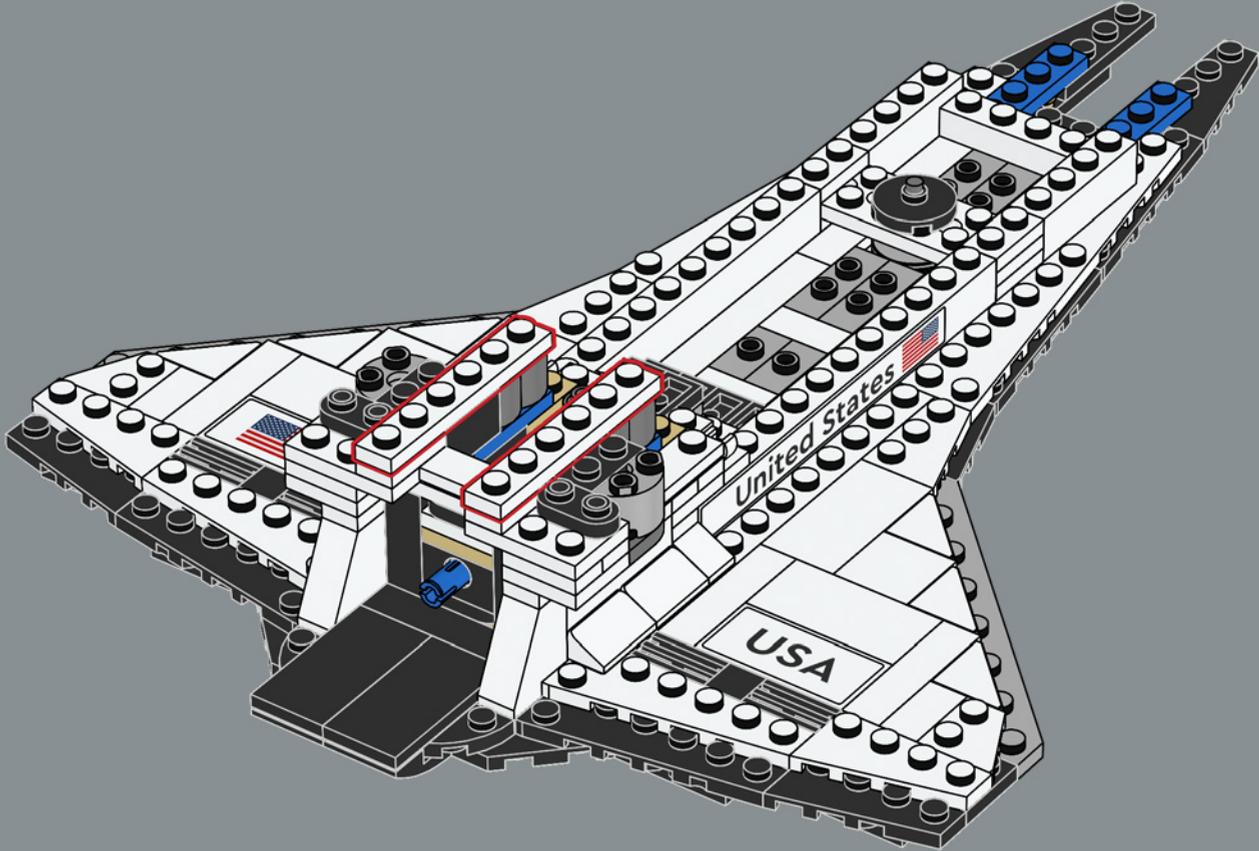


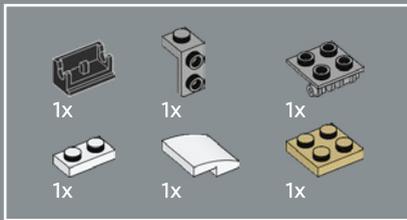
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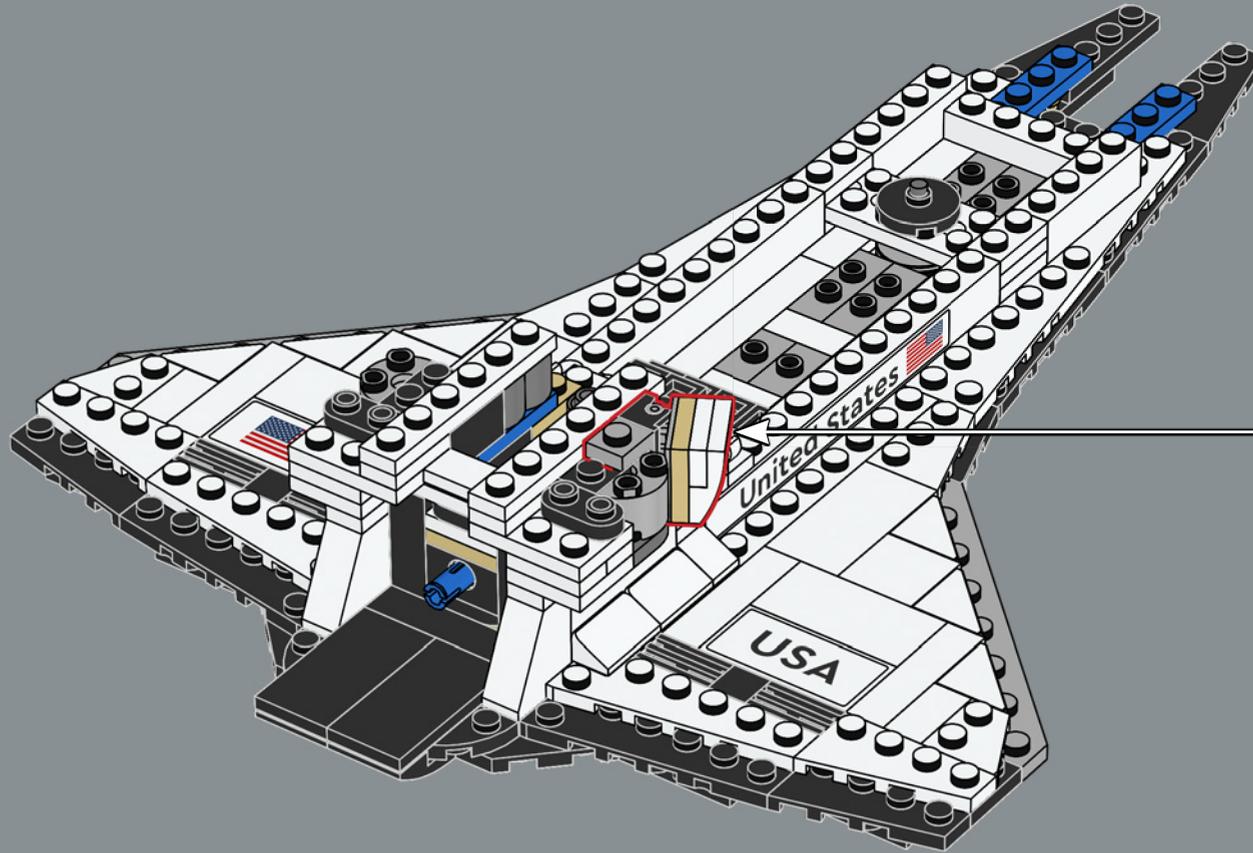
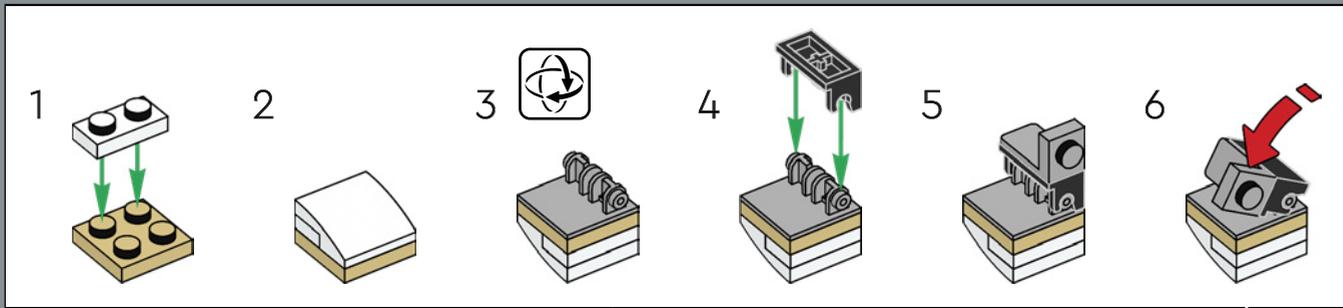


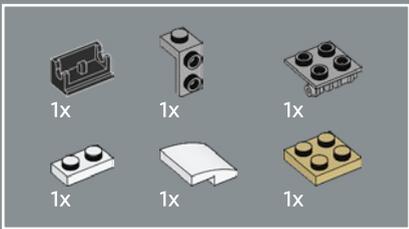
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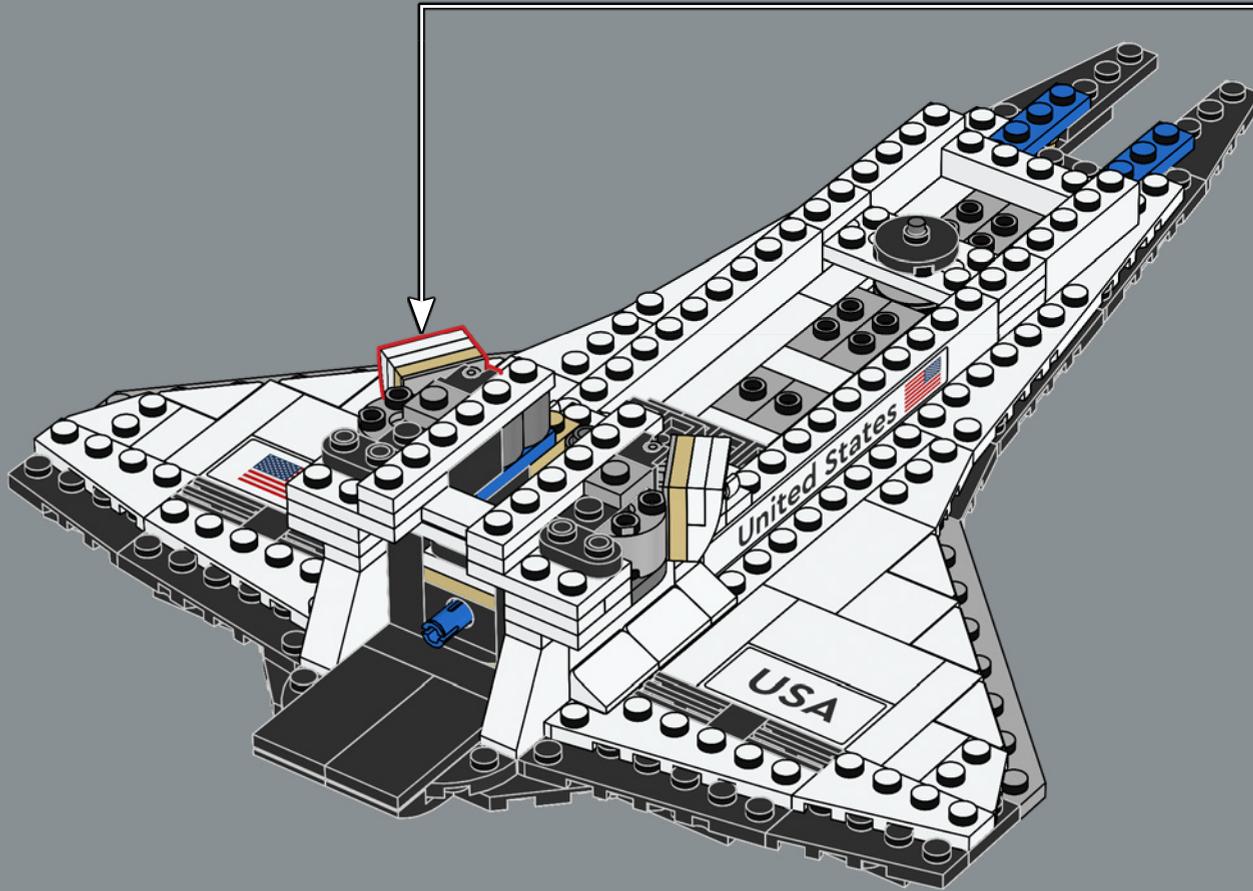
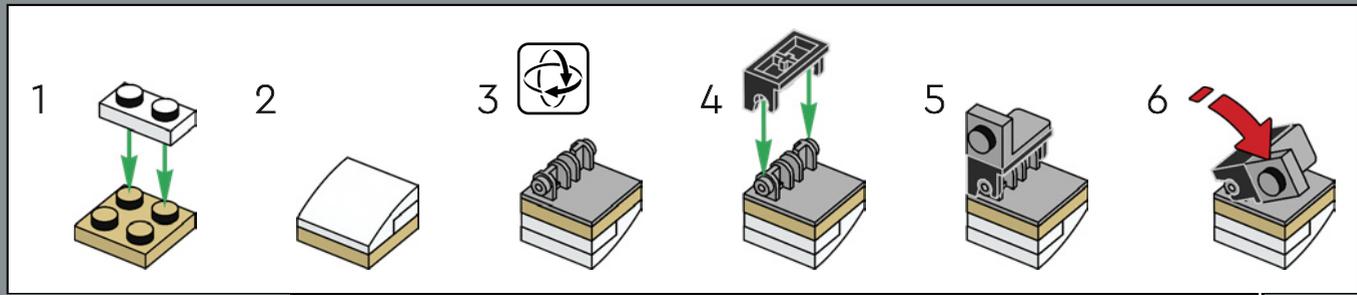


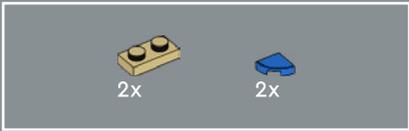
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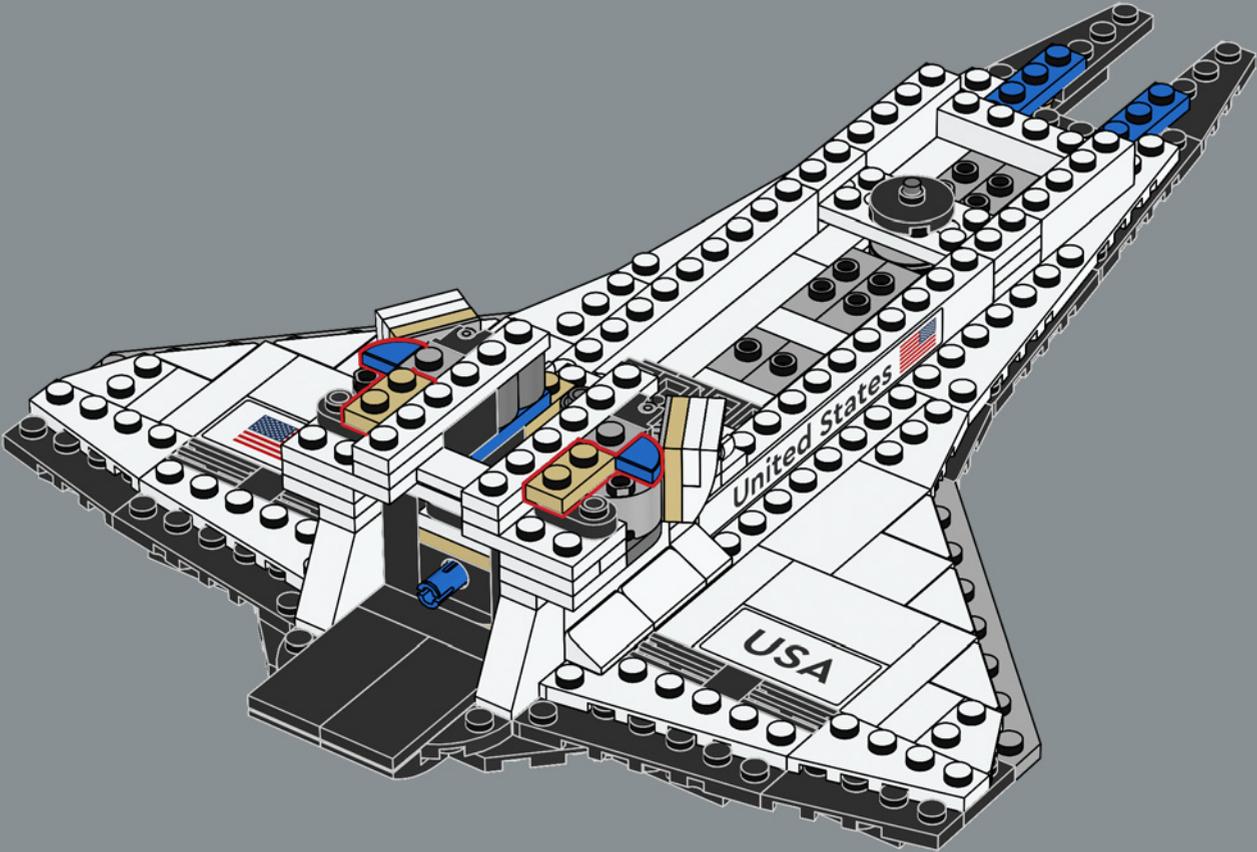


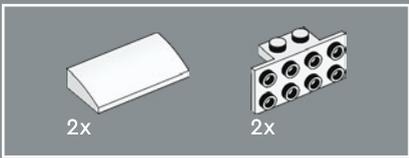
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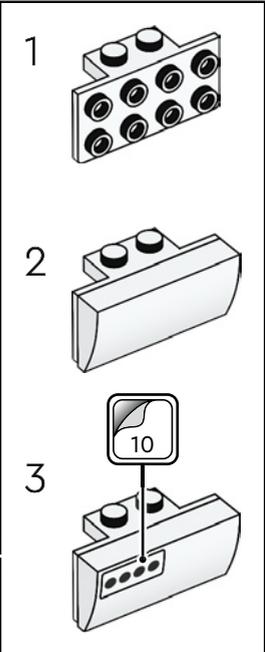
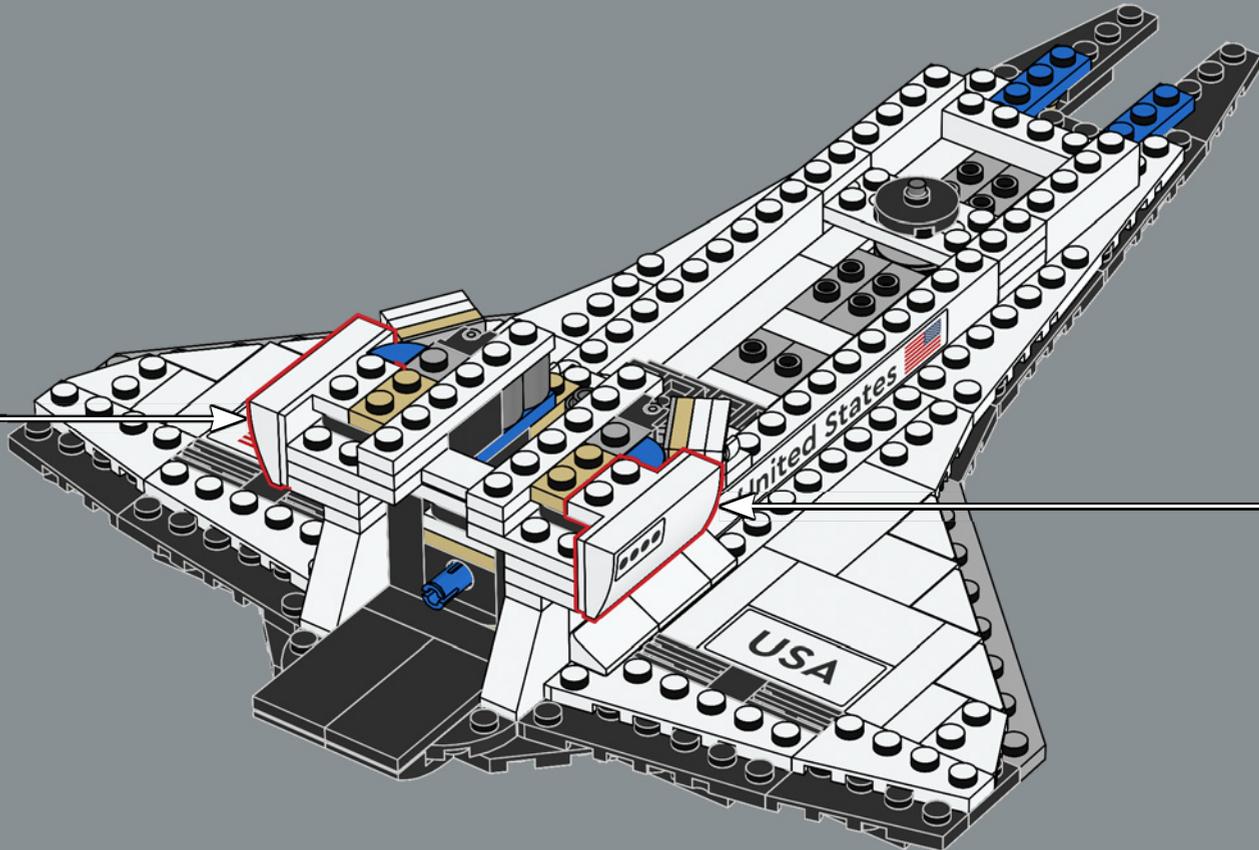
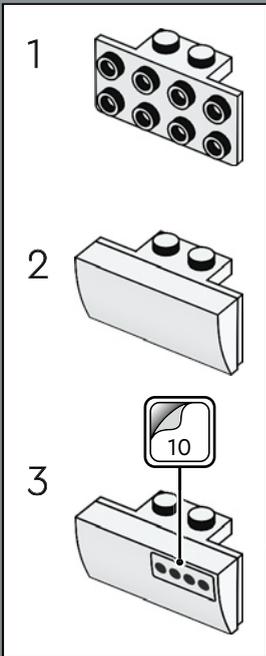


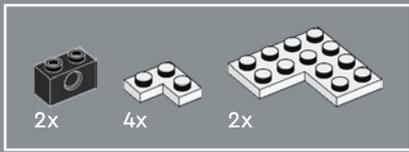
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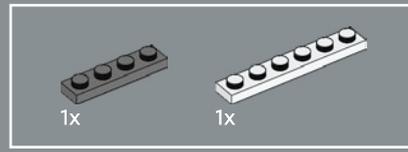
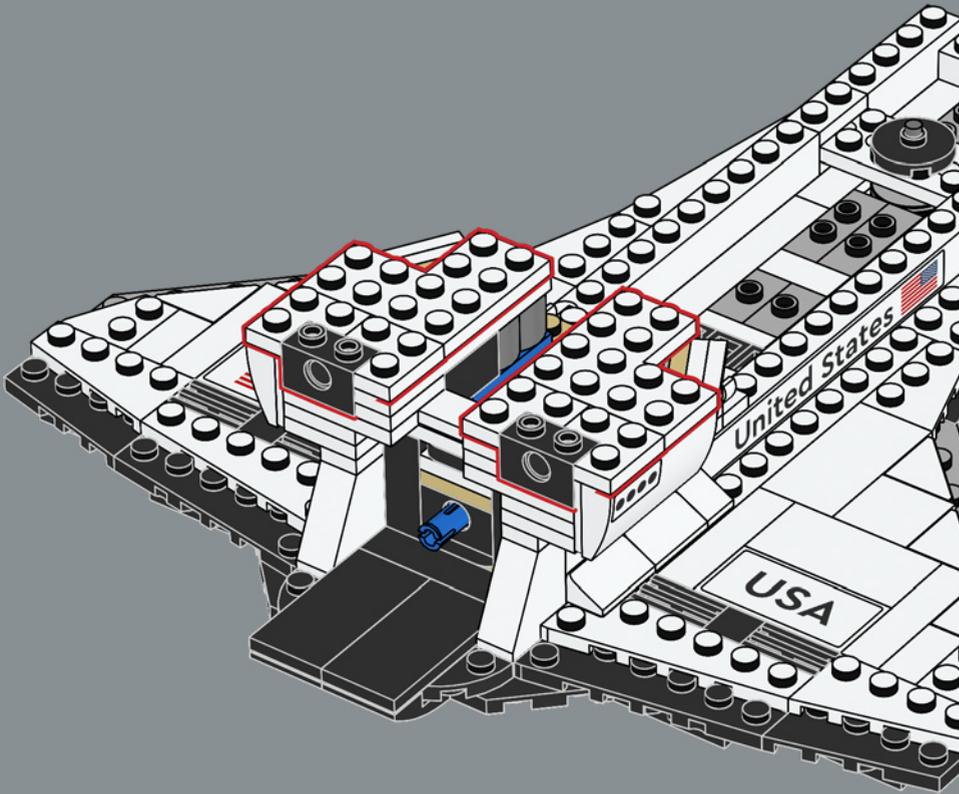


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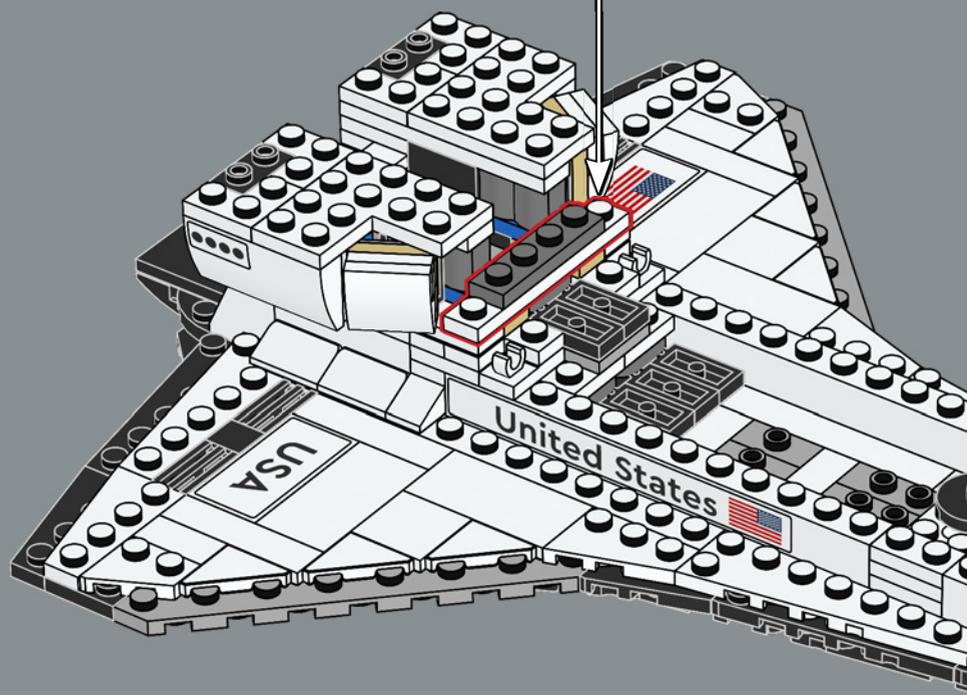
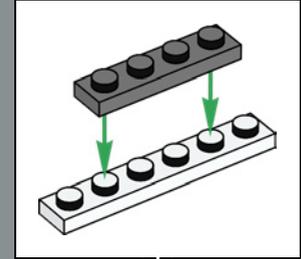




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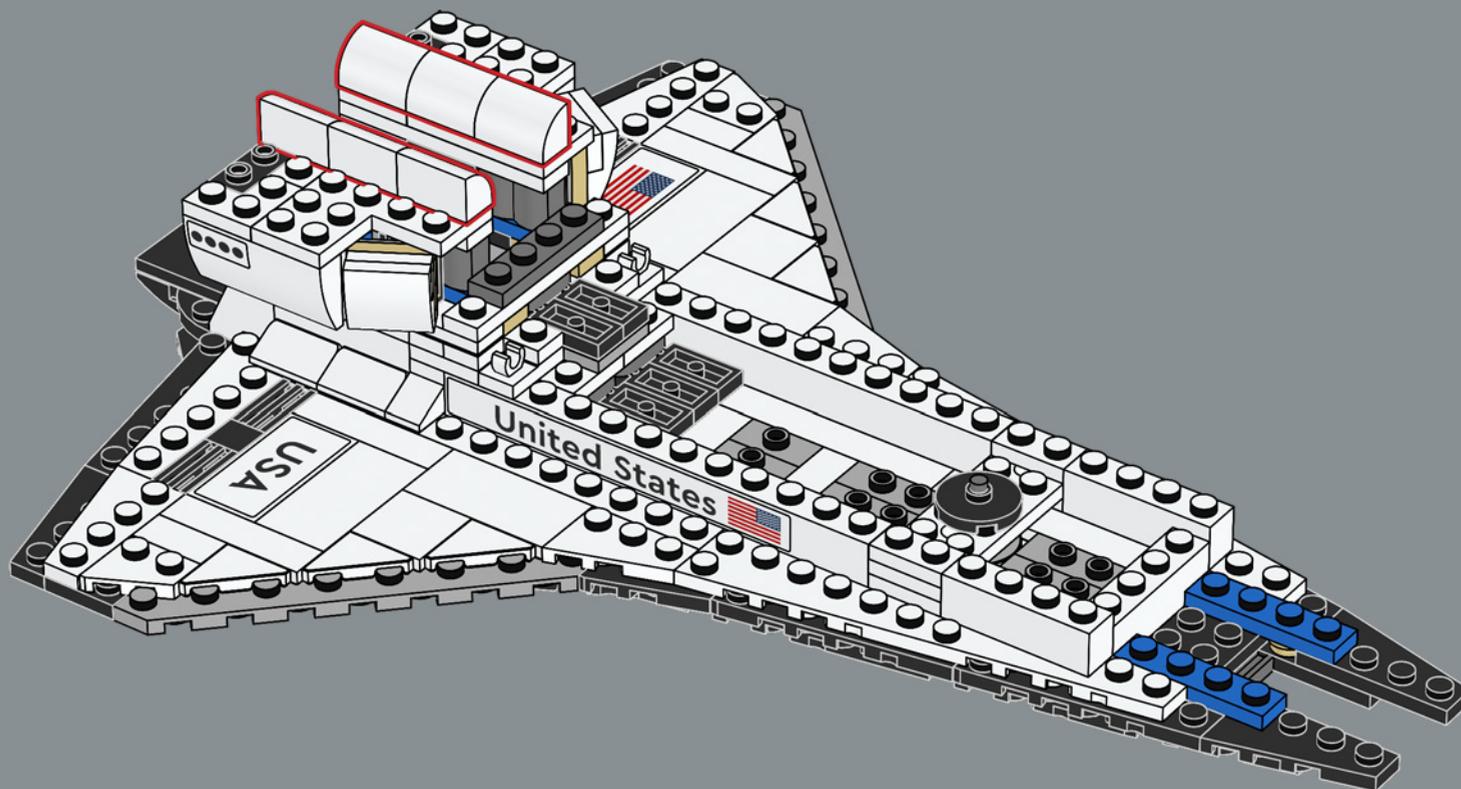
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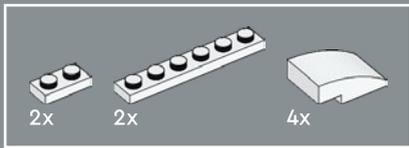




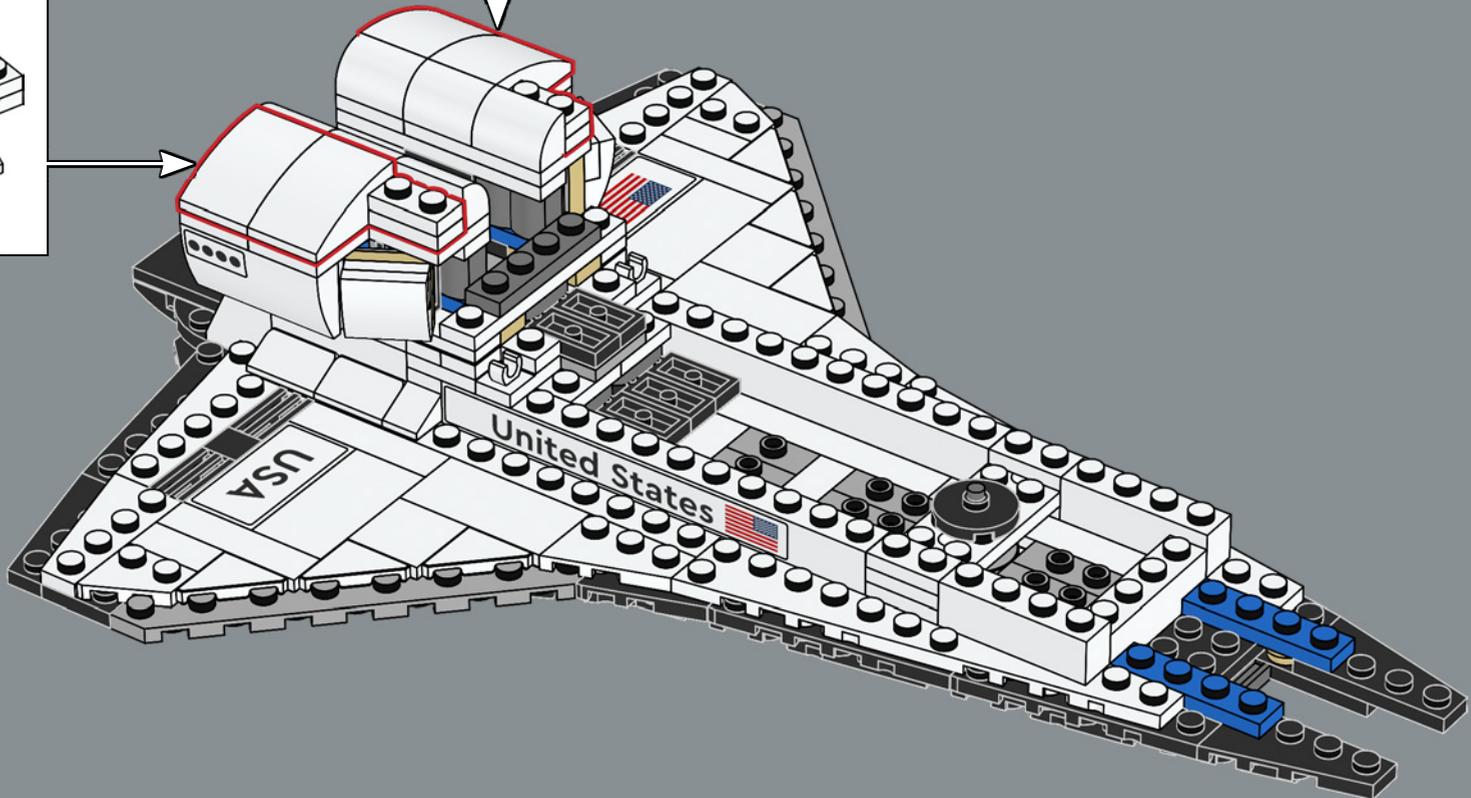
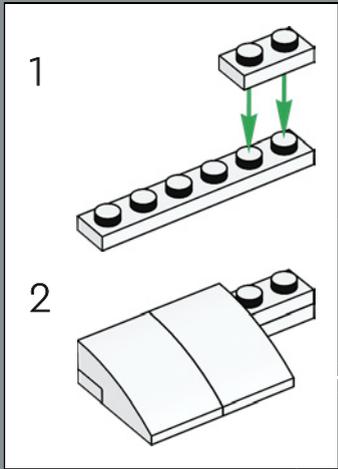
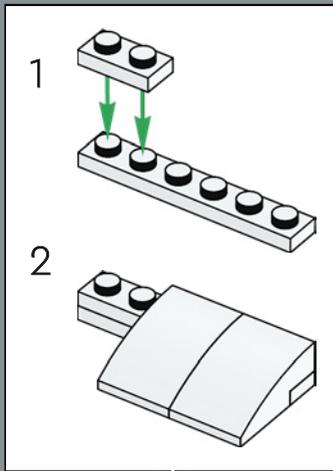
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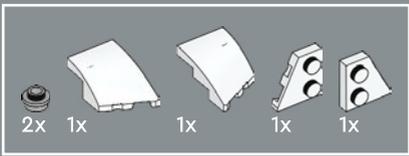
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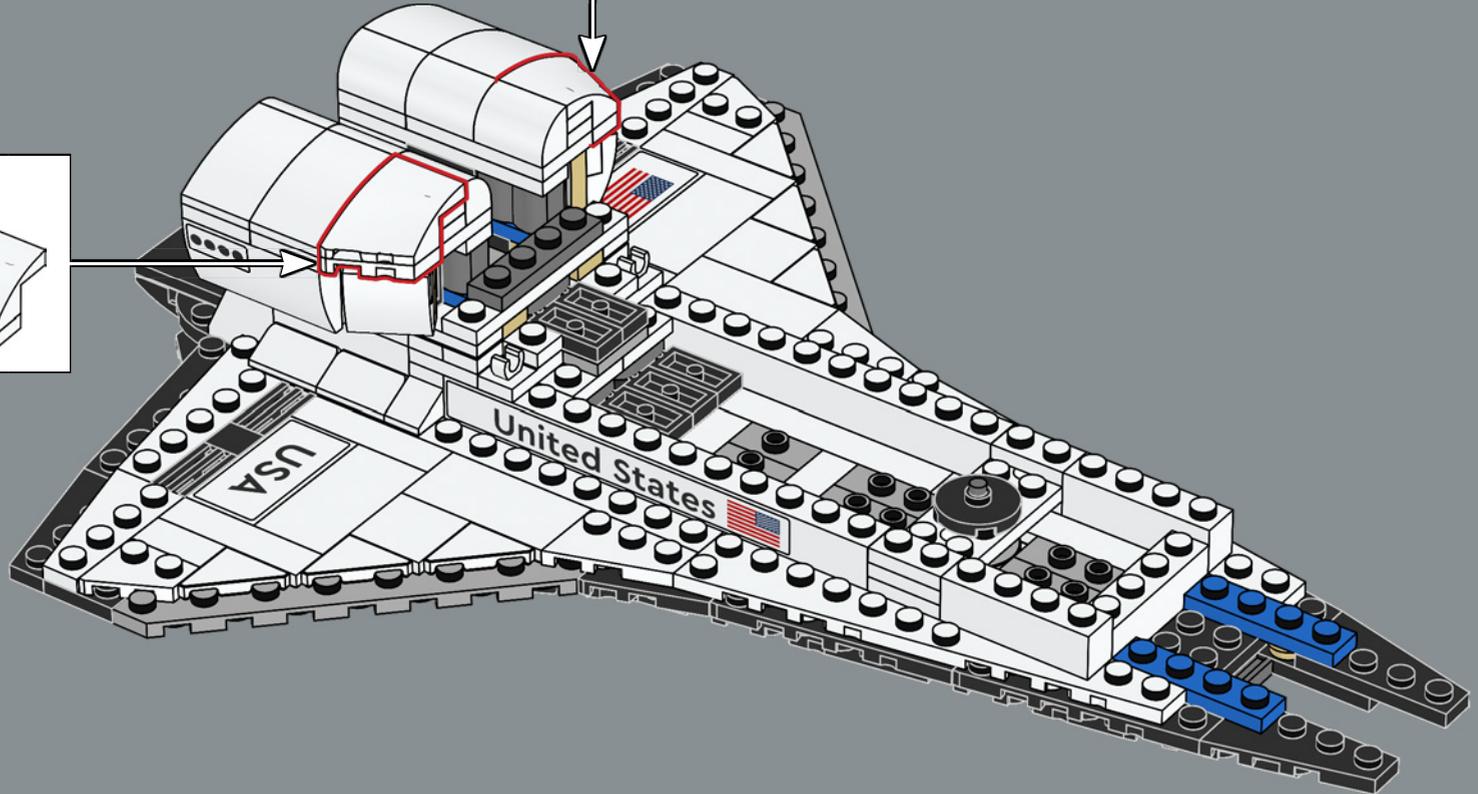
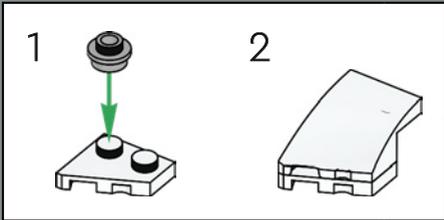
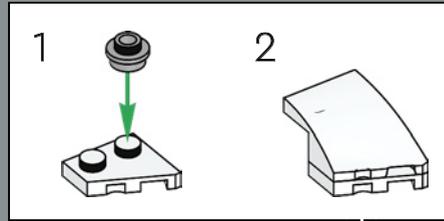


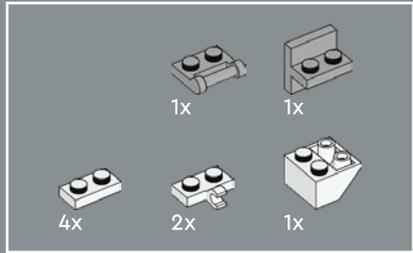
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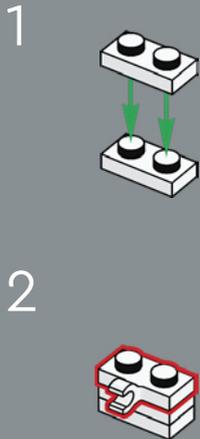


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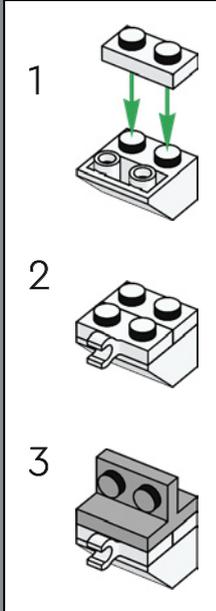
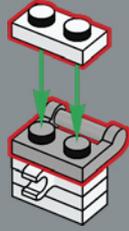




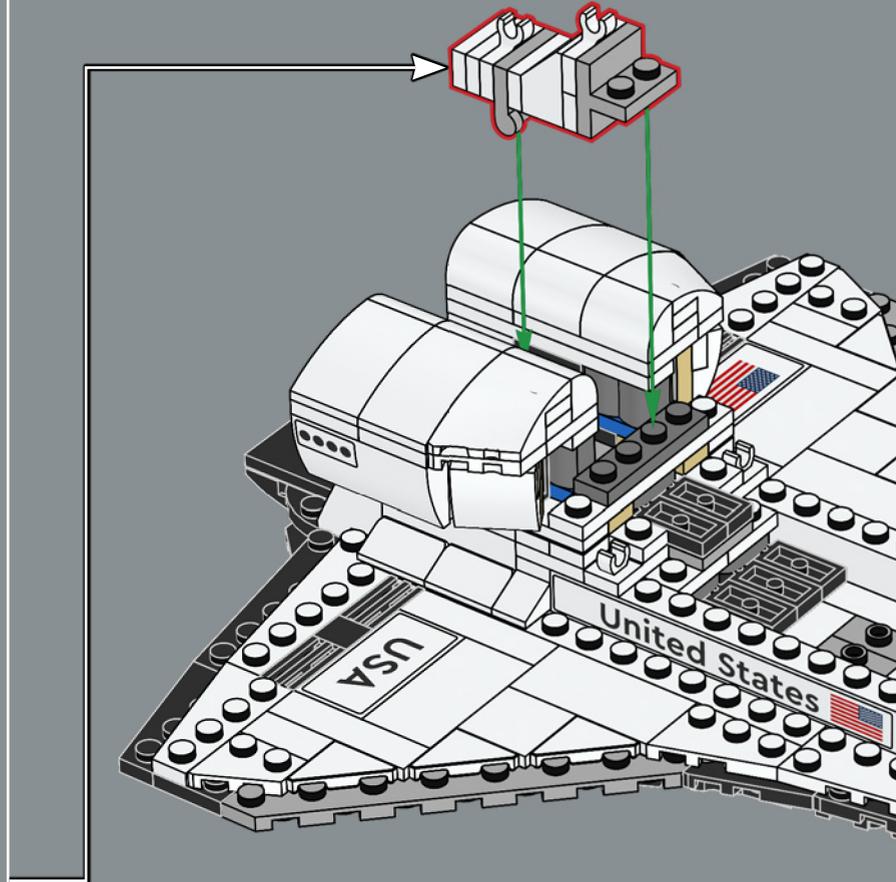
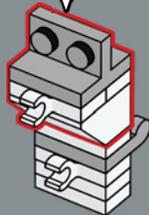
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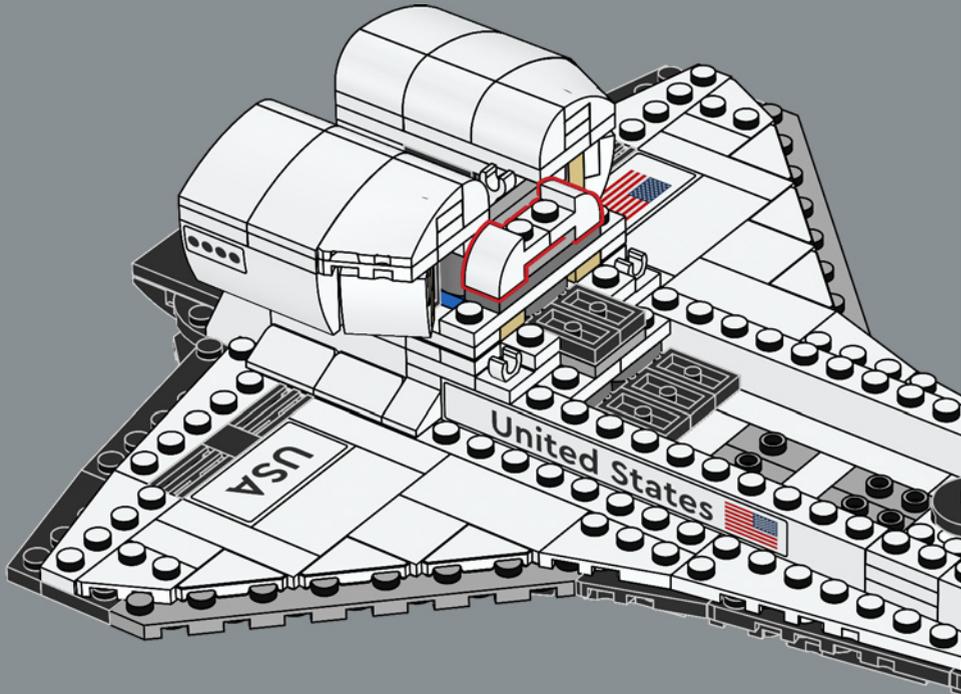
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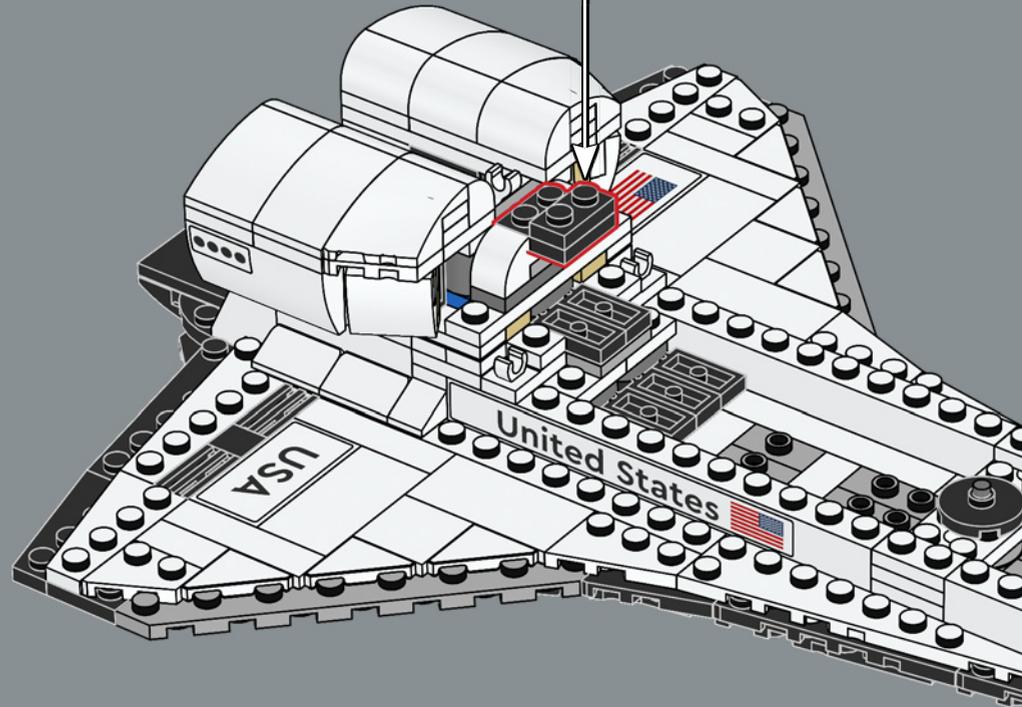
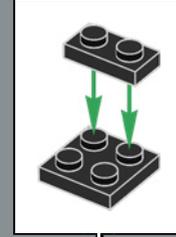


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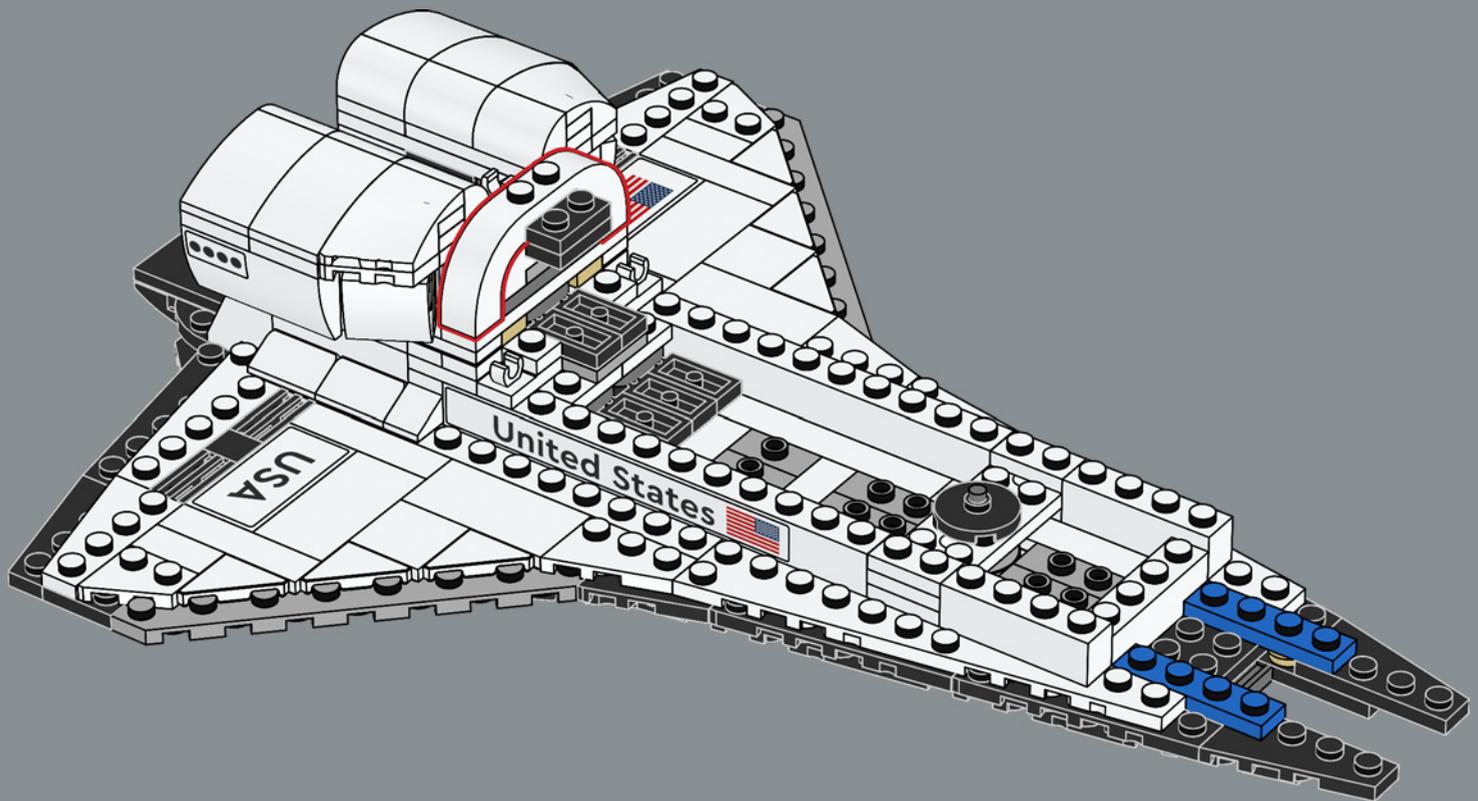
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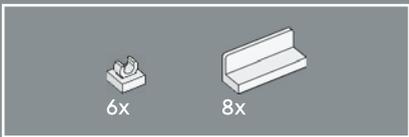
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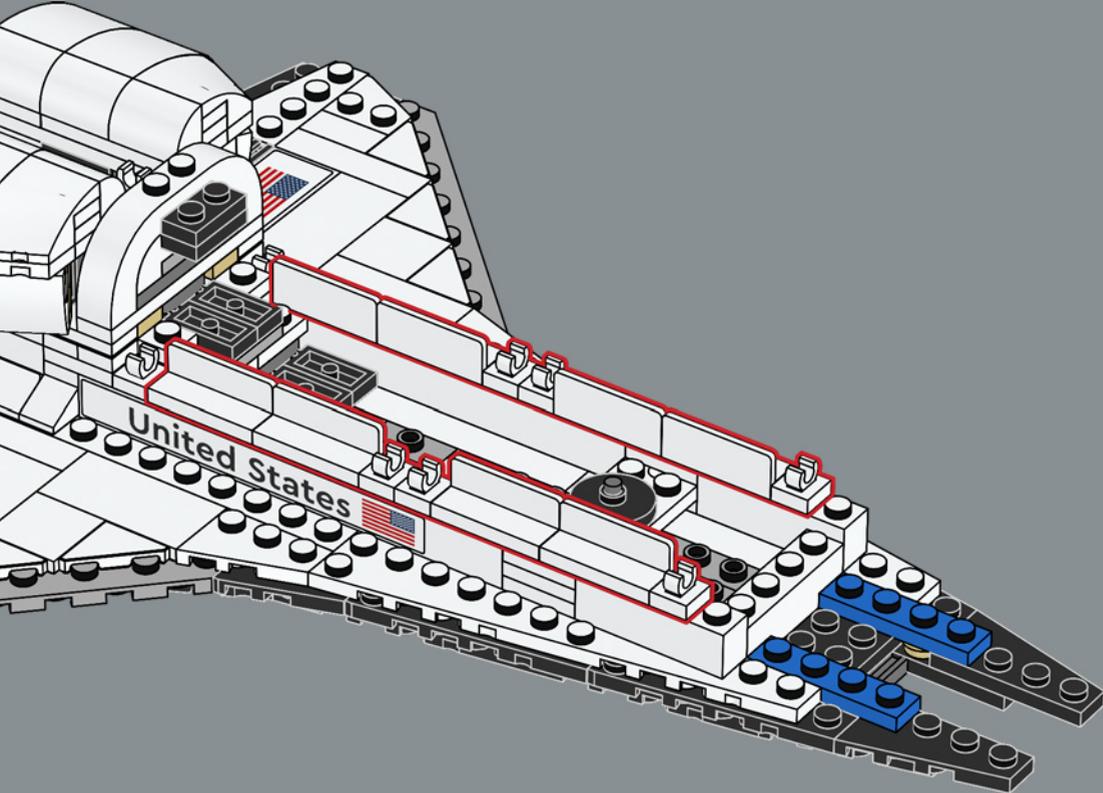


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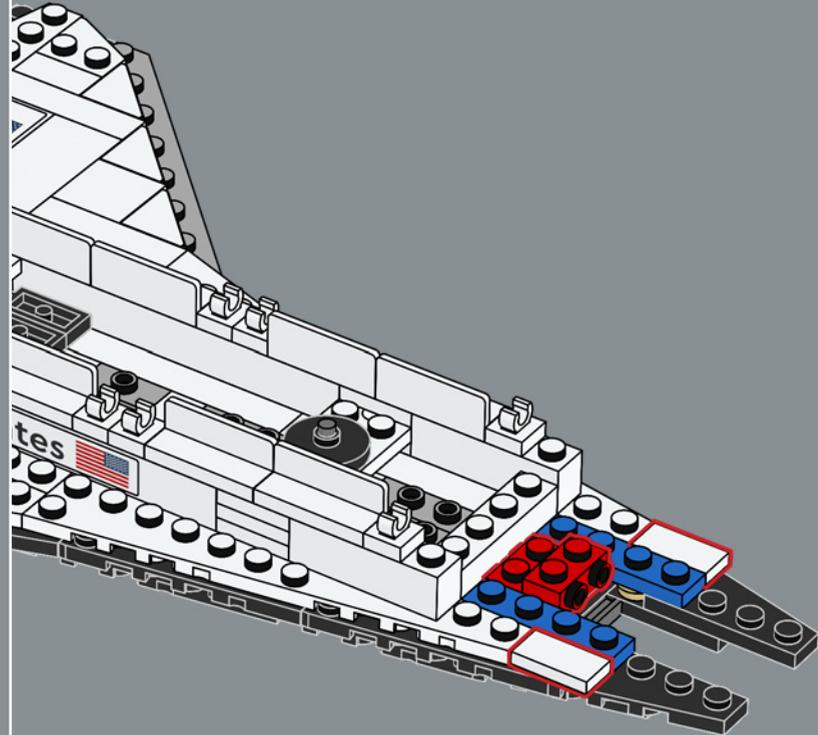




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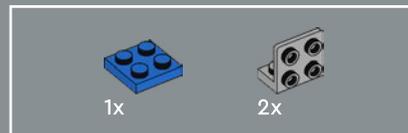
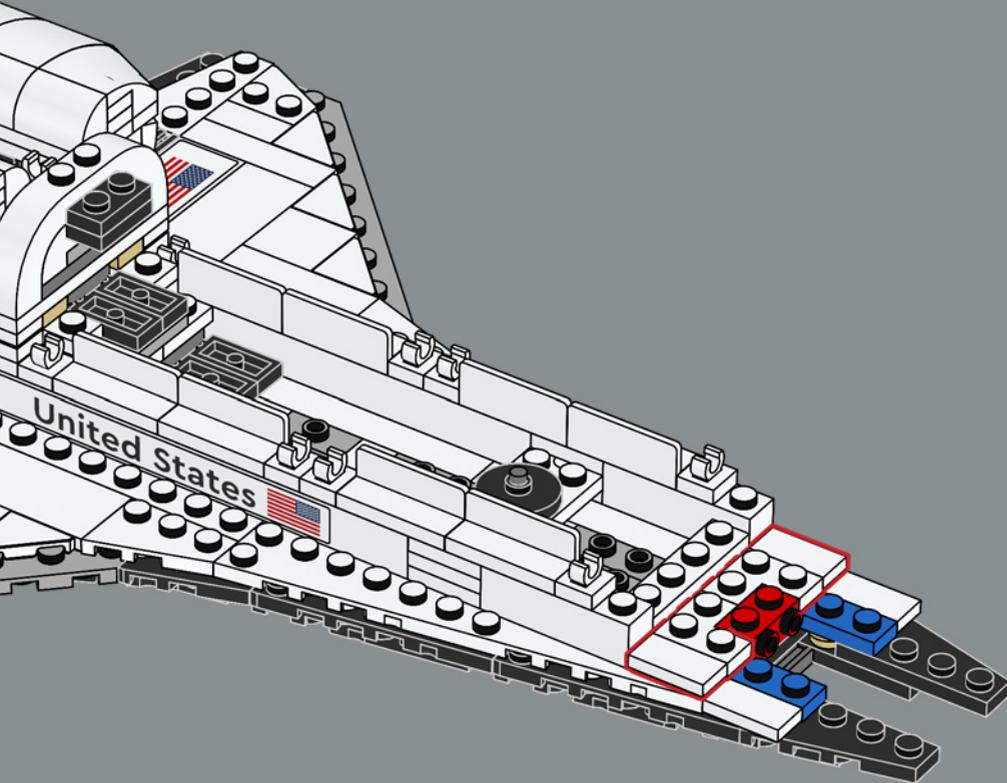


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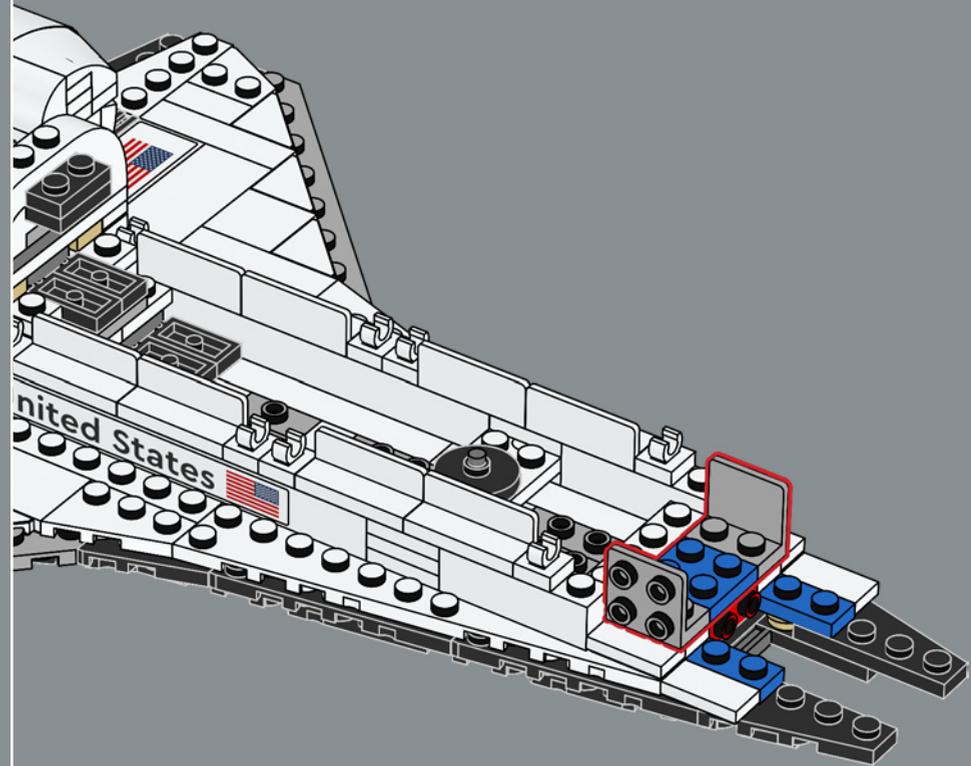


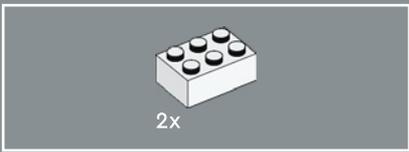


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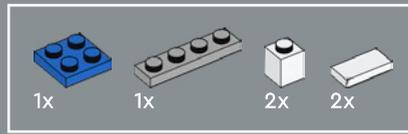
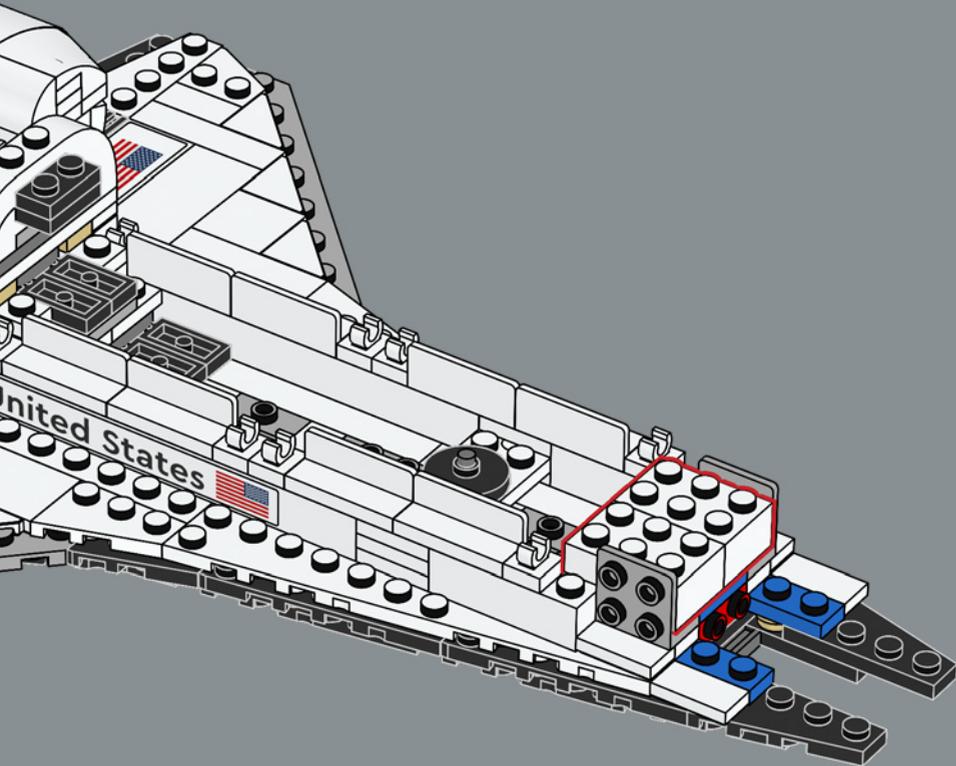


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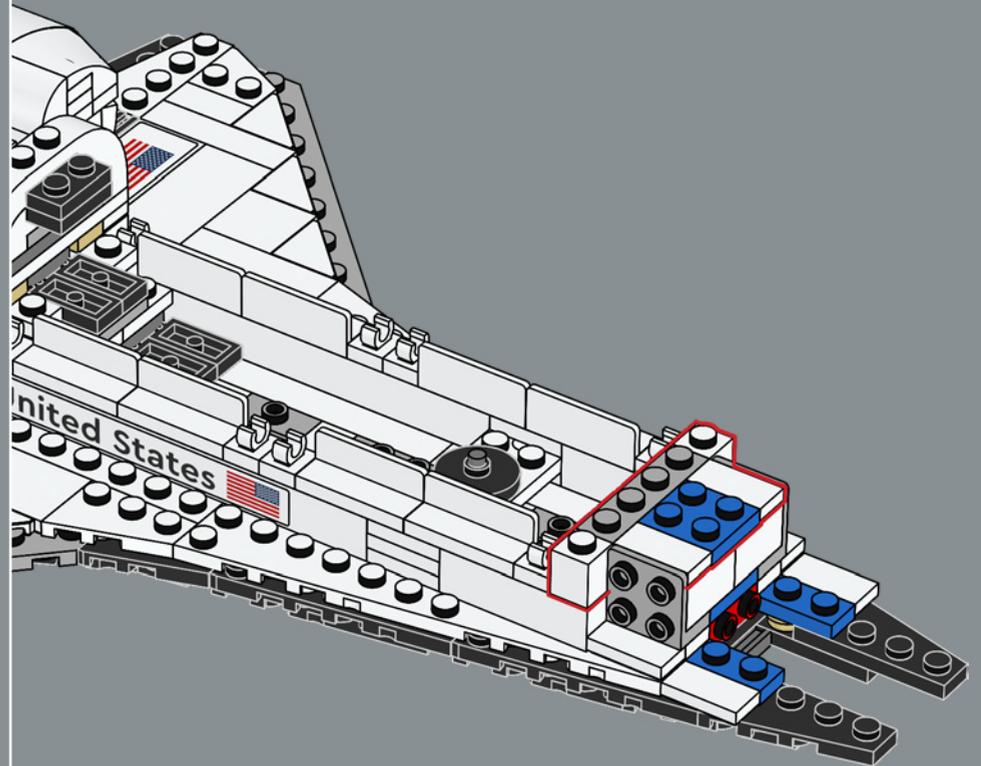


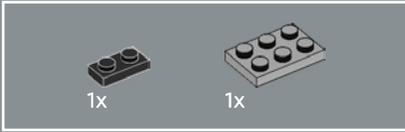
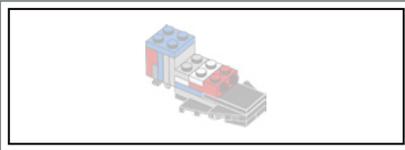


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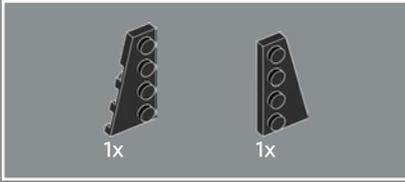
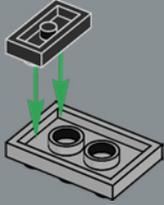


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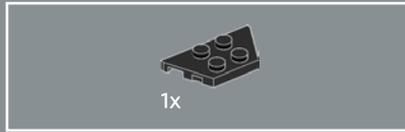
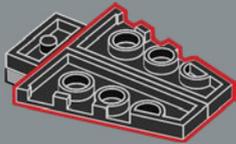




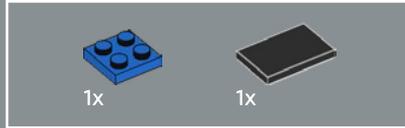
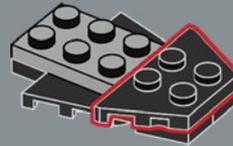
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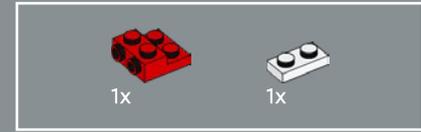
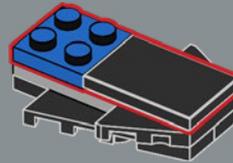
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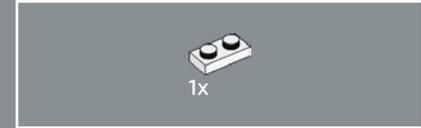
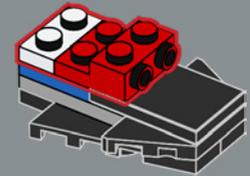
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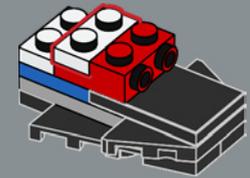
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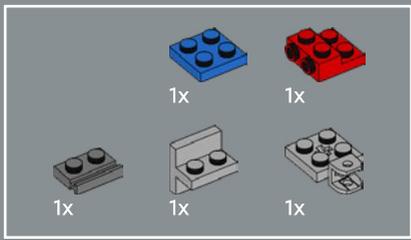


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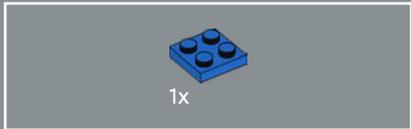
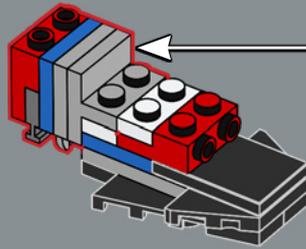
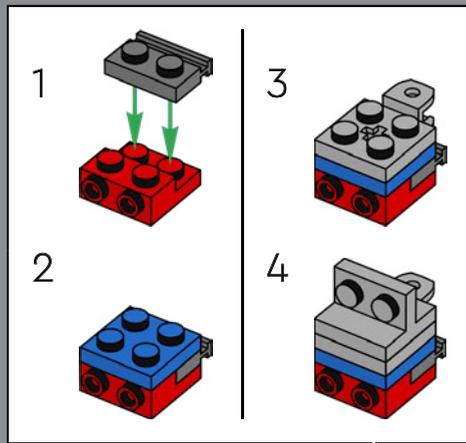


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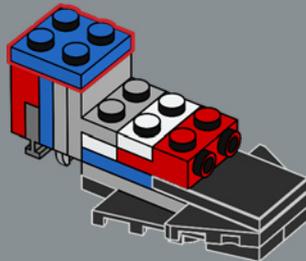




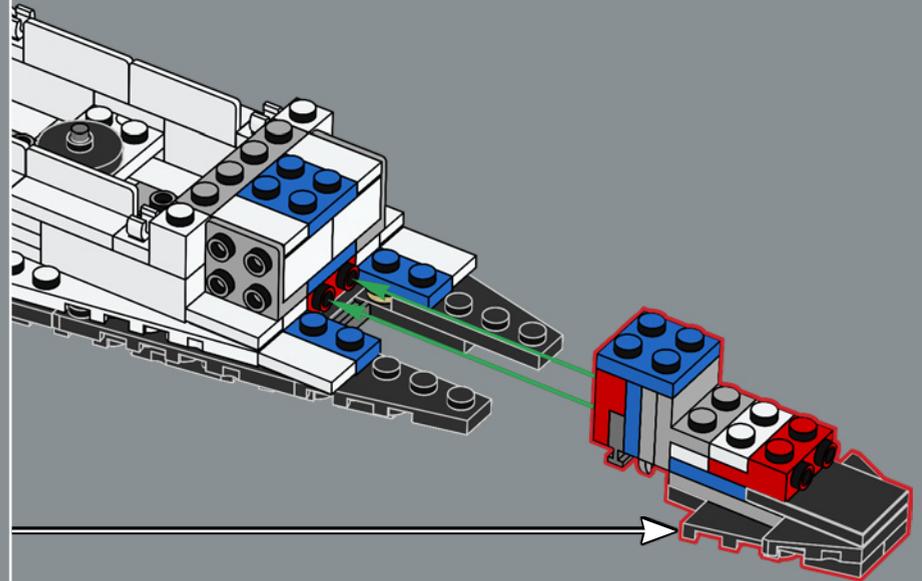
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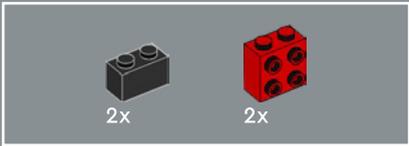


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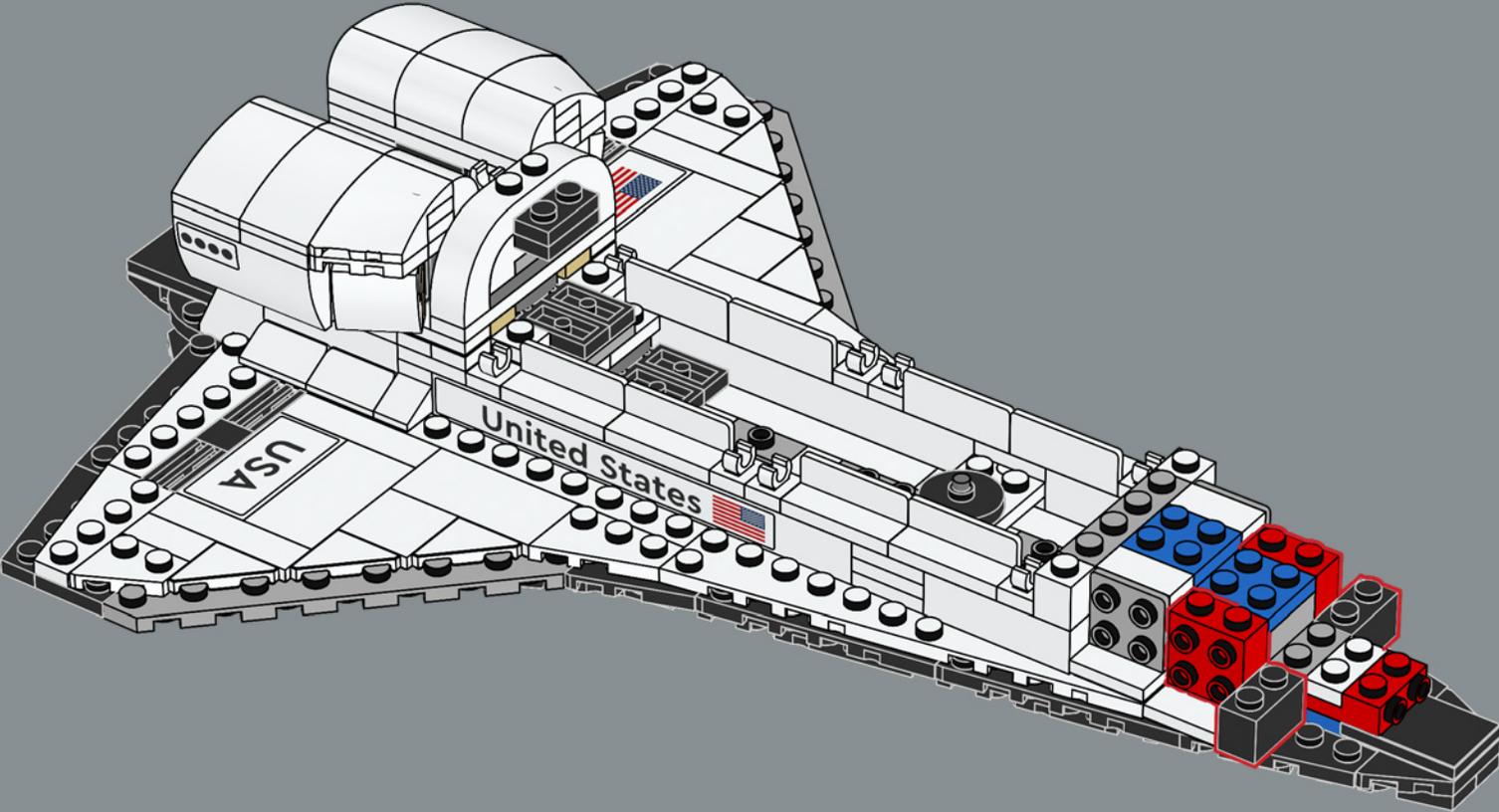


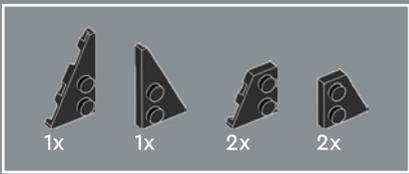
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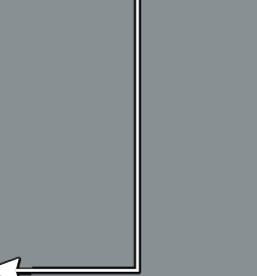
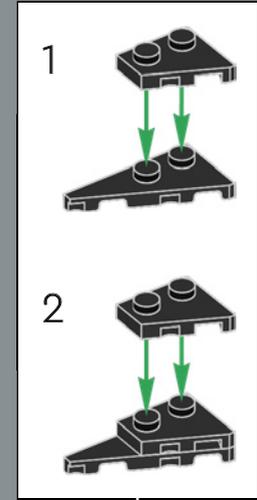
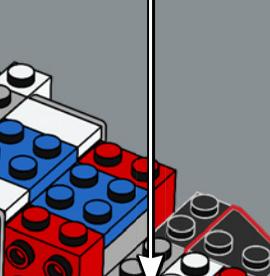
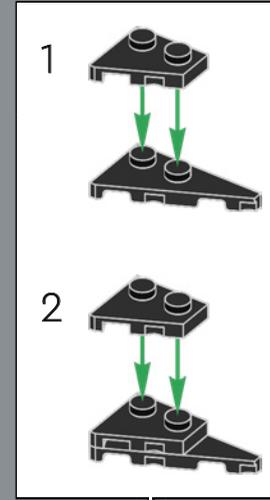
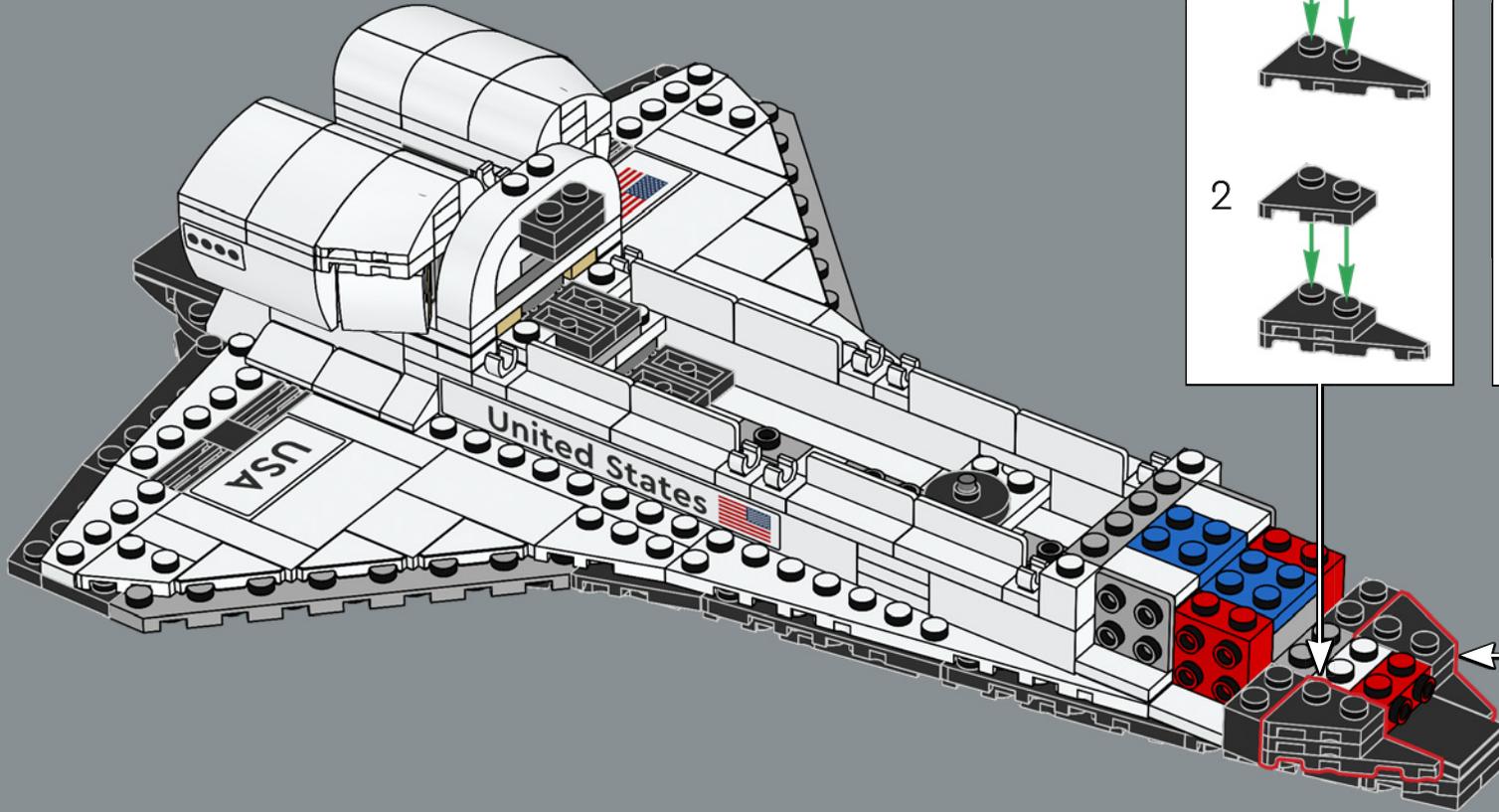


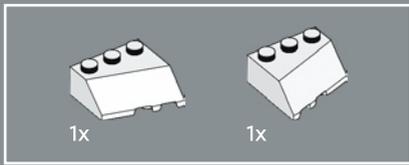
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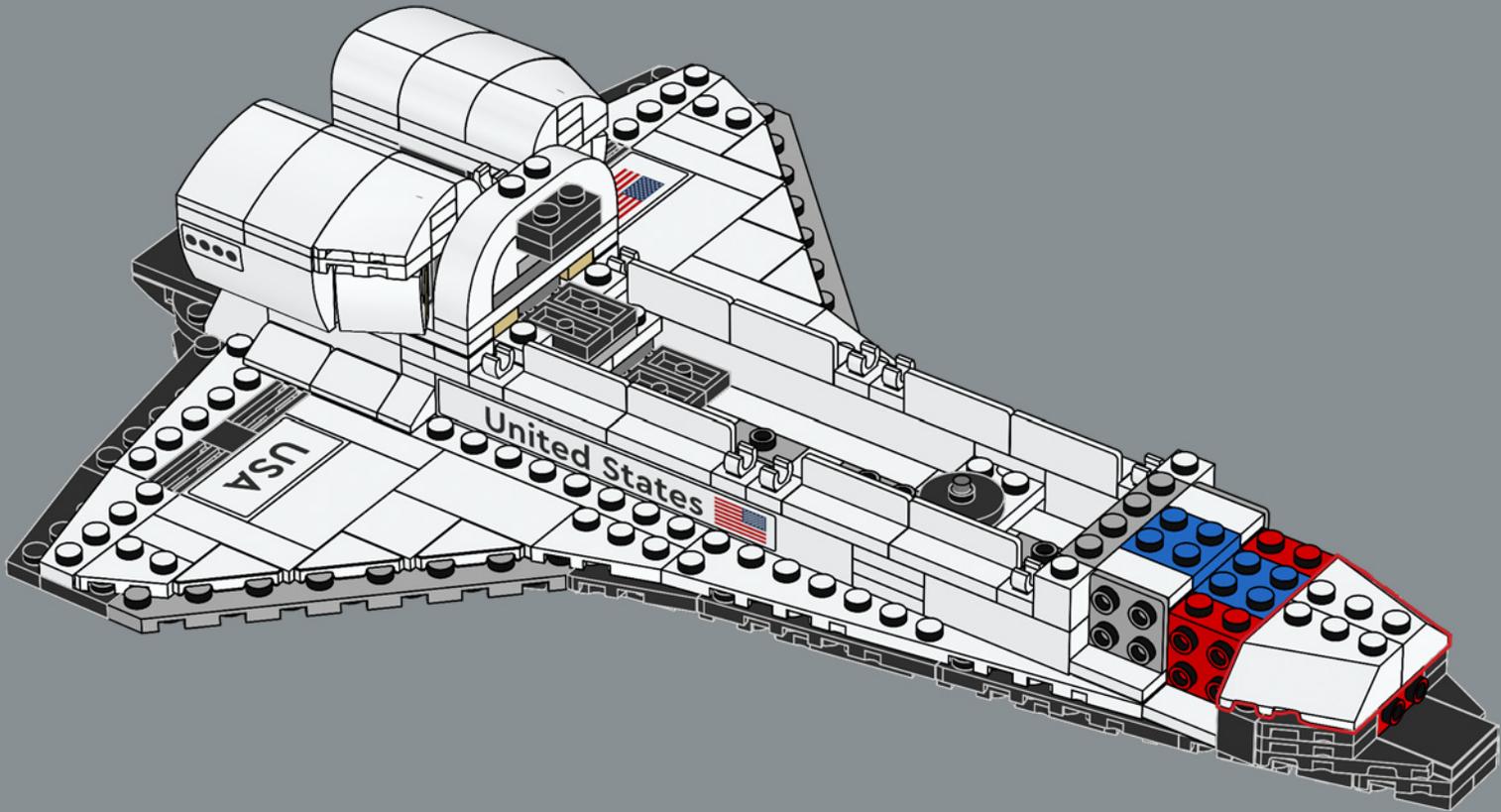


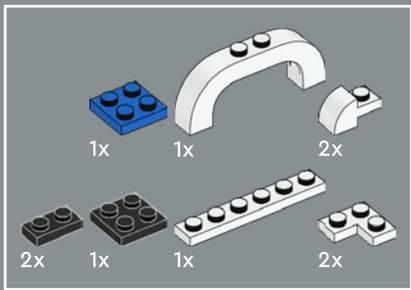
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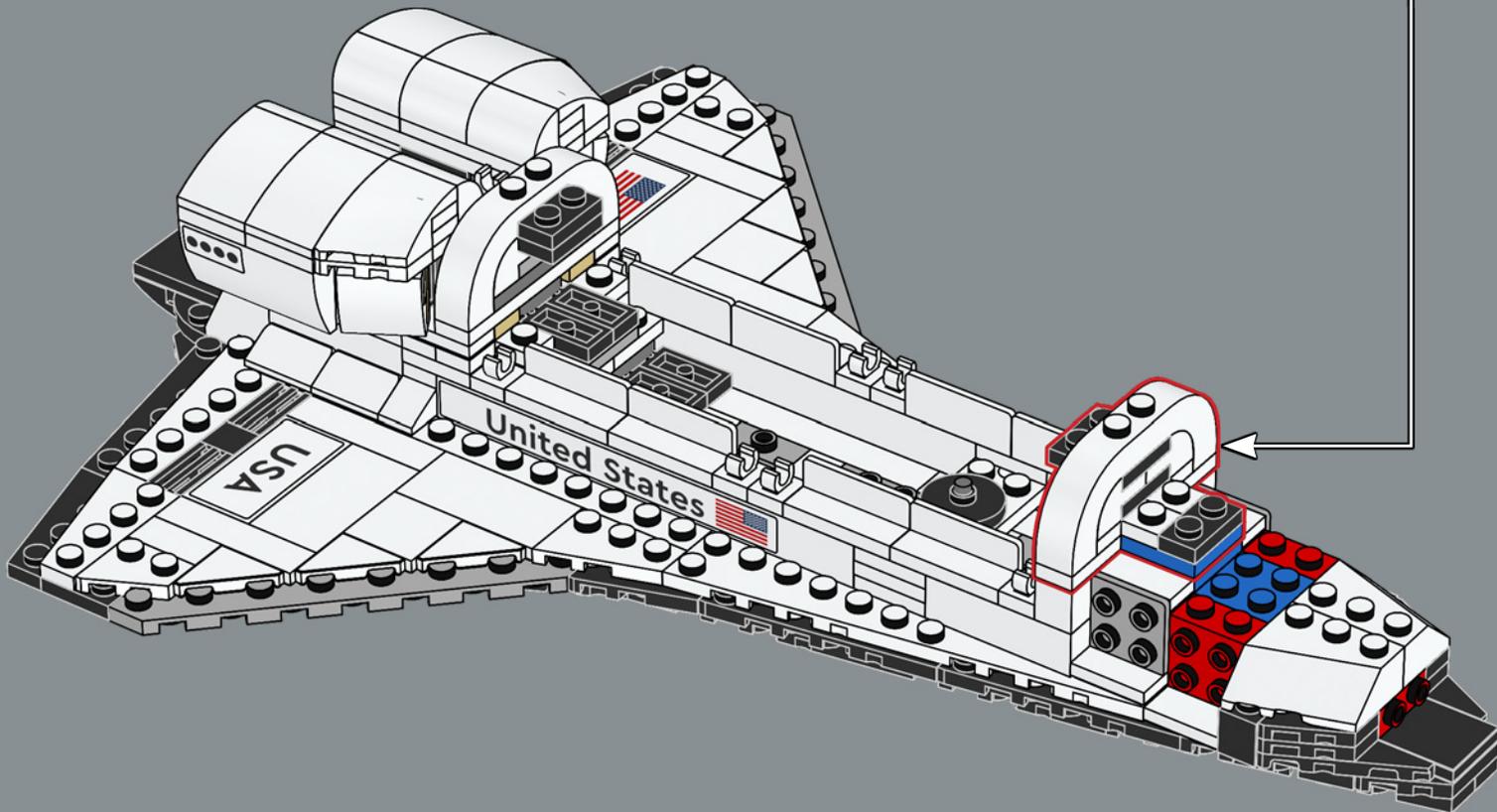
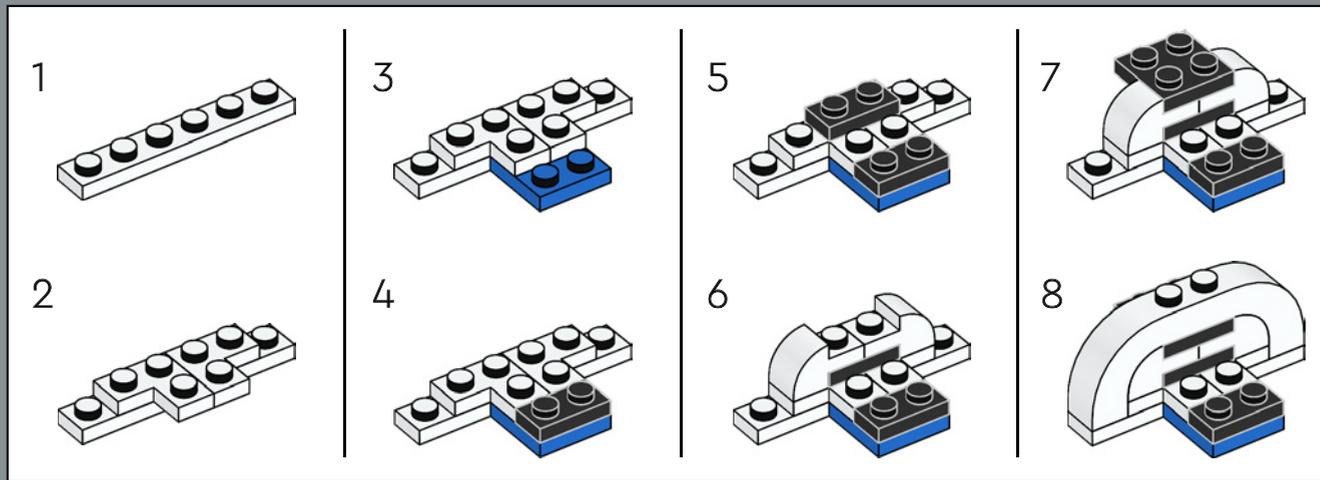


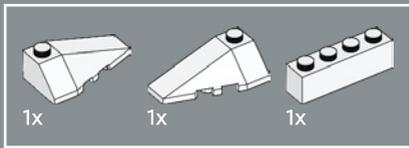
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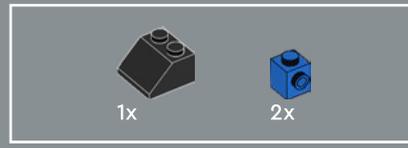
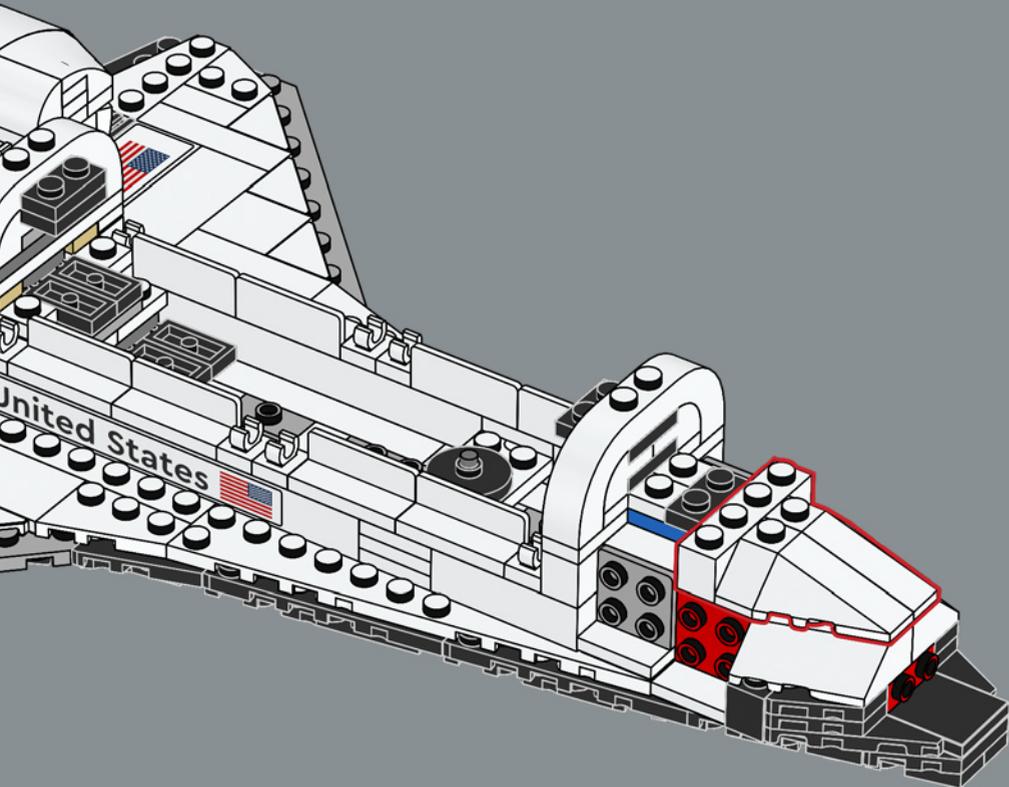


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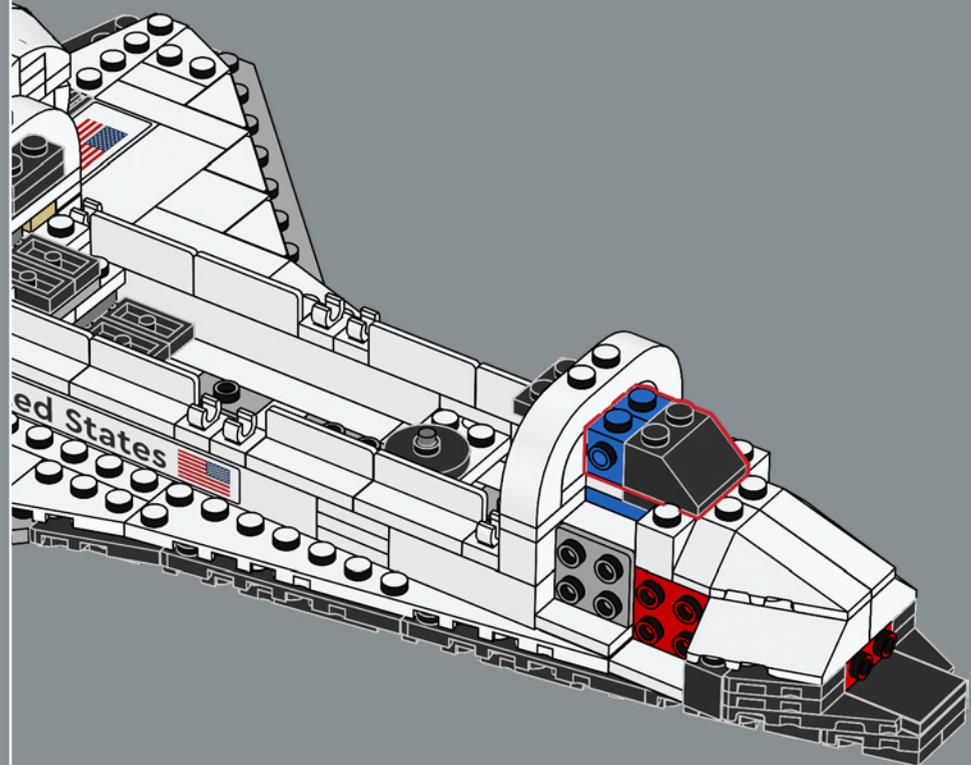


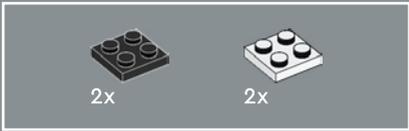


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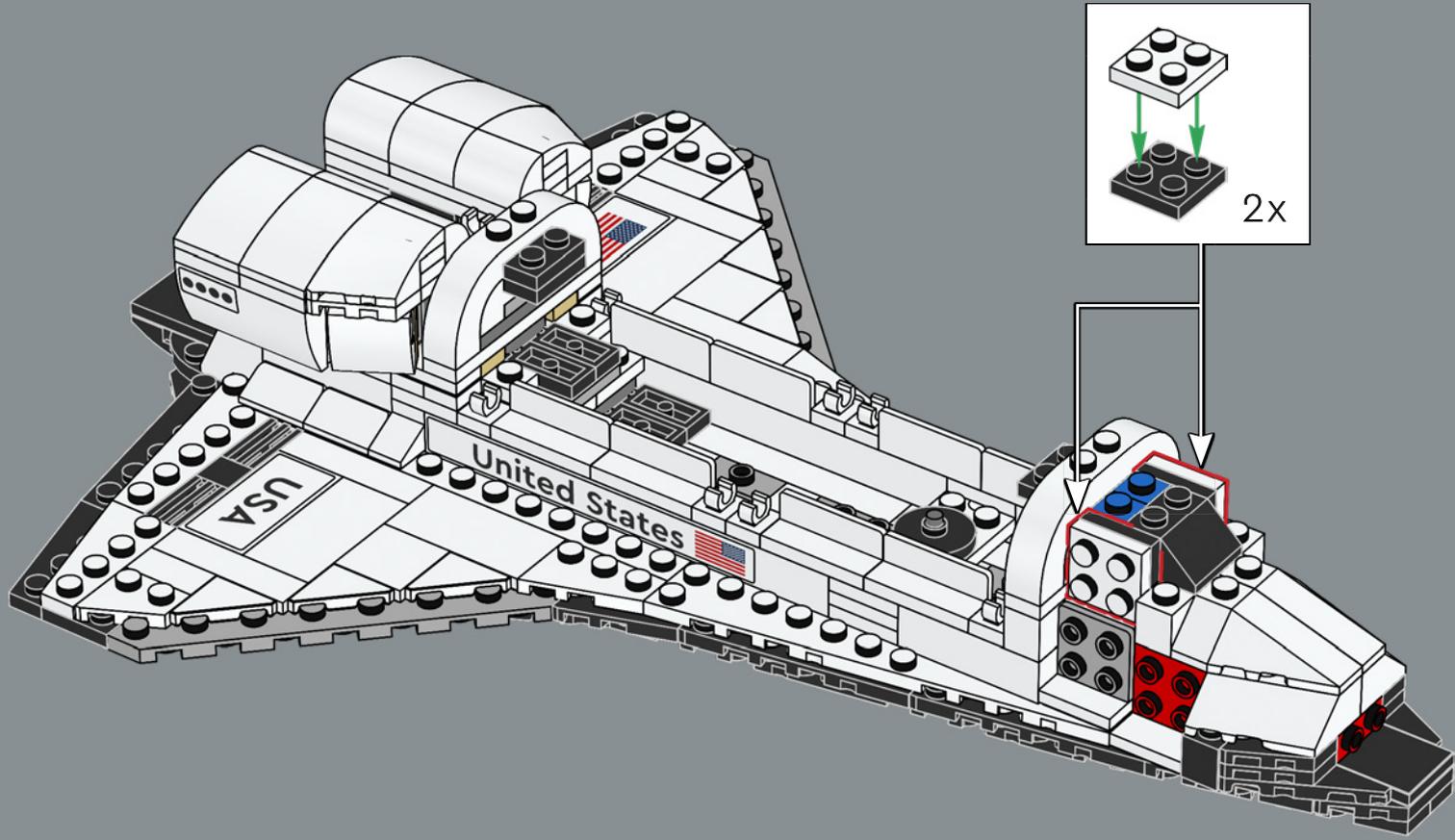


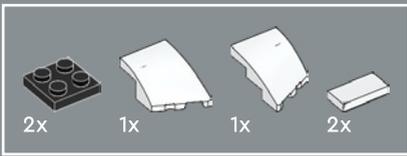
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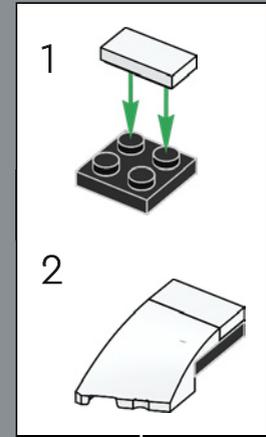
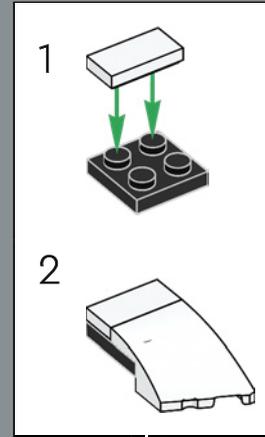
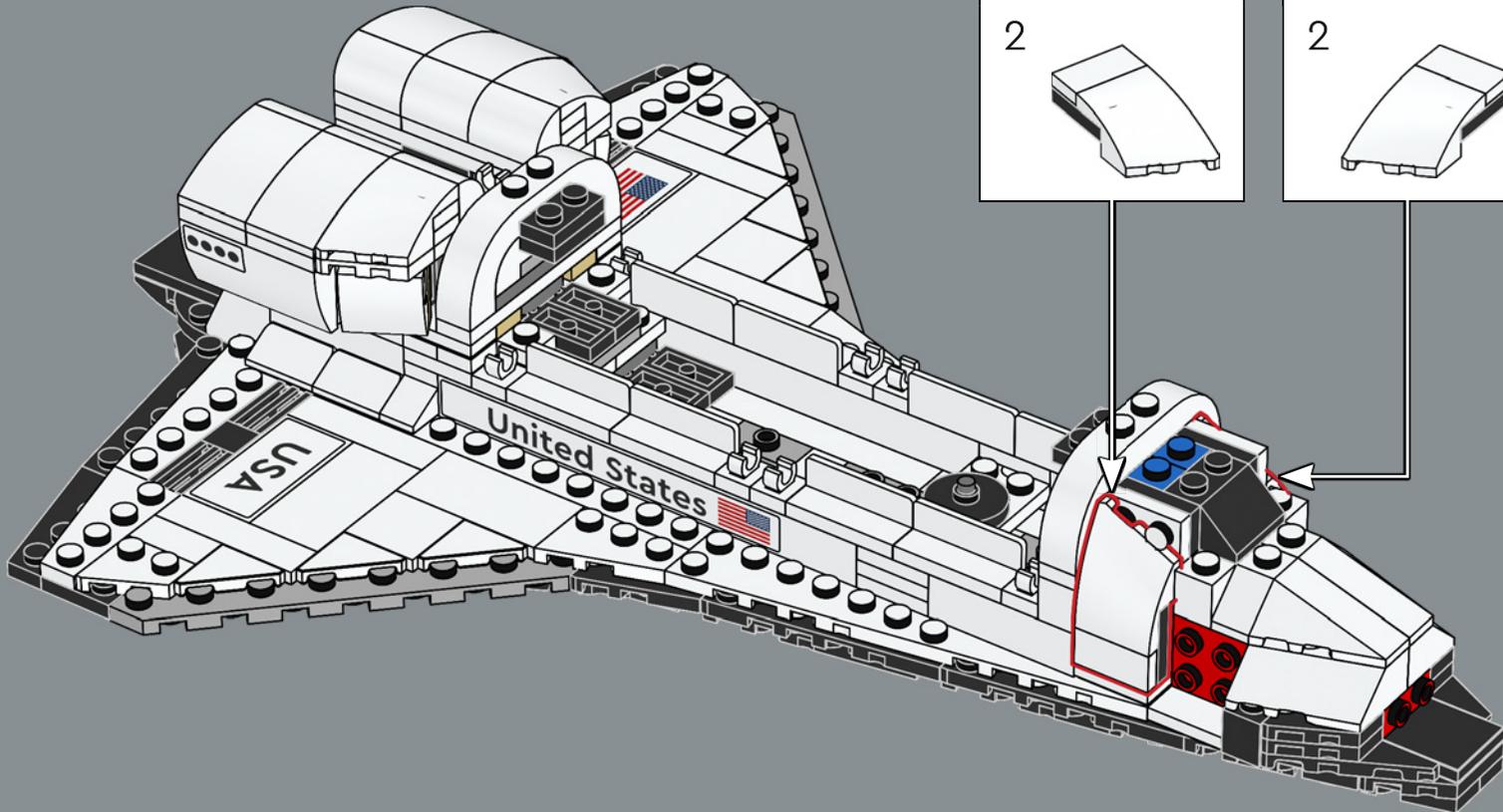


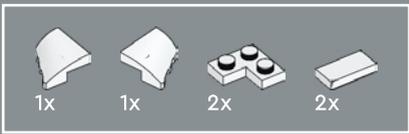
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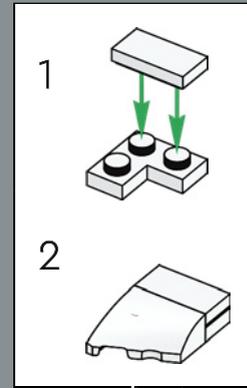
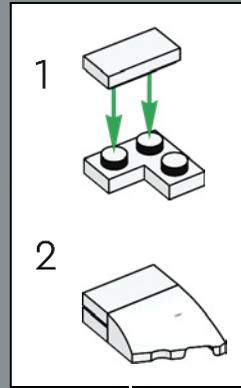
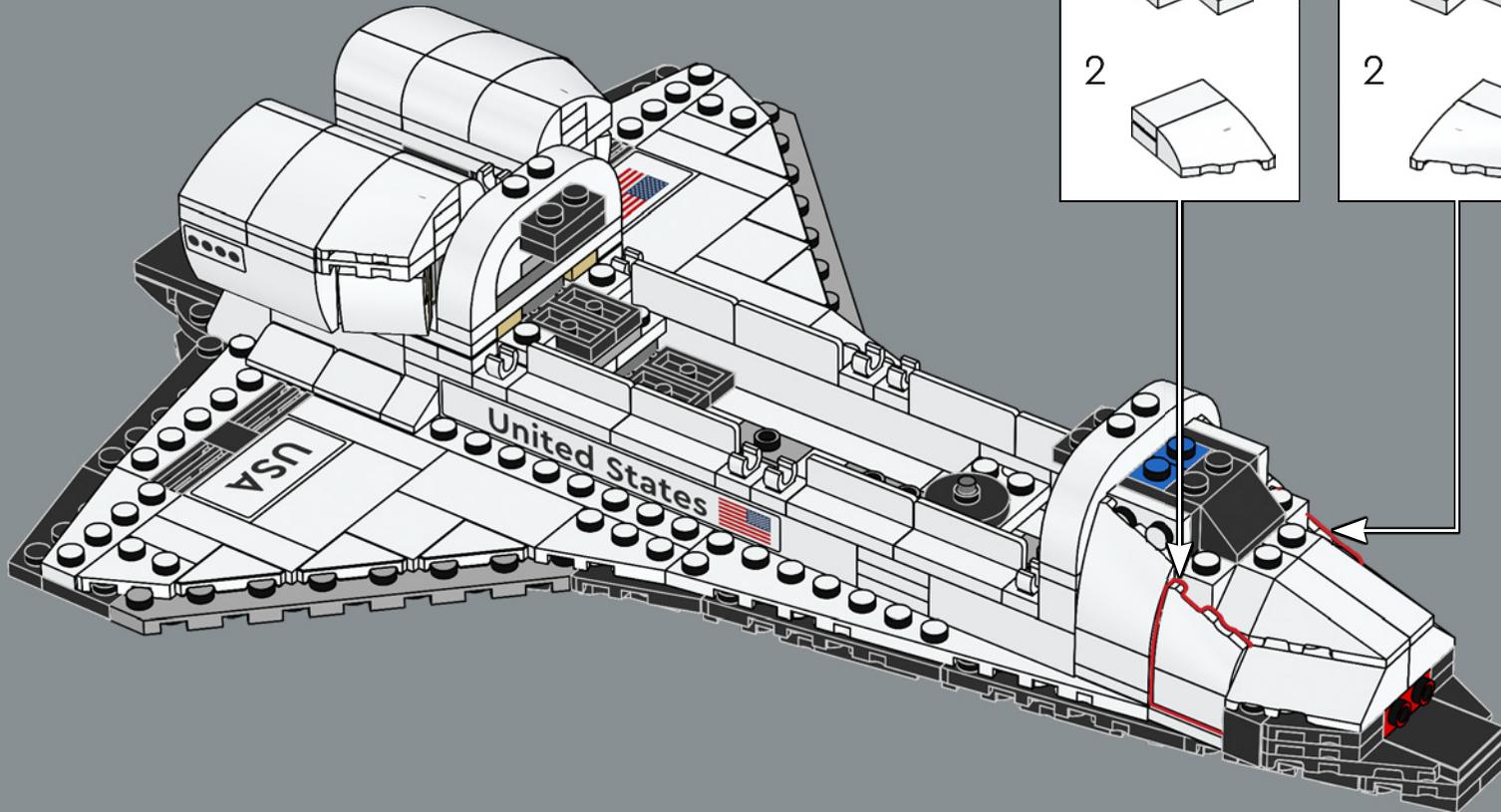


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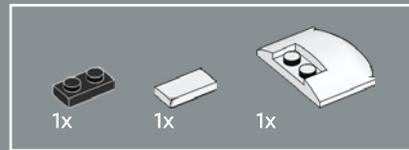
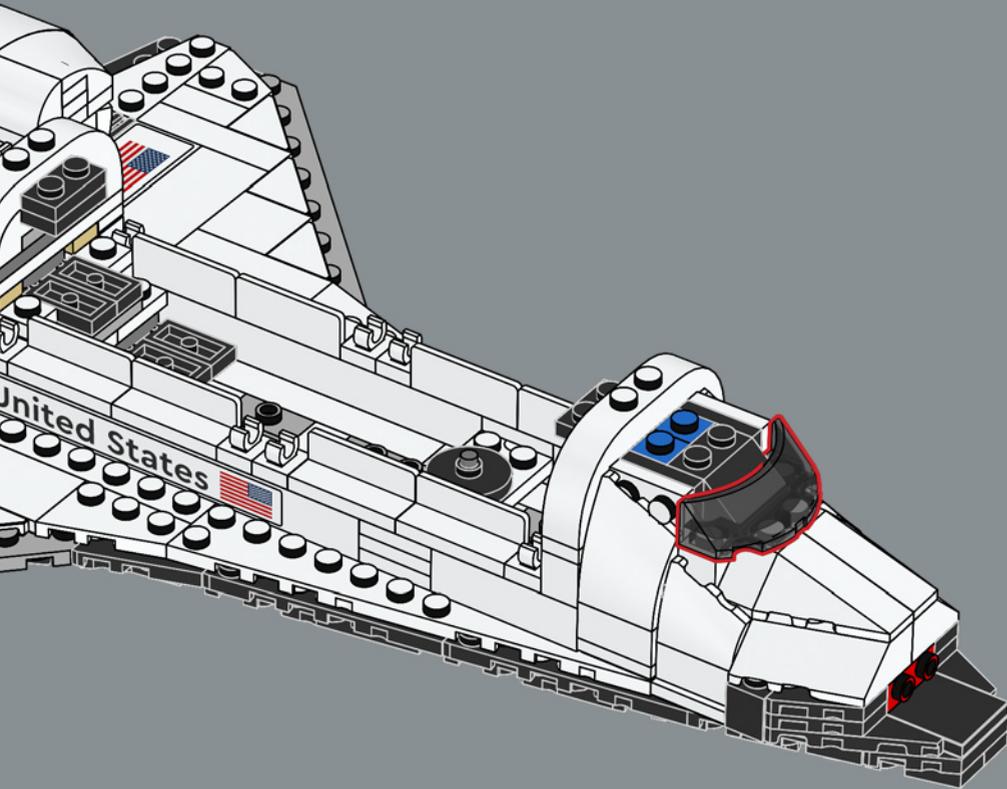


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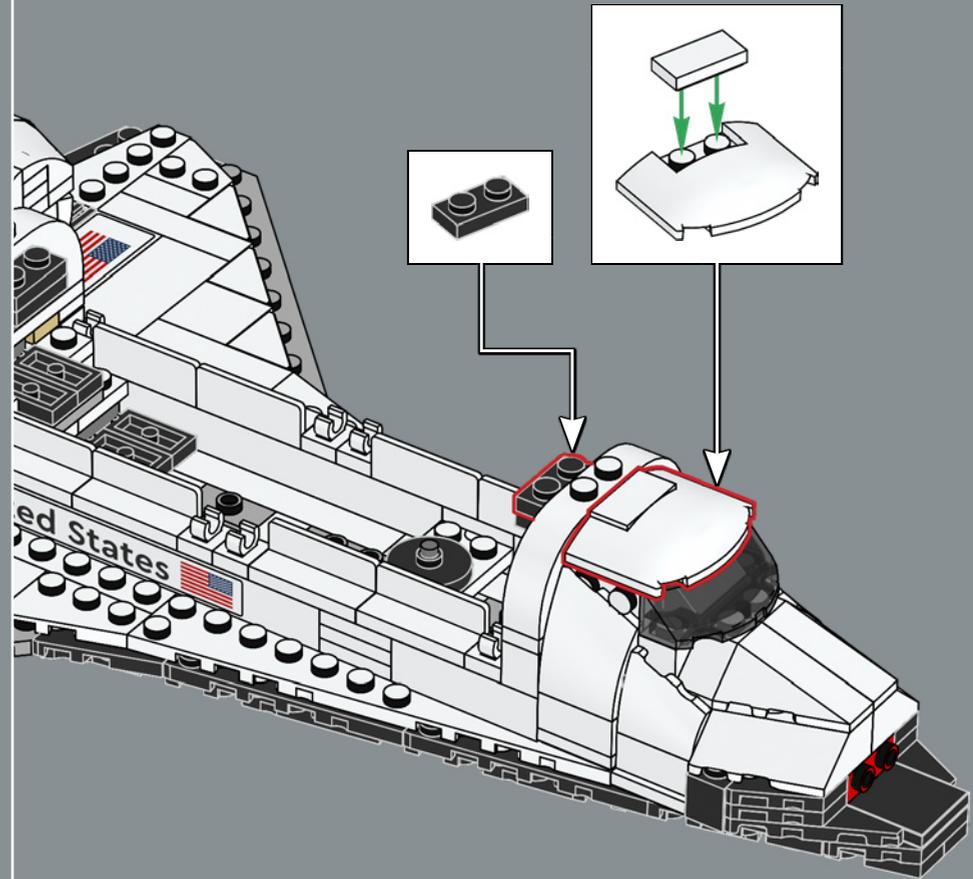




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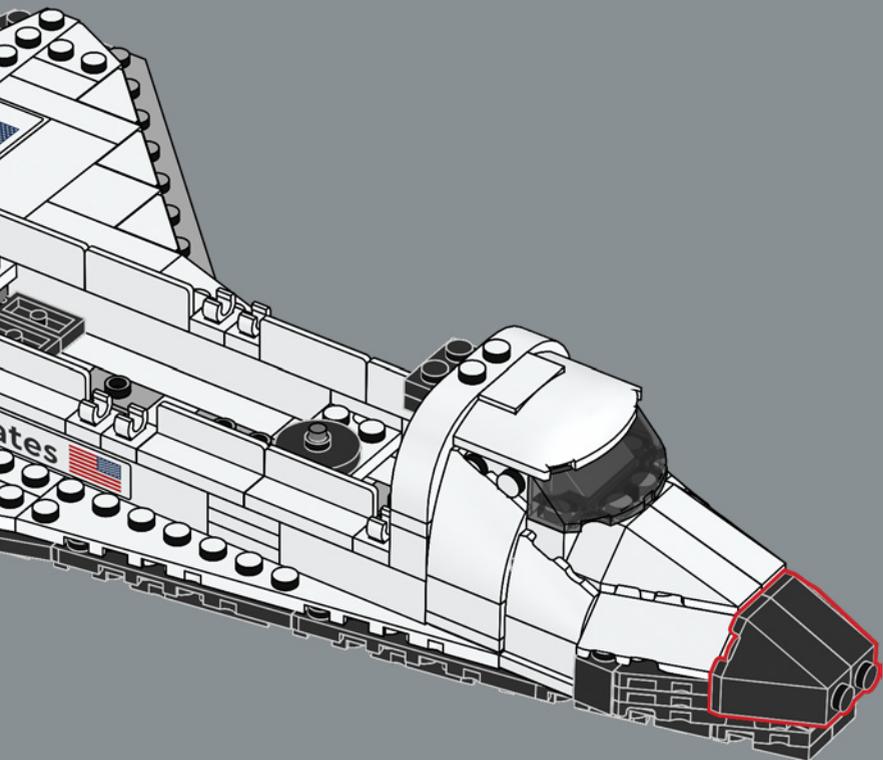


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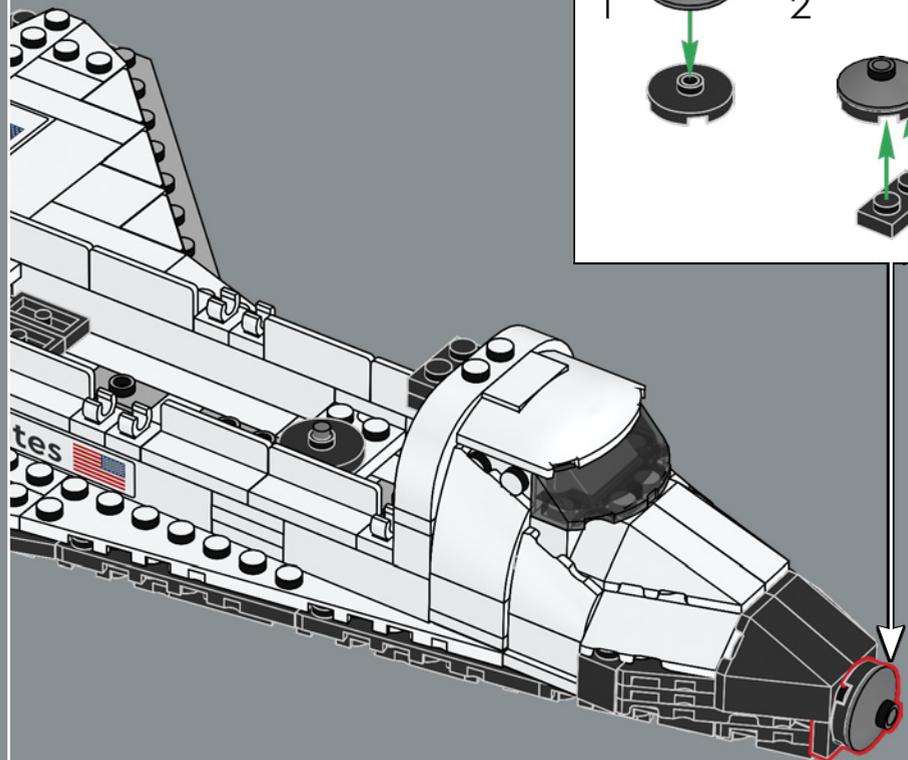


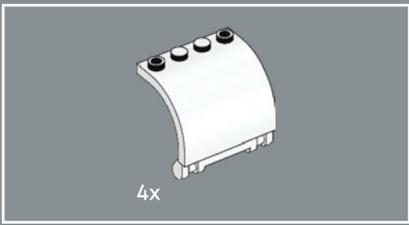


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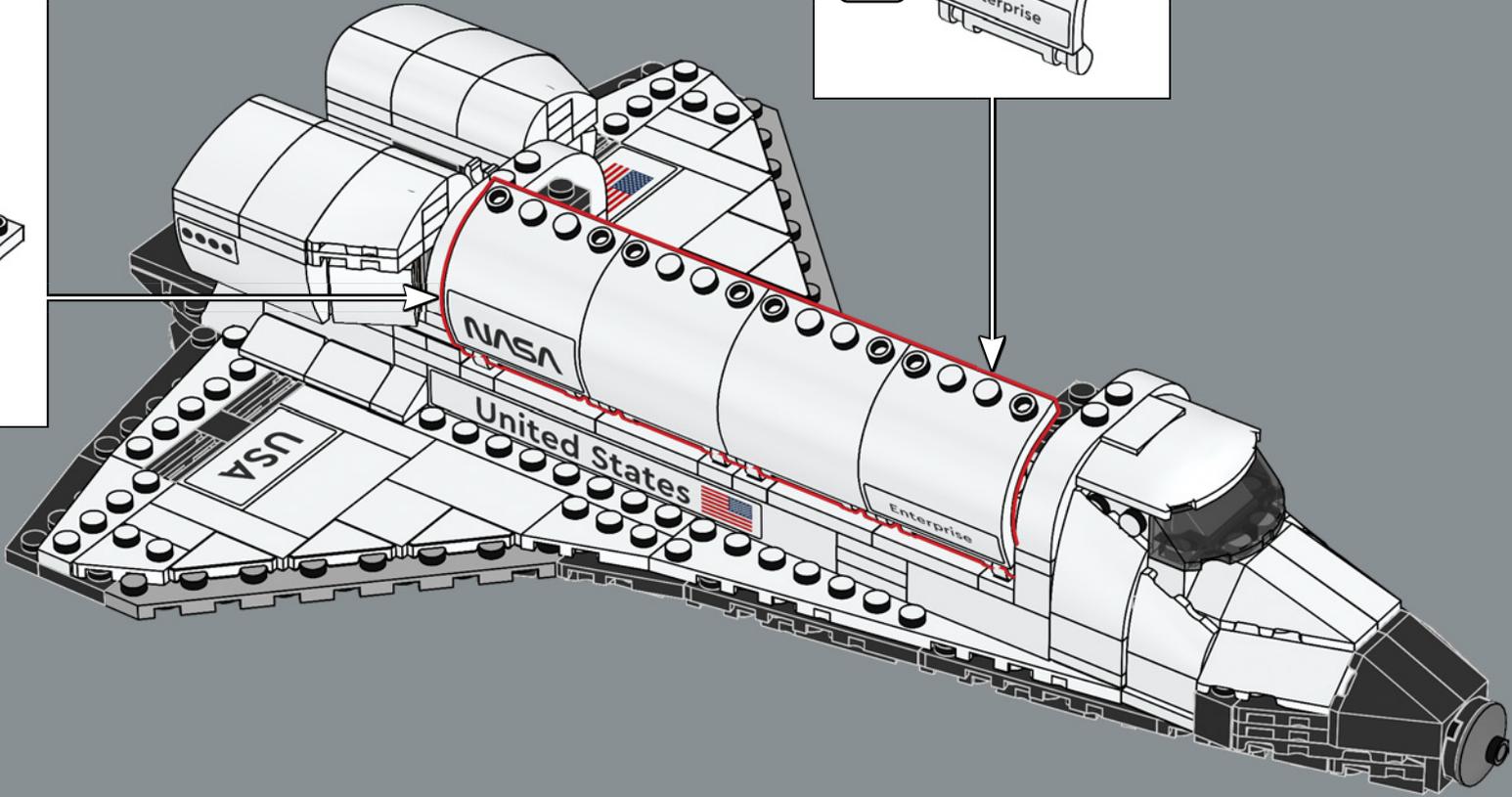
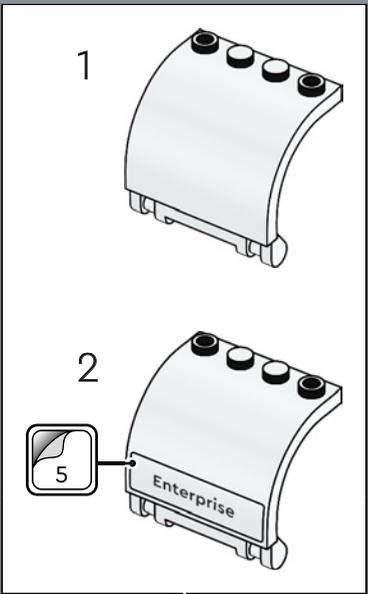
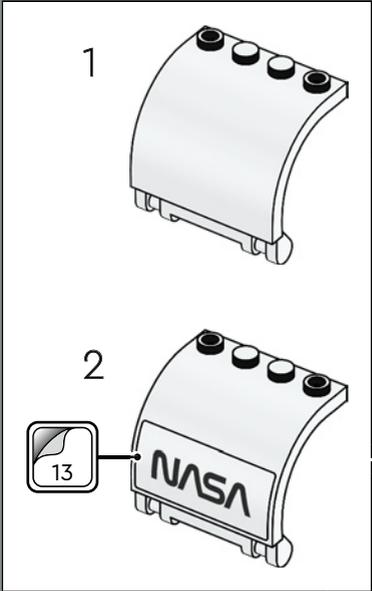


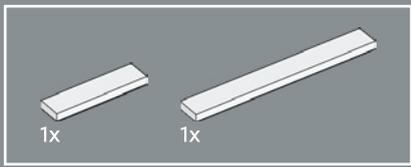
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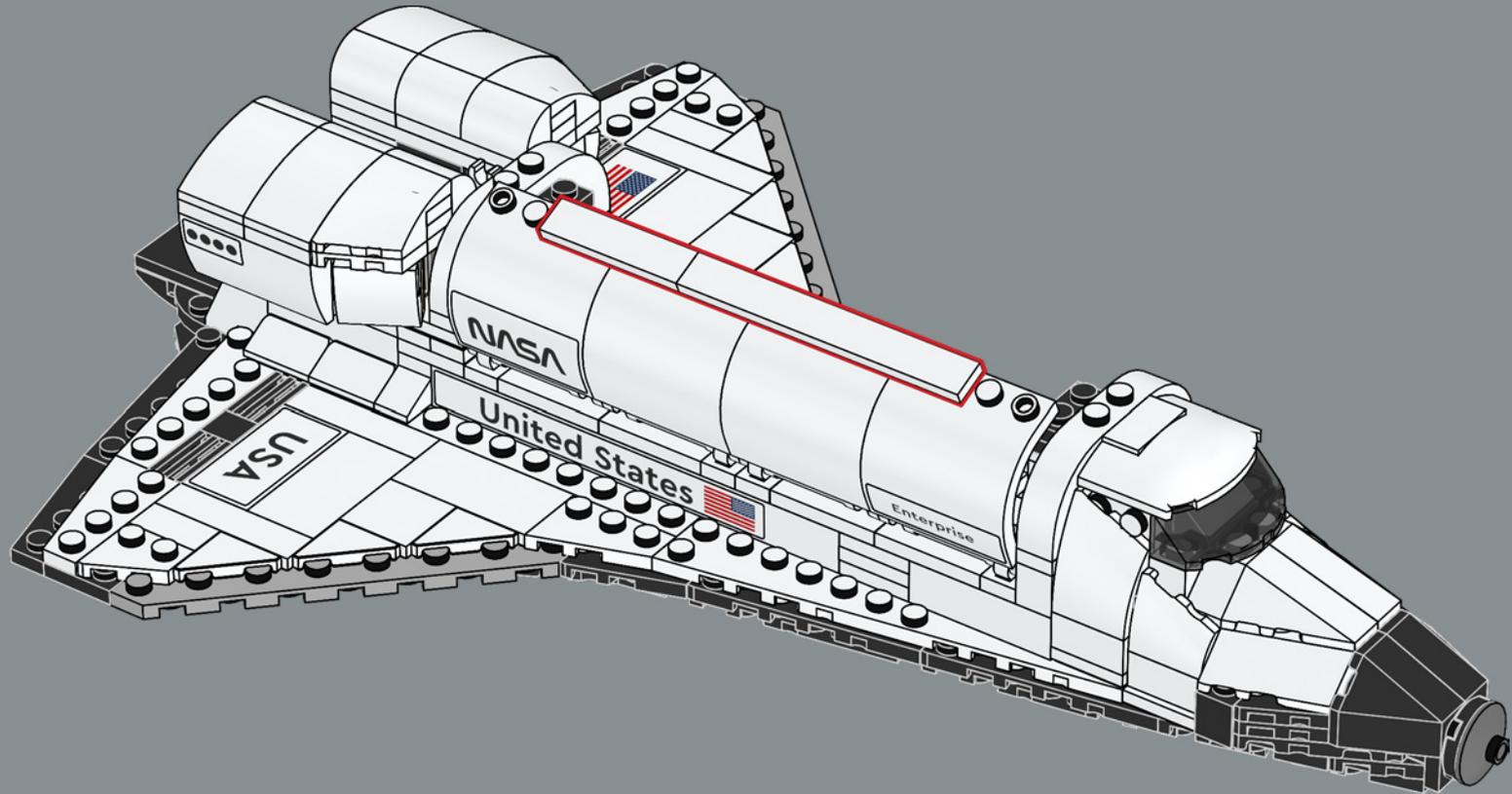


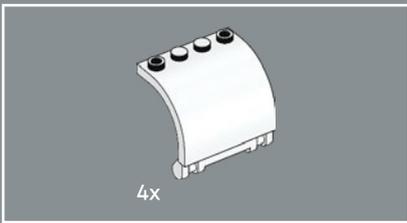
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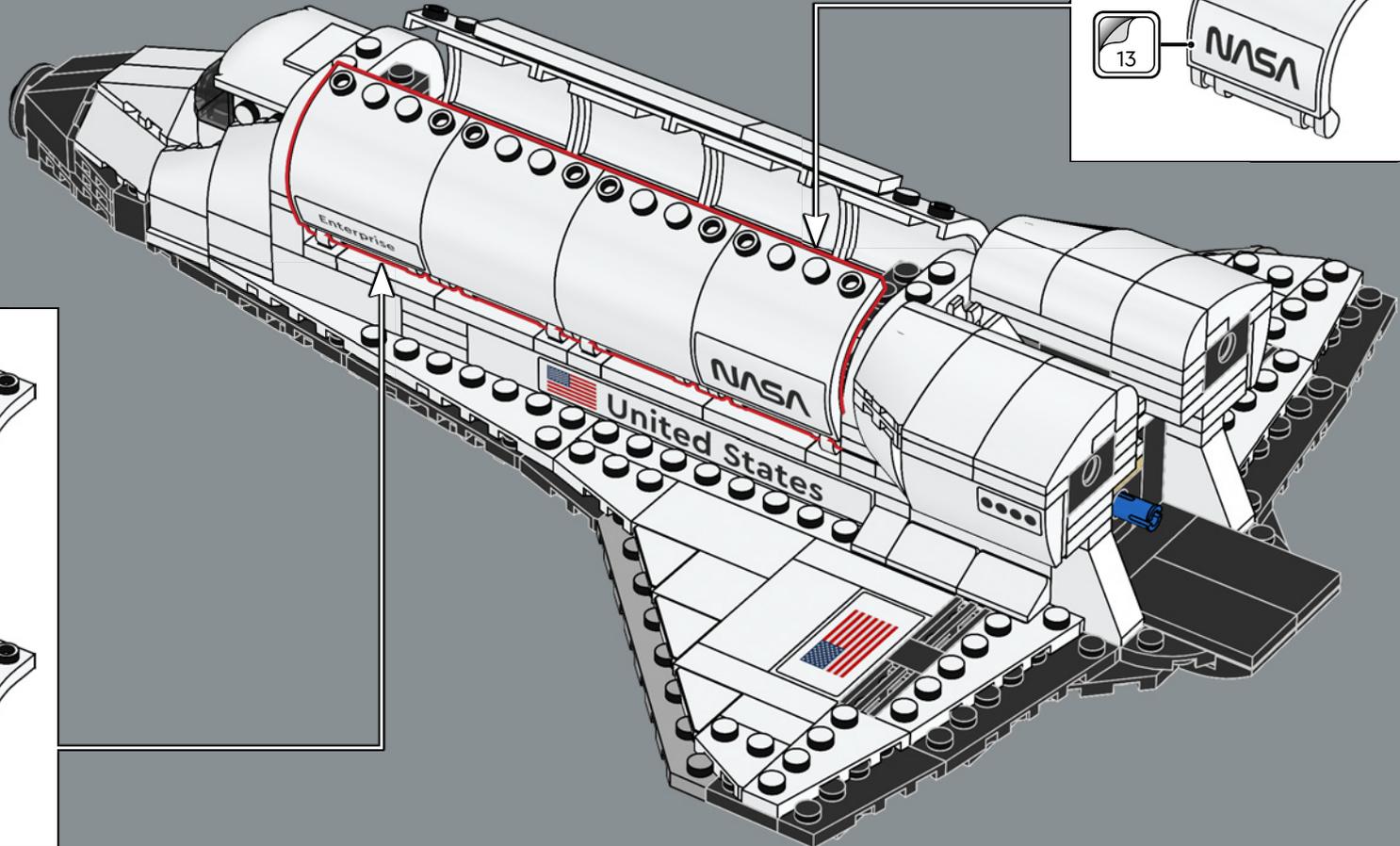
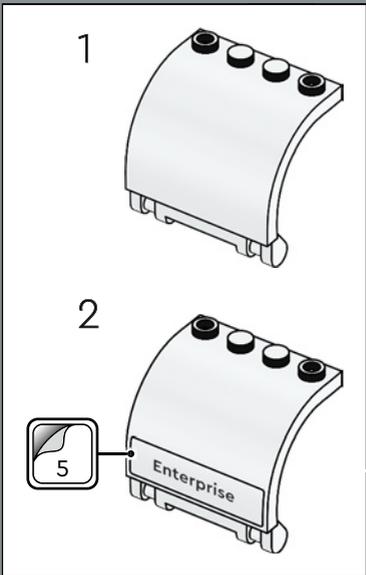
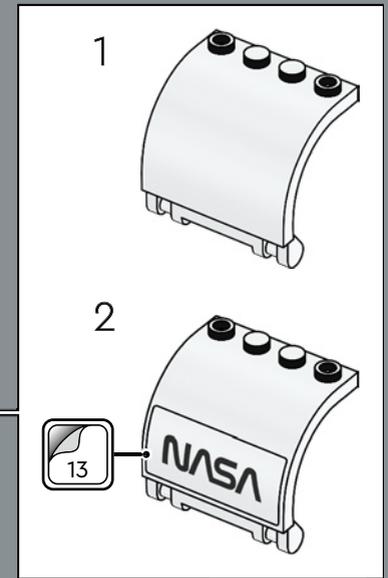


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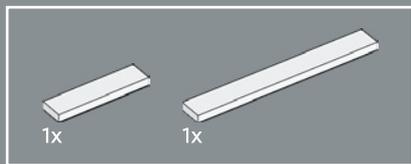




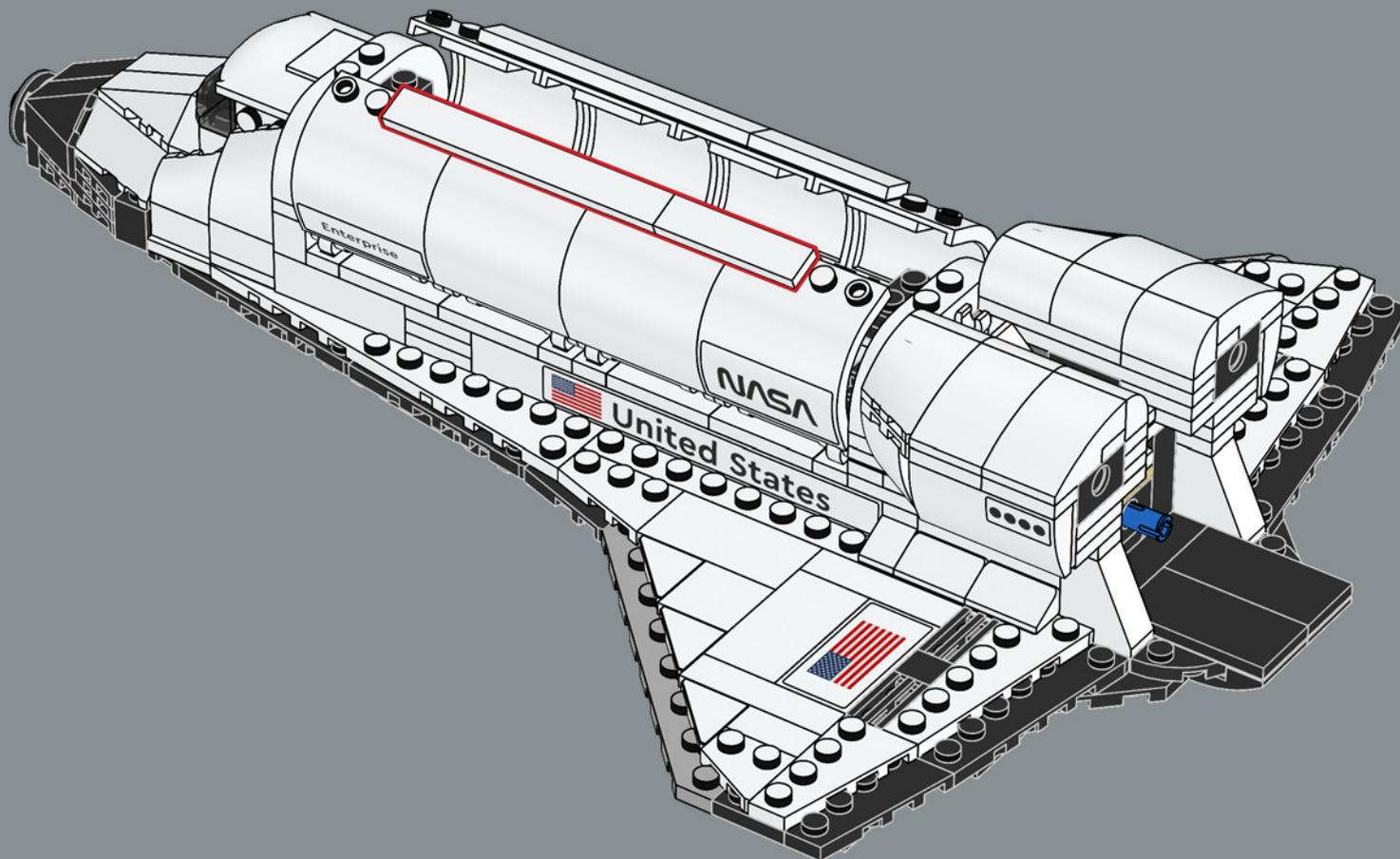
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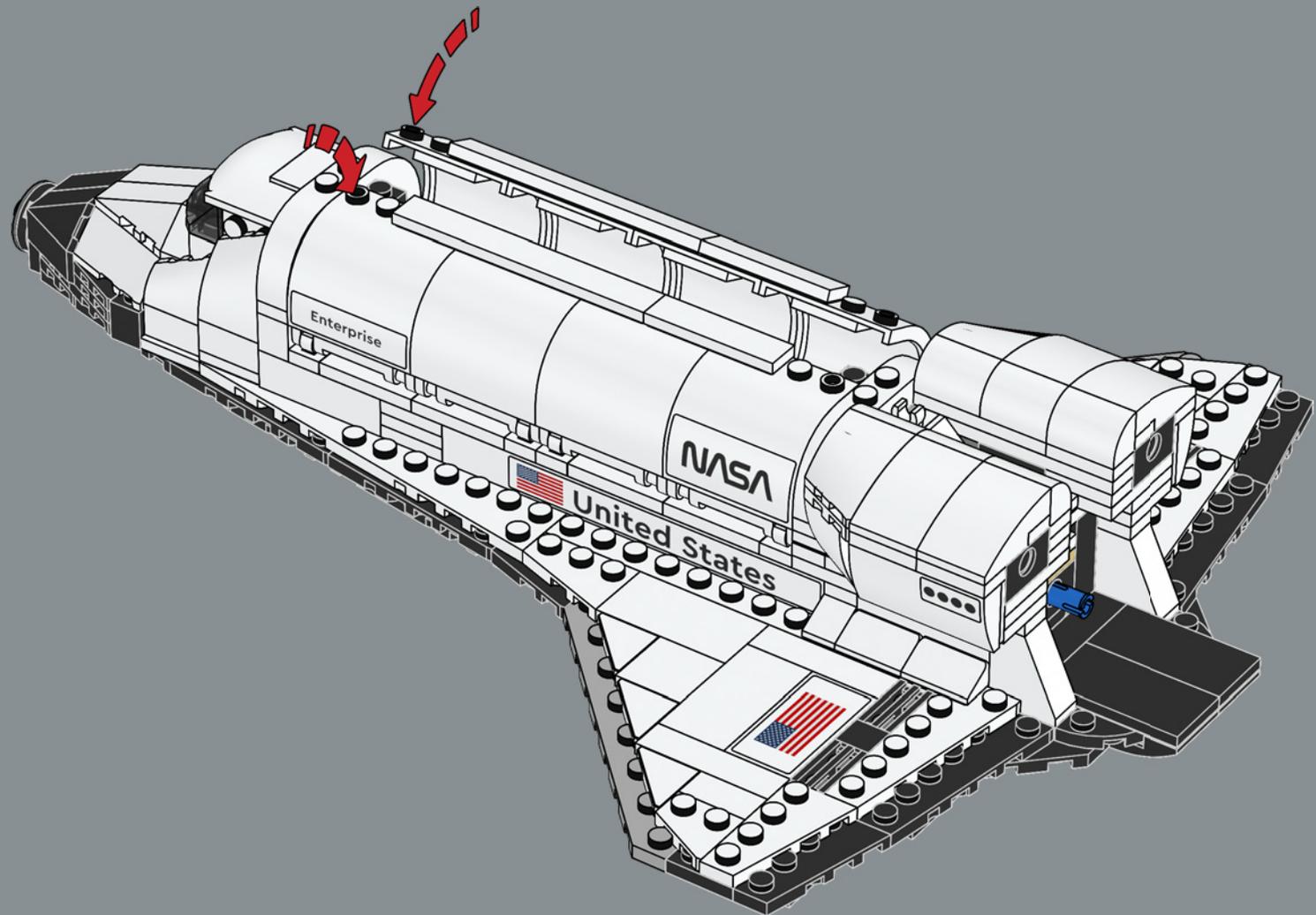


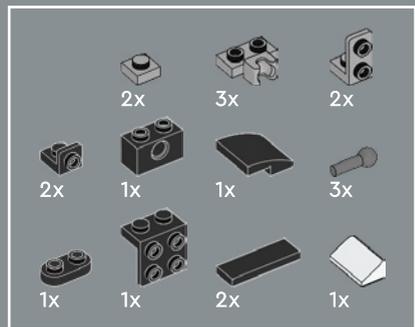
企业号最初被命名为宪法，但科幻迷的写信活动说服了美国政府将其重命名！



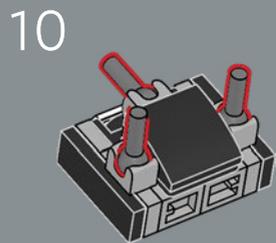
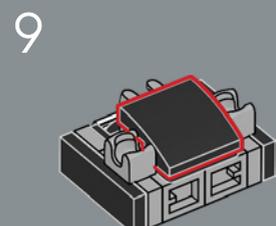
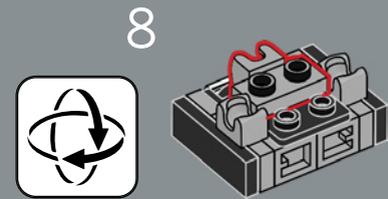
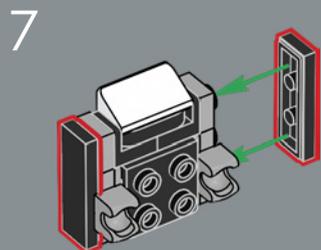
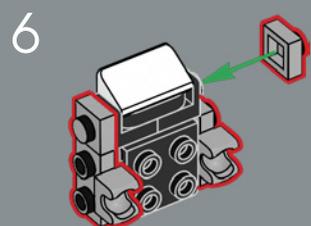
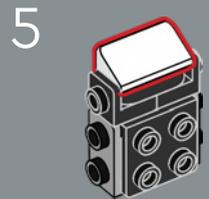
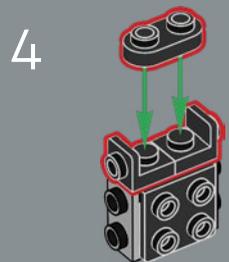
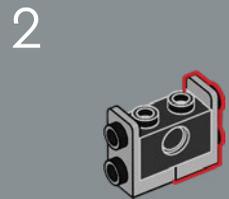
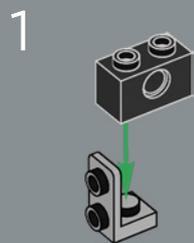
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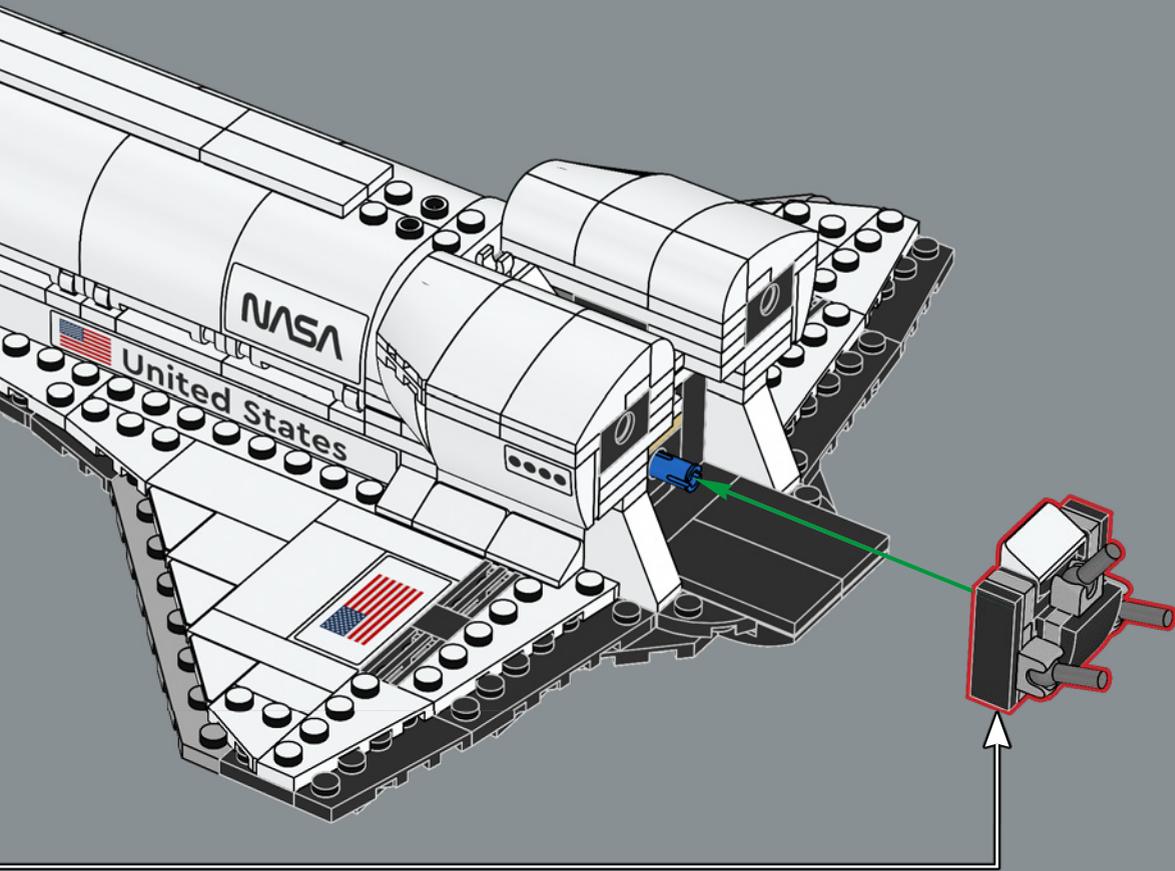




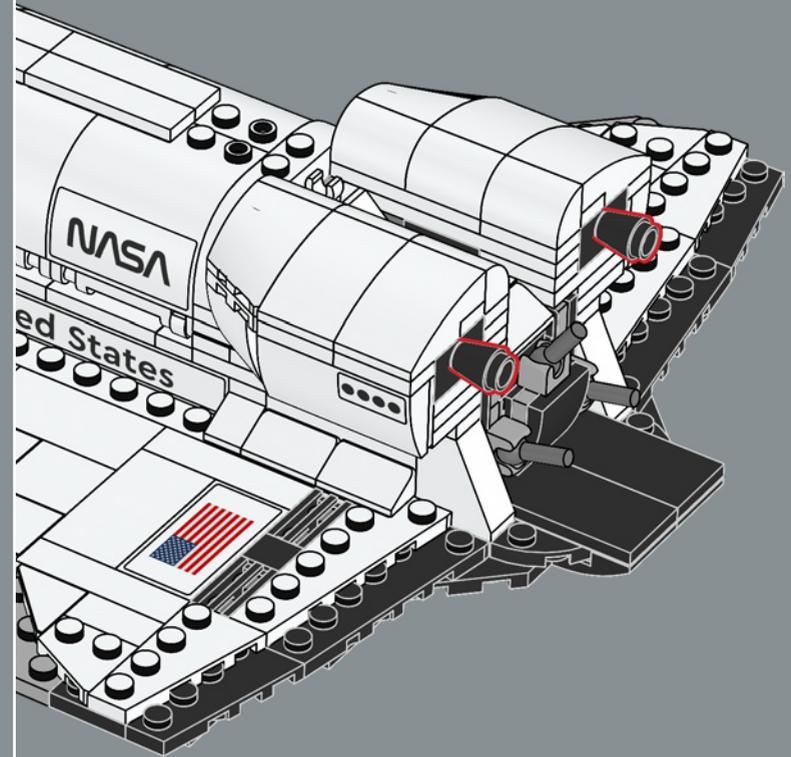


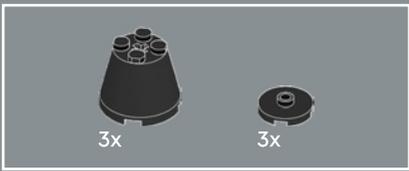
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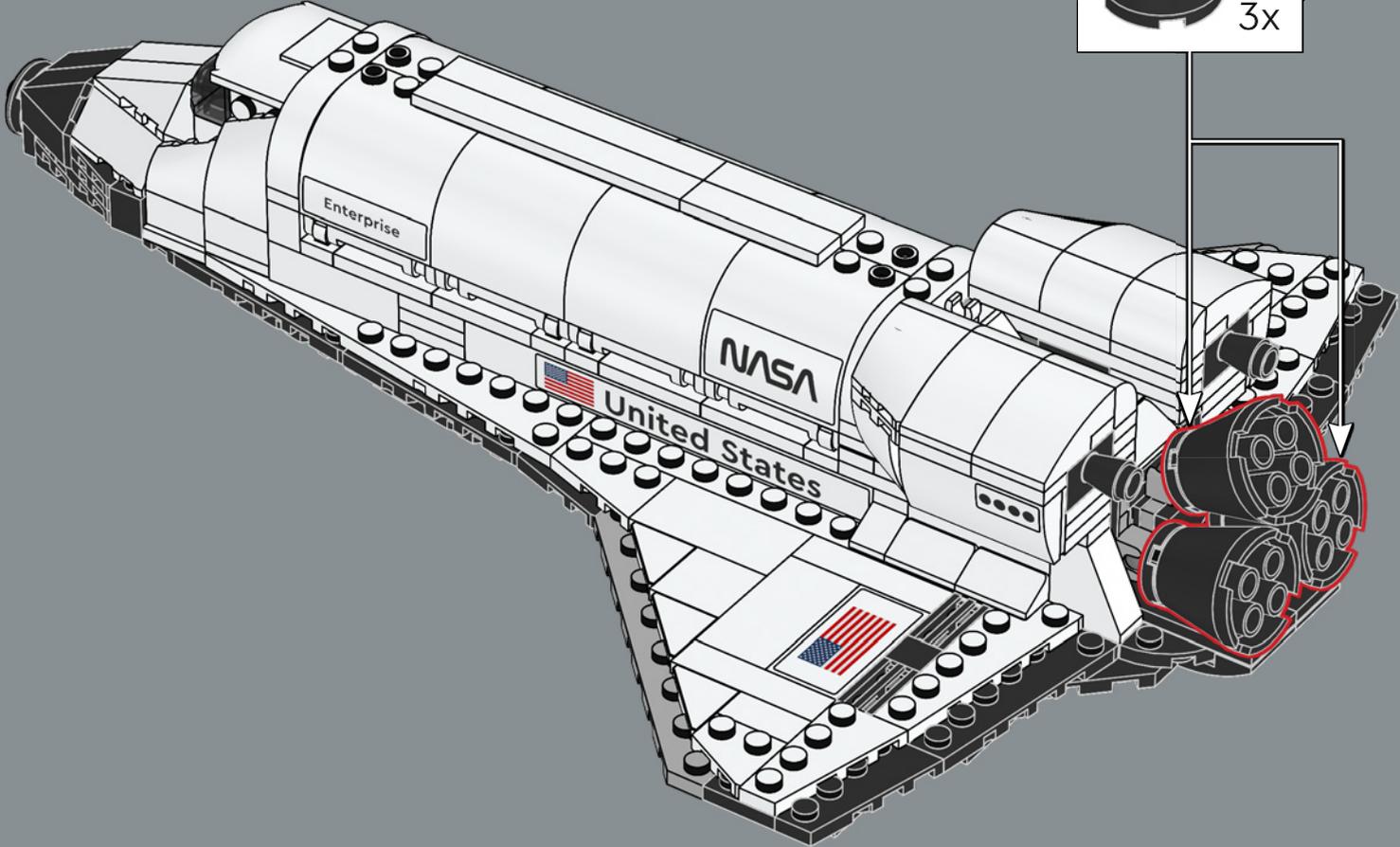
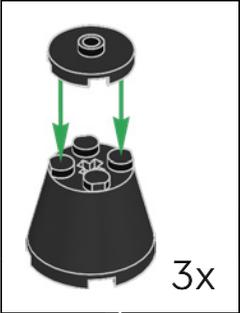


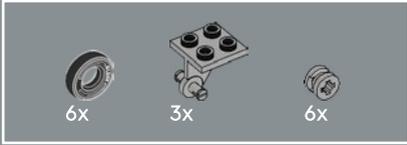
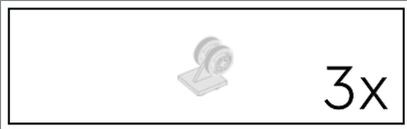
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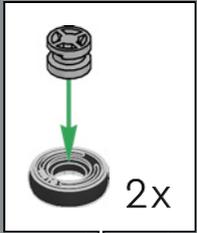
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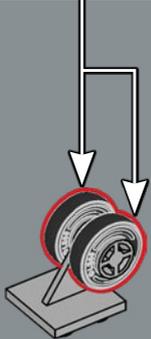


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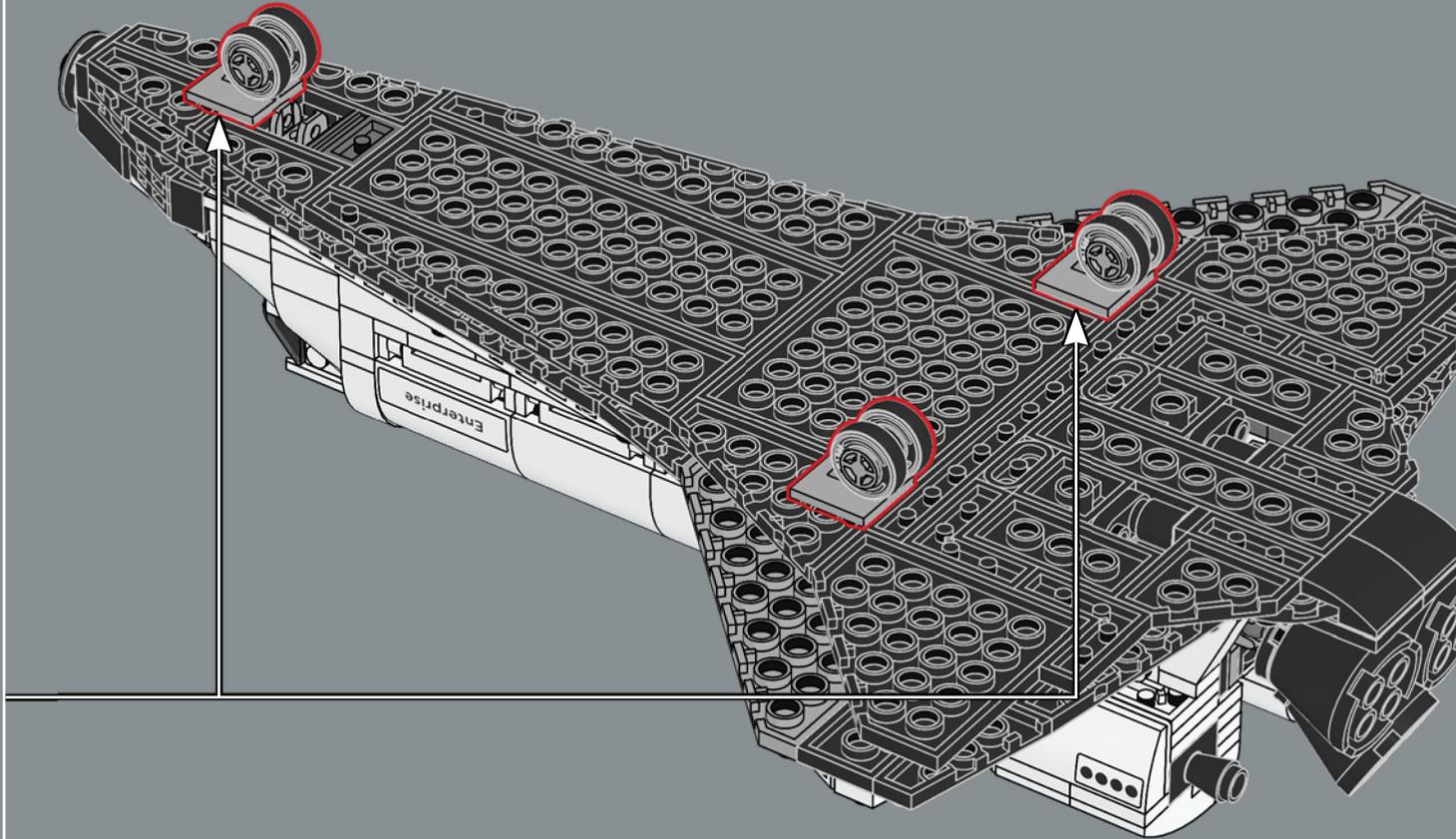
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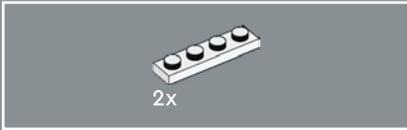
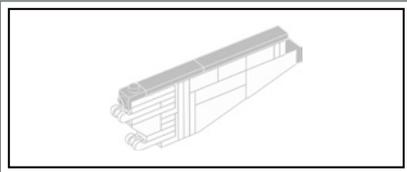


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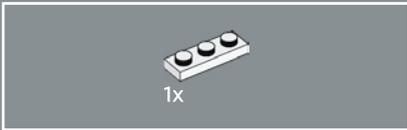
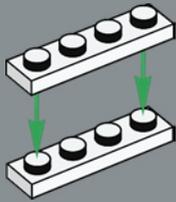


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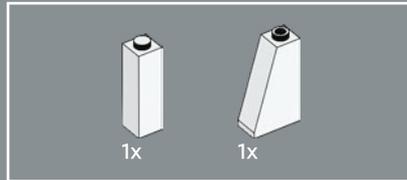
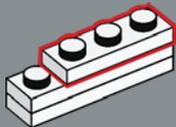




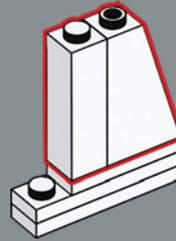
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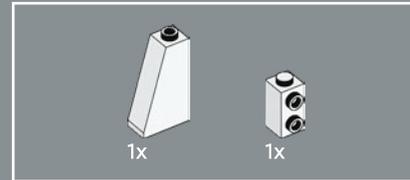
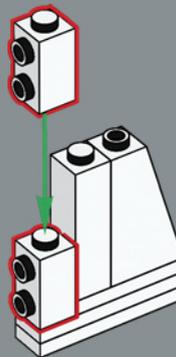
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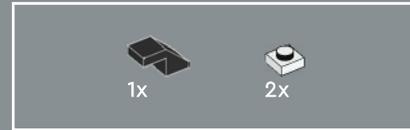
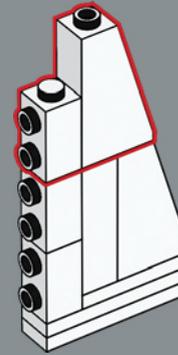
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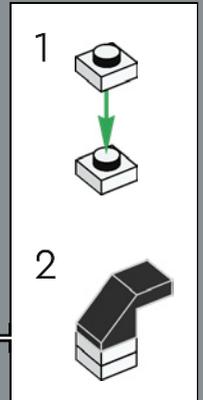
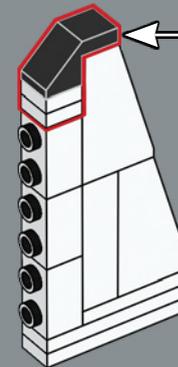
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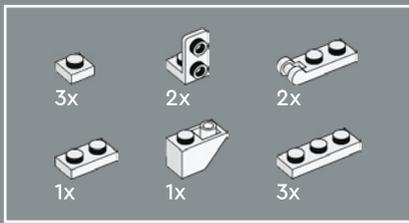


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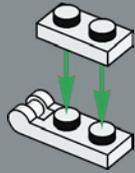
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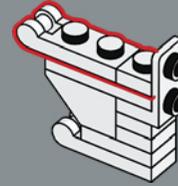
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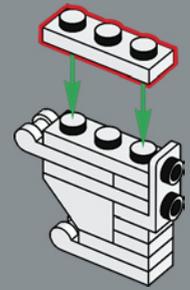
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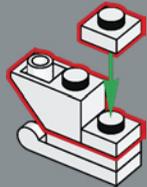
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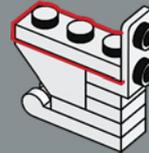
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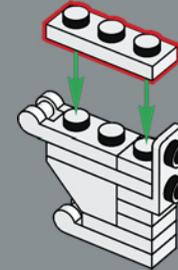
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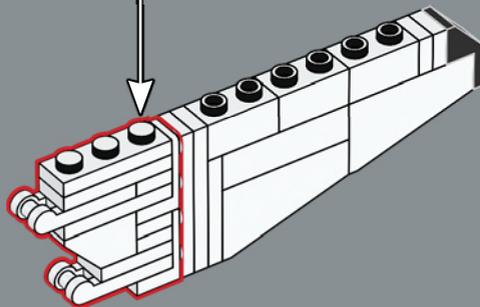
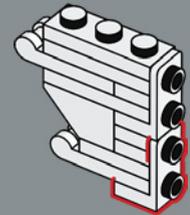
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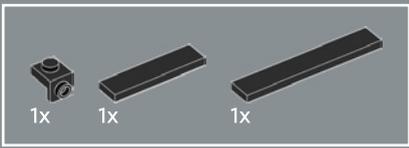


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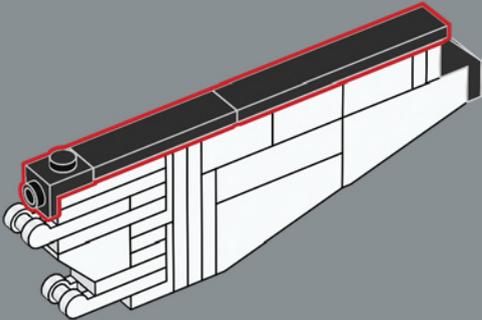


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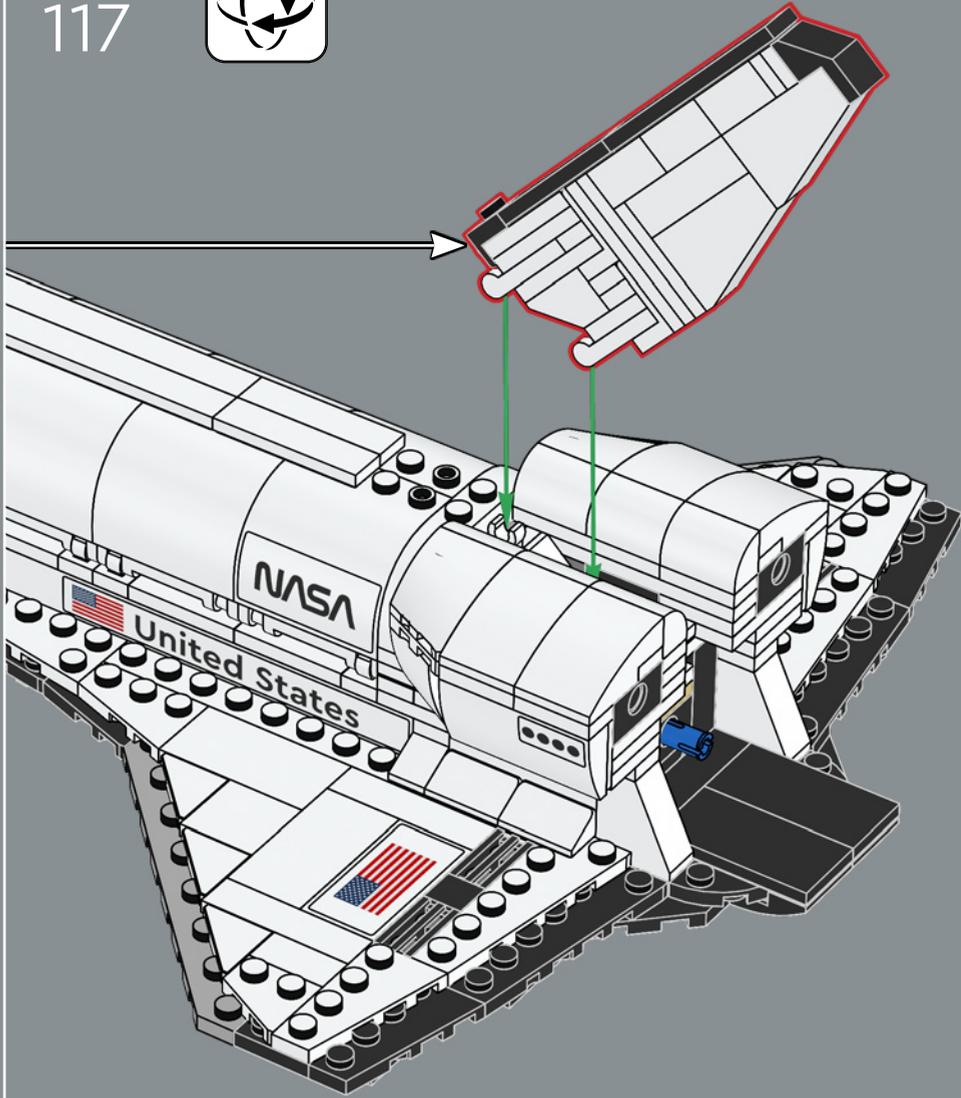


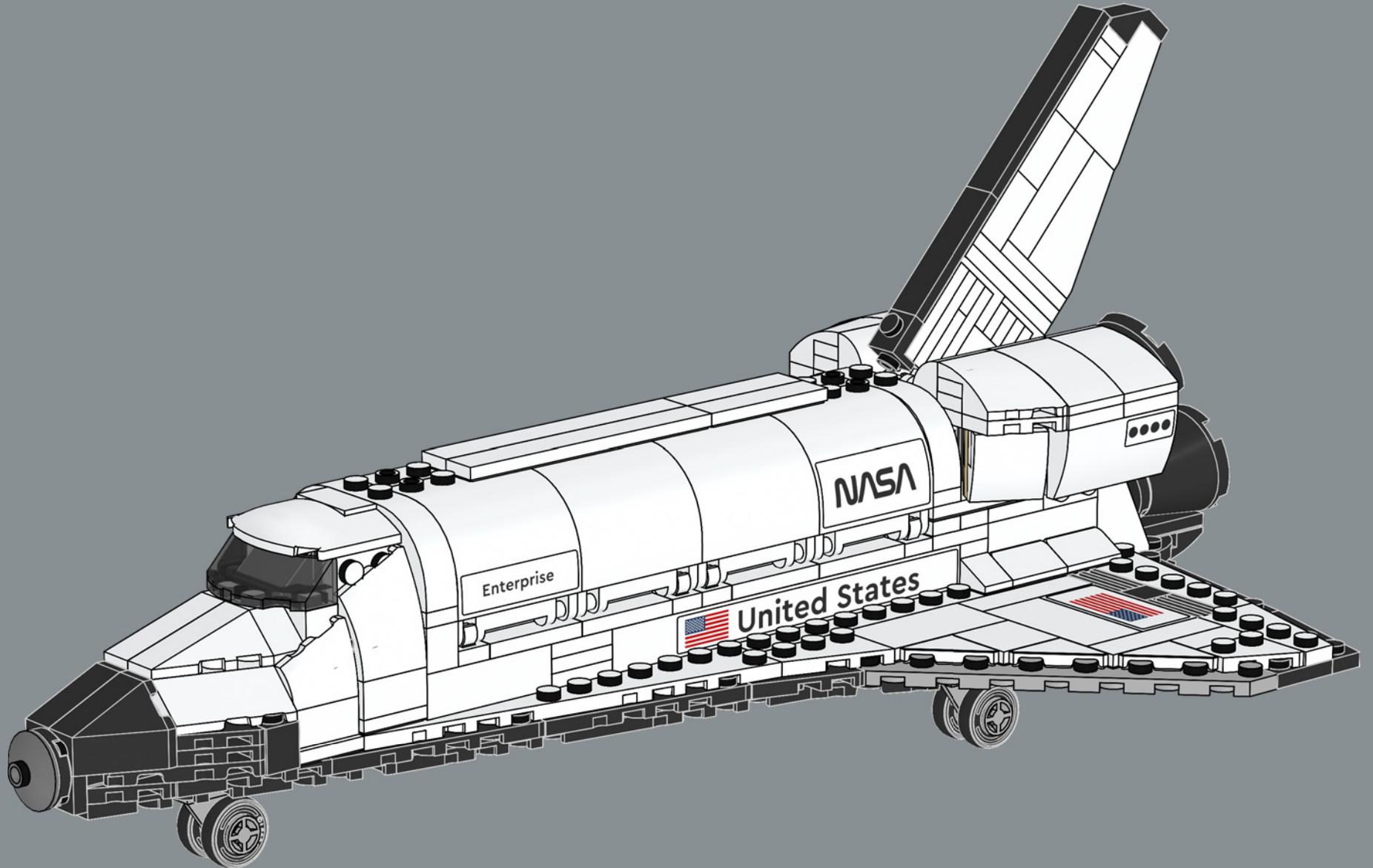


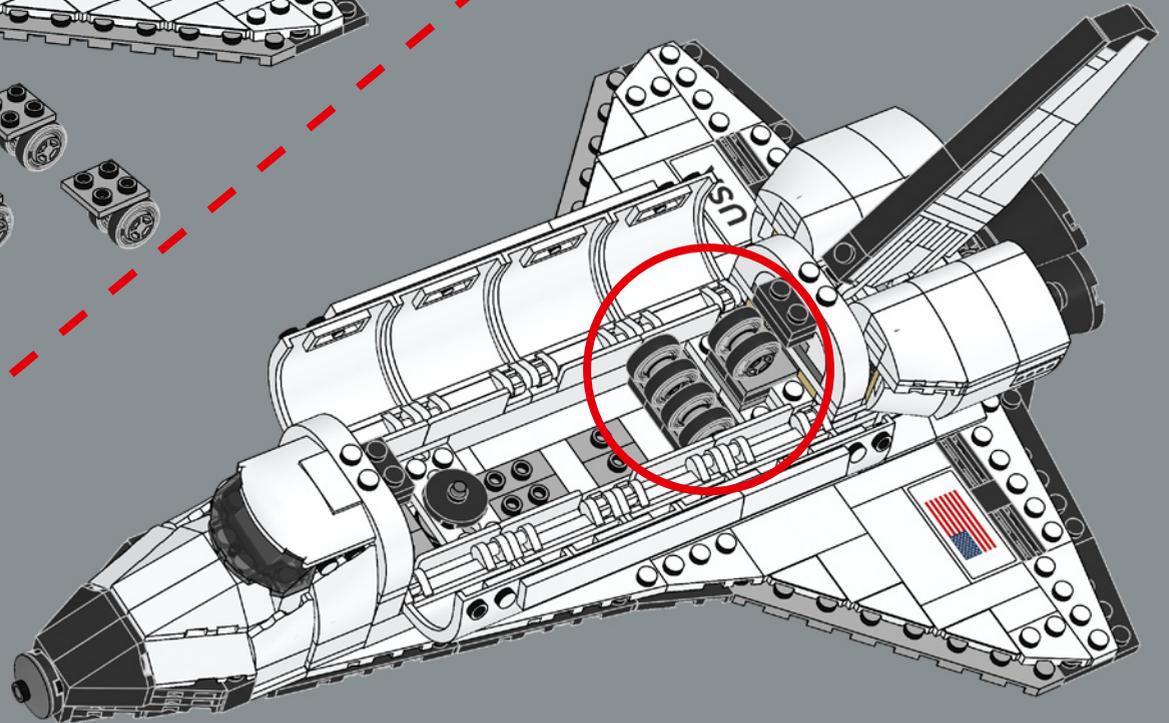
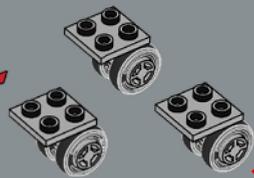
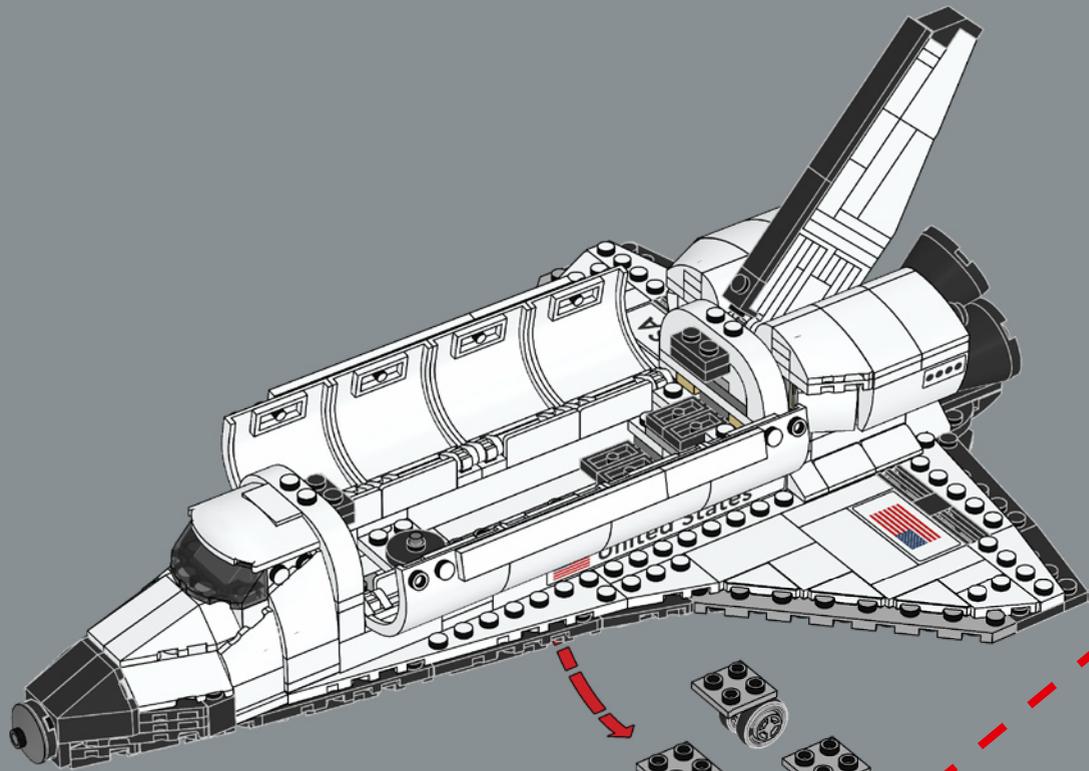
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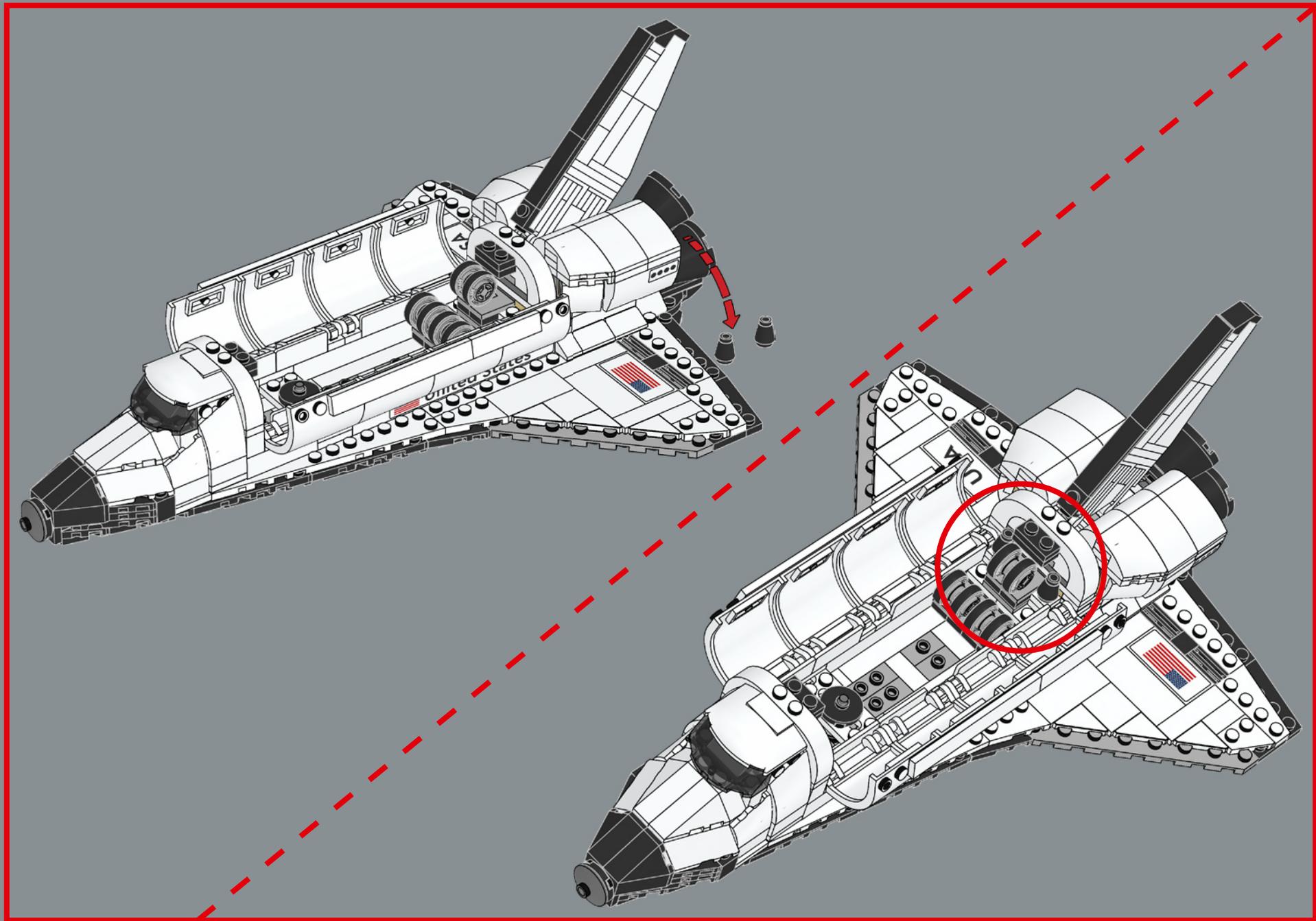


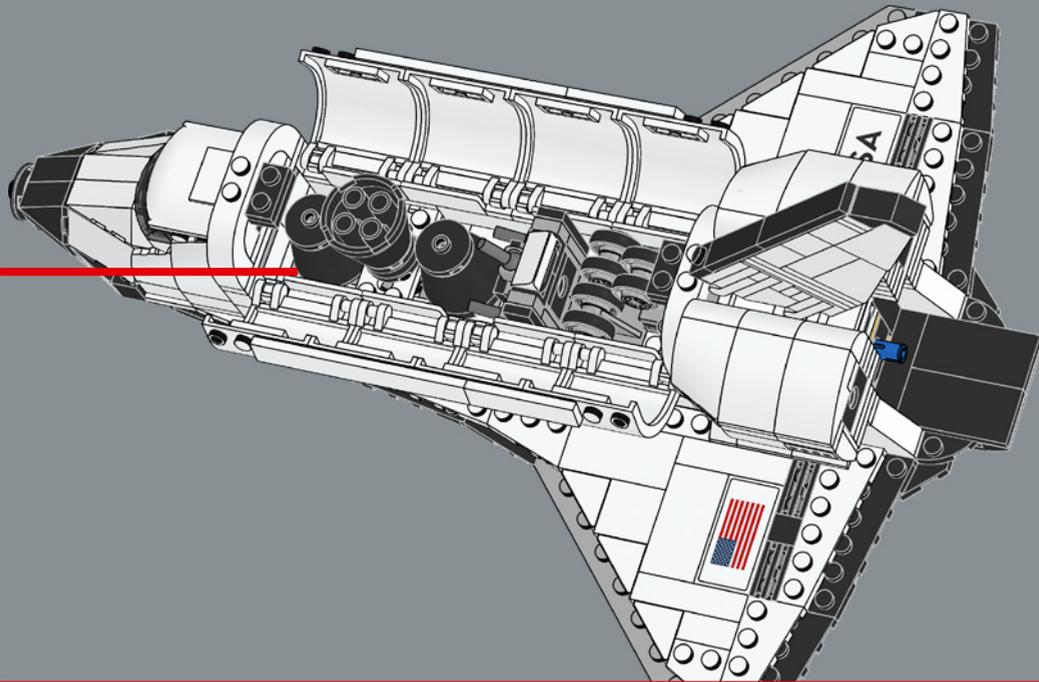
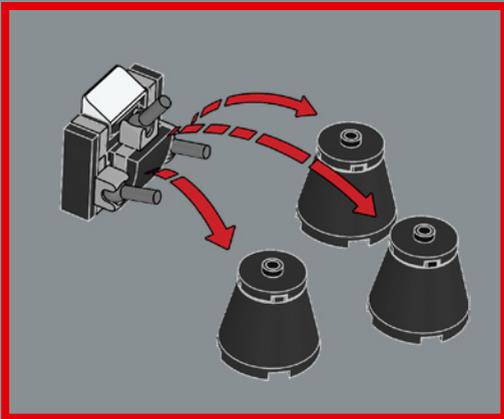
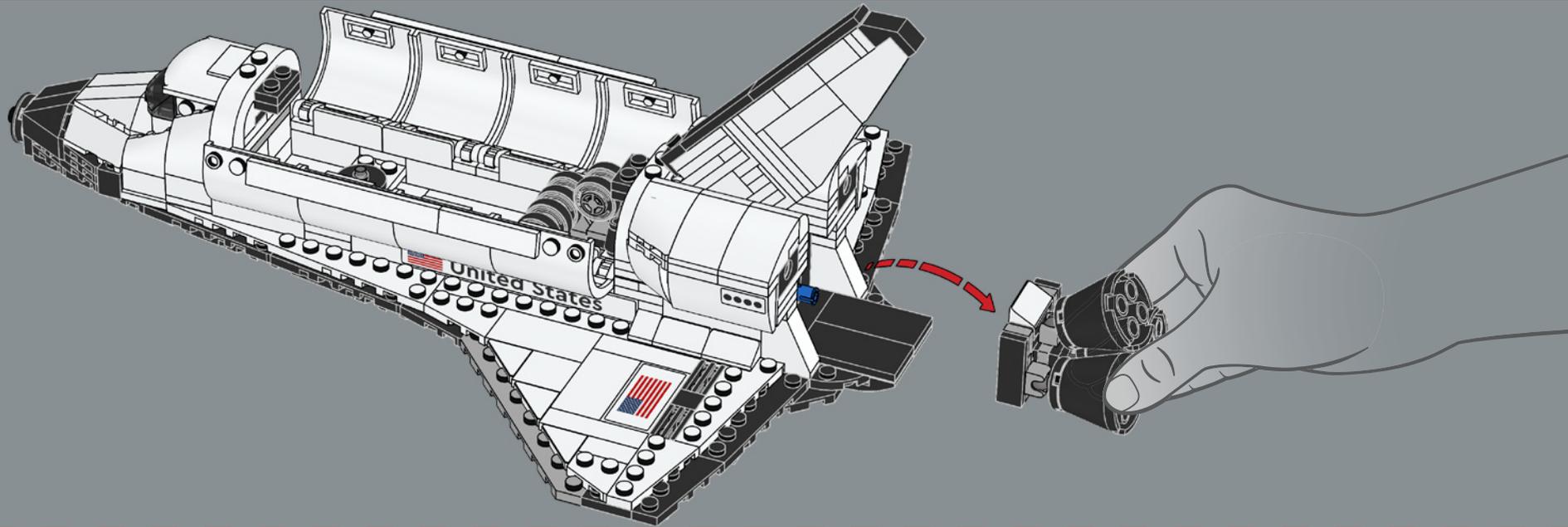
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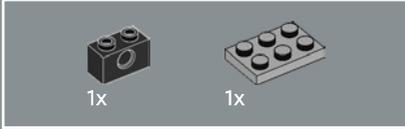
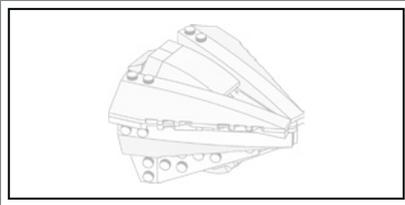




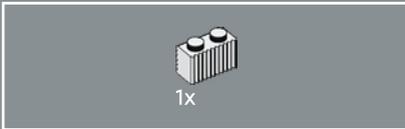
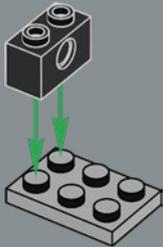




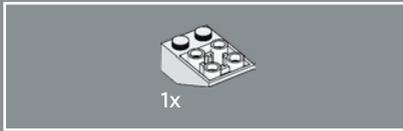
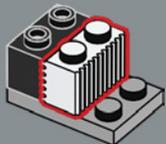




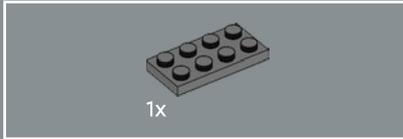
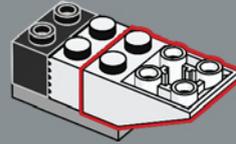
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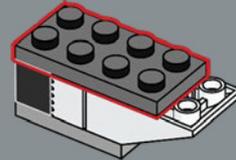
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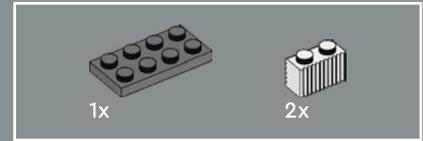
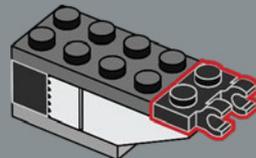
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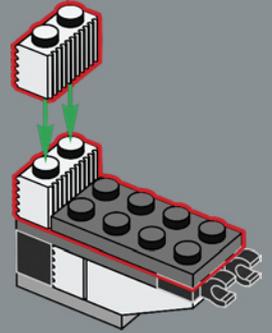
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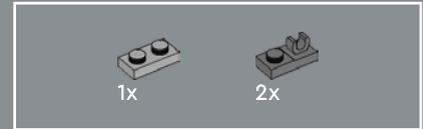
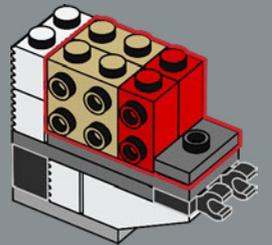
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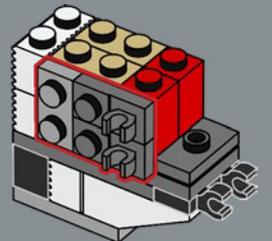
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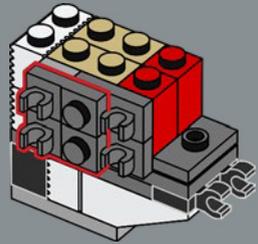
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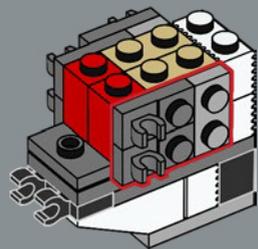


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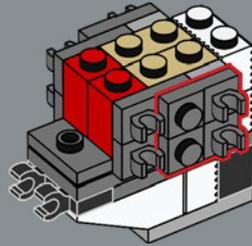
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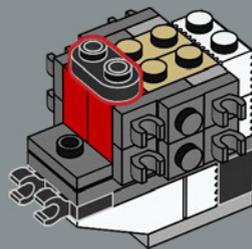
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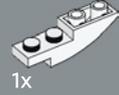
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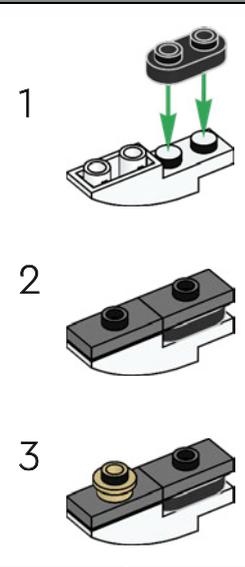


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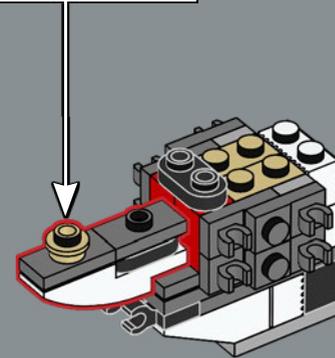
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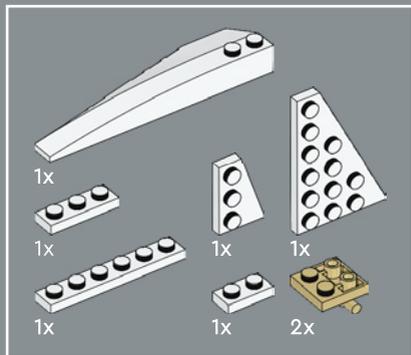


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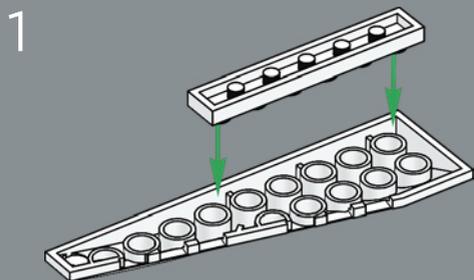
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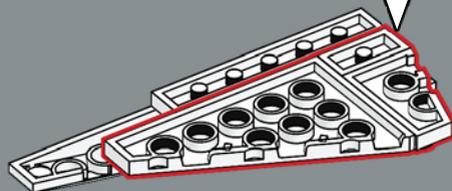
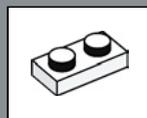




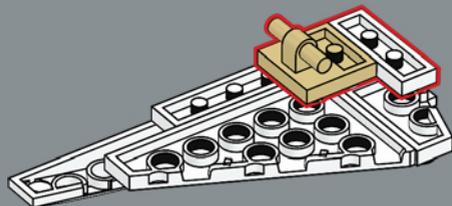
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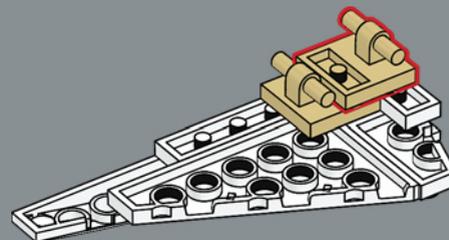
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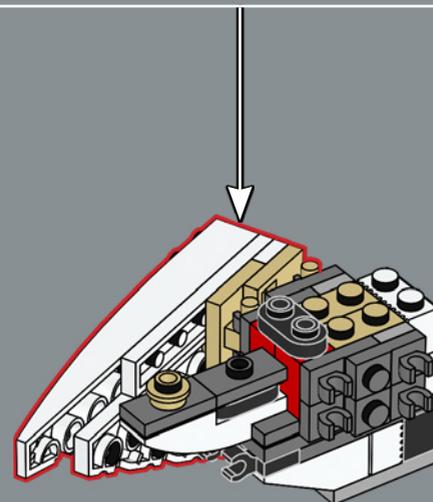
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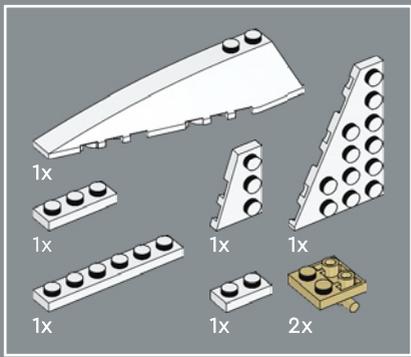


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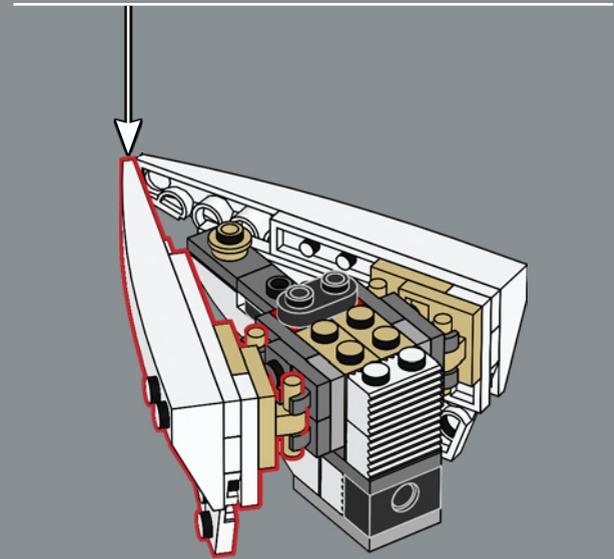
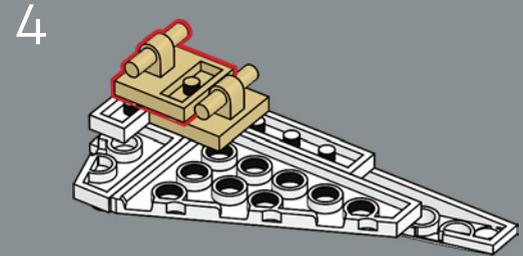
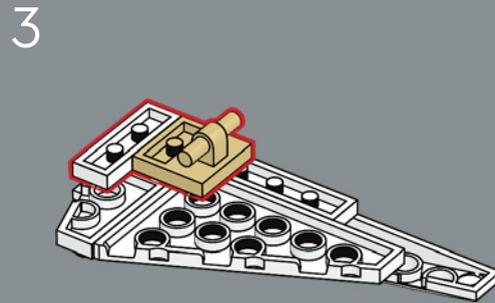
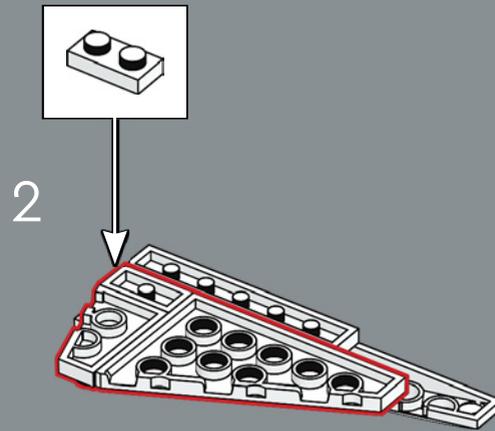
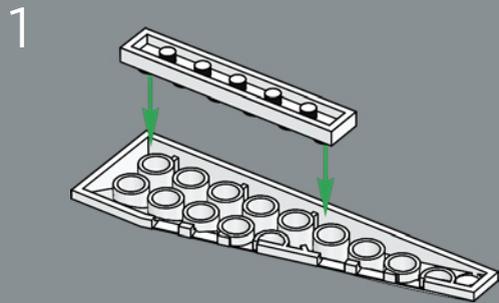


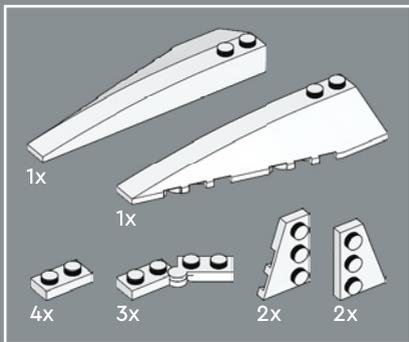
尾锥是现实生活中航天飞机发动机的覆盖物，是为了改善空气动力学而在运输过程中附加的。乐高®版本模仿了其形状，且不是中空的。





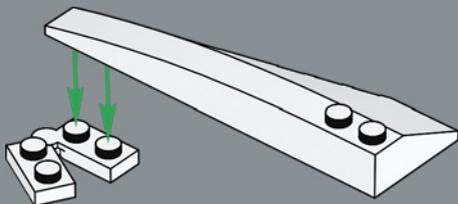
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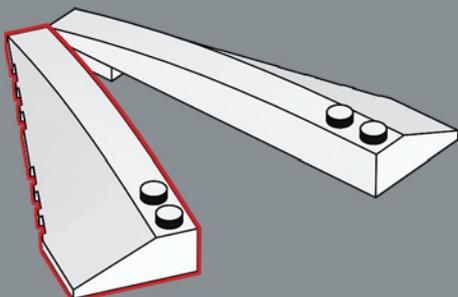


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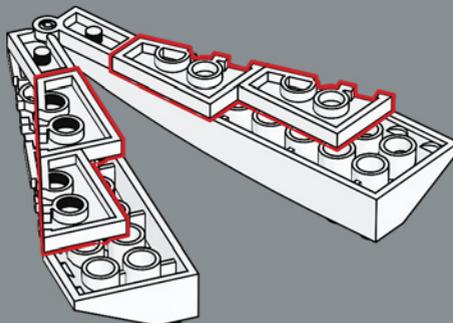
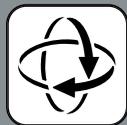
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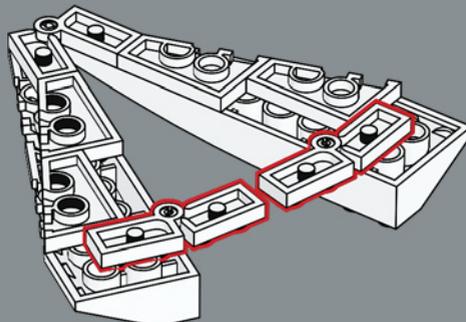
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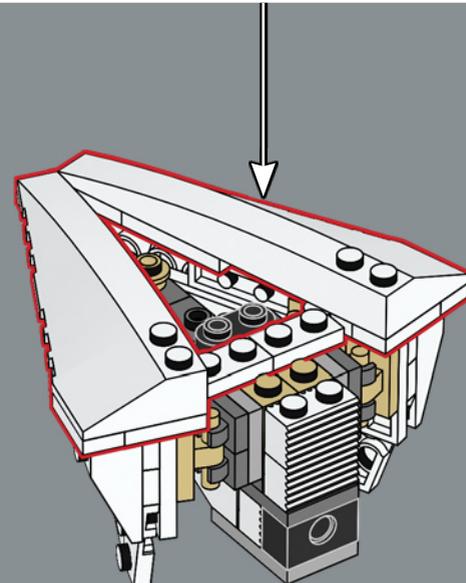
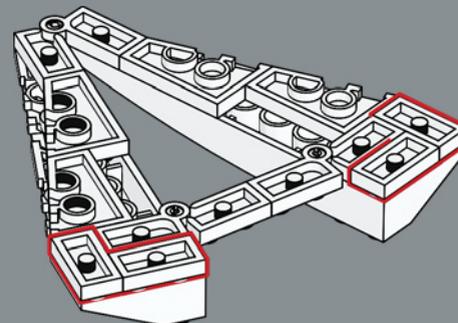
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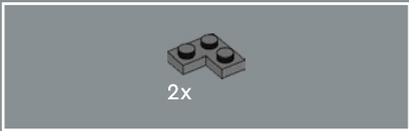


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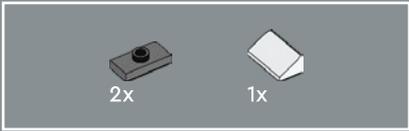
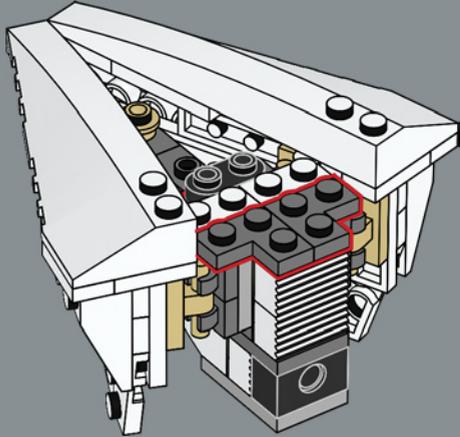


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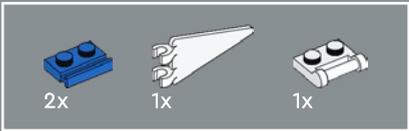
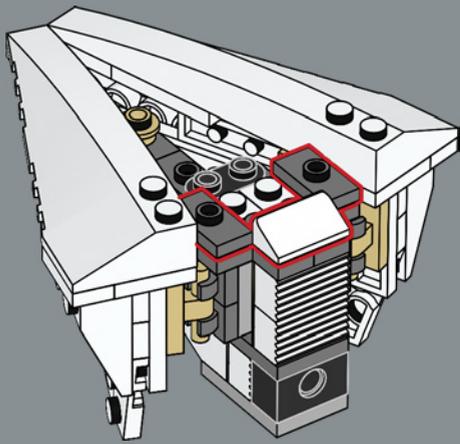




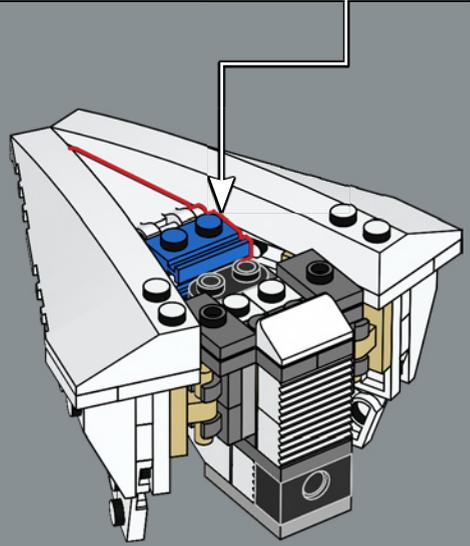
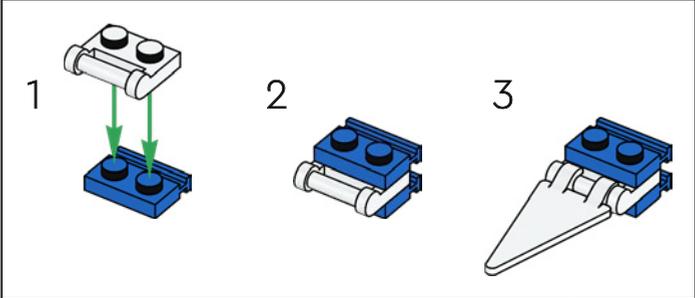
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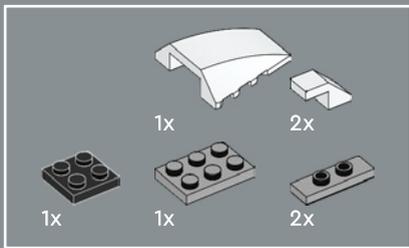


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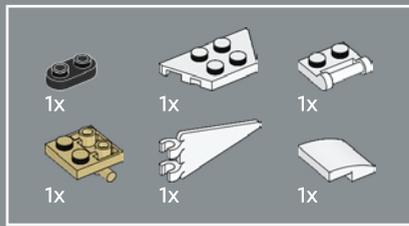
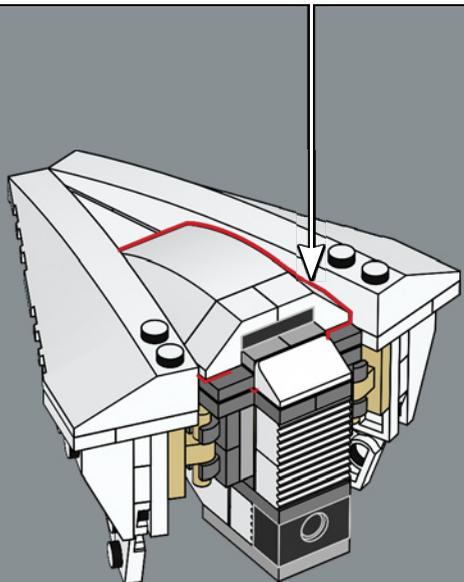
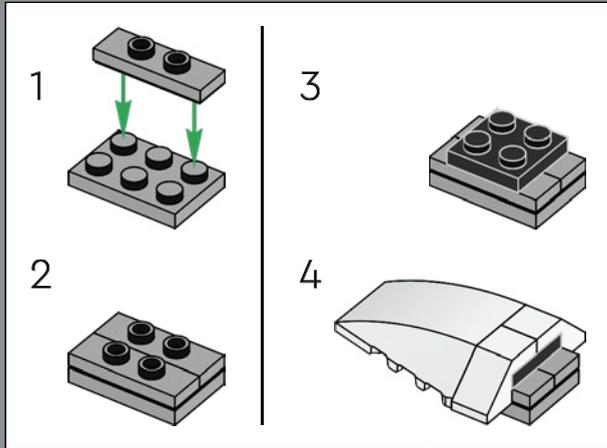


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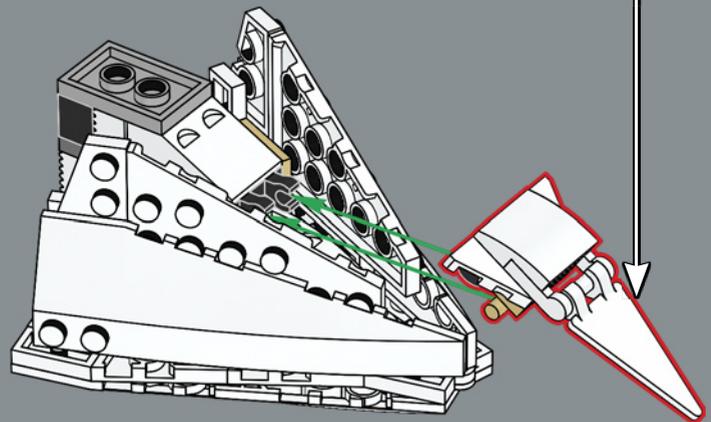
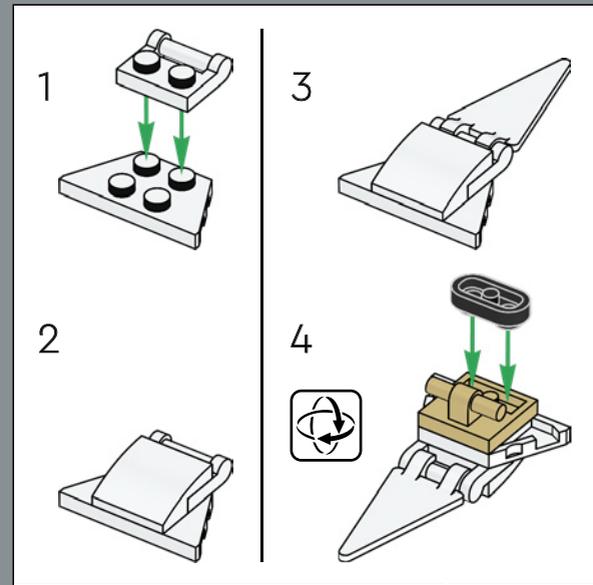




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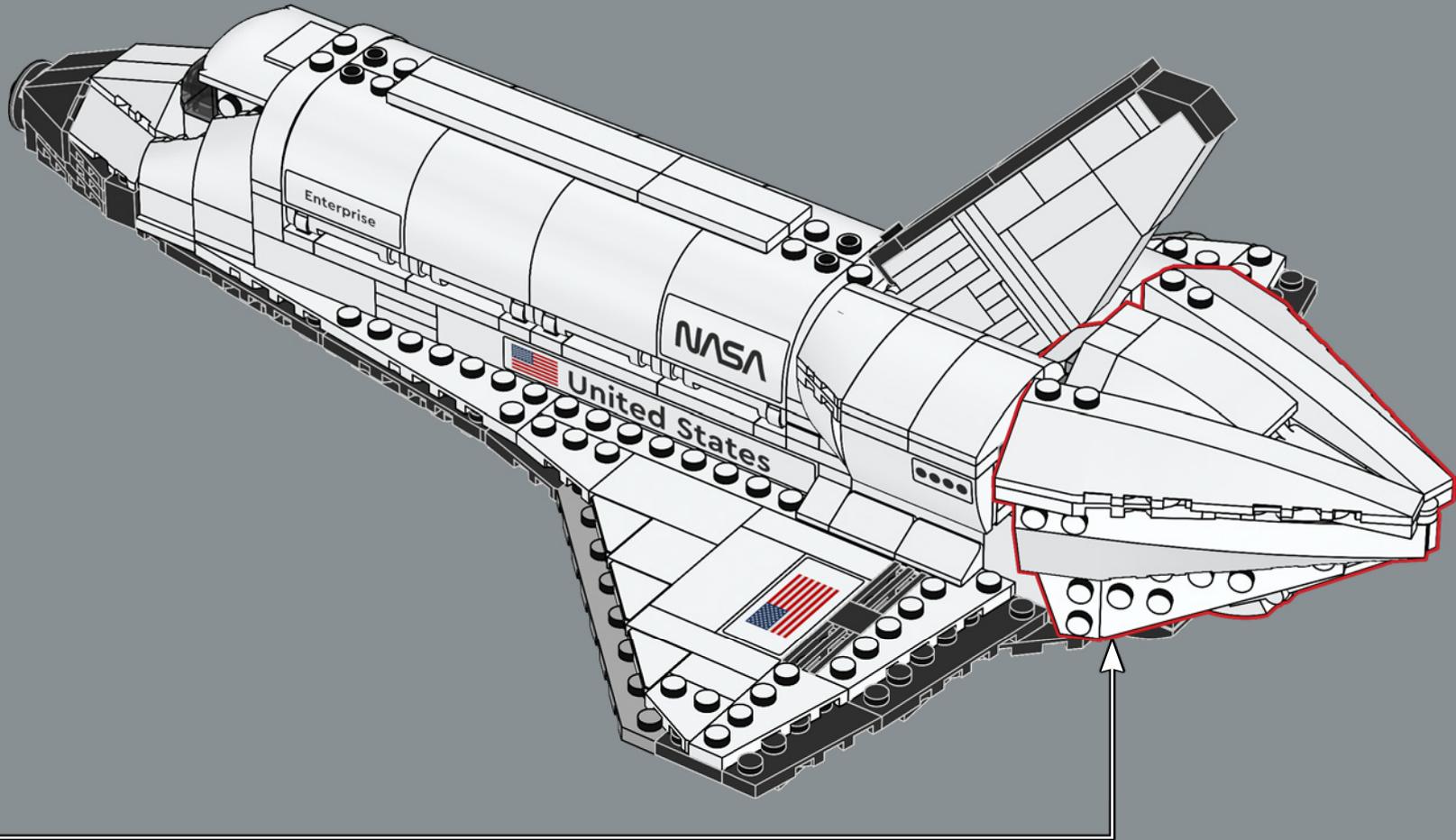


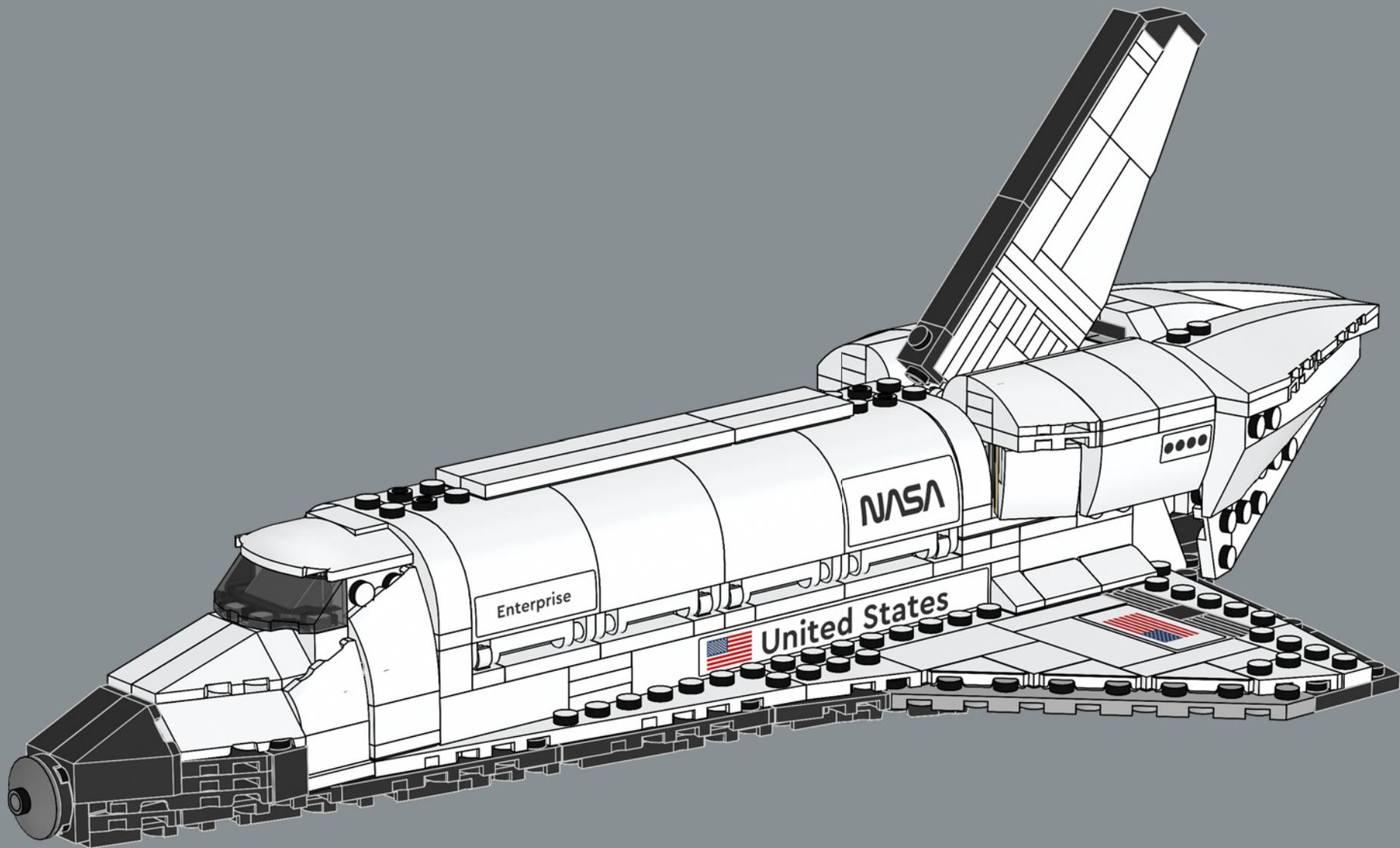
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作为测试，企业号完成了五次载人自由飞行作为测试。
前三个是附加尾锥飞行的，最后两个则安装了模型发动机。

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