

Jielong-3 (Smart Dragon-3) maiden flight version



Jielong 3 (Chinese: 捷龙三号运载火箭, meaning "agile dragon", also known as Smart Dragon 3, SD-3), is a solid fueled orbital launch vehicle developed by China Academy of Launch Vehicle Technology's subsidiary China Rocket to launch up to 1500 kg to a 500 km altitude Sun-synchronous orbit. The rocket is 31 meters tall, 2.65 meters in diameter and weighs 145 metric tons. It is a solid fuel, 4 stage orbital rocket. The fairing diameter is 3.35 m. It uses the same rocket motors as the Zhongke-1 (ZK-1, Lijian-1) rocket.

The maiden flight of Jielong 3 on 9 December 2022, 06:35 UTC was successful. It delivered fourteen small satellites into polar orbit. The satellites were Jilin-1 Gaofen-03D-44-50 and Pingtai-01A01, HEAD 2H, Jinzijing Qilu-1 05 and 06, Tianqi 07, Huoju 1 (Torch 1) and CAS 5A. The launch took place from a floating platform off Yantai, Shandong.

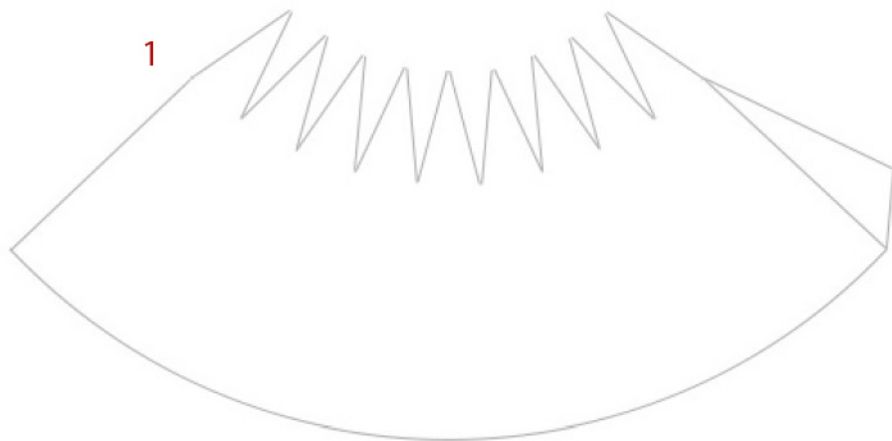
Cold launches will have little impact on the ship's hull as vehicles are ignited in the air. However, this mode is more complicated and the launching tube is customized for only one type of rocket. Hot launches, however, have simpler launching cells and are capable of rapid launches, so they can realize multiple launches in one trip,

While the extreme heat during hot launches will cause some damage to equipment onboard the ship, China has developed the ability to minimize this impact, for example, through temperature-resistant treatment for the ship or by diverting the gas produced during the rocket ignition to the side and then emitting it outside.

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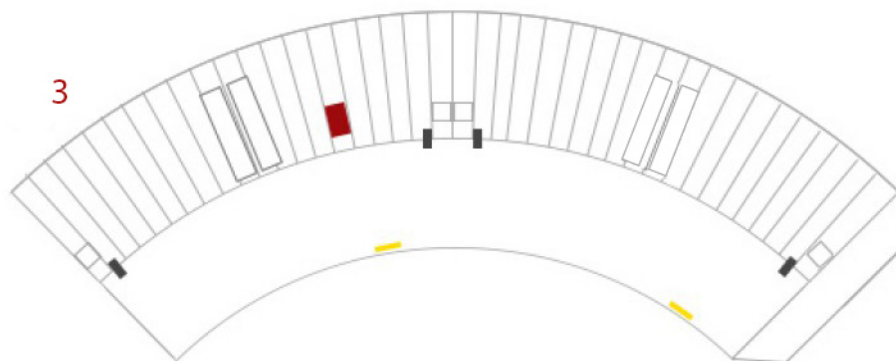
1



2



3



3 to 4 connector



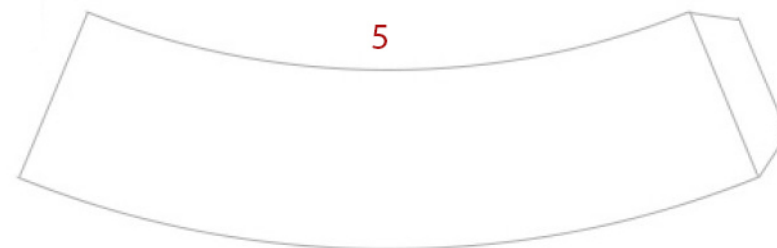
4



4 to 5 connector



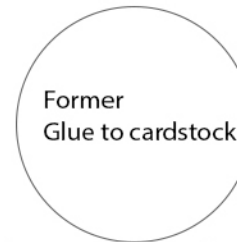
5



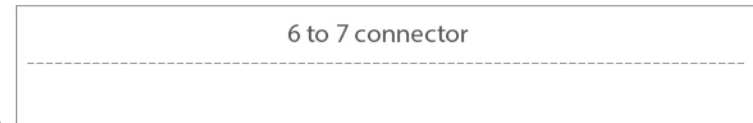
Former
glue to cardstock

Glue to inside top
edge of part 6

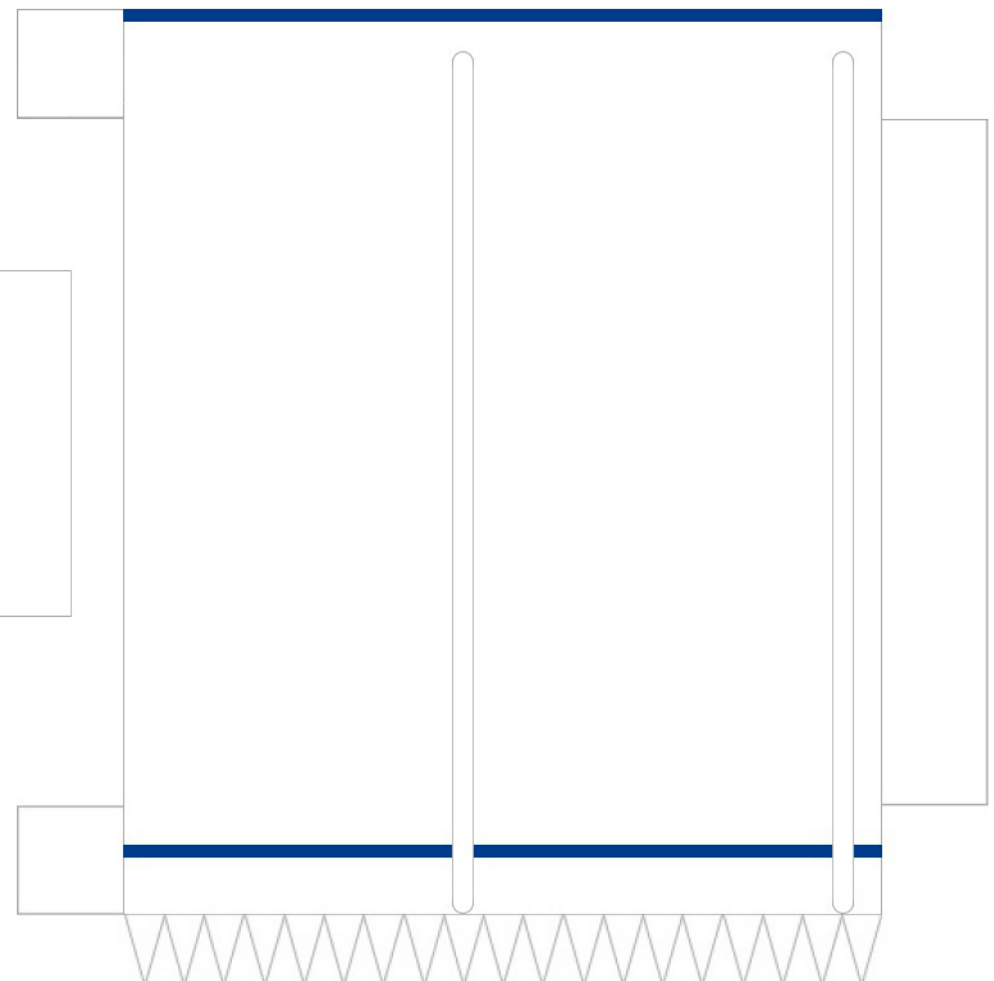
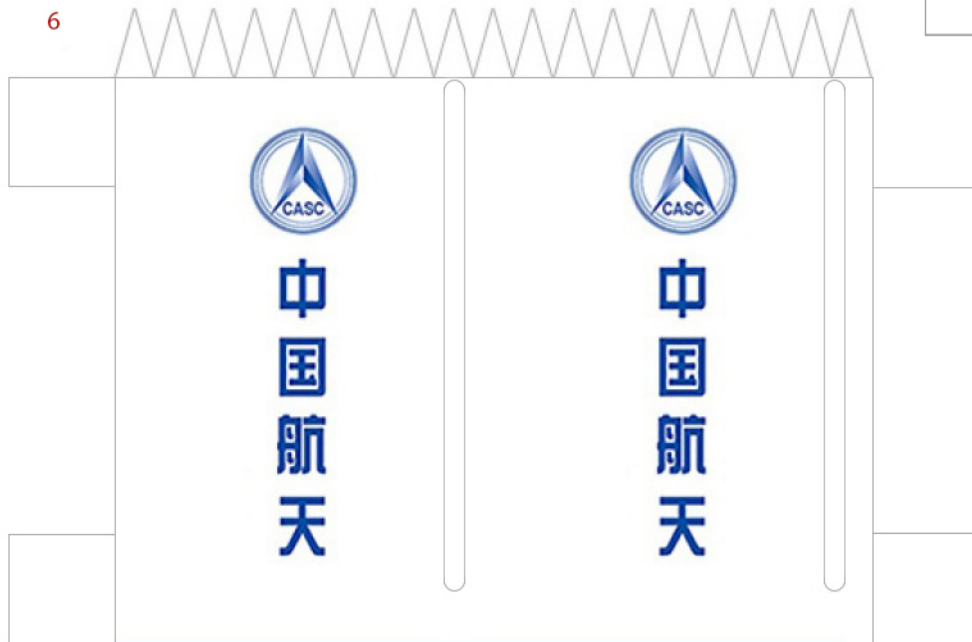
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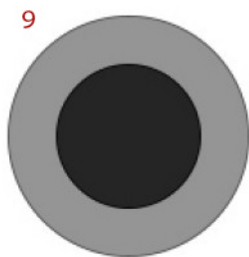
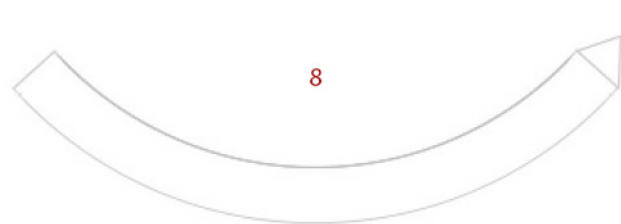
Glue to inside top of part 7
against the 6 to 7 connector



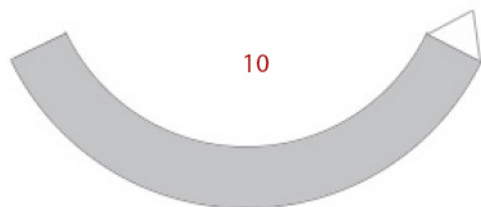
7



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Glue to cardstock



Color back Black

