

Black Brant IX suborbital sounding rocket



A parachute test for a future mission to Mars was successfully launched on a NASA Black Brant IX suborbital sounding rocket at 9:30 a.m., Friday, Sep. 7, 2018 from the agency's Wallops Flight Facility.

The rocket carried the Advanced Supersonic Parachute Inflation Research Experiment (ASPIRE) from NASA's Jet Propulsion Laboratory in Pasadena California.

The payload descended by parachute and splashed-down in the Atlantic Ocean 28 miles from Wallops Island. The parachute was successfully recovered and returned to Wallops for data retrieval and inspection.

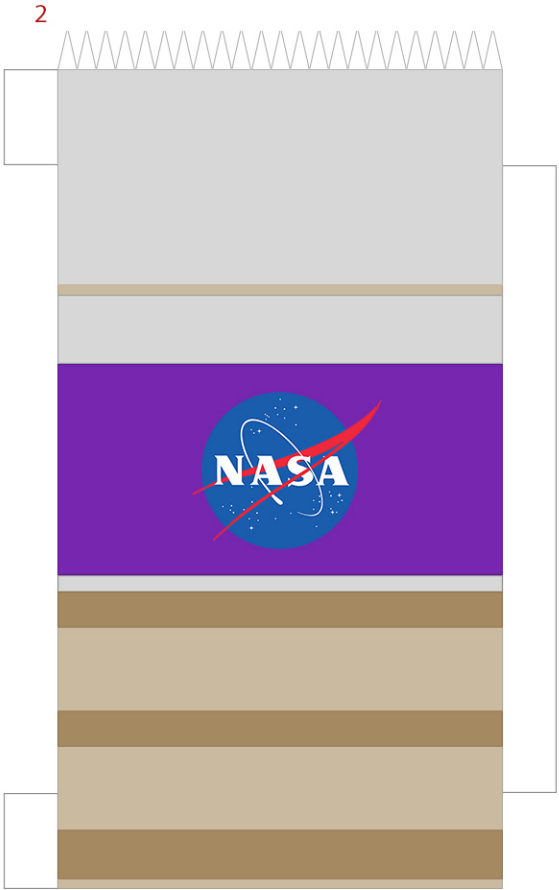
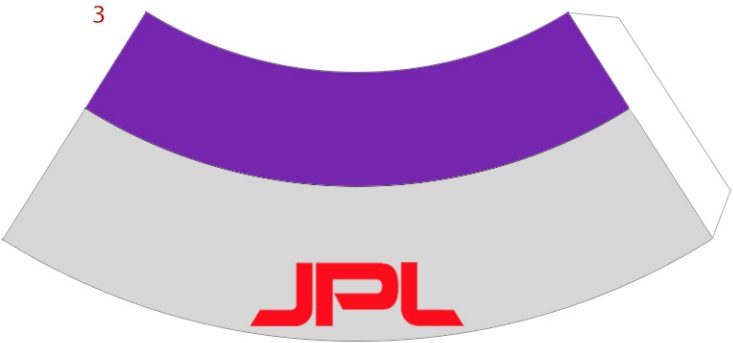
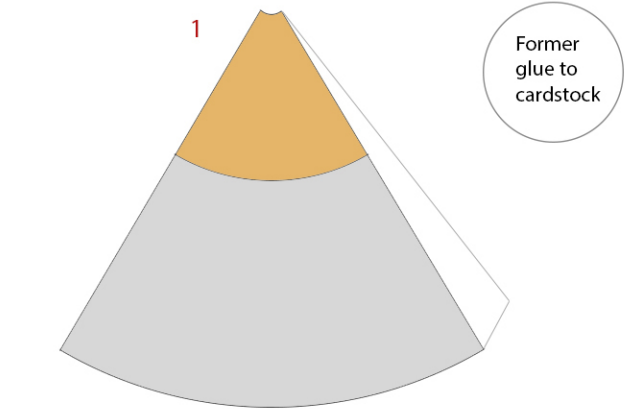
The payload is a bullet-nosed, cylindrical structure holding a supersonic parachute, the parachute's deployment mechanism, and the test's high-definition instrumentation — including cameras — to record data.

The parachutes were full-scale versions of the DGBs used by the Mars Science Laboratory in 2012 and planned for NASA's Mars 2020 project and were delivered to targeted deployment conditions representative of flight at Mars by sounding rockets launched from NASA GSFC's Wallops Flight Facility launch range on Wallops Island, VA. The primary objective of these missions was to expose parachute designs to a supersonic inflation environment and acquire sufficient data to characterize the flight environment, loads, performance of the parachute. The flight data from the sounding rocket missions will also aid in the development of models to predict parachute performance on Mars.

The model you're about to build is the sounding rocket used for the (ASPIRE) mission.

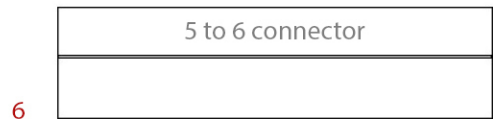
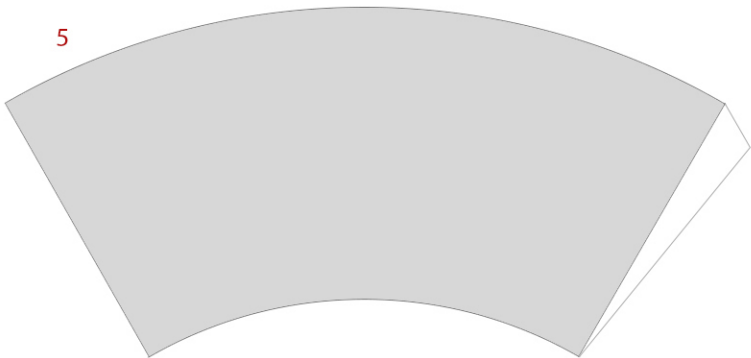


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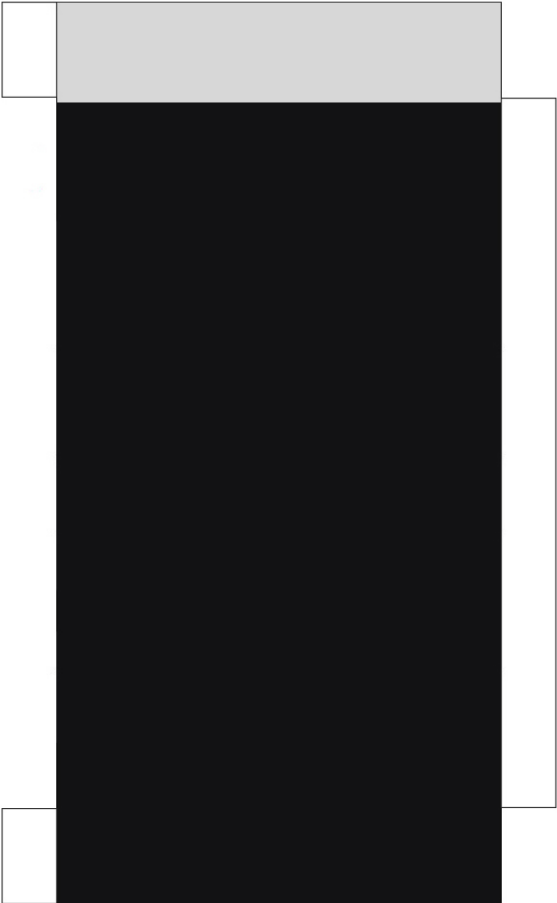


2 to 3 connector

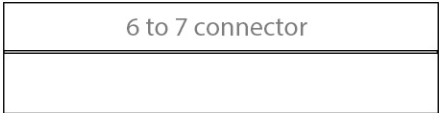
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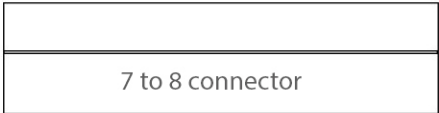
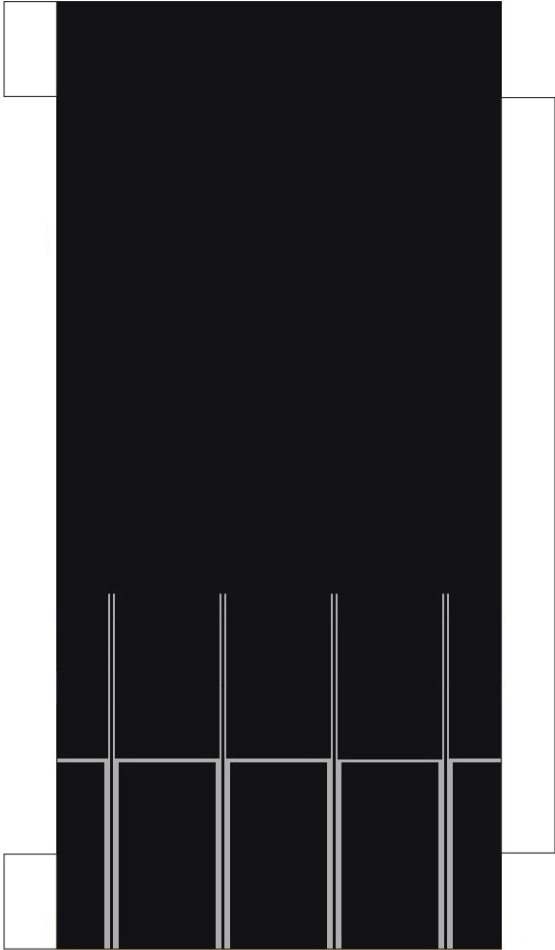
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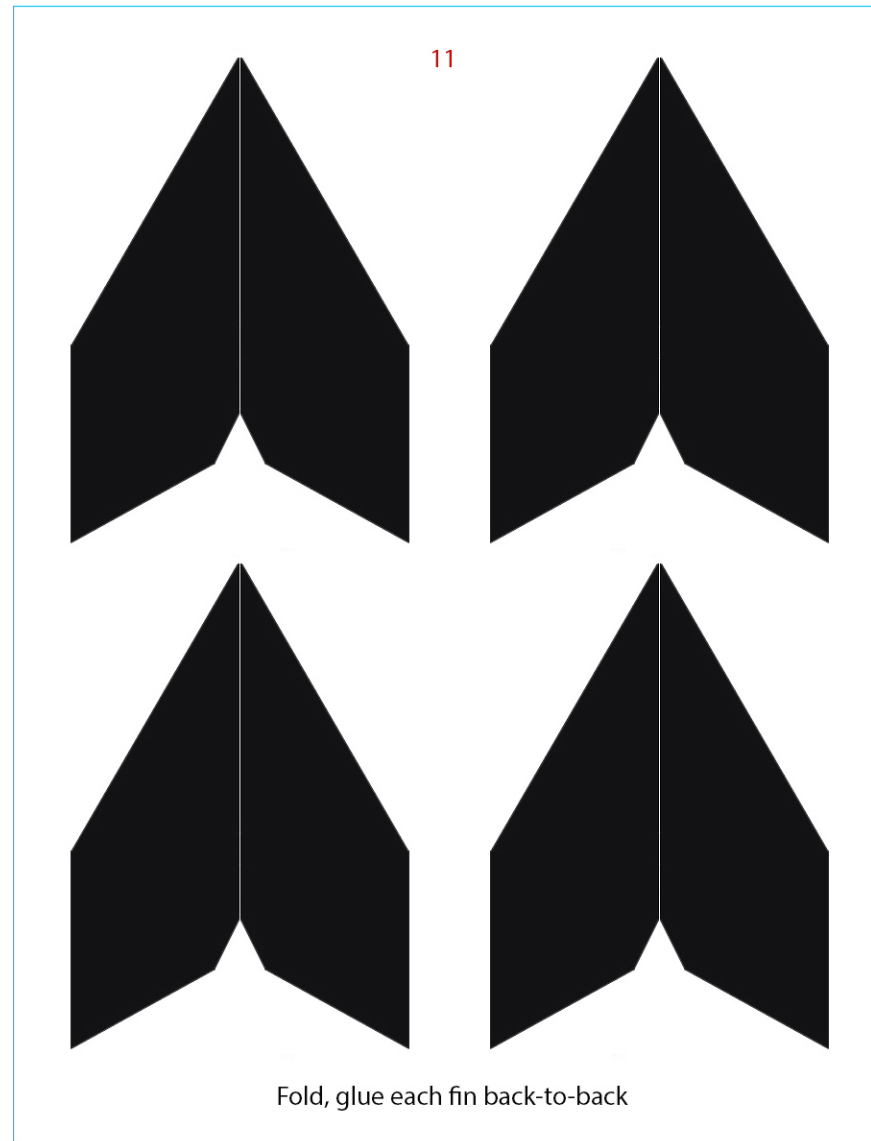
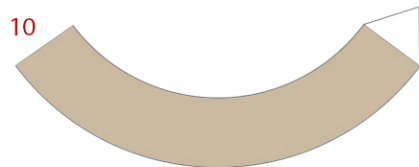
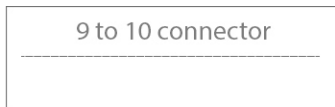
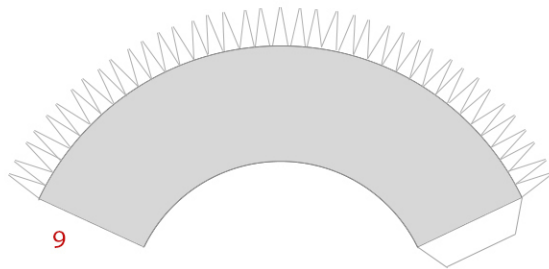
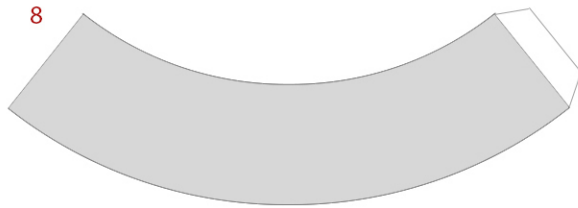
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