

# NASA's New Spacecraft: Orion

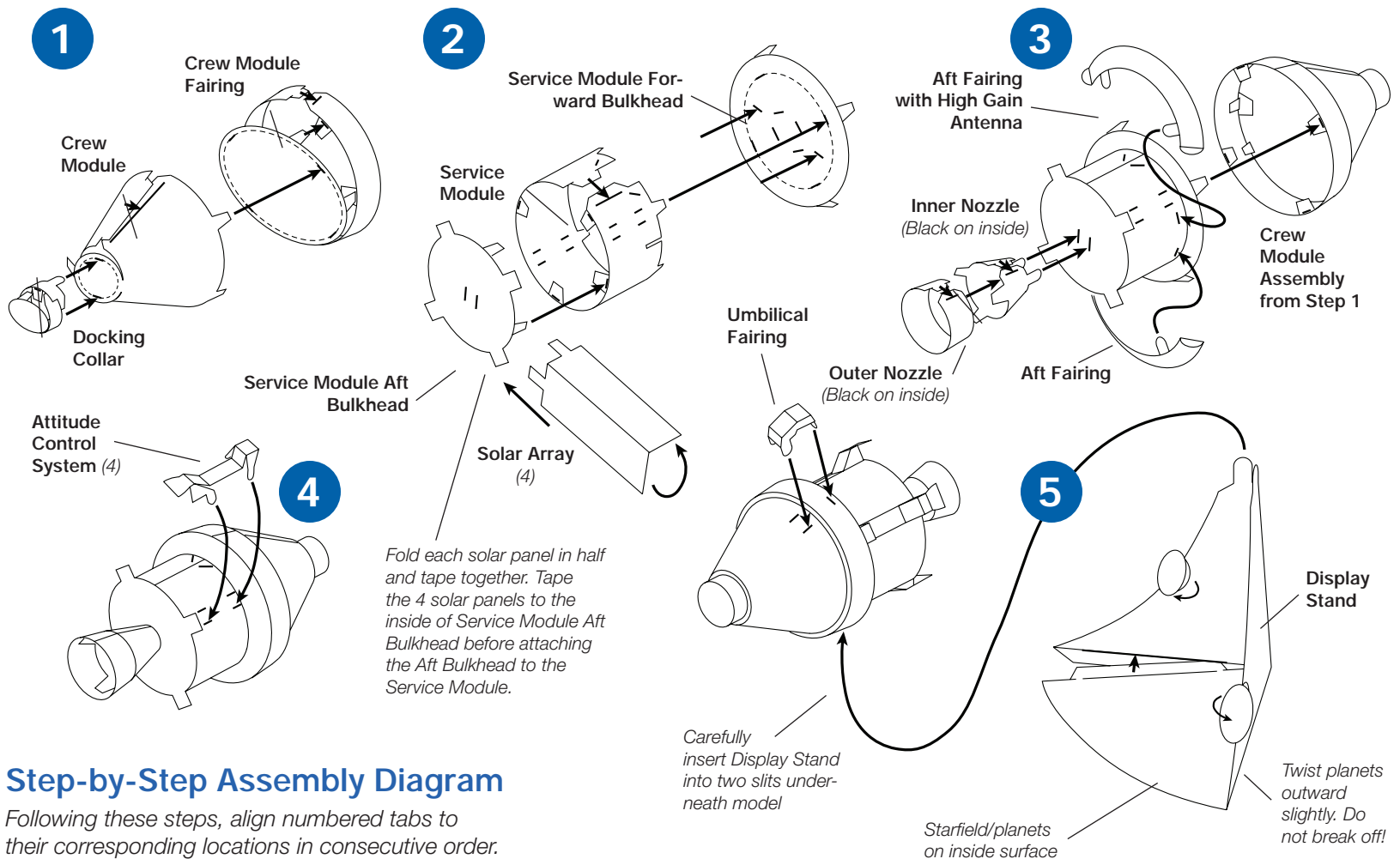
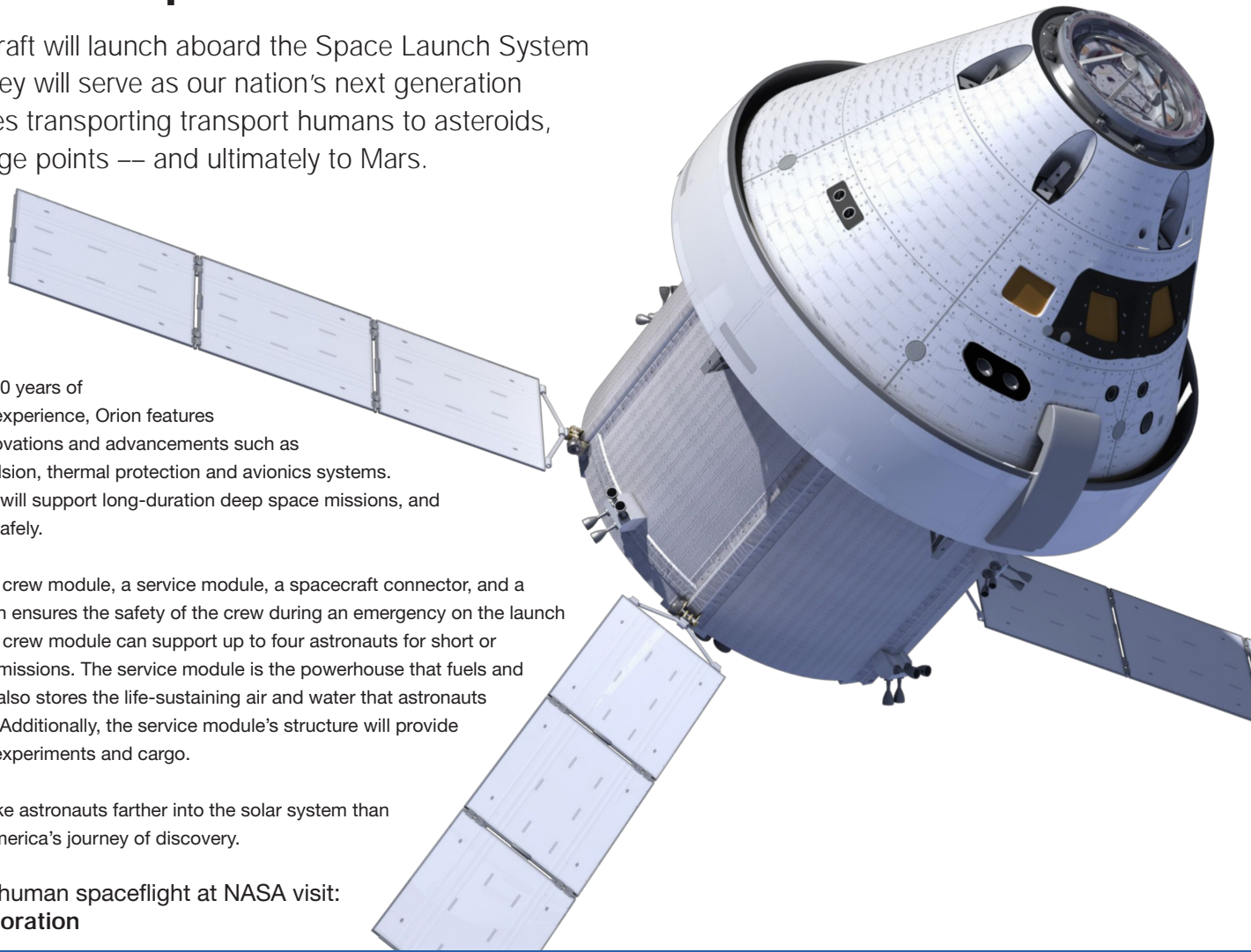
The Orion spacecraft will launch aboard the Space Launch System (SLS). Together they will serve as our nation's next generation exploration vehicles transporting transport humans to asteroids, the moon, Lagrange points — and ultimately to Mars.

Drawing from more than 50 years of spaceflight research and experience, Orion features dozens of technology innovations and advancements such as unique life support, propulsion, thermal protection and avionics systems. These advanced systems will support long-duration deep space missions, and bring future crews home safely.

The spacecraft includes a crew module, a service module, a spacecraft connector, and a launch abort system which ensures the safety of the crew during an emergency on the launch pad or during ascent. The crew module can support up to four astronauts for short or long-duration spaceflight missions. The service module is the powerhouse that fuels and propels the spacecraft. It also stores the life-sustaining air and water that astronauts need during space travel. Additionally, the service module's structure will provide areas to mount scientific experiments and cargo.

The Orion and SLS will take astronauts farther into the solar system than ever before, continuing America's journey of discovery.

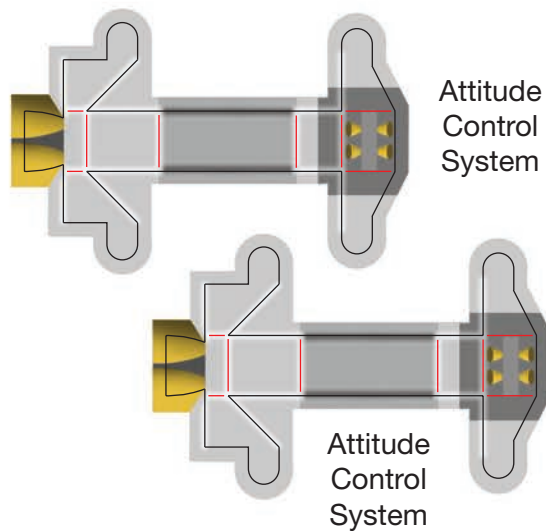
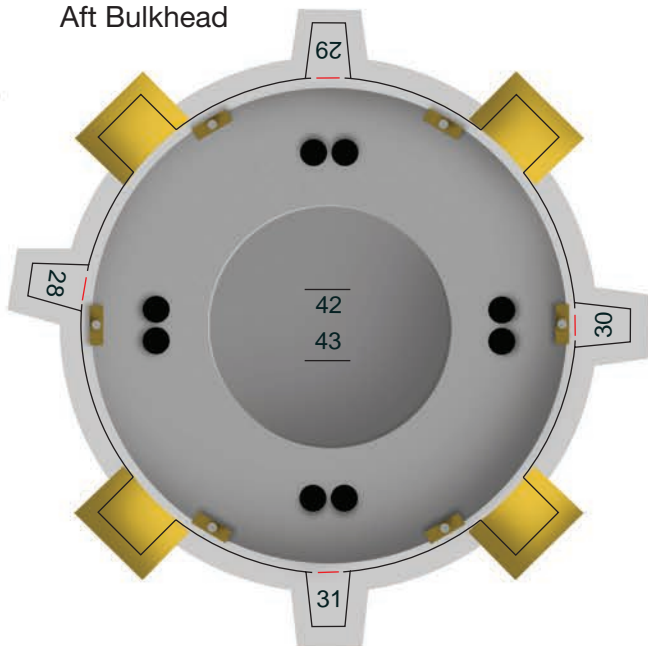
To learn more about human spaceflight at NASA visit: [www.nasa.gov/exploration](http://www.nasa.gov/exploration)



## Step-by-Step Assembly Diagram

Following these steps, align numbered tabs to their corresponding locations in consecutive order.

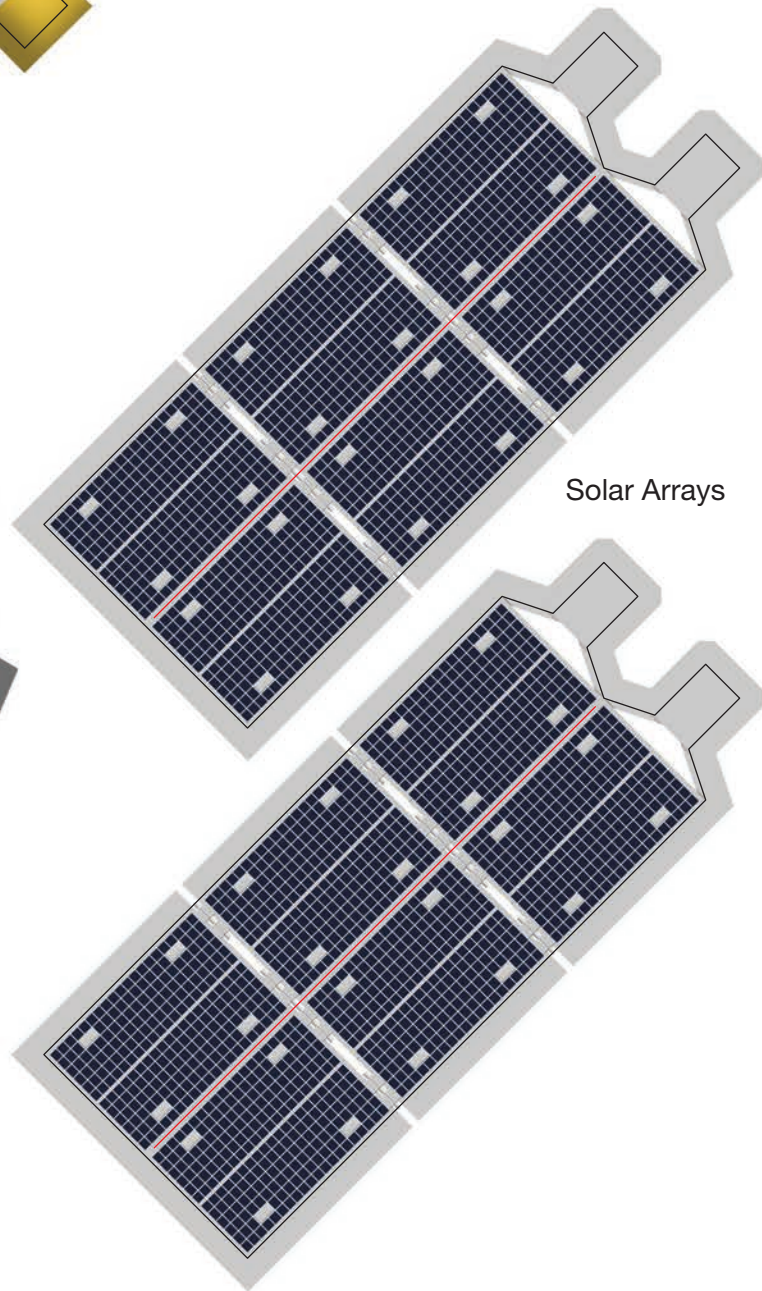
Service Module  
Aft Bulkhead



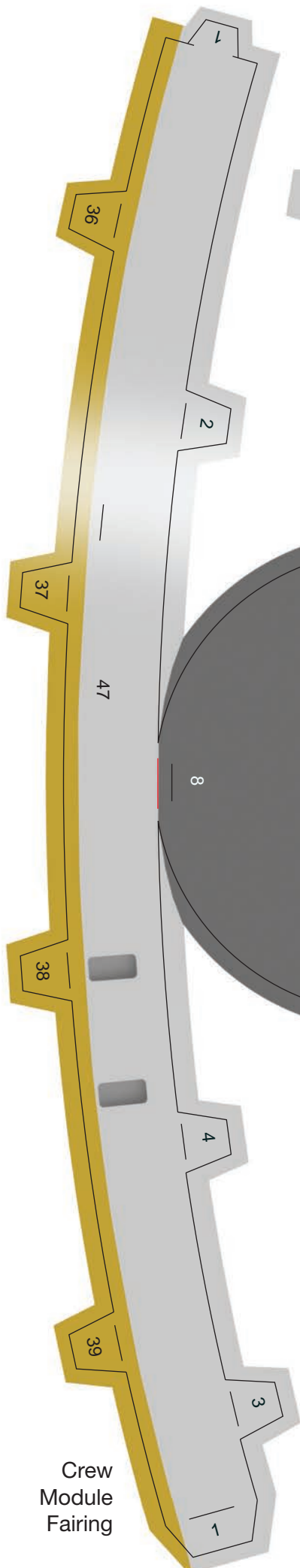
Attitude  
Control  
System

Attitude  
Control  
System

Solar Arrays

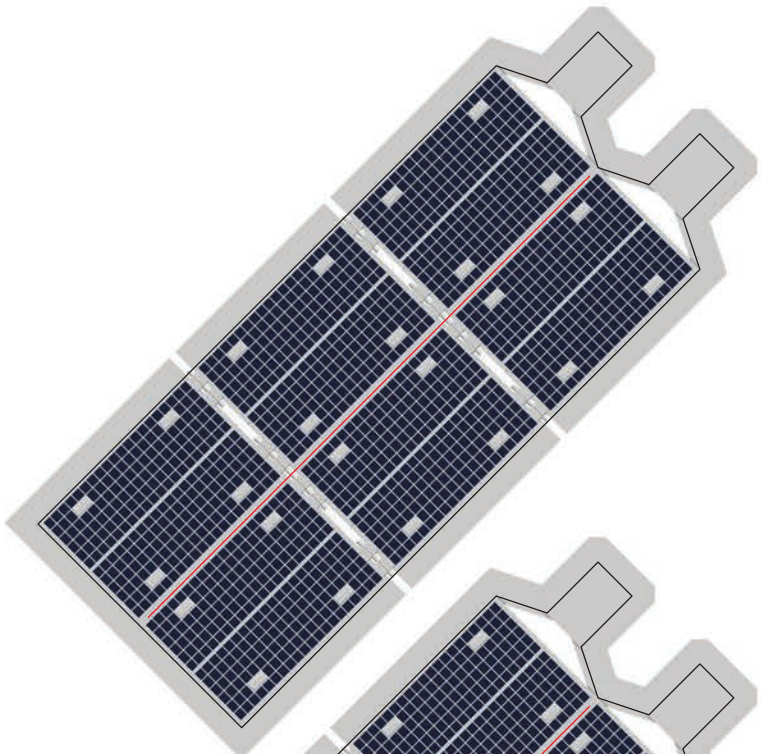


Aft Fairing

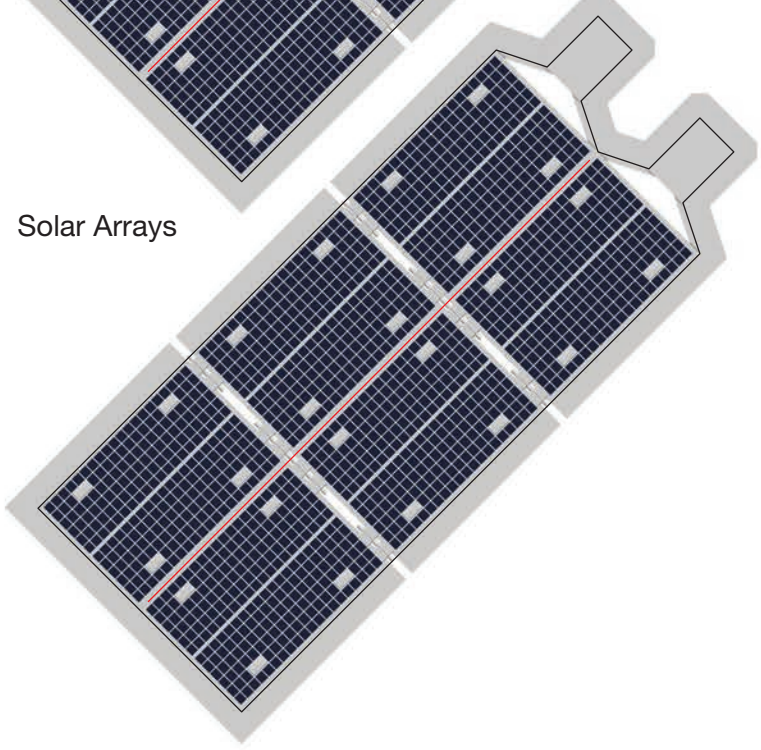


Crew  
Module  
Fairing

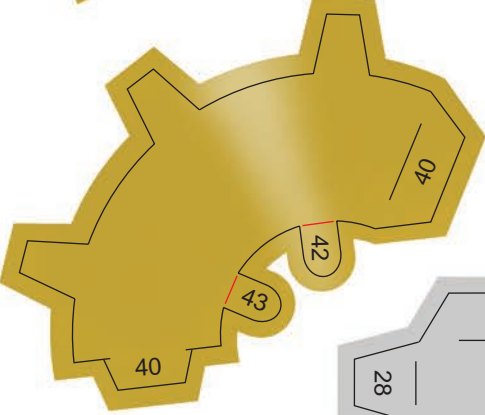




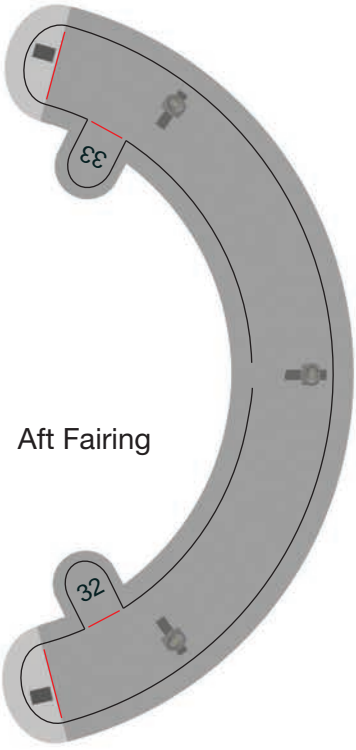
Solar Arrays



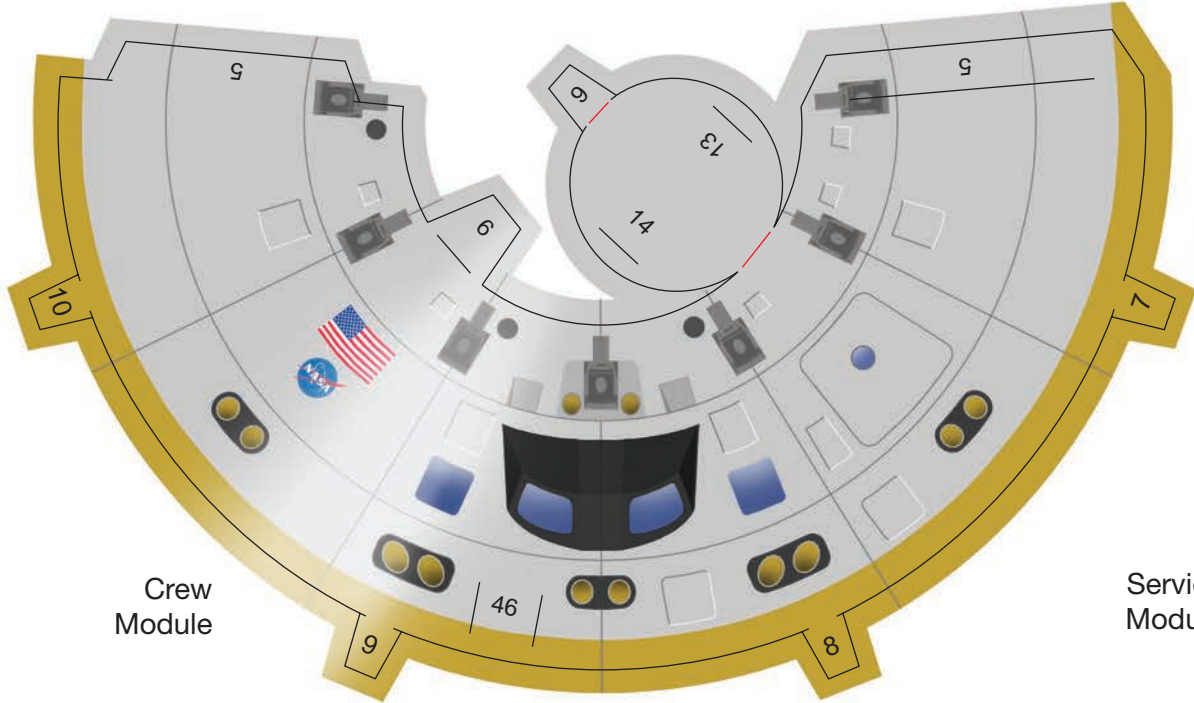
Outer Nozzle



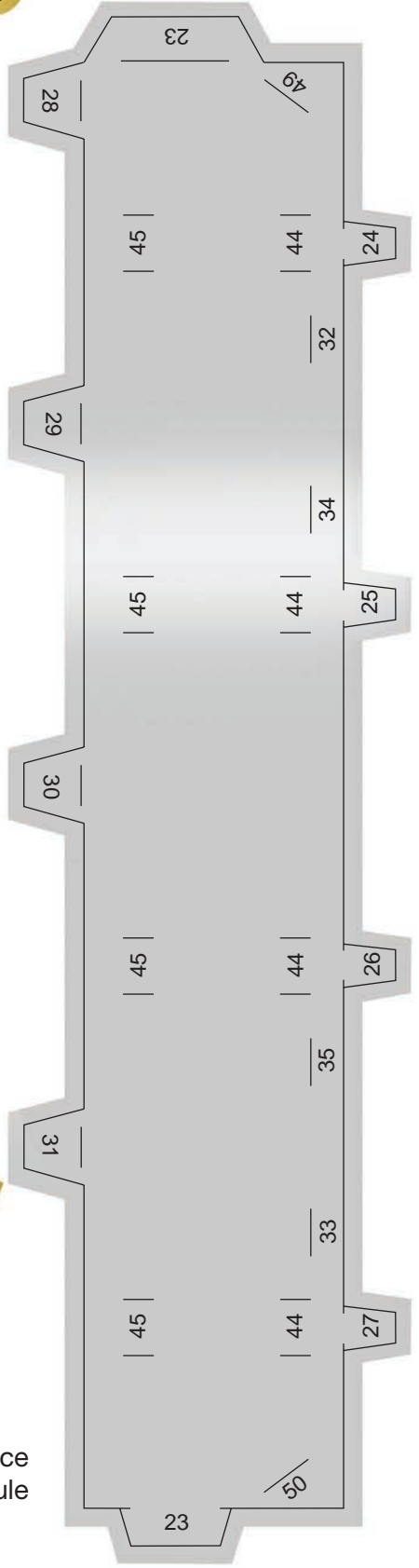
Inner Nozzle



Aft Fairing



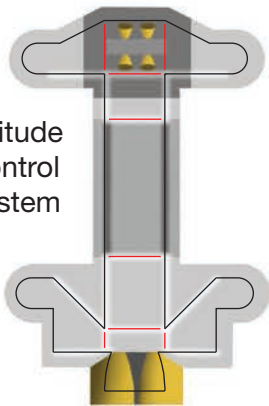
Crew Module



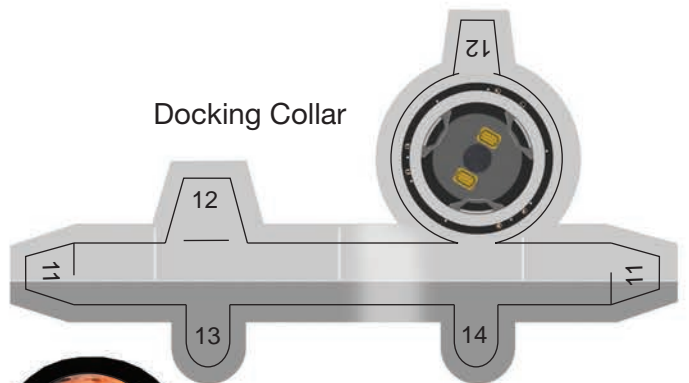
Service Module



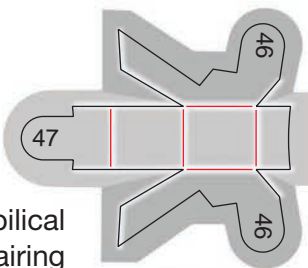
Attitude Control System



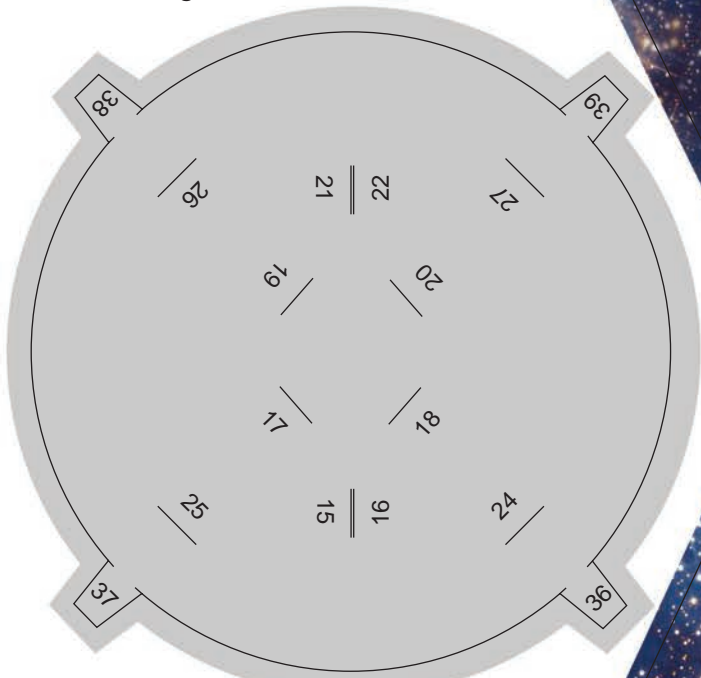
Docking Collar



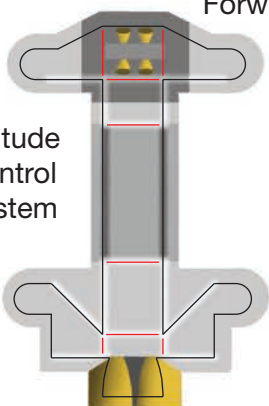
Umbilical Fairing



Service Module Forward Bulkhead

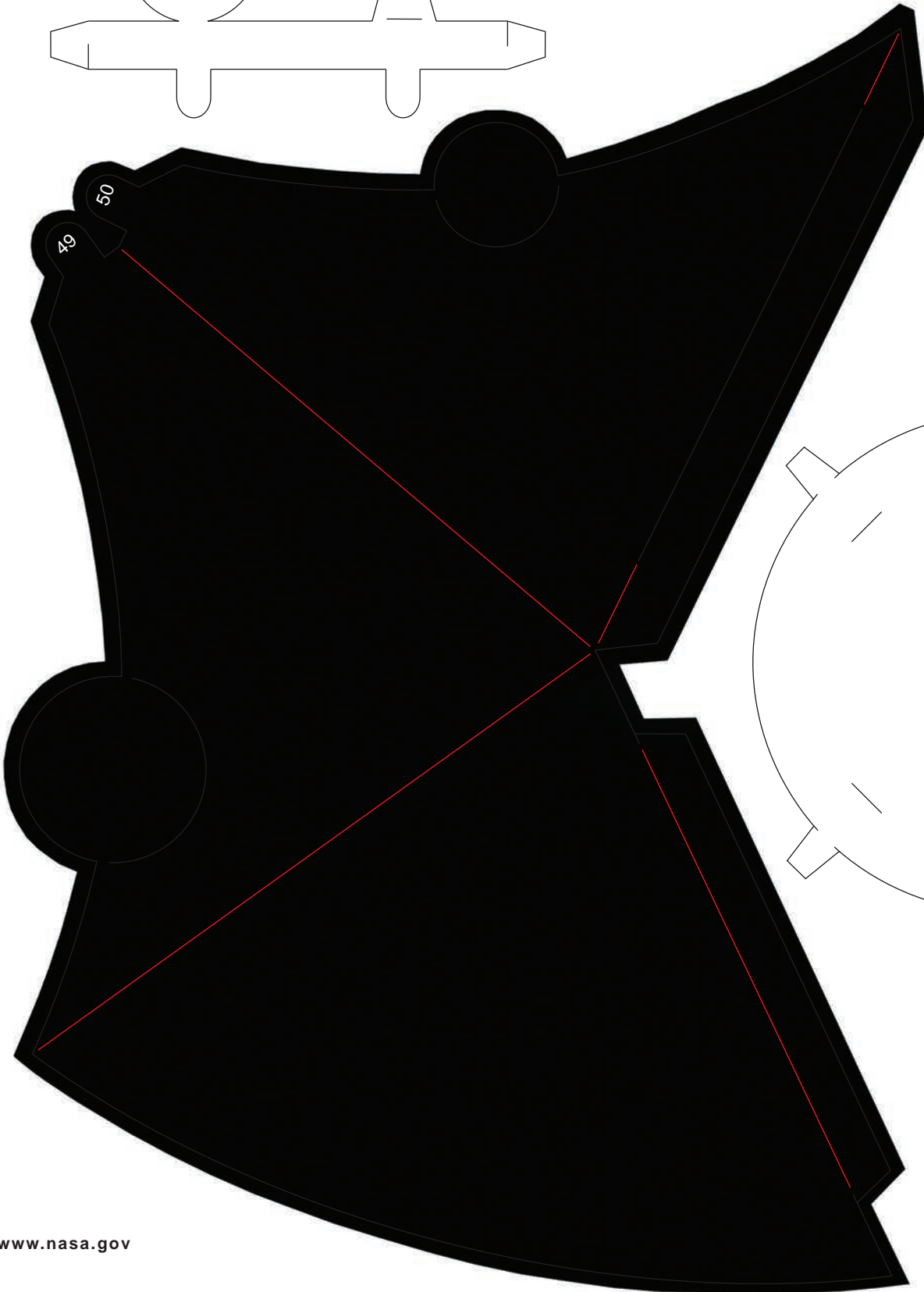
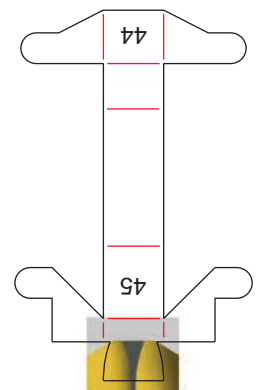
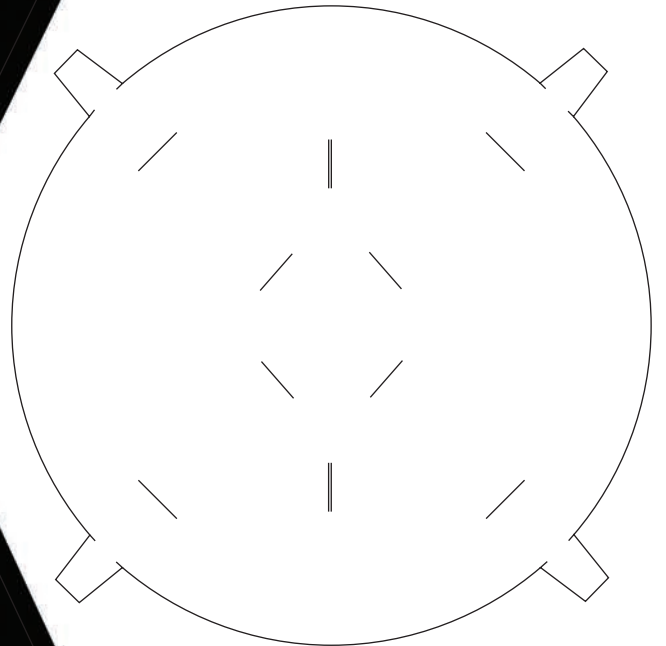
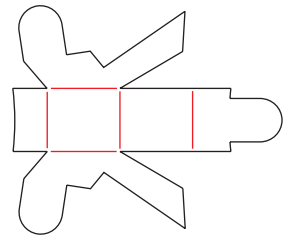
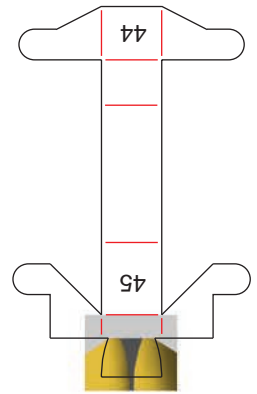
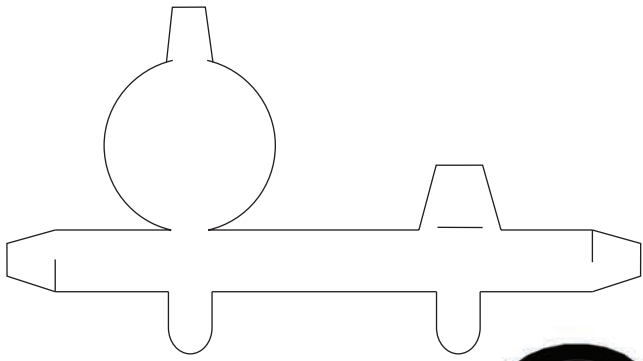


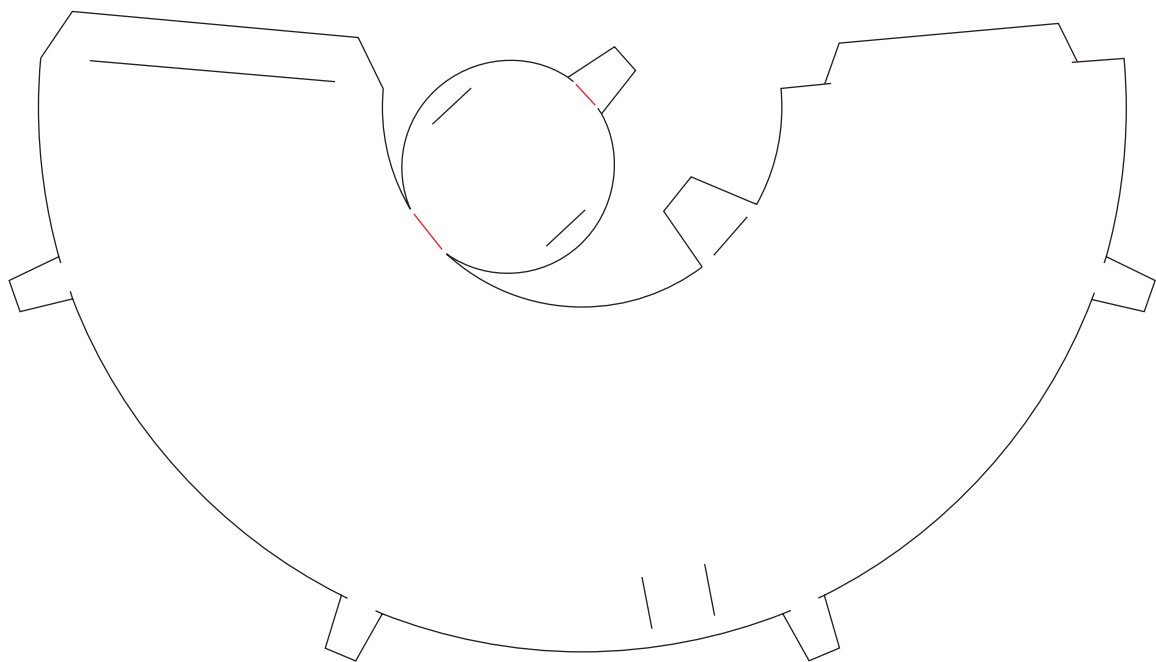
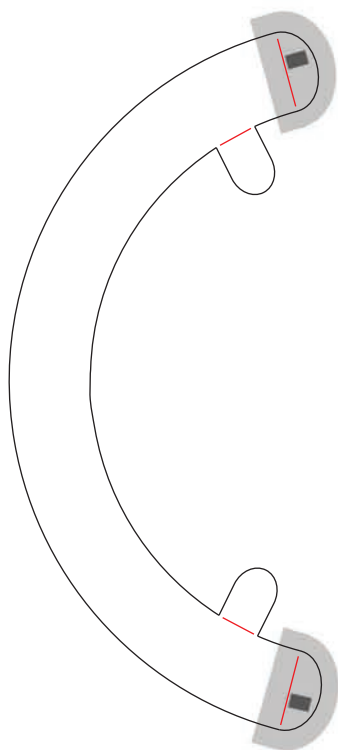
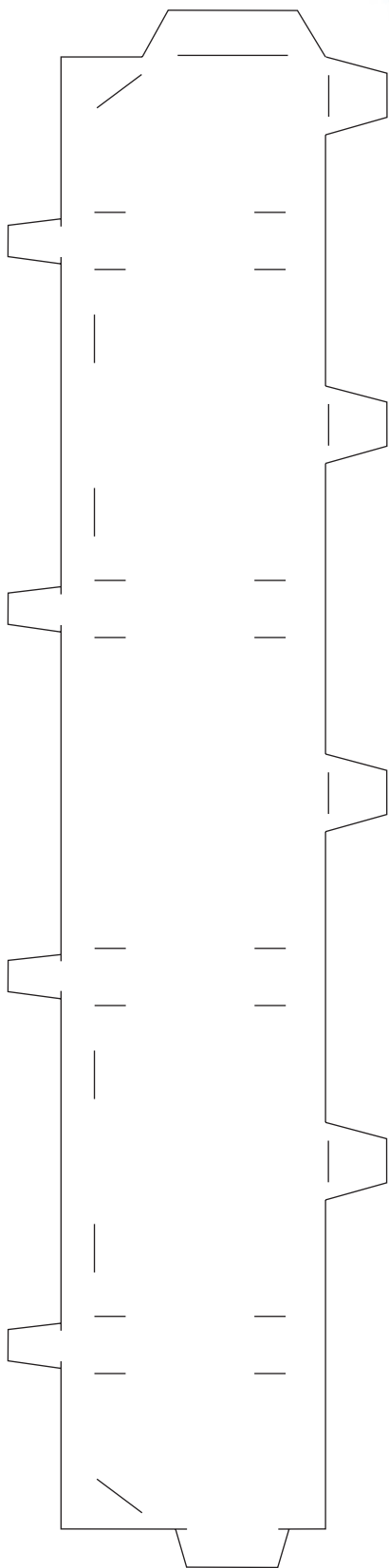
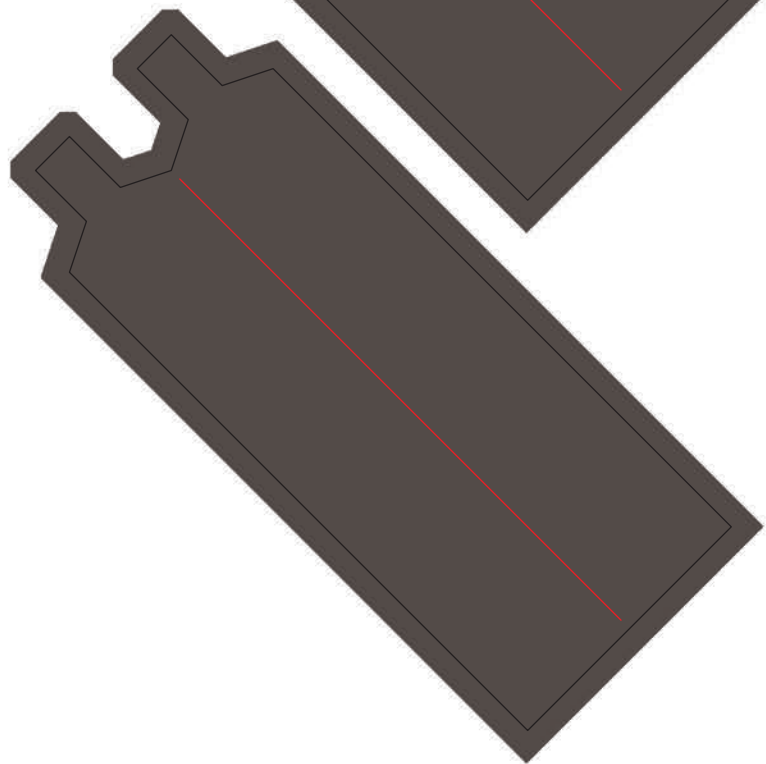
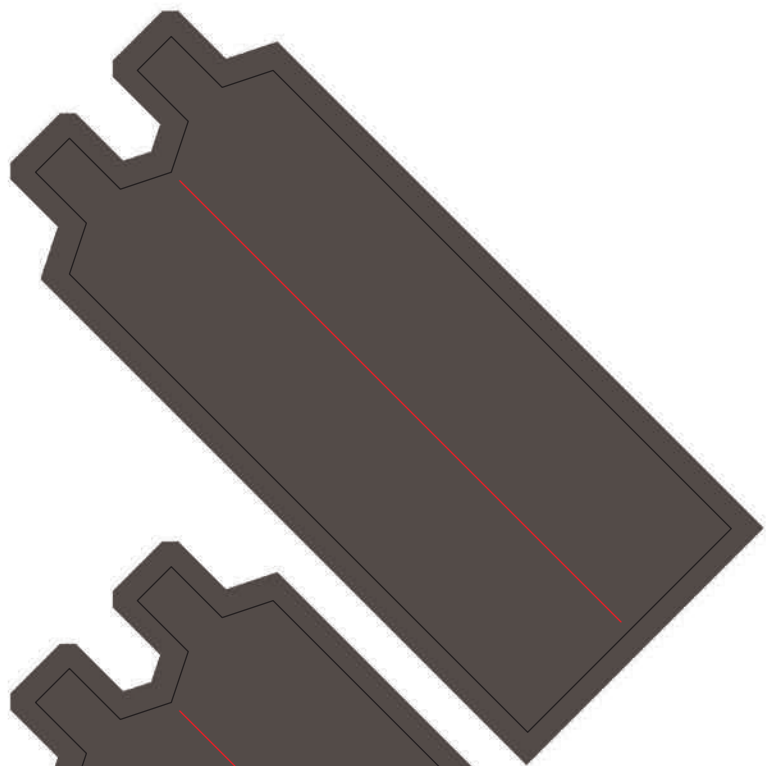
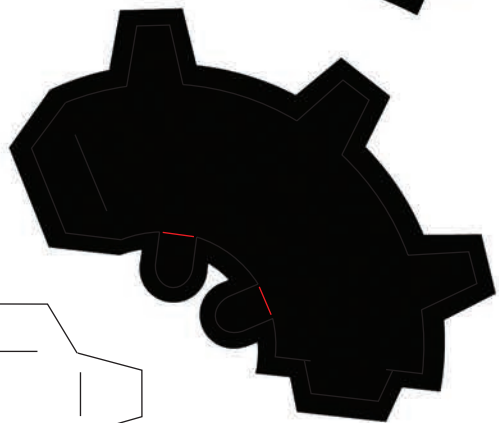
Attitude Control System

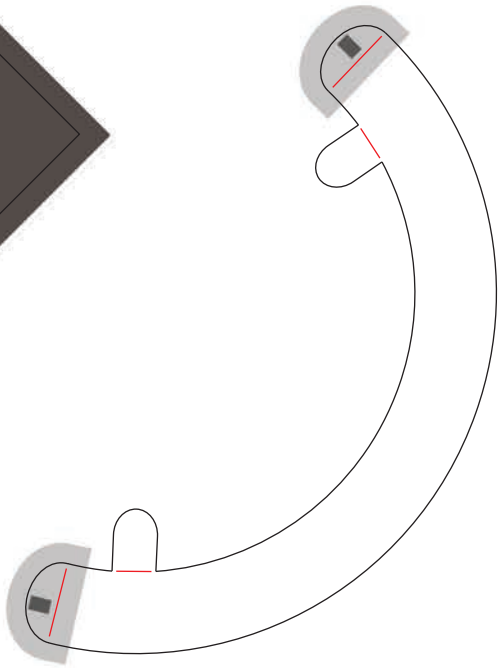
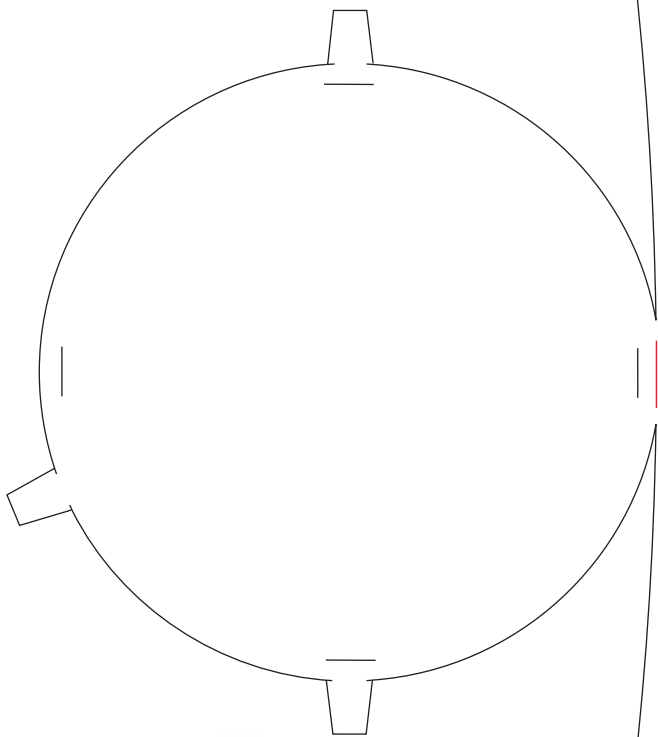
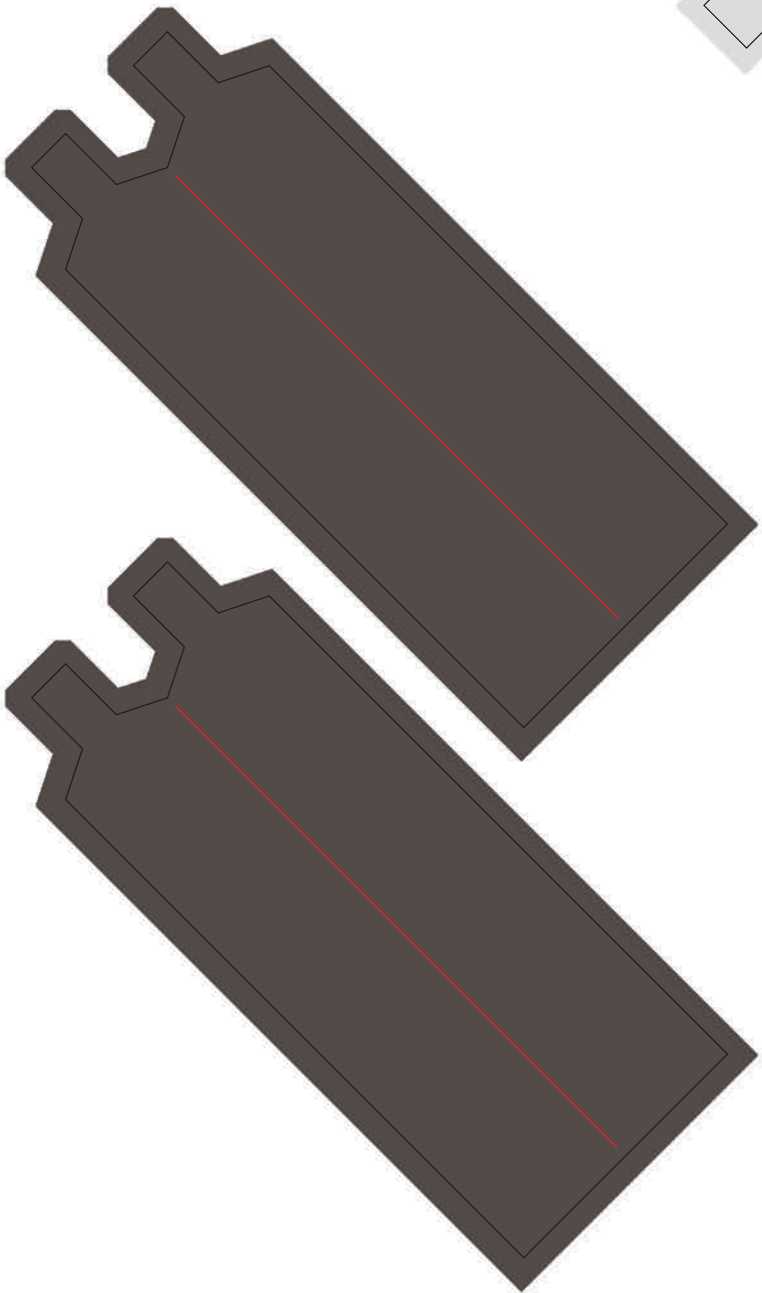
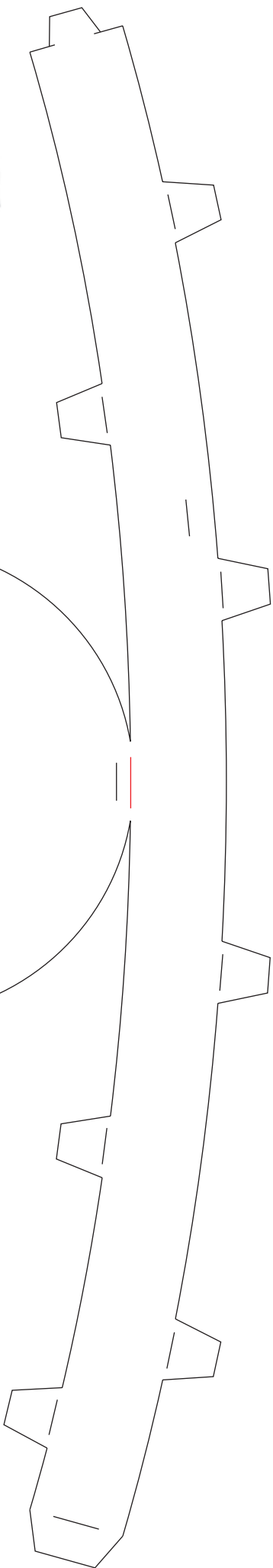
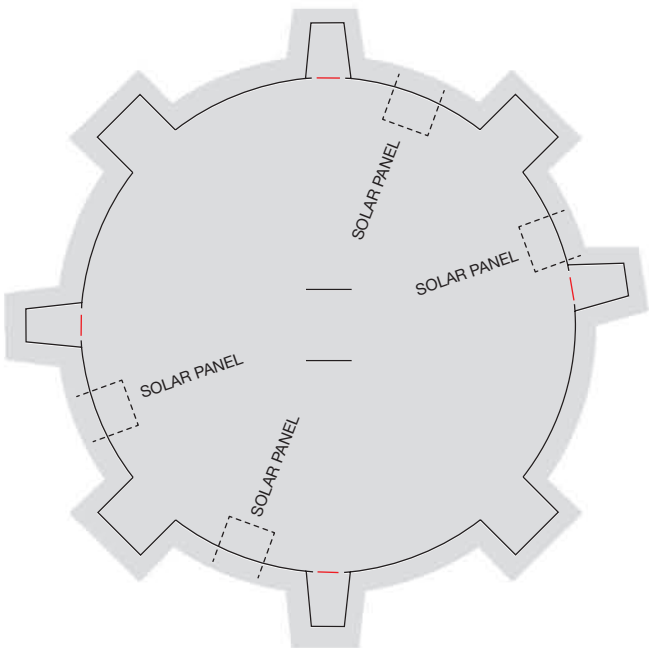
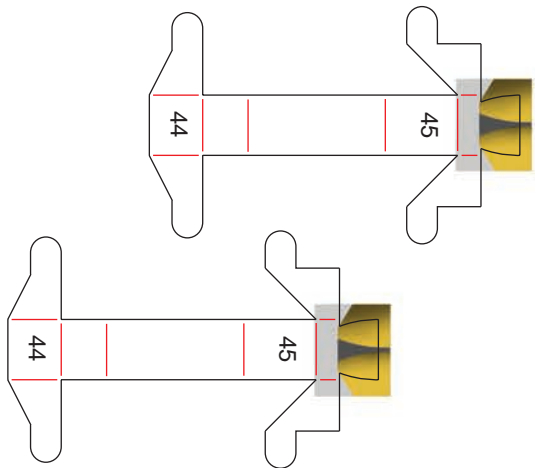


Display Stand

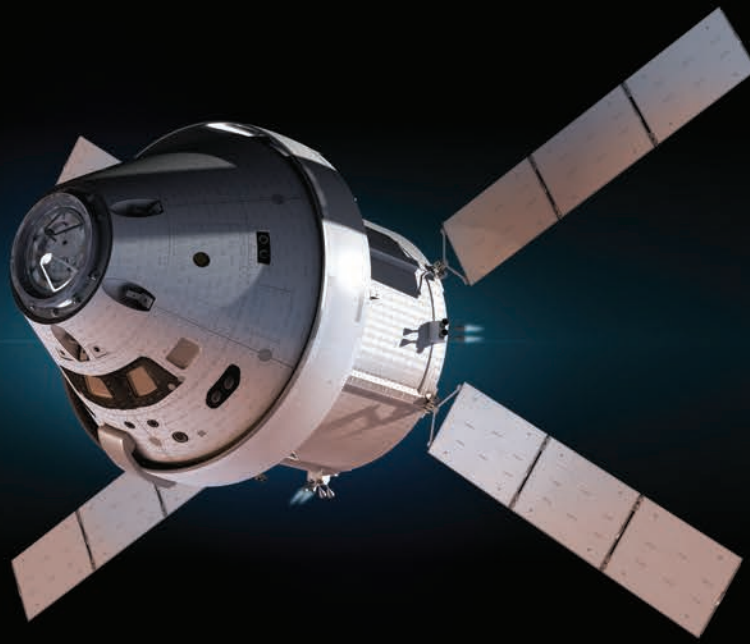












# ORION

MULTI-PURPOSE CREW VEHICLE

DESK MODEL



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Orion

70 ton Space Launch System