The Orion Spacecraft

Orion is NASA’s new spacecraft that will launch atop the world’s most powerful rocket, the Space Launch System, to take astronauts on a journey of exploration to the Moon and beyond as it embarks on a series of deep-space missions. Beginning with Artemis I, astronauts will learn to live and work in lunar orbit on long-duration missions lasting weeks and months that will prepare them for the eventual multiyear missions to Mars.

The Orion spacecraft is made up of three major elements. Astronauts will live, work, and control the spacecraft inside the Crew Module. The Service Module provides power and propulsion for Orion as well as air and water for the crew. The Launch Abort System will propel the crew to safety in case of an emergency during launch or ascent.

Build your own Orion and join us on our journey to explore around the Moon where astronauts will prepare for missions to other deep space destinations in the future.

Learn more at nasa.gov/orion and share your creation with us on Twitter with #MyOrion.

Step-by-Step Assembly Diagram

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

1. Docking Collar
2. Service Module Forward Bulkhead
3. Aft Fairing with High Gain Antenna
4. Fold each solar panel in half and tape together. Tape the 4 solar arrays to the inside of service module aft bulkhead before attaching the aft bulkhead to the service module.
5. Carefully insert display stand into two slits underneath model

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Attitude Control System

Umbilical Fairing

Service Module Forward Bulkhead

Docking Collar

Display Stand