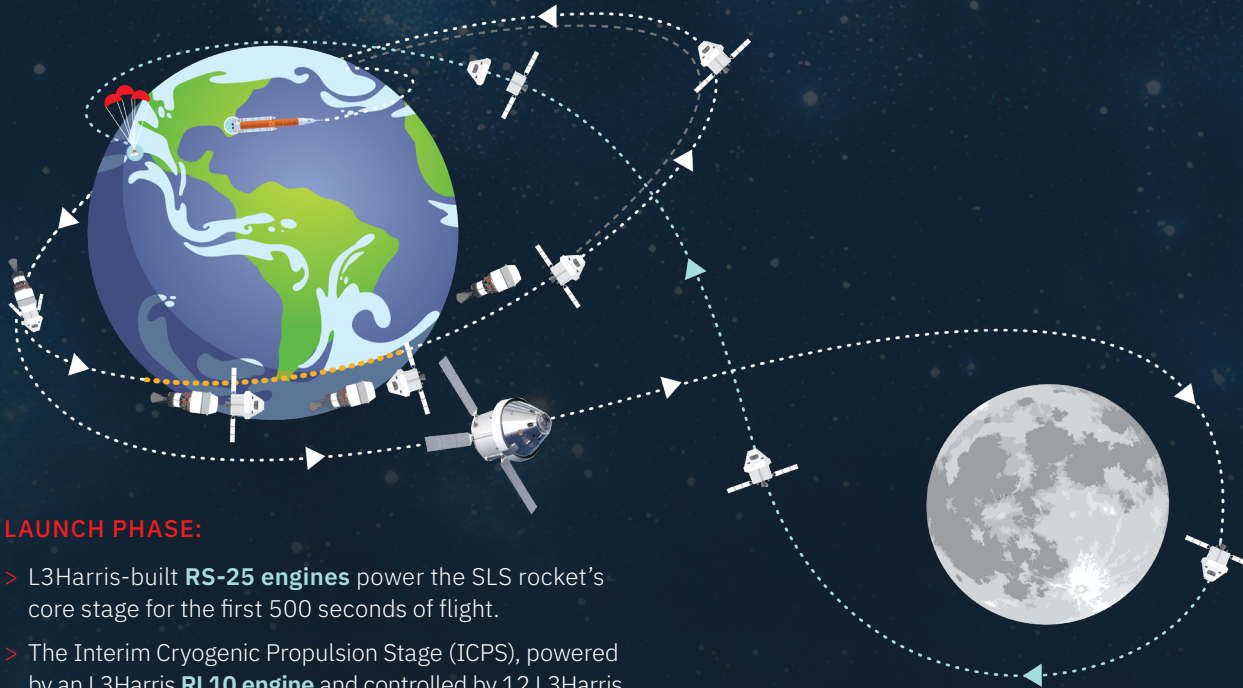


ARTEMIS II

Powered by L3Harris



LAUNCH PHASE:

- > L3Harris-built **RS-25 engines** power the SLS rocket's core stage for the first 500 seconds of flight.
- > The Interim Cryogenic Propulsion Stage (ICPS), powered by an L3Harris **RL10 engine** and controlled by 12 L3Harris MR-106 thrusters, boosts Orion into a high Earth orbit for a proximity operations demonstration.
- > **40 advanced avionics systems** precisely control and monitor the SLS core stage, ICPS, and solid rocket boosters, ensuring safe and reliable launch operations.
- > Nine **composite overwrapped pressure vessels** support the operation of SLS.
- > The L3Harris **jettison motor** separates the Launch Abort System from the Orion spacecraft to allow astronauts to continue their journey.
- > Each Artemis II crew member is equipped with two small L3Harris **emergency oxygen tanks**, totaling eight across the crew.

MISSION PHASE:

- > The L3Harris-built **Orion Main Engine** will perform the critical translunar injection burn, sending the crew on their 10-day mission around the Moon, and will also be fired to escape the Moon's gravity and return the crew to Earth.
- > L3Harris **R-4D-11 thrusters** on Orion will execute vital course corrections and maneuvering throughout the mission and serve as backups to the Orion Main Engine.
- > L3Harris' **Orion audio system** enables clear, continuous communication between astronauts and mission control.
- > Four **composite overwrapped pressure vessels** on Orion's service module provide breathable air to the astronauts inside the spacecraft.



CREDIT: NASA

LANDING PHASE:

- > L3Harris **MR-104 thrusters** will enable precise trajectory adjustments to position Orion's heatshield properly for re-entry and splashdown, supporting the crew's safe return to Earth.
- > Upon splashdown, Orion will deploy its self-righting flotation system, which will be inflated with helium stored in five **composite overwrapped pressure vessels** built by L3Harris.

Proven Propulsion. Fueled by Innovation.

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