

# ARTEMIS II

## FIRST CREWED FLIGHT TO THE MOON SINCE APOLLO

### FIRSTS

First international astronaut to travel to deep space

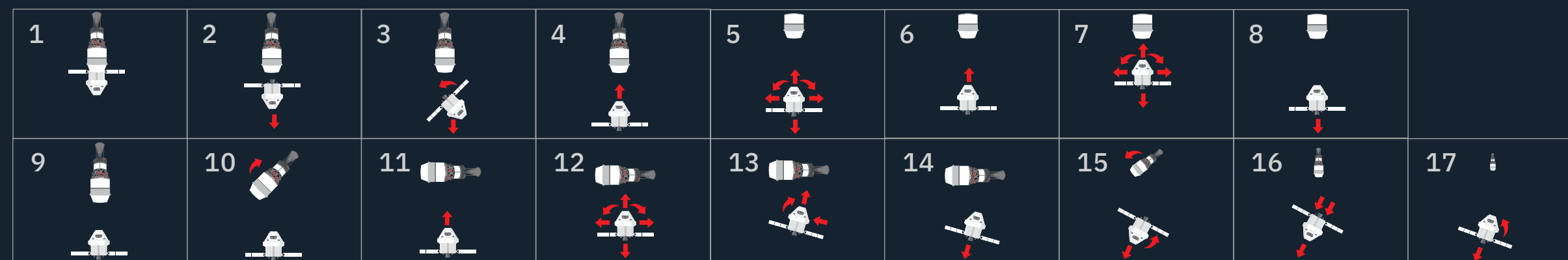
First crewed mission of the SLS and Orion

First time returning humans to lunar vicinity in more than 50 years

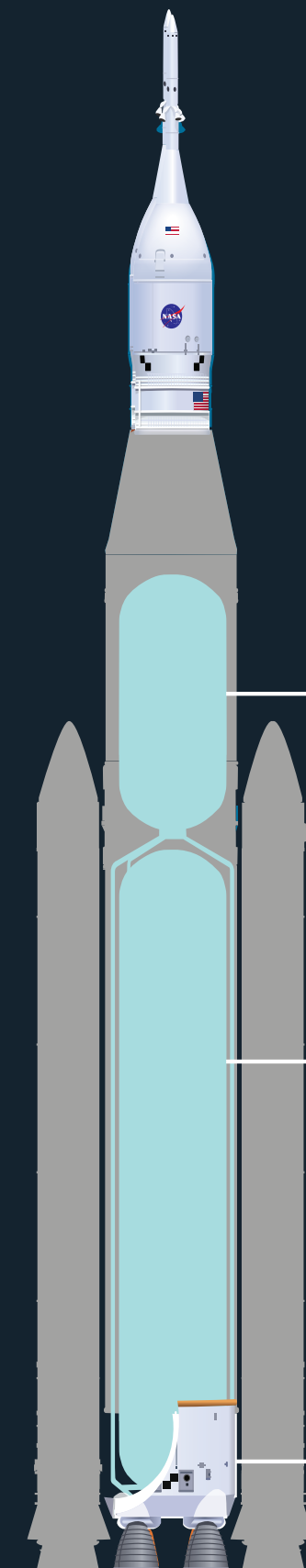
The average Earth/Moon distance is approximately 230,000 miles. Artemis II Crew will fly 4,600 miles beyond the Moon.

#### PROXIMITY OPERATIONS DEMONSTRATION SEQUENCE

The Artemis II proximity operations demonstration between Orion and the ICPS upper stage will prepare for future missions where Orion will dock with Gateway and lander vehicles.



SLS CORE STAGE



### THE RS-25 ENGINE

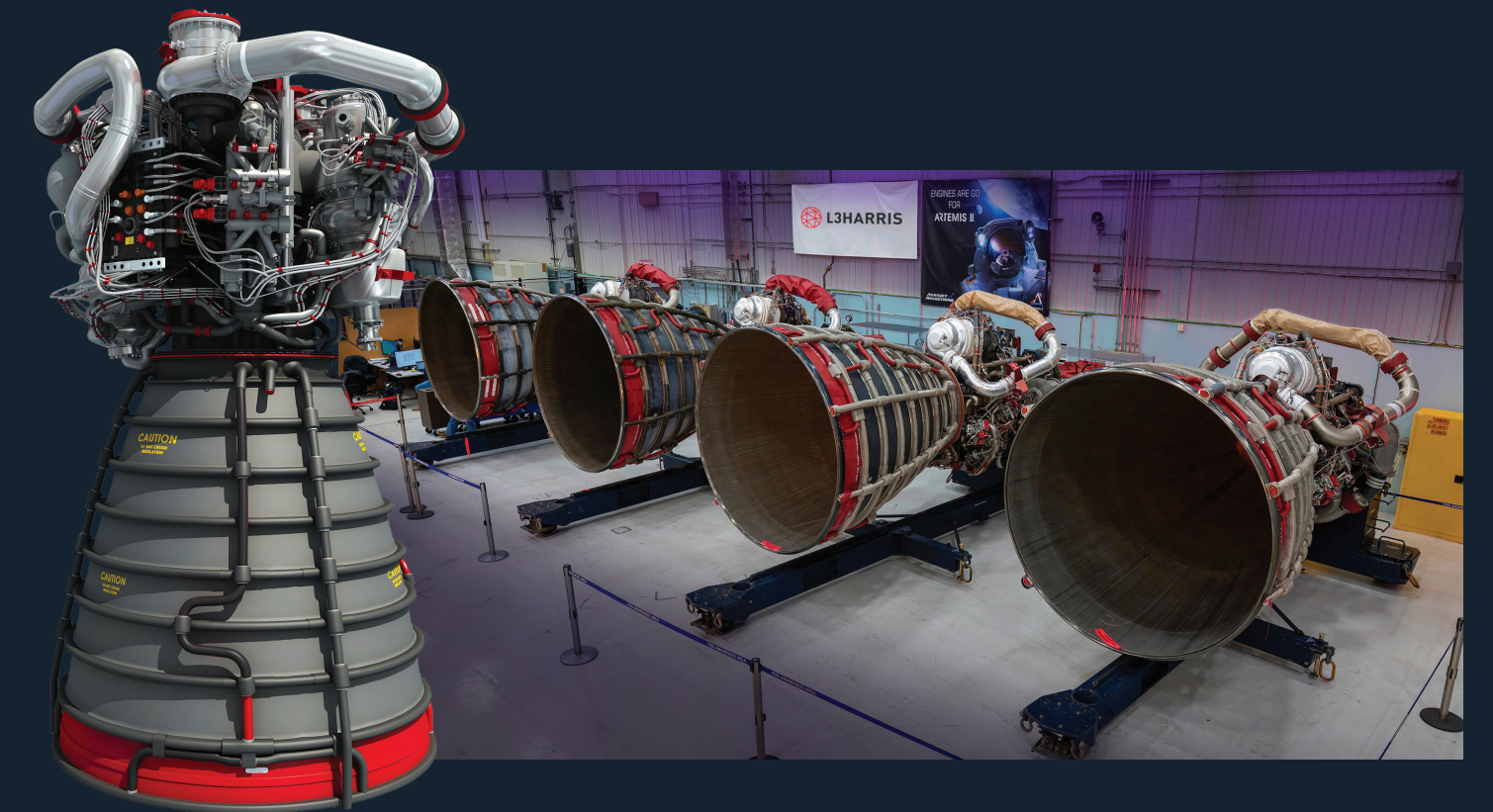
The Most Reliable, Flight Proven Liquid Booster Rocket Engine Ever Built

A collective 1.1 M seconds of hot-fire experience and 409 engine flights.

LIQUID OXYGEN (LOX) TANK

LIQUID HYDROGEN (LH2) TANK

ENGINE SECTION WITH 4 RS-25 ENGINES



SLS REACHES MACH 23 FASTER THAN 17,000 MPH IN JUST 8.5 MINUTES

The RS-25 engine is a reliable, high-performance engine in a class all by itself.

#### ENGINE 2059

5 Flights  
Including Space Shuttle Penultimate Mission

#### ENGINE 2047

15 Flights  
Including Space Shuttle Final Mission

#### ENGINE 2062

Inaugural Flight  
Assembled at the end of the Space Shuttle program at NASA's Kennedy Space Center, but never flew

#### ENGINE 2061

2 Flights  
Including assembly of the International Space Station

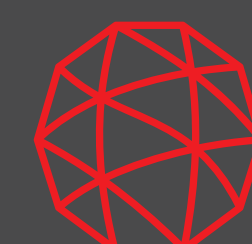
Built by L3Harris, engines 2059, 2047, 2062 and 2061 will support the Artemis II mission. Three of the RS-25 engines are upgraded Space Shuttle Main Engines (SSMEs) that flew before; one will make its inaugural flight on the Artemis II mission. Three of the engines supported 22 successful Space Shuttle missions, and now they will usher in a new era of exploration.

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ARTEMIS II - NASA'S SPACE LAUNCH SYSTEM (SLS)  
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