

# NASA's Space Launch System SLS RS-25 AWESOMENESS

The Most Reliable, Flight Proven Engine Ever Built.

Powered by Aerojet Rocketdyne






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

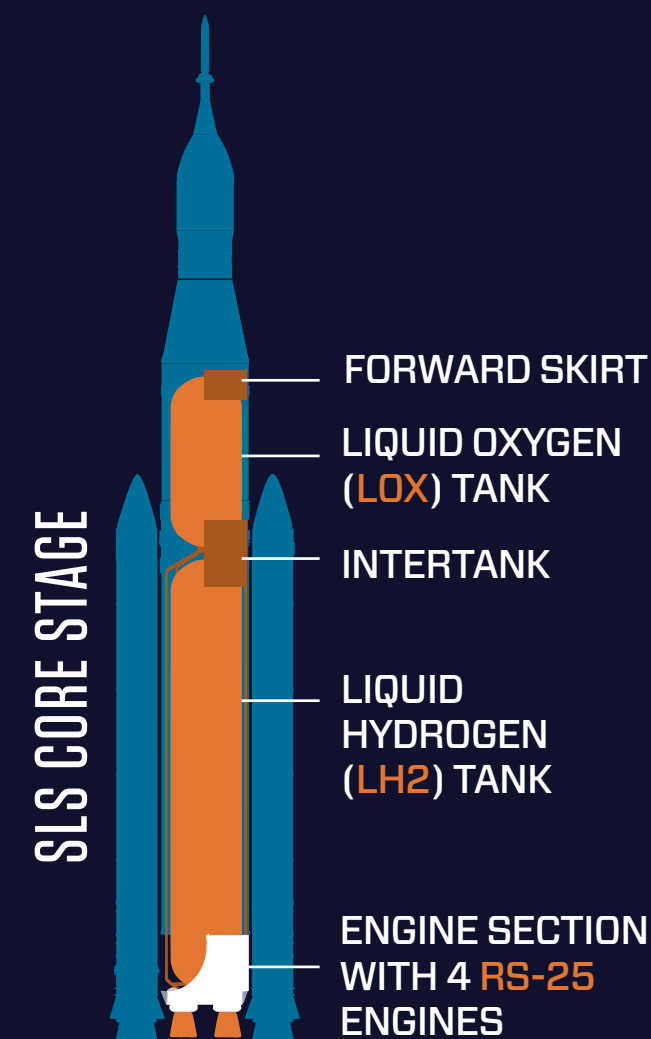
The RS-25 engines are flight proven. A collective **1.1 M seconds** of hot-fire experience and **405 engine flights**.

SLS REACHES **MACH 23**  
Faster than **17,000 MPH** in just 8.5 minutes

Anticipating the need for new engines after the current inventory is expended, NASA and Aerojet Rocketdyne have restarted production of new RS-25s that will cost at least **30 percent less** than previous RS-25 engines while providing 521,000 pounds of thrust, and will operate at 111% power level.



 24 ENGINES  
 IN PRODUCTION  
 16 IN INVENTORY



Upgraded for SLS from the Space Shuttle program, engines 2045, 2056, 2058 and 2060 will support the first SLS flight, Artemis I, and the Core Stage Green Run test. These four flight proven engines contributed to **21 successful Space Shuttle flights** for more than three decades. Two of the engines supported the last Space Shuttle mission, STS-135, and now they will usher in a new era of exploration.

## ENGINE 2056

9 Starts  
4,389 Seconds  
4 Flights  
Including Hubble  
Telescope Servicing

## ENGINE 2045

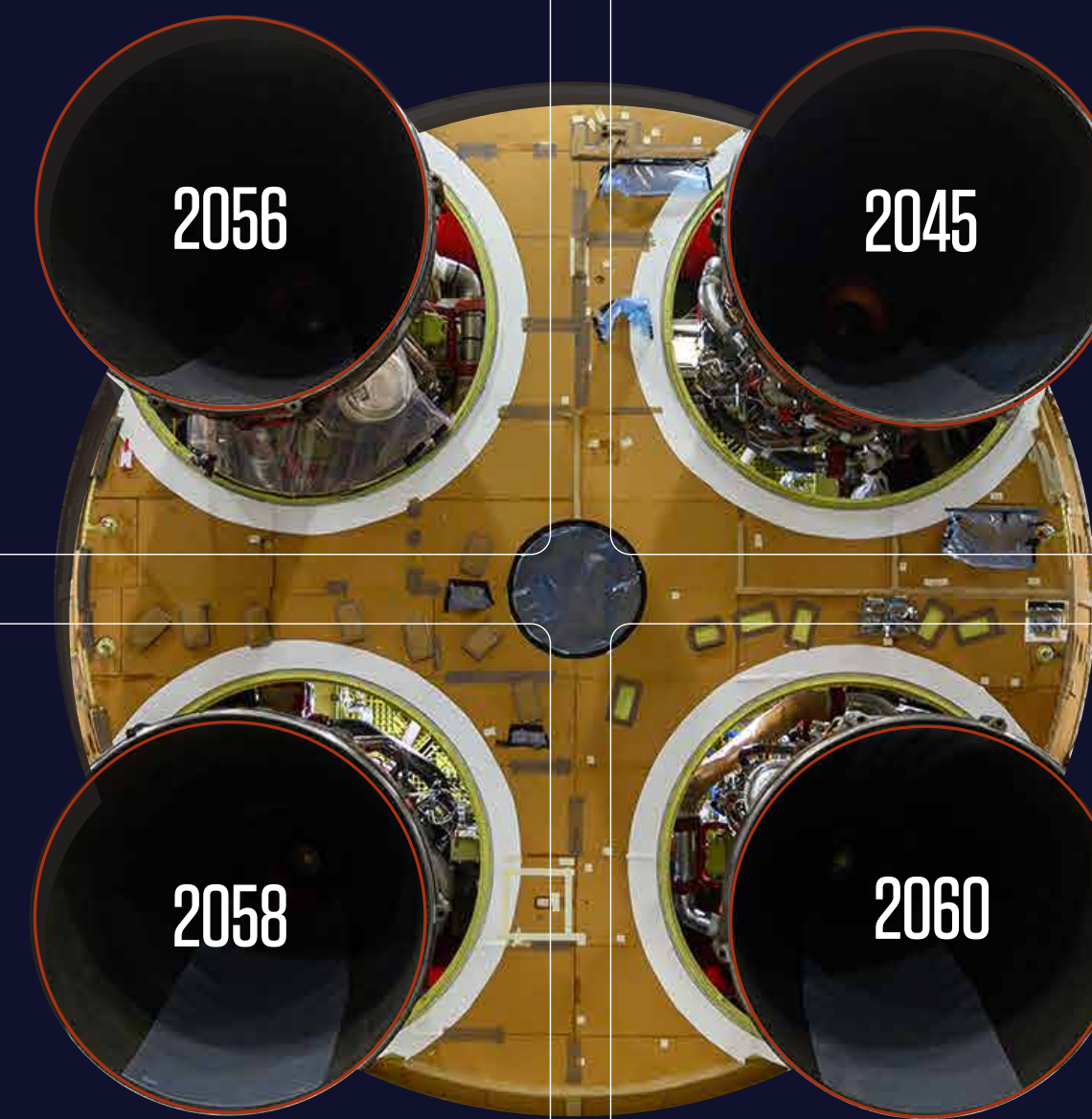
14 Starts  
7,016 Seconds  
12 Flights  
Including John Glenn Flight  
and Shuttle Final Mission

## ENGINE 2058

8 Starts  
4,105 Seconds  
6 Flights  
6 Missions to  
Space Station

## ENGINE 2060

6 Starts  
2,951 Seconds  
3 Flights  
Including Shuttle  
Final Mission



Green Run is composed of a series of tests validating core stage design and performance. It also verifies the readiness of the stage to be shipped to Kennedy Space Center for final processing and integration before launch. **Green Run includes several first-time events for the world's largest rocket stage.**

NASA's Space Launch System (SLS), Core Stage GREEN RUN Test - powered by Aerojet Rocketdyne

**AEROJET  
ROCKETDYNE**  
ROCKET.COM/GREENRUN