

### WEBCAST

You can watch a live webcast of this mission, which will begin about 15 minutes prior to liftoff, here.

#### **PHOTOS**

High-resolution photos will be posted at <u>flickr.com/spacex</u>.

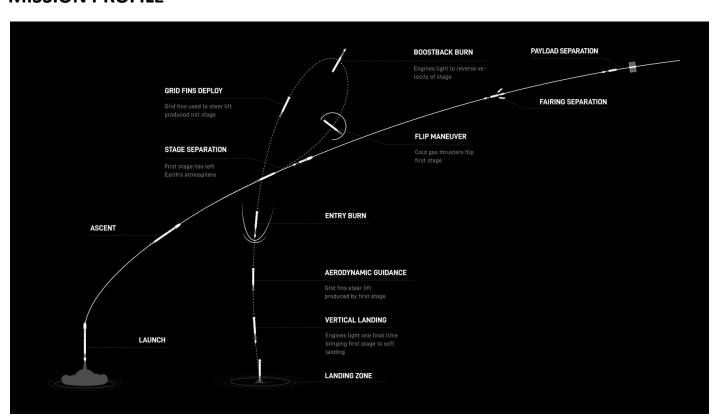
## **NROL-108 MISSION**

#### **MISSION OVERVIEW**

SpaceX is now targeting Saturday, December 19 for launch of the NROL-108 mission from Launch Complex 39A (LC-39A) at Kennedy Space Center, Florida. Saturday's three-hour launch window opens at 9:00 a.m. EST, or 14:00 UTC, and closes at 12:00 p.m. EST, or 17:00 UTC.

Falcon 9's first stage booster previously supported launch of SpaceX's 19th and 20th cargo resupply missions to the International Space Station, a Starlink mission, and the SAOCOM 1B mission. Following stage separation, SpaceX will land Falcon 9's first stage on Landing Zone 1 at Cape Canaveral Space Force Station in Florida.

### **MISSION PROFILE**



# **MISSION TIMELINE (ALL TIMES APPROXIMATE)**

#### **COUNTDOWN**

Hr/Min/Sec	Event
- 00:38:00	SpaceX Launch Director verifies go for propellant load
- 00:35:00	RP-1 (rocket grade kerosene) loading underway
- 00:35:00	1st stage LOX (liquid oxygen) loading underway
- 00:16:00	2nd stage LOX loading underway
- 00:07:00	Falcon 9 begins engine chill prior to launch
- 00:01:00	Command flight computer to begin final prelaunch checks
- 00:01:00	Propellant tank pressurization to flight pressure begins
- 00:00:45	SpaceX Launch Director verifies go for launch
- 00:00:03	Engine controller commands engine ignition sequence to start
- 00:00:00	Falcon 9 liftoff

## LAUNCH, LANDING AND DEPLOYMENT

Hr/Min/Sec	Event
00:01:12	Max Q (moment of peak mechanical stress on the rocket)
00:02:18	1st stage main engine cutoff (MECO)
00:02:22	1st and 2nd stages separate
00:02:30	2nd stage engine starts
00:02:35	Boostback burn
00:02:41	Fairing deployment
00:06:23	1st stage entry burn begins
00:08:15	1st stage landing