

UPCOMING LAUNCH

# INTUITIVE MACHINES IM-1 MISSION

WATCH

SpaceX is targeting Wednesday, February 14 for a Falcon 9 launch of the Intuitive Machines IM-1 mission to a lunar transfer orbit from Launch Complex 39A (LC-39A) at Kennedy Space Center in Florida. The instantaneous launch window is at 12:57 a.m. ET. If needed, a backup opportunity is available Thursday, February 15 at 1:05 a.m. ET.

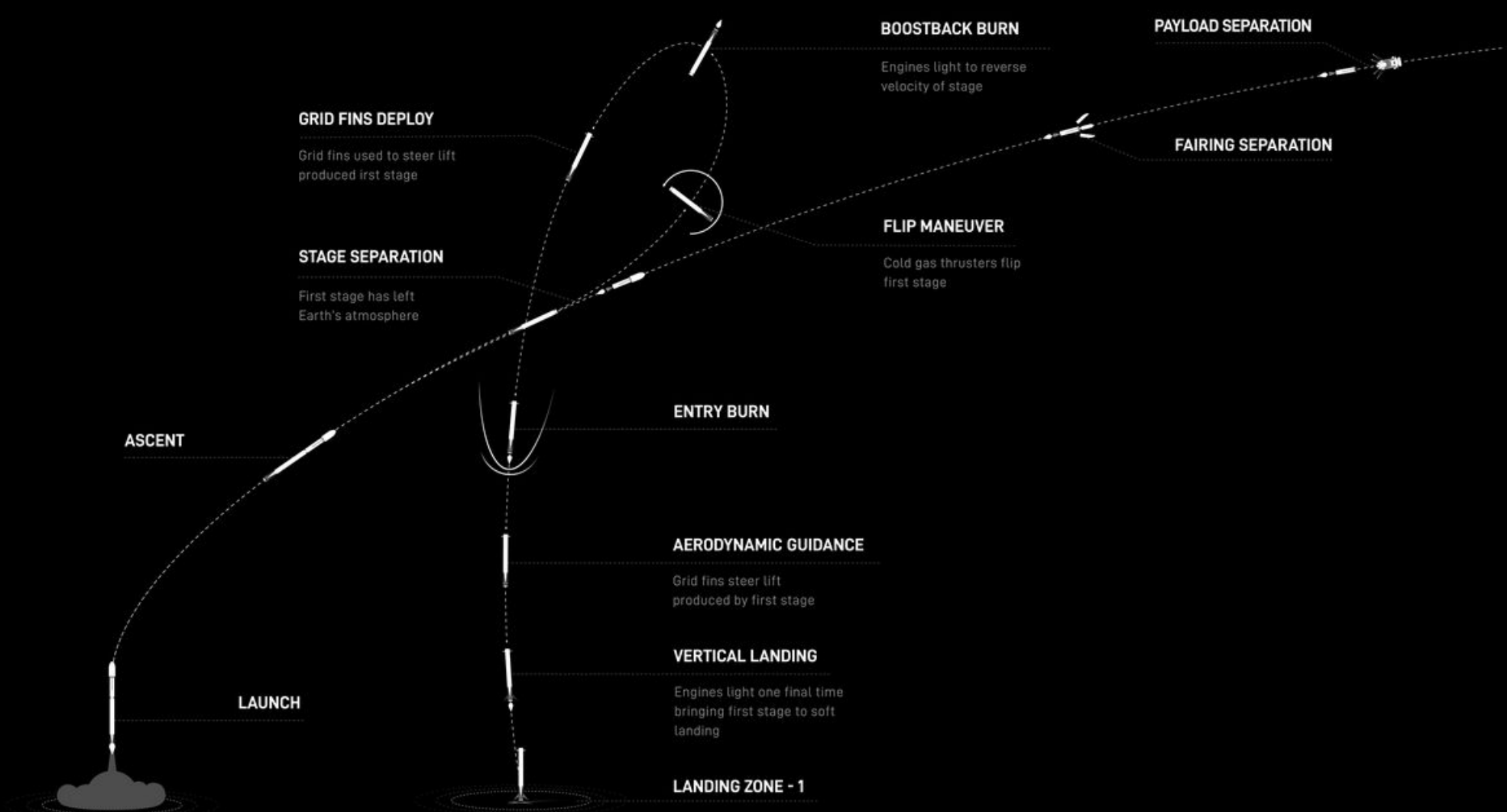
A live webcast of this mission will begin on **X @SpaceX** about 45 minutes prior to liftoff. **Watch live.**

Approximately two and a half hours prior to liftoff, teams will begin loading the lunar lander with cryogenic methane and oxygen on the pad ahead of stepping into propellant load for Falcon 9.

This is the 18th flight of the first stage booster supporting this mission, which previously launched GPS III-3, Turksat 5A, Transporter-2, Intelsat G-33/G-34, Transporter-6, and 12 Starlink missions. Following stage separation, the first stage will land on Landing Zone 1 (LZ-1) at Cape Canaveral Space Force Station in Florida.

## 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 begins
00:35:00	1st stage LOX (liquid oxygen) loading begins
00:16:00	2nd stage LOX loading begins
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



## COUNTDOWN

All Times Approximate

HR/MIN/SEC	EVENT
00:01:12	Max Q (moment of peak mechanical stress on the rocket)
00:02:14	1st stage main engine cutoff (MECO)
00:02:17	1st and 2nd stages separate
00:02:25	2nd stage engine starts
00:02:30	Boostback burn starts
00:03:06	Fairing deployment
00:03:27	Boostback burn Ends
00:06:11	1st stage entry burn start
00:06:22	1st stage entry burn ends
00:07:17	1st stage landing burn start
00:07:34	1st stage landing
00:07:46	2nd stage engine cutoff (SECO-1)
00:41:40	2nd stage engine starts (SES-2)
00:42:33	2nd stage engine cutoff (SECO-2)
00:48:24	IM-1 deploys