SXM-8 MISSION

MISSION OVERVIEW

SpaceX is targeting Sunday, June 6 for Falcon 9's launch of the SXM-8 mission from Space Launch Complex 40 at Cape Canaveral Space Force Station in Florida. The one-hour and 59-minute launch window opens at 12:26 a.m. EDT, 4:26 UTC, and a backup launch opportunity is available on Monday, June 7 with the same one-hour and 59-minute launch window.

Falcon 9's first stage booster previously supported SpaceX's Crew-1 and Crew-2 missions, which launched astronauts to the International Space Station. Following stage separation, SpaceX will land Falcon 9's first stage on the "Just Read the Instructions" droneship, which will be located in the Atlantic Ocean.
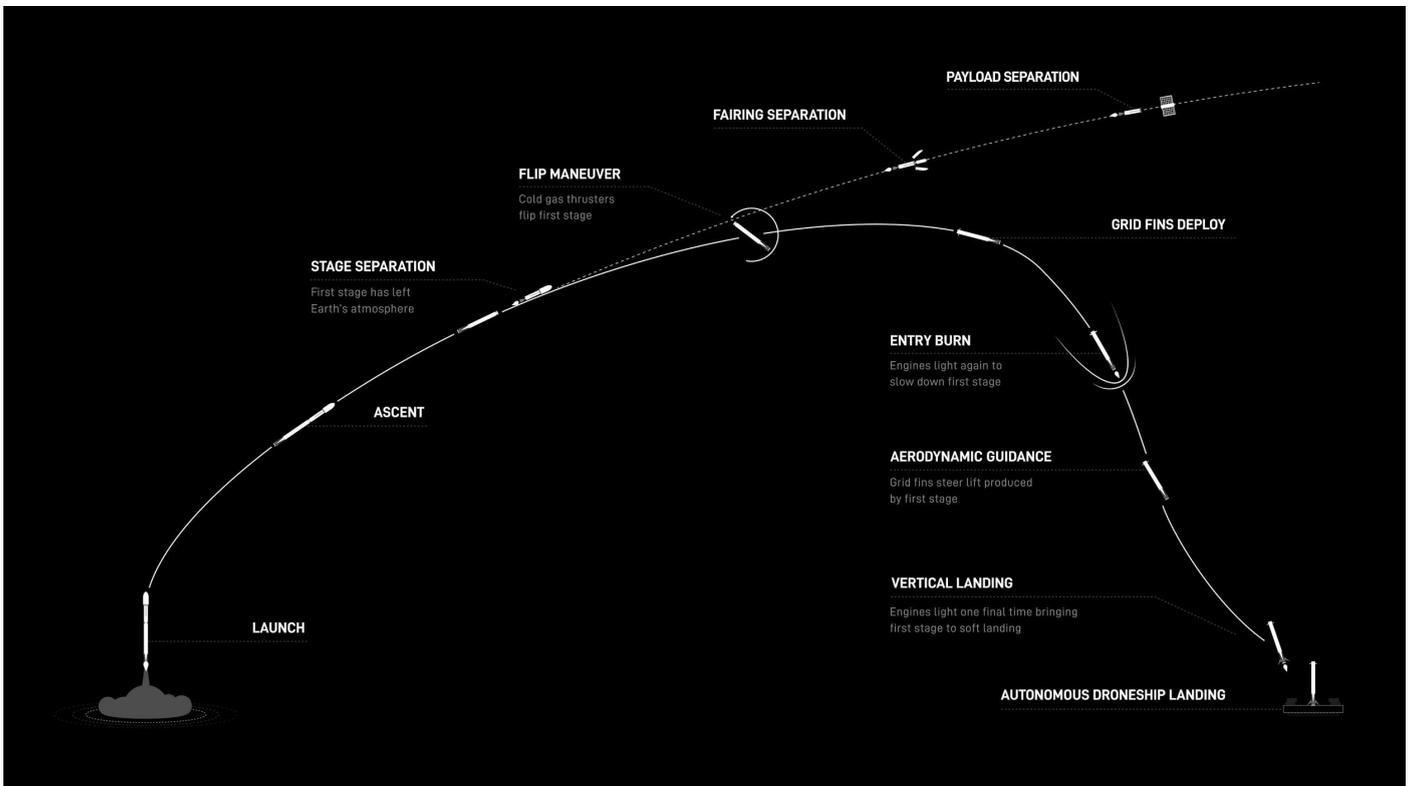
WEBCAST

A live webcast of this mission will begin about 15 minutes prior to liftoff.

PHOTOS

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

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 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 pre-launch engine chill
- 00:01:00	Command flight computer to begin final prelaunch checks
- 00:01:00	Propellant tanks pressurize for flight
- 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)
00:02:33	1st stage main engine cutoff (MECO)
00:02:36	1st and 2nd stages separate
00:02:44	2nd stage engine starts
00:03:23	Fairing deploy
00:06:31	1st stage entry burn begins
00:08:12	2nd stage engine cutoff (SECO)
00:08:40	1st stage landing
00:26:07	2nd stage engine restarts
00:26:51	2nd stage engine cutoff (SECO-2)
00:31:42	SXM-8 deploys