



GPS III SPACE VEHICLE 05 MISSION

MISSION OVERVIEW

SpaceX is targeting Thursday, June 17 for Falcon 9's launch of the [GPS III Space Vehicle 05 mission](#) from Space Launch Complex 40 at Cape Canaveral Space Force Station in Florida. The 15-minute launch window opens at 12:09 p.m. EDT, 16:09 UTC, and a backup launch opportunity is available on Friday, June 18 with a 15-minute launch window opening at 12:05 p.m. EDT, 16:05 UTC.

Falcon 9's first stage booster previously supported launch of GPS III Space Vehicle 04. 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.

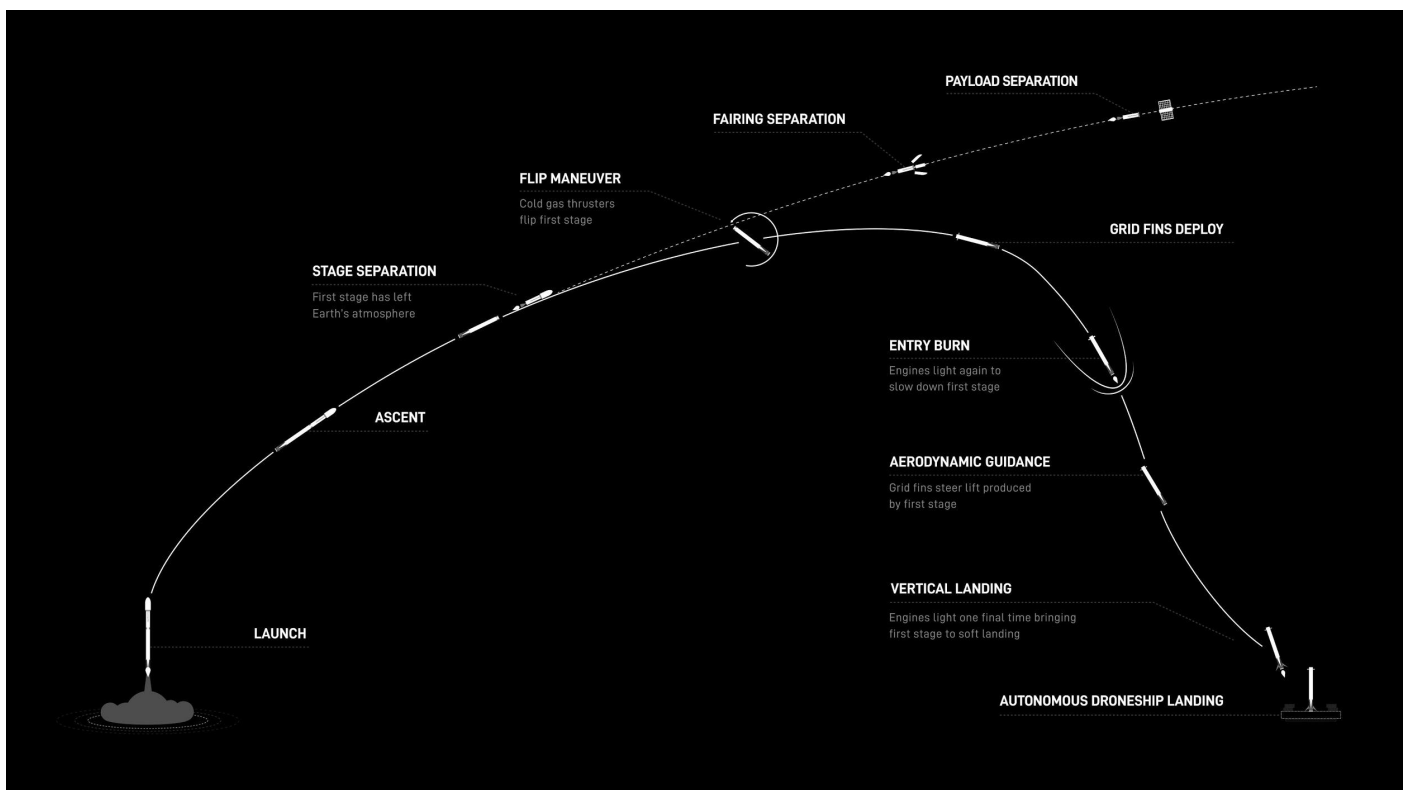
WEBCAST

[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](https://www.flickr.com/photos/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 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 tanks 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)
00:02:32	1st stage main engine cutoff (MECO)
00:02:35	1st and 2nd stages separate
00:02:43	2nd stage engine starts
00:03:27	Fairing deploy
00:06:18	1st stage entry burn begins
00:08:07	2nd stage engine cutoff (SECO)
00:08:33	1st stage landing
01:03:35	2nd stage engine restarts
01:04:19	2nd stage engine cutoff (SECO-2)
01:29:20	GPS III Space Vehicle 05 deploys