



CRS-24 MISSION

MISSION OVERVIEW

SpaceX is targeting Tuesday, December 21 for Falcon 9's launch of its 24th Commercial Resupply Services (**CRS-24**) mission to the International Space Station. Liftoff is targeted for 5:06 a.m. EST, or 10:06 UTC, from historic Launch Complex 39A (LC-39A) at Kennedy Space Center in Florida. A backup launch opportunity is available on Wednesday, December 22 at 4:43 a.m. EST, or 9:43 UTC.

Following stage separation, Falcon 9's first stage will land on the Just Read the Instructions droneship in the Atlantic Ocean.

WEBCAST

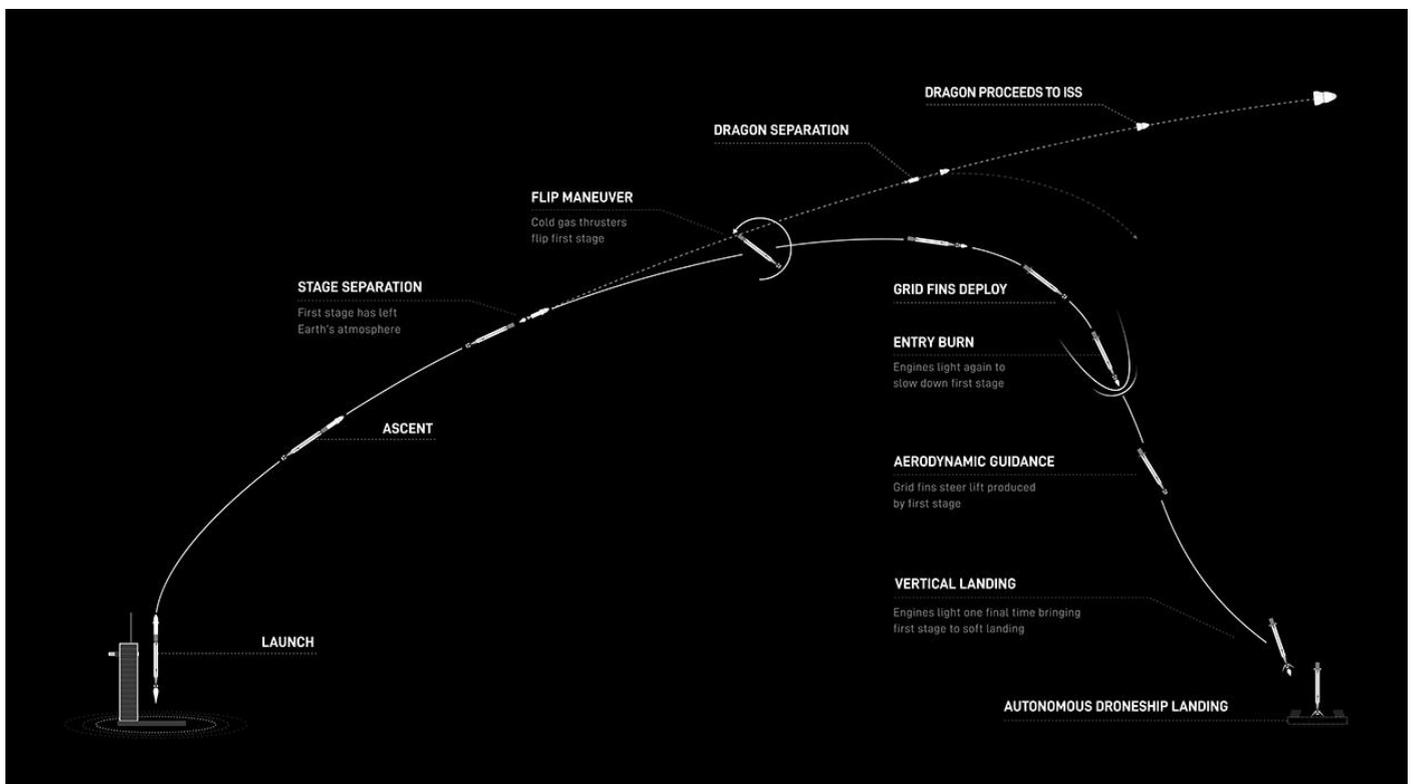
[A live webcast of this mission](#) will begin about 15 minutes prior to liftoff.

PHOTOS

High-resolution photos will be posted at [flickr.com/spacex](https://www.flickr.com/photos/spacex/).

The Dragon supporting this mission previously supported CRS-22. Approximately twelve minutes after liftoff, Dragon will separate from Falcon 9's second stage and autonomously dock to the space station on Wednesday, December 22 at approximately 4:38 a.m. EST, 9:38 UTC.

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)
00:02:31	1st stage main engine cutoff (MECO)
00:02:35	1st and 2nd stages separate
00:02:42	2nd stage engine starts
00:06:31	1st stage entry burn start
00:07:00	1st stage entry burn end
00:08:18	1st stage landing burn start
00:08:40	2nd stage engine cutoff (SECO)
00:08:44	1st stage landing burn complete
00:11:51	Dragon separates from 2nd stage