

CRS-28 MISSION

MISSION OVERVIEW

SpaceX is targeting Monday, June 5 for Falcon 9's launch of Dragon's 28th Commercial Resupply Services (**CRS-28**) mission to the International Space Station from Launch Complex 39A (LC-39A) at NASA's Kennedy Space Center in Florida. The instantaneous launch window is at 11:47 a.m. ET (15:47 UTC) and a backup launch opportunity is available on Wednesday, June 7 at 11:01 a.m. ET (15:01 UTC) pending range approval.

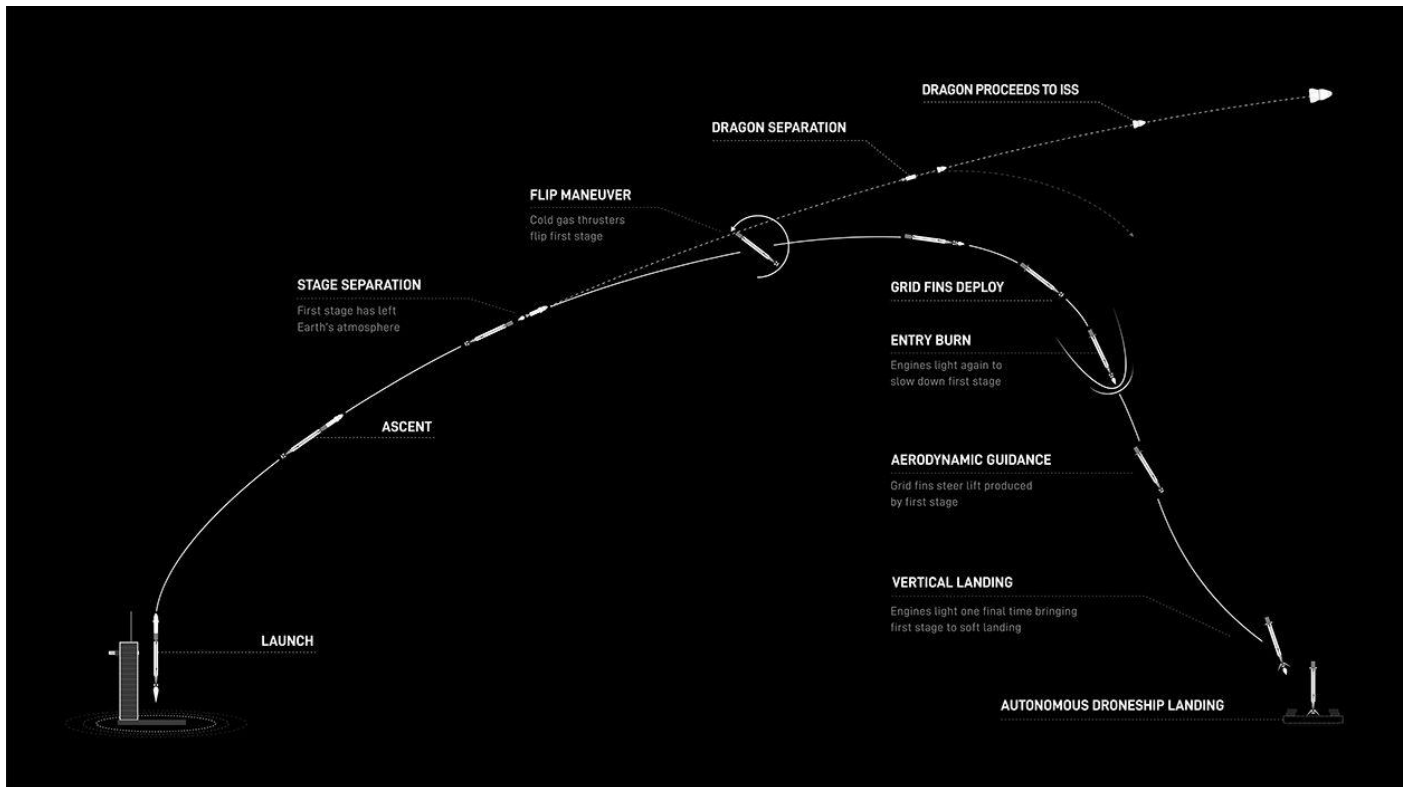
This is the fifth flight of the first stage booster supporting this mission, which previously launched Crew-5, GPS III Space Vehicle 06, Inmarsat I-6 F2, and one Starlink mission. Following stage separation, Falcon 9 will land on the A Shortfall of Gravitas droneship in the Atlantic Ocean.

CRS-28 is the fourth flight for this Dragon spacecraft, which previously flew CRS-21, CRS-23, and CRS-25 to the space station. After an approximate 18-hour flight, Dragon will autonomously dock with the orbiting laboratory on Tuesday, June 6 at approximately 5:50 a.m. ET (9:50 UTC).

WEBCAST

A live webcast of this mission will begin about 20 minutes prior to liftoff.

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
- 00:05:00	Dragon transitions to internal power
- 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)
00:02:31	1st Stage Main Engine Cutoff (MECO)
00:02:34	1st and 2nd Stages Separate
00:02:41	2nd Stage Engine Starts
00:06:46	1st Stage Entry Burn Begins
00:07:07	1st Stage Entry Burn Ends
00:08:21	1st Stage Landing Burn Begins
00:08:50	2nd Stage Engine Cutoff (SECO-1)
00:08:51	1st Stage Landing
00:12:05	Dragon Separates from 2nd Stage
00:12:53	Dragon Nosecone Open Sequence Begins