

STARLINK GROUP 5-15 MISSION



MISSION OVERVIEW

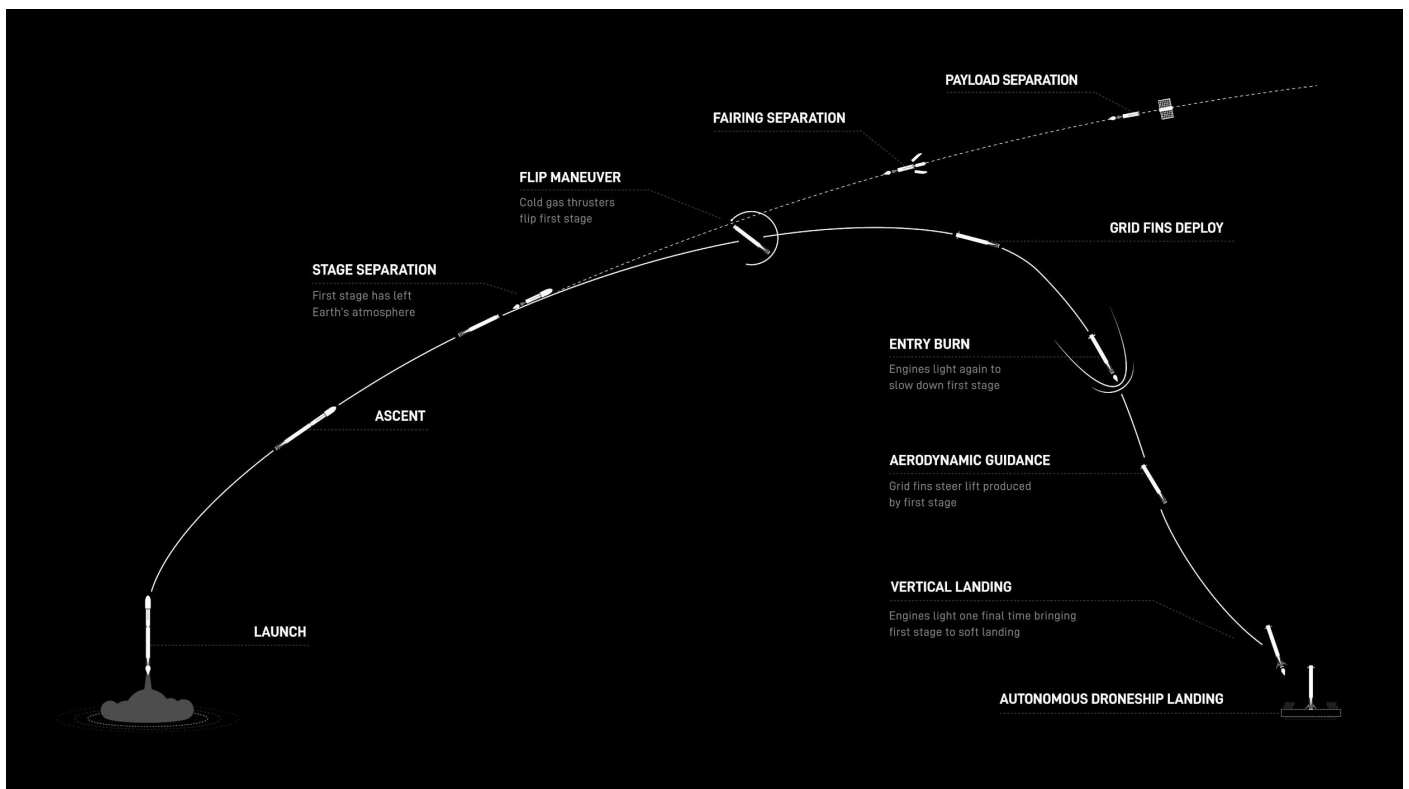
SpaceX is targeting Saturday, July 15 at 11:50 p.m. ET (3:50 UTC) for a Falcon 9 launch of 54 **Starlink** satellites to low-Earth orbit from Space Launch Complex 40 (SLC-40) at Cape Canaveral Space Force Base in Florida. If needed, a backup opportunity is available on Sunday, July 16 at 11:24 p.m. ET (3:24 UTC).

This is the 16th flight for 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 10 Starlink missions. After stage separation, Falcon 9 will land on the A Shortfall of Gravitas droneship in the Atlantic Ocean.

WEBCAST

A live webcast of this mission will begin about five 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 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)
00:02:26	1st stage main engine cutoff (MECO)
00:02:30	1st and 2nd stages separate
00:02:36	2nd stage engine starts (SES-1)
00:02:49	Fairing deployment
00:06:06	1st stage entry burn begins
00:06:28	1st stage entry burn ends
00:08:01	1st stage landing burn begins
00:08:23	1st stage landing
00:08:37	2nd stage engine cutoff (SECO-1)
00:54:08	2nd stage engine starts (SES-2)
00:54:11	2nd stage engine cutoff (SECO-2)
01:05:52	Starlink satellites deploy