

# STARLINK GROUP 7-2 MISSION



## MISSION OVERVIEW

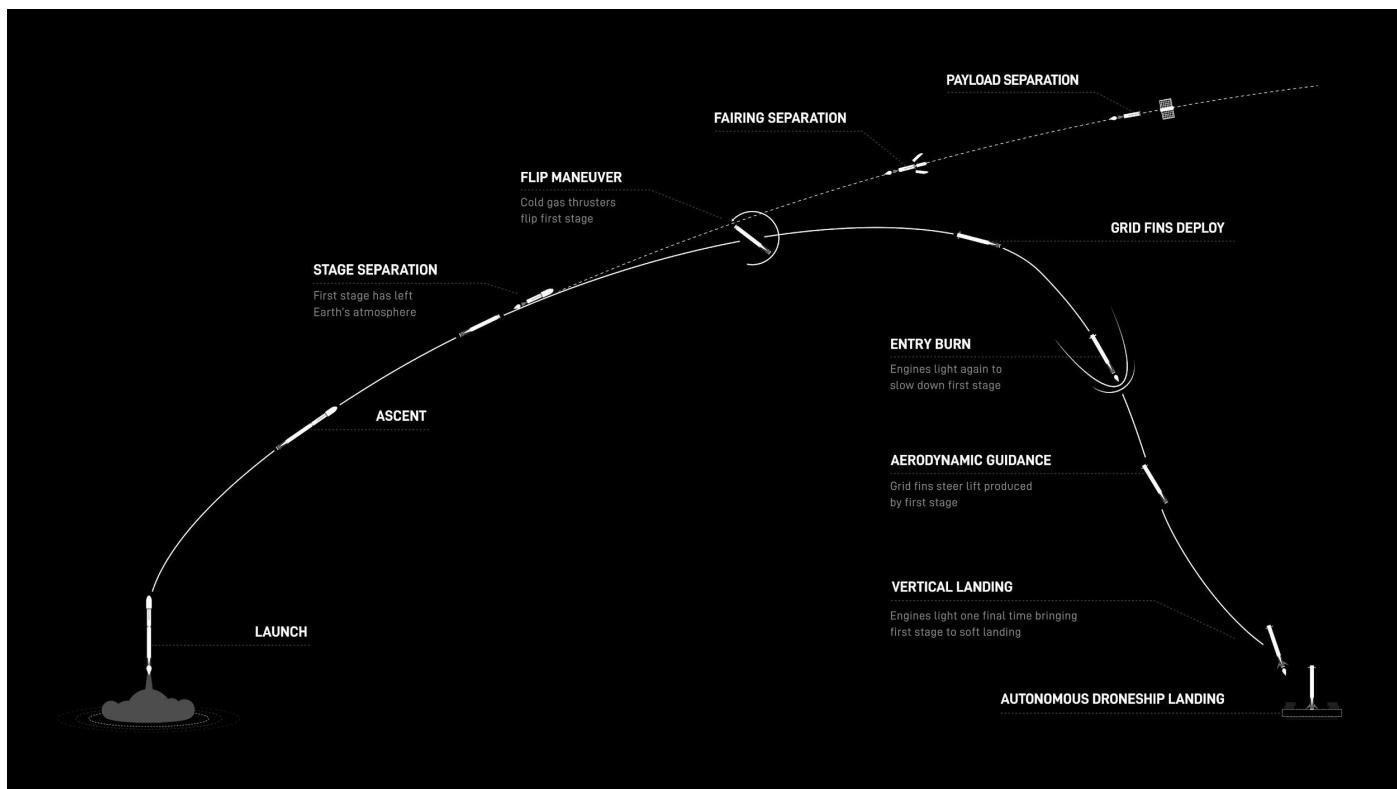
SpaceX is targeting Monday, September 11 at 11:57 p.m. PT (06:57 UTC on September 12) for a Falcon 9 launch of 21 **Starlink** satellites to low-Earth orbit from Space Launch Complex 4 East (SLC-4E) at Vandenberg Space Force Base in California. If needed, four backup opportunities are available on Tuesday, September 12 starting at 12:48 a.m. PT (07:48 UTC) until 3:20 a.m. PT (10:20 UTC). Five backup opportunities are also currently available on Wednesday, September 13 starting at 12:26 a.m. PT (07:26 UTC) until 3:49 a.m. PT (10:49 UTC).

## WEBCAST

A live webcast of this mission will begin on **X @SpaceX** about five minutes prior to liftoff.

This is the 11th flight for the first stage booster supporting this mission, which previously launched NROL-87, NROL-85, SARah-1, SWOT, Transporter-8, and five Starlink missions. Following stage separation, the first stage will land on the Of Course I Still Love You dronship, which will be stationed in the Pacific Ocean.

## MISSION PROFILE



# MISSION TIMELINE (ALL TIMES APPROXIMATE)

## COUNTDOWN

| <b>Hr/Min/Sec</b> | <b>Event</b>   |
|-------------------|--|
| - 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

| <b>Hr/Min/Sec</b> | <b>Event</b>   |
|-------------------|--|
| 00:01:12          | Max Q (Moment of peak mechanical stress on the rocket) |
| 00:02:26          | 1st stage main engine cutoff (MECO)                    |
| 00:02:29          | 1st and 2nd stages separate                            |
| 00:02:35          | 2nd stage engine starts (SES-1)                        |
| 00:03:03          | Fairing deployment                                     |
| 00:06:19          | 1st stage entry burn begins                            |
| 00:06:42          | 1st stage entry burn ends                              |
| 00:08:09          | 1st stage landing burn begins                          |
| 00:08:30          | 1st stage landing                                      |
| 00:08:38          | 2nd stage engine cutoff (SECO-1)                       |
| 00:53:24          | 2nd stage engine starts (SES-2)                        |
| 00:53:26          | 2nd stage engine cutoff (SECO-2)                       |
| 01:02:19          | Starlink satellites deploy                             |