



TRANSPORTER-8 MISSION

MISSION OVERVIEW

SpaceX is targeting Monday, June 12 for Falcon 9's launch of the **Transporter-8 mission** to low-Earth orbit from Space Launch Complex 4E (SLC-4E) at Vandenberg Space Force Base in California. The 57-minute launch window opens at 2:19 p.m. PT (21:19 UTC). If needed, there is a backup opportunity Tuesday, June 13 with the same window.

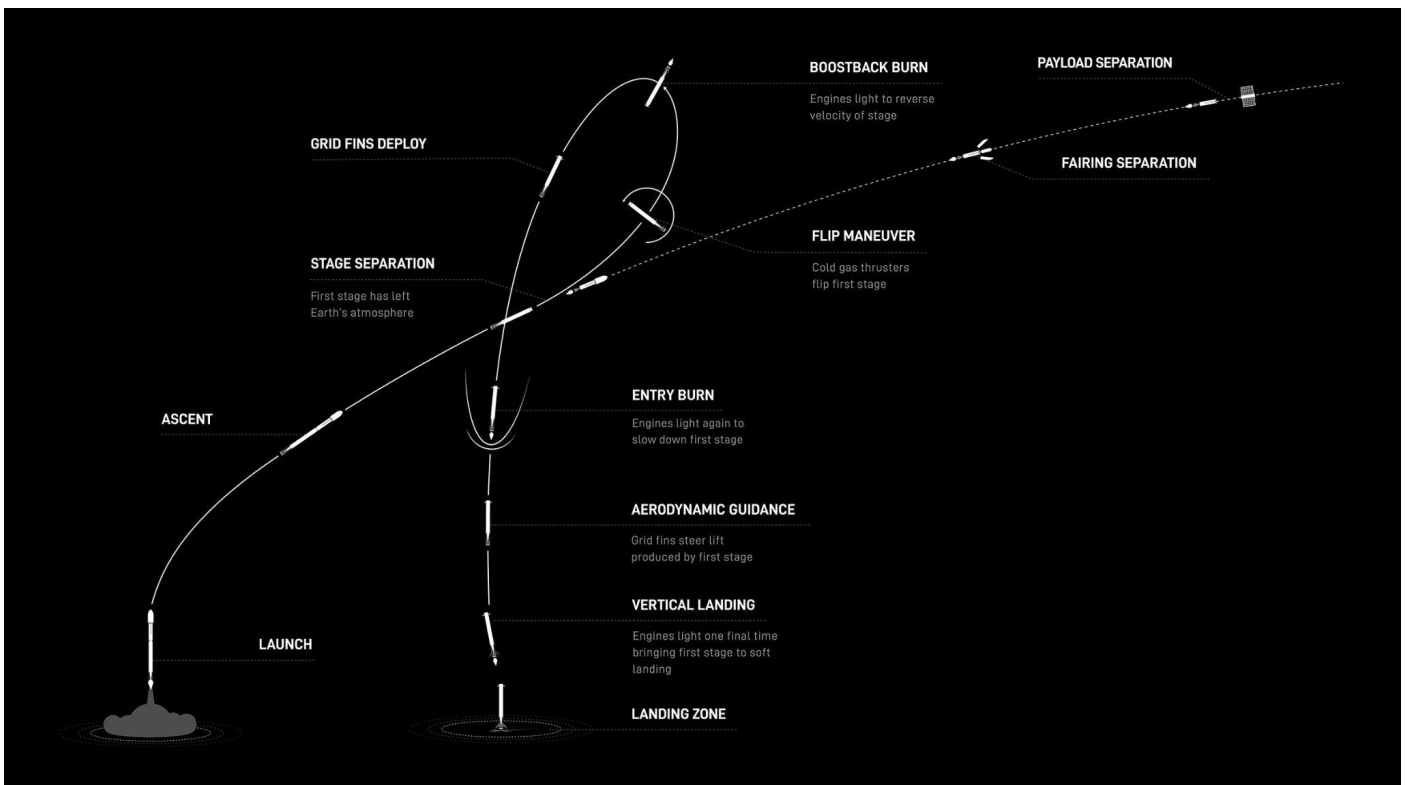
The first stage booster supporting this mission previously launched NROL-87, NROL-85, SARah-1, SWOT, and four Starlink missions. Following stage separation, Falcon 9 will land on Landing Zone 4 (LZ-4) at Vandenberg Space Force Base.

Transporter-8 is SpaceX's eighth **dedicated smallsat rideshare mission**. There will be 72 payloads on this flight, including CubeSats, MicroSats, a re-entry capsule, and orbital transfer vehicles carrying spacecraft to be deployed at a later time.

WEBCAST

A live webcast of this mission will begin about 15 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
00:01:05	Max Q (moment of peak mechanical stress on the rocket)
00:02:14	1st stage main engine cutoff (MECO)
00:02:18	1st and 2nd stages separate
00:02:26	2nd stage engine starts (SES-1)
00:02:31	1st stage boostback burn begins
00:02:56	Fairing deployment
00:03:25	1st stage boostback burn ends
00:06:17	1st stage entry burn begins
00:06:32	1st stage entry burn ends
00:07:25	1st stage landing burn begins
00:07:42	1st stage landing
00:08:24	2nd stage engine cutoff (SECO-1)
00:56:52	2nd stage engine starts (SES-2)
00:56:55	2nd stage engine cutoff (SECO-2)
00:59:59	FOSSASAT-FEROX deploys, manifested by Maverick Space Systems
01:00:31	All-DELTA deploys, manifested by Exolaunch
01:00:44	GEISAT deploys, manifested by Exolaunch
01:00:54	Ayris-1 deploys, manifested by Exolaunch
01:01:06	EIVE deploys, manifested by Exolaunch
01:01:10	Ayris-2 deploys, manifested by Exolaunch
01:01:20	LEMUR 2 EMBRIONOVIS deploys, manifested by Exolaunch
01:01:29	MISR-A deploys, manifested by Maverick Space Systems
01:02:41	LEMUR 2 NAZIYAH deploys, manifested by Exolaunch
01:02:52	LEMUR 2 AADAM-ALIYAH deploys, manifested by Exolaunch
01:03:13	Swarm Spacebees deploy, manifested by Exolaunch
01:03:23	Droid.001 deploys, manifested by Exolaunch
01:03:39	XVI deploys, manifested by Maverick Space Systems
01:03:51	MISR-B deploys, manifested by Maverick Space Systems
01:04:03	Tiger-4 deploys, manifested by Maverick Space Systems
01:04:17	NewSat 40 deploys, manifested by Satellogic
01:04:31	NewSat 41 deploys, manifested by Satellogic
01:05:56	NewSat 43 deploys, manifested by Satellogic
01:06:07	NewSat 42 deploys, manifested by Satellogic
01:06:35	MuSat-1 satellite deploys, manifested by Exolaunch
01:07:57	AFR-1 deploys, manifested by Exolaunch
01:08:52	Tomorrow-R2 deploys, manifested by Maverick Space Systems

01:09:43 Grégoire deploys, manifested by Exolaunch
01:10:42 1st ICEYE satellite deploys, manifested by Exolaunch
01:11:48 Orbiter SN3 deploys, manifested by Launcher
01:12:54 2nd ICEYE satellite deploys, manifested by Exolaunch
01:14:43 3rd ICEYE satellite deploys, manifested by Exolaunch
01:15:47 HotSat-1 deploys, manifested by SatVu
01:16:55 4th ICEYE satellite deploys, manifested by Exolaunch
01:17:17 Skykraft-3 deploys, manifested by Skykraft
01:17:59 GHOS-3 deploys, manifested by Maverick Space Systems
01:19:04 Blackjack Aces-2 deploys, manifested by Lockheed Martin Corporation
01:19:30 QPS-SAR-6 AMATERU-III deploys, manifested by iQPS
01:19:50 Runner-1 deploys, manifested by Terran Orbital
01:20:16 ION SCV-011 Savvy Simon deploys, manifested by D-Orbit
01:20:39 Blackjack Aces-4 deploys, manifested by Lockheed Martin Corporation
01:21:33 Blackjack Aces-1 deploys, manifested by Lockheed Martin Corporation
01:22:38 W-Series 1 deploys, manifested by Varda
01:24:48 Blackjack Aces-3 deploys, manifested by Lockheed Martin Corporation