



TRANSPORTER-7 MISSION

MISSION OVERVIEW

SpaceX is targeting no earlier than Thursday, April 13 at 11:47 p.m. PT (06:47 UTC on April 14) for Falcon 9's launch of the **Transporter-7 mission** to low-Earth orbit from Space Launch Complex 4E (SLC-4E) at Vandenberg Space Force Base in California.

The first stage booster supporting this mission previously launched Sentinel-6 Michael Freilich, DART, and seven Starlink missions. Following stage separation, Falcon 9 will land on Landing Zone 4 (LZ-4) at Vandenberg Space Force Base.

Transporter-7 is SpaceX's seventh **dedicated smallsat rideshare** mission. There will be 51 payloads on this flight, including CubeSats, MicroSats, hosted payloads, and orbital transfer vehicles carrying spacecraft to be deployed at a later time.

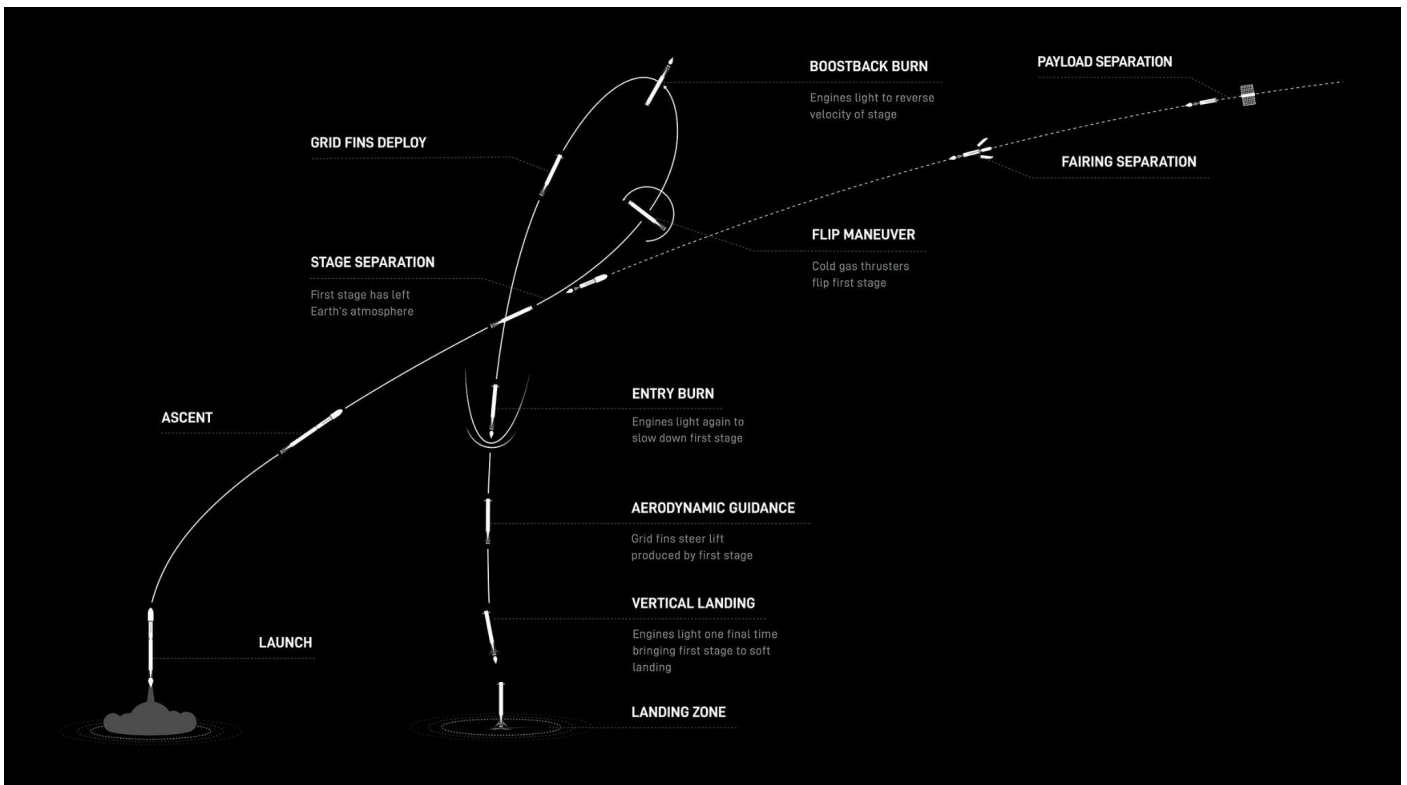
WEBCAST

A live webcast of this mission will begin about 10 minutes prior to liftoff.

PHOTOS

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

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)
00:02:18	1st stage main engine cutoff (MECO)
00:02:20	1st and 2nd stages separate
00:02:30	2nd stage engine starts (SES-1)
00:02:35	1st stage boostback burn begins
00:03:01	Fairing deployment
00:03:30	1st stage boostback burn ends
00:06:11	1st stage entry burn begins
00:06:25	1st stage entry burn ends
00:07:19	1st stage landing burn begins
00:07:36	1st stage landing
00:08:19	2nd stage engine cutoff (SECO-1)
00:57:48	2nd stage engine starts (SES-2)
00:57:50	2nd stage engine cutoff (SECO-2)
01:01:02	C6 - Mey-Lin deploys, manifested by GHGSat
01:01:17	SSS-2B deploys, manifested by Exolaunch
01:01:25	C8 - Oceane deploys, manifested by GHGSat
01:01:37	DEWA-SAT 2 deploys, manifested by Exolaunch
01:01:48	KILICSAT deploys, manifested by Maverick Space Systems
01:02:04	OrbAstro-AF-1 deploys, manifested by Exolaunch
01:02:17	BRO-9 deploys, manifested by Exolaunch
01:02:30	LEMUR 2 ONREFLECTION deploys, manifested by Exolaunch
01:02:59	C7 - Gaspard deploys, manifested by GHGSat
01:03:46	TAIFA-1 deploys, manifested by Exolaunch
01:04:08	Connecta T2.1 deploys, manifested by Exolaunch
01:04:20	Sapling deploys, manifested by Exolaunch
01:04:34	LS2f deploys, manifested by Exolaunch
01:04:47	FACSAT CHIRIBIQUETE deploys, manifested by Exolaunch
01:05:00	ROSEYCUBESAT-1 and Inspire-Sat deploy, manifested by Exolaunch
01:05:12	Blue Dot Consortium: Pleiades - Squared deploys, manifested by Exolaunch
01:06:04	It's About Time deploys, manifested by Maverick Space Systems
01:06:17	CIRBE deploys, manifested by Maverick Space Systems
01:07:09	Sateliot-0 deploys, manifested by Exolaunch
01:07:22	LEMUR 2 SPACEGUS deploys, manifested by Exolaunch
01:08:38	LEMUR 2 ROMEO-N-LEO deploys, manifested by Exolaunch
01:09:45	NewSat 36 deploys, manifested by Satellogic

01:11:04 NewSat 37 deploys, manifested by Satellogic
01:11:58 NewSat 38 deploys, manifested by Satellogic
01:12:13 UMBRA deploys, manifested by Umbra Lab
01:12:33 ALIZER 02 HAWK7B deploys, manifested by Omniteq
01:13:28 ALIZER 02 HAWK7A deploys, manifested by Omniteq
01:14:26 ALIZER 02 HAWK7C deploys, manifested by Omniteq
01:14:46 Tomorrow.io's Tomorrow-R1 deploys, manifested by Maverick Space Systems
01:15:35 NorSat-TD deploys, manifested by Exolaunch
01:16:16 NewSat 39 deploys, manifested by Satellogic
01:16:50 GHOS-2 deploys, manifested by Maverick Space Systems
01:17:03 ION SCV-010 Masterful Matthaheus deploys, manifested by D-Orbit
01:20:45 GHOS-1 deploys, manifested by Maverick Space Systems
01:22:09 VIGORIDE6 deploys, manifested by Momentus
01:46:15 2nd stage engine starts (SES-3)
01:46:16 2nd stage engine cutoff (SECO-3)
02:31:09 2nd stage engine starts (SES-4)
02:31:10 2nd stage engine cutoff (SECO-4)
02:35:19 Tubitak's IMECE deploys