

UPCOMING LAUNCH

USSF-52 MISSION

WATCH

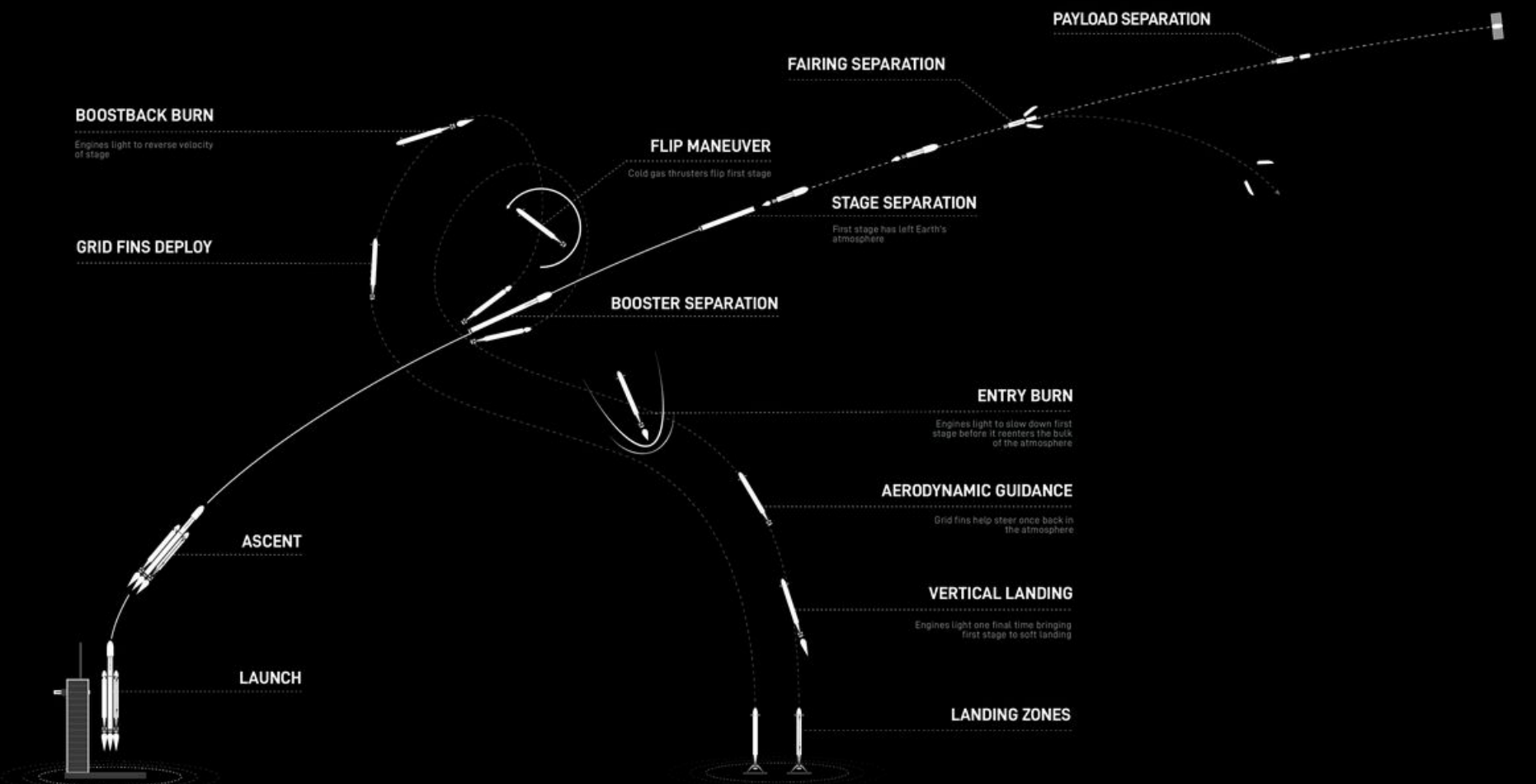
SpaceX is targeting no earlier than Tuesday, December 12 at 8:14 p.m. ET for Falcon Heavy's launch of the **USSF-52** mission to orbit from Launch Complex 39A (LC-39A) at NASA's Kennedy Space Center in Florida. A backup launch opportunity is available on Wednesday, December 13 if needed.

A live webcast of this mission will begin on **X @SpaceX** about 15 minutes prior to liftoff. **Watch Live.**

This will be the fifth launch and landing of these Falcon Heavy side boosters, which previously supported USSF-44, USSF-67, Hughes JUPITER 3, and NASA's Psyche mission. Following booster separation, Falcon Heavy's two side boosters will land on SpaceX's Landing Zones 1 and 2 (LZ-1 and LZ-2) at Cape Canaveral Space Force Station in Florida.

COUNTDOWN

HR/MIN/SEC	EVENT
- 00:53:00	SpaceX Launch Director verifies go for propellant load
- 00:50:00	1st stage RP-1 (rocket grade kerosene) loading begins
- 00:45:00	1st stage LOX (liquid oxygen) loading begins
- 00:35:00	2nd stage RP-1 (rocket grade kerosene) loading begins
- 00:18:30	2nd stage LOX loading begins
- 00:07:00	Falcon Heavy begins engine chill
- 00:00:59	Flight computer commanded to begin final pre-launch checks
- 00:00:45	SpaceX Launch Director verifies go for launch
- 00:00:20	Propellant tanks pressurize for flight
- 00:00:06	Engine controller commands engine ignition sequence to start
- 00:00:00	Falcon Heavy liftoff



LAUNCH AND LANDING

All Times Approximate

HR/MIN/SEC	EVENT
00:01:11	Max Q (moment of peak mechanical stress on the rocket)
00:02:24	Side boosters engine cutoff (BECO)
00:02:28	Side boosters separate
00:02:43	Side boosters' boostback burns begin
00:03:52	Side boosters' boostback burns end
00:03:54	1st stage main engine cutoff (MECO)
00:03:57	Center core 1st and 2nd stages separate
00:04:03	2nd stage engine starts (SES)
00:04:28	Fairing deployment
00:06:46	Side boosters' entry burns start
00:07:03	Side boosters' entry burns end
00:08:06	Side boosters' landing burns start
00:08:24	Side boosters' landing