



UNDOCKING

(All times approximate)

- 01:00:00 Landing Zone Weather Briefing
- 00:00:45 Go/No-Go for Undocking
- 00:00:00 Physical Separation**
- 00:22:26 Outbound Flyaround Maneuver
- 00:23:40 Keep Out Sphere (KOS) exit
- 00:37:27 Departure Initiation Burn (DI)
- 00:59:41 Approach Ellipsoid (AE) Exit

RE-ENTRY AND LANDING

(All times approximate)

Time to Touchdown

- 44:02 Deorbit Burn
- 40:43 Service Module Separation (SM Separation)
- 15:55 Entry Interface (EI)**
- 06:45 Altitude 100,000 feet
- 04:55 Forward Heat Shield Jettison
- 04:50 Drogue Chutes Deploy
- 03:37 Altitude 8k feet
- 03:15 Main Parachutes Fully Deployed
- 02:53 Rotation Handle Deploys
- 02:43 Base Heat Shield Jettison
- 02:15 Airbags Inflate
- 00:00 Starliner Touches Down at Landing Zone**

MISSION COMPLETE



STARLINER

FLIGHT TIMELINE



**Orbital Flight Test-2
July 30, 2021**

PRE-LAUNCH AND LAUNCH

(Launch Minus Time)

L-24:00:00	L-1 Day Wx Brief and Systems Brief
L-19:55:00	Comm Sys Activation and Checkout
L-6:00:00	Fueling commences
L-4:05:00	Tanking complete
L-4:04:00	T-4 minute hold begins
L-3:00:00	CM Preps
L-1:25:00	Hatch closure complete
L-1:15:00	Prelaunch cabin leak checks complete
L-1:05:00	Cabin pressurization complete
L-00:22:00	FD Poll: FCT Go/No-Go for Terminal Count
L-0:18:00	CST-100 poll for terminal count
L-0:15:00	Starliner to Internal Power
L-0:15:00	Countdown Net 1 to A/G1
L-0:10:00	Crew access arm retracted
L-0:08:00	Launch Vehicle Poll for terminal count
L-0:04:45	Starliner configured for terminal count
L-0:04:00	T-4 minutes hold releases
L-0:01:00	Starliner configured for launch
L-0:00:00	Starliner launch

CST-100 DEPLOYMENT

(All times are approximate)

Mission Elapsed Time (MET)	
00:12	Roll program
00:30	Throttle down
00:44	Max Q
01:07	Throttle up
01:35	SRB burnout
02:40	SRB jettison, pitch maneuver
04:29	Booster engine cutoff (BECO)
04:42	Booster Separation, Ascent cover jettison
04:45	Centaur ignition
05:07	Aeroskirt jettison
11:55	Main Engine Cutoff (MECO)
14:55	CST-100 separation
31:00	Orbital Insertion burn (OI)
31:40	OI burn complete – Starliner in stable orbit
2:25:58	Abort maneuver demonstration
2:43:28	Reaction Control System (RCS) demonstration
2:44:59	Far-field rendezvous

20:20:47	NHPC1 Burn to begin raising Starliner orbit to ISS altitude
20:36:28	Go/No-go for Integrated Operations with ISS
20:43:23	NHPC2 Burn
21:09:08	Inbound Coelliptic Maneuver (NSRPC) burn
21:33:03	Terminal Phase Initiation Burn (TPI)
22:10:23	Approach Ellipsoid (AE) Entry
22:19:48	Inbound Flyaround (IF1) Maneuver
22:39:49	Inbound Flyaround (IF2) Maneuver
22:54:49	Approach Corridor Initiation (ACI)
23:07:09	Retreat Demonstration
22:33:16	Enter Keep Out Sphere (KOS)
23:59:07	Hold at 10 meters for sensors
00:06:28	Go/No-Go for final approach
00:08:14	Final Approach Initiation (FAI)
00:12:10	Soft Capture – Docking Successful

