

NASA's Boeing Crew Flight Test Mission Undocking and Return Timeline

Editor's Note: The Starliner return timeline was adjusted on Sept. 6, 2024, to correct the times for drogue chute deploy and forward heat shield jettison.

ALL TIMES ARE CENTRAL

Friday, September 6:

- 4:19:00 p.m. – Go/no go for undocking
- 4:44:00 p.m. – Final weather briefing prior to undocking
- **4:45:00 p.m. – NASA+ begins for undocking**
- 5:00:00 p.m. – Authority to Proceed for undocking issued
- **5:04:00 p.m. – Undocking**
- 5:04:02 p.m. – Sep burn 1
- 5:04:08 p.m. – Sep burn 2
- 5:05:00 p.m. – Starliner is 200 meters from Harmony
- 5:05:59 p.m. – Breakout Sequence 56 burn issued
- 5:09:15 p.m. – Keep Out Sphere exit
- 5:10:21 p.m. – Breakout Sequence Completed
- 5:25:30 p.m. – Approach Ellipsoid exit
- 6:42:30 p.m. – Entry Cover Closure
- 7:05:00 p.m. – OMAC checkout
- 8:34:01 p.m. – CM Hot-fire
- **9:50:00 p.m. – NASA+ begins for deorbit through landing**
- 9:57:00 p.m. – Go/no go for the deorbit burn
- **10:17:13 p.m. – Deorbit burn (59 second burn; delta V of 129.9 meters per second; 4 OMACS burn)**
- 10:20:46 p.m. – Service Module separation and disposal
- 10:45:25 p.m. – Entry Interface
- 10:47:54 p.m. – Blackout period begins at an altitude of 54 miles (4 minutes, 31 seconds)
- 10:52:25 p.m. – Blackout period ends at an altitude of 32.9 miles
- 10:56:19 p.m. – Forward Heat Shield Jettison
- 10:56:24 p.m. – Drogue Chute Deploy
- 10:57:31 p.m. – Main Chute Deploy
- 10:57:45 p.m. – Rotational Handle Release
- 10:58:00 p.m. – Back Heat Shield Jettison
- 10:58:31 p.m. – Airbag Inflation
- **11:00:52 p.m. – STARLINER LANDING**

Saturday, September 7:

- 12:30:00 a.m. – Post-landing news conference on NASA+ from the Johnson Space Center, Houston