

# Should you be concerned about flying on Boeing planes?

March 14 2024, by Doug Drury

---



Boeing 747. Credit: Wikipedia

The American aerospace giant Boeing has been synonymous with safe air travel for decades. Since the 1990s, Boeing and its European competitor Airbus have dominated the market for large passenger jets.

But this year, Boeing has been in the news for all the wrong reasons. In January, an emergency door plug [blew off a Boeing 737 MAX](#) in mid flight, triggering an investigation from United States [federal regulators](#).

More recently, we have seen a Boeing plane lose a tire while taking off, another flight turned back as the plane was leaking fluid, an apparent engine fire, a landing gear collapse, a stuck rudder pedal, and a plane "dropping" in flight and injuring dozens of passengers. A Boeing engineer who had raised concerns regarding [quality control](#) during the [manufacturing process](#) on the company's 787 and 737 MAX planes also [died earlier this week](#), apparently of a self-inflicted gunshot wound.

As members of the traveling public, should we be concerned? Well, yes and no.

## **Many problems, but not all can be blamed on Boeing**

The recent parade of events has certainly been dramatic—but not all of them can be blamed on Boeing. Five incidents occurred on aircraft owned and operated by United Airlines and were related to factors outside the manufacturer's control, like maintenance issues, potential foreign object debris, and possible human error.

A [United Airlines 777](#) flying from San Francisco to Japan lost a tire on takeoff, a maintenance issue not related to Boeing. The aircraft landed safely in Los Angeles.

A [United Airlines flight from Sydney](#) to Los Angeles had to return to Sydney due to a "maintenance issue" after a fluid was seen leaking from the aircraft on departure.

A [United Airlines 737-900](#) flying from Texas to Florida ended up with some plastic bubble wrap in the engine, causing a suspected [compressor](#)

[stall](#). This is a disruption of air flow to an operating engine, making it "backfire" and emit flames.

A [United Airlines 737 Max](#) flying from Tennessee to Texas suffered a gear collapse after a normal landing. The pilot continued to the end of the runway before exiting onto a taxiway—possibly at too high a speed—and the aircraft ended up in the grass and the left main landing gear collapsed.

The fifth event occurred on a [United Airlines 737-8](#) flight from the Bahamas to New Jersey. The pilots reported that the rudder pedals, which control the left and right movement of the aircraft in flight, were stuck in the neutral position during landing.

## Manufacturing quality concerns

The [exit door plug failure in January](#) occurred on an Alaska Airlines flight. US regulators are currently investigating Boeing's [manufacturing quality assurance](#) as a result.

The door plug was installed by a Boeing subcontractor called Spirit AeroSystem. The door plug bolts were not properly secured and the plug door fell off in flight. The same aircraft had a series of pressurization alarms on two previous flights, and was scheduled for a maintenance inspection at the completion of the [flight](#).

Spirit got its start after Boeing shut down its own manufacturing operations in Kansas and Oklahoma, and Boeing is now in the process of [buying the company](#) to improve quality oversight. Spirit currently works with Airbus, as well, though that may change.

## What changed at Boeing

Critics say the [culture at Boeing has changed](#) since Airbus became a major competitor in the early 2000s. The company has been accused of shifting its focus to profit at the expense of quality engineering.

Former staff have raised concerns over tight production schedules, which increased the pressure on employees to finish the aircraft. This caused many engineers to question the process, and the US Federal Aviation Administration (FAA) to fine Boeing for lapses in quality oversight after tools and debris were found on aircraft being inspected.

Several employees have testified before US Congress on the production issues regarding quality control. Based on the congressional findings, the FAA began to inspect Boeing's processes more closely.

Several Boeing employees noted there was a high staff turnover rate during the COVID pandemic. This is not unique to Boeing, as all manufacturing processes and airline maintenance facilities around the globe were also hit with high turnover.

As a result, there is an acute shortage of qualified maintenance engineers, as well as pilots. These shortages have created several issues with the [airline industry](#) successfully returning to the [pre-pandemic levels](#) of 2019. Airlines and maintenance training centers around the globe are working hard to train replacements, but this takes time as one cannot become a qualified engineer or airline pilot overnight.

So, is it still safe to fly on Boeing planes? Yes it is. Despite dramatic incidents in the news and social media posts [poking fun at the company](#), air travel is still extremely safe, and that includes Boeing.

We can expect these issues with Boeing planes now will be corrected. The [financial impact](#) has been significant—so even a profit-driven company will demand change.

This article is republished from [The Conversation](#) under a Creative Commons license. Read the [original article](#).

Provided by The Conversation

Citation: Should you be concerned about flying on Boeing planes? (2024, March 14) retrieved 9 May 2024 from <https://techxplore.com/news/2024-03-flying-boeing-planes.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.