

Airbus A320 Recall: Software Flaw, Solar Radiation Risk & Global Fix Explained

November 30, 2025 • vajiramandravi.com



Airbus A320 Recall Latest News

- Airlines worldwide are rushing to apply a mandatory Airbus fix for a software vulnerability affecting thousands of **A320**-family aircraft.
- Airbus found that intense solar radiation could corrupt flight-control data in the aircraft's elevator aileron computer (ELAC), posing a potential safety risk.
- Of the more than 11,000 A320-series jets in service globally, over half may be impacted—making this the largest recall in Airbus's history.

How the Airbus A320 Software Vulnerability Came to Light

- Airbus revealed on Friday that a major software vulnerability had been discovered after an incident involving an A320-family aircraft.

- This prompted an urgent requirement for software updates—and in some cases hardware changes—across thousands of aircraft globally, including over 300 in India.

Solar Radiation Identified as Root Cause

- Airbus stated that analysis of a recent event showed intense **solar radiation** could corrupt critical flight-control data in the Elevator Aileron Computer (ELAC).
 - Solar radiation is the radiant energy emitted by the sun, traveling through space as electromagnetic waves.
 - This energy includes visible light, infrared radiation (heat), and ultraviolet (UV) radiation.
- This malware-like corruption risk made a large portion of the in-service fleet vulnerable.

Immediate Regulatory Intervention

- Soon after Airbus issued an Alert Operators Transmission (AOT), the European Union Aviation Safety Agency (EASA) released an Emergency Airworthiness Directive requiring airlines to implement the fixes “before next flight.”
- EASA confirmed that the vulnerability was detected after an A320 experienced an uncommanded, brief pitch-down, causing a momentary loss of altitude without any pilot input.

Why ELAC Was at the Center of the Issue

- The ELAC is a key computer that helps the pilots control the plane. It takes the pilots’ joystick (sidestick) movements and moves the parts on the wings and tail — which make the plane go up, down, or turn.
 - Basically, ELAC is a primary **flight-control computer**.
- A specific combination of ELAC hardware and software was found to be susceptible to **radiation-induced data corruption**, creating a risk of uncommanded elevator movement that could, in the worst case, exceed the aircraft’s structural capability.

The Incident That Exposed the Flaw

- While EASA did not name the aircraft, industry insiders report that the event involved a JetBlue flight from Cancun to Newark on October 30.
- The aircraft suffered an unexpected altitude drop, injuring some passengers. This incident triggered the technical investigation that uncovered the ELAC vulnerability.

How Airlines Implemented Airbus’s Fix for the A320 ELAC Vulnerability

- Airbus prescribed an immediate rectification for affected A320-family aircraft.
- For most jets, the solution was a **quick software rollback**—reverting to an earlier version of the ELAC (Elevator Aileron Computer) software.
- Experts note this update takes around two hours.
- However, a smaller group of older A320 variants may require complete ELAC hardware replacement, which takes longer and depends on unit availability.

Progress in India: Majority Fixed by Saturday Evening

- According to the DGCA, nearly 80% of affected Indian aircraft had already undergone the software change.
- Out of 338 A320-family aircraft identified across IndiGo, Air India, and Air India Express:
 - 270 aircraft were fully rectified by 5:30 pm
 - 68 aircraft were expected to be completed later the same day

Impact on Airline Operations

- Despite concerns of large-scale disruption, the fix caused only minor delays and rescheduling, not widespread cancellations.
- Officials reiterated that passengers need not panic, as operational impact remained modest.
- A320-family jets operate multiple rotations per day, meaning even brief ground time for updates can cause cascading delays.
- Still, airlines managed to avoid significant cancellations.

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