

# Boeing 737 MAX flight controls

A European document shows aviation regulators were aware that certain flight conditions similar to those experienced in recent crashes could require pilots to manipulate a rarely used wheel in the aircraft's centre console to better control the nose position rather than the usual electronic thumb switch on the control yoke.

## STRUGGLE FOR CONTROL

Information retrieved from the flight data recorder of Lion Air Flight JT610 that crashed into the sea in October last year, showed the "stick shaker" was vibrating the captain's controls, warning of a stall throughout most of the 13 minutes aloft based on what investigators believe to have been erroneous data on its **angle of attack** to the oncoming air.

The airplane's **anti-stall system** repeatedly pushed its nose down, which is how pilots usually get air under the wings. The system reacted based on incorrect sensor reading, prompting an eight-minute battle between the captain pulling the nose back up and computers holding it down.



Pilots flying the same plane a day earlier had experienced a similar problem, but they used switches to shut off the system and trimmed manually.

## ANGLE-OF-ATTACK (AOA) SENSOR

Acts like a windvane, measuring the direction of air to determine the aircraft's angle-of-attack.



The anti-stall system activates when the AOA is high.

## WHAT THE ANTI-STALL SYSTEM PREVENTS

The angle of attack (AOA) is a key flight parameter that must remain narrow enough to preserve lift and avoid a stall.

### Low AOA



For a wing to produce lift, the air flowing past an aircraft must be aligned to the airfoil in order to provide a smooth airflow. Lift overcomes the weight of the aircraft.

### High AOA



As a wing increases its angle of attack, smooth airflow over the wing diminishes and eddies of air form, decreasing lift and causing the wing to approach stall speed.

### Stalling AOA



When a wing stalls, lift will no longer be produced. As the aircraft's weight is unopposed, it will fall towards the ground. But with sufficient altitude, stall recovery is possible by decreasing the AOA.

# B737 Technical Guide

**SA Adler**



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## **Table of Contents B737 Technical Guide**

1. Understanding the eBook B737 Technical Guide
  - The Rise of Digital Reading B737 Technical Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying B737 Technical Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an B737 Technical Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from B737 Technical Guide
  - Personalized Recommendations
  - B737 Technical Guide User Reviews and Ratings

- B737 Technical Guide and Bestseller Lists
- 5. Accessing B737 Technical Guide Free and Paid eBooks
  - B737 Technical Guide Public Domain eBooks
  - B737 Technical Guide eBook Subscription Services
  - B737 Technical Guide Budget-Friendly Options
- 6. Navigating B737 Technical Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - B737 Technical Guide Compatibility with Devices
  - B737 Technical Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of B737 Technical Guide
  - Highlighting and Note-Taking B737 Technical Guide
  - Interactive Elements B737 Technical Guide
- 8. Staying Engaged with B737 Technical Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers B737 Technical Guide
- 9. Balancing eBooks and Physical Books B737 Technical Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection B737 Technical Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine B737 Technical Guide
  - Setting Reading Goals B737 Technical Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of B737 Technical Guide
  - Fact-Checking eBook Content of B737 Technical Guide
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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