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.

Electric trim control
Thumb-control of stabiliser trim

Boeing 737-MAX 8 cockpit

Manual trim control
Wheel hand-cranked to set trim

Stick shaker

Stabiliser trim cutout
Disables automated trim control

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.

Oncoming air

Vane aligns itself with the relative airflow

Level flight

Nose-up

Horizontal tail swivels to push the jet's nose down to reduce the risk of stalling.

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

Angle of attack
Airfoil
Airflow
5°

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

10°

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

20°

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.

REUTERS

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Xiang Xie

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