

# Flight Crew Operations Manual Bulletin for

# The Boeing Company

The Boeing Company Scattle, Washington 98124-2207



Samber: TBC-19

IssueDute: November 6, 2018.

Airplane Effectivity: 737-87-9

Subject: Uncommanded Nose Down Stabilizer Trim Due to Errongous Angle of

Attack (AOA) During Manual Flight Only

Reason: To Emphasize the Procedures Provided in the Runaway Stabilizer Non-

Normal Checklist (NNC).

Information in this hulfetin is recommended by The Briefing Company, but may not be EAA approved. at the time of writing. In the event of conflict with the FAA approved Airplane Flight Manual CAFMs, the AFM shall supervise. The Baccing Company segands the information or procedures described between as having a direct or indirect bearing on the safe operation of this model simplane.

THE POLLOWING PROCEDURE AND OR INFORMATION IN EXPECTINE UPON RECEIPT

#### **Background Information**

The Indonesian National Transportation Safety Committee has indicated that Lion Air flight 610 experienced erroneous AOA data. Boeing would like to call attention to an AOA failure condition that can occur during manual flight only. This bulletin directs flight crews to existing procedures to address this condition.

In the event of erroneous AOA data, the pitch trim system can trim the stabilizer nose down in increments lasting up to 10 seconds. The nose down stabilizer trim movement can be stopped and reversed with the use of the electric stabilizer trim. switches but may restart 5 seconds after the electric stabilizer trim switches are released. Repetitive cycles of uncommanded nose down stabilizer continue to occur unless the stabilizer trim system is deactivated though use of both STAB. TRIM CUTOUT switches in accordance with the existing procedures in the Runaway Stabilizer NNC. It is possible for the stabilizer to reach the nose down limit unless the system inputs are counteracted completely by pilot trim inputs and both STAB TRIM CUTOUT switches are moved to CUTOUT.

#### Flight Crew Operations Manual Bulletin No. TBC-19, Dated Nevember 6, 2018 (continued)

Additionally, pilots are reminded that an emoneous AOA can cause some or all of the following indications and effects:

- · Continuous or intermittent stick shaker on the affected side only.
- Minimum speed bar (red and black) on the affected side only.
- Increasing nose down control forces.
- · Inability to engage autopilot.
- Automatic disengagement of autopilot.
- LAS DISAGREE alert.
- ALT DISAGREE alert.
- AOA DISAGREE alert (if the AOA indicator option is installed).
- FEEL DOFF PRESS light.

#### Operating Instructions

In the event an uncommunded nose down stabilizer trim is experienced on the 737-8 /-9, in conjunction with one or more of the above indications or effects, do the Runaway Stabilizer NNC ensuring that the STAB TRIM CUTOUT switches are set to CUTOUT and stay in the CUTOUT position for the remainder of the flight.

Note: Initially, higher control forces may be needed to overcome any stabilizer nose down trim already applied. Electric stabilizer trim can be used to neutralize control column pitch forces before moving the STAB TRIM CUTOUT switches to CUTOUT. Manual stabilizer trim. can be used after the STAB TRIM CUTOUT switches are moved to CHIMORITY

#### Administrative Information

Insert this bulletin behind the Bulletin Record page in Volume 1 of your Flight Crew Operations Manual (FCOM). Amend the FCOM Bulletin Record page to show bulletin TBC-19 "In Effect" (IE).

This Bulletin remains in effect until Boeing provides additional information on system updates that may allow this Bulletin to be canceled.

Please send all correspondence regarding Flight Crew Operations Manual Bulletin status, to the 737 Manager, Flight Technical Data, through the Service Requests Application (SR App) on the MyBoeingFleet home page.

# **Boeing 737 Service Manual**

Ralph Bergmann, Klaus-Dieter Althoff, Sean Breen, Mehmet Göker, Michel Manago, Ralph Traphöner, Stefan Wess

## **Boeing 737 Service Manual:**

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