



Flight Crew Operations Manual Bulletin for The Boeing Company

The Boeing Company
Seattle, Washington 98124-2207



Number: TBC-19

Issue Date: November 6, 2018

Airplane Effectivity: 737-8 / -9

Subject: Uncommanded Nose Down Stabilizer Trim Due to Erroneous Angle of Attack (AOA) During Manual Flight Only

Reason: To Emphasize the Procedures Provided in the Runway Stabilizer Non-Normal Checklist (NNC).

Information in this bulletin is recommended by The Boeing Company, but may not be FAA approved at the time of writing. In the event of conflict with the FAA approved Airplane Flight Manual (AFM), the AFM shall supersede. The Boeing Company regards the information or procedures described herein as having a direct or indirect bearing on the safe operation of this model airplane.

THE FOLLOWING PROCEDURE AND/OR INFORMATION IS EFFECTIVE 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 through use of both STAB TRIM CUTOUT switches in accordance with the existing procedures in the Runway 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.

Additionally, pilots are reminded that an erroneous 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.
- IAS DISAGREE alert.
- ALT DISAGREE alert.
- AOA DISAGREE alert (if the AOA indicator option is installed)
- FEEL DIFF PRESS light.

Operating Instructions

In the event an uncommanded 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 Runway 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 CUTOUT.

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

Tobias Bleicker

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Boeing 737 Service Manual:

Federal Register ,2014-02 **Boeing 737** ,1969 **The Code of Federal Regulations of the United States of America** ,1993 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government **Airworthiness Inspector's Handbook** United States. Federal Aviation Administration,1985 *Developing Industrial Case-Based Reasoning Applications* Ralph Bergmann,Klaus-Dieter Althoff,Sean Breen,Mehmet Göker,Michel Manago,Ralph Traphöner,Stefan Wess,2003-12-09 In just few years case based reasoning has evolved from a research topic studied at a small number of specialized academic labs into an industrial strength technology applied in various fields The INRECA methodology presented in detail in this monograph provides a data analysis framework for developing case based reasoning solutions for successful applications in real world industrial contexts The book is divided into parts on smarter business with case based decision support developing case based applications using the INRECA methodology and using the methodology in various application domains The book provides a self contained introduction to case based reasoning applications that address both R and of course the references have been extended substantially [Aircraft Accident Report](#) ,197? **Engineering Psychology and Cognitive Ergonomics** Don Harris,Wen-Chin Li,2024-05-31 This two volume set LNAI 14692 14693 constitutes the thoroughly refereed proceedings of the 21st International Conference on Engineering Psychology and Cognitive Ergonomics EPCE 2024 held as part of HCI International 2024 held in Washington DC USA during June 29 July 4 2024 The total of 1271 papers and 309 posters included in the HCII 2024 proceedings was carefully reviewed and selected from 5108 submissions The papers included in the HCII EPCE two volume set were organized in topical sections as follows Part I Cognitive Processes and Performance in High Stress Environments Decision Making Support and Automation Part II Engineering Psychology and User Experience Human Factors in Aviation **Code of Federal Regulations** ,1993 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries [Fundamentals of International Aviation](#) Suzanne K. Kearns,2021-03-21 International aviation is a massive and complex industry that is crucial to our global economy and way of life Designed for the next generation of aviation professionals Fundamentals of International Aviation second edition flips the traditional approach to aviation education Instead of focusing on one career in one country it introduces readers to the air transport sector on a global scale with a broad view of all the interconnected professional groups This text provides a foundation of how aviation works in preparation for any career in the field including regulators maintenance engineers pilots flight attendants airline and airport managers dispatchers and air traffic controllers among many others Each chapter introduces a different cross section of the industry from air law to operations security to environmental impacts A variety of learning tools are built into each chapter including 24 case studies that describe an aviation accident related to each topic This second edition adds new learning features

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