



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

**Honeywell (Firm), AlliedSignal
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Boeing 737 Service Manual:

Boeing 737 Maintenance Training Manual American Airlines. Maintenance and Engineering, Boeing Commercial Airplane Company, 1984 *Boeing 737*, 1969 **Boeing 737 Maintenance Training Manual** BME Engineering, Federal Register, 1993-10 *Boeing 737 Maintenance Training Manual* Boeing Commercial Aircraft Co. Maintenance Training, 1984

Airworthiness Inspector's Handbook United States. Federal Aviation Administration, 1985 **Boeing 737 Maintenance Training Manual** Boeing Company. Commercial Airplane Group. Maintenance Training, 1992 **Boeing 737 Maintenance Manual : Quebecair**, 1986 **Boeing 737 -300,-400,-500 Panel Description, Component Locators, Field Trip Checklist**, 1992 Boeing Maintenance Training Manual Boeing Commercial Airplane Company. Maintenance Training, 1989 Aircraft alerting systems criteria study J. E. Veitengruber, G. P. Boucek, W. D. Smith, 1977

Boeing 737-100 Honeywell (Firm), AlliedSignal Commercial Avionics Systems, 1992 *Using the Metaverse in Education* Upendra Embranthiri, 2024-12-15 *Using the Metaverse in Education A Practical Guide* explores the transformative potential of the metaverse in education This book defines four types of metaverses and examines their pedagogical applications and limitations The Metaverse Roadmap categorizes these applications into Augmented Reality AR Anatomy Methodologies and Virtual Reality VR We delve into real world examples such as AR T shirts in medical education that allow students to explore the human body and a spinal surgery platform developed by Seoul Hospital using AR technology The book highlights the potential of the metaverse as a new educational environment offering immersive experiences and enhanced social communication However the book also addresses potential challenges such as weak social connections privacy concerns and the risk of crimes due to anonymity in virtual spaces We emphasize the importance of carefully analyzing how students understand the metaverse and designing classes that encourage creative problem solving and collaboration *Using the Metaverse in Education A Practical Guide* is a comprehensive resource for educators looking to harness the metaverse s potential while mitigating its challenges *Code of Federal Regulations: Aeronautics and Space* Office of the Federal Register, Office of the Federal Register (U.S.) Staff, 2007-04 The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the United States Federal Government **Boeing 737 Western Airlines Maintenance Manual** Boeing Company. Commercial Airplane Division, 1966 Boeing 737 : Canadian Pacific Air Lines Maintenance Manual, 1986 Aircraft Alerting Systems Criteria Study: Collation and analysis of aircraft system data, 1977 *Aircraft Maintenance Management* C. H. Friend, 1992 *En gennemgang af vedligeholdelsen af luftfart jer og kravene hertil Eignet som l rebog* **737 Maintenance Manual** Boeing Commercial Airplane Company. Maintenance Training, 1980 *Forensic Engineering* Kenneth L. Carper, 1998-01-27 *Forensic Engineering* first published in 1989 comprehensively summarizes forensic activity and failure investigation in engineering providing illustrative case studies and investigative techniques Contributors are the

foremost authorities in such fields as fire investigation industrial accidents product liability traffic accidents civil engineering transportation disasters and environmental systems failures demonstrating the diverse spectrum of forensic experience The book outlines the nuts and bolts aspects of forensic engineering as well as examines specific details for improving investigative procedures and analytical techniques Forensic Engineering also describes methods in litigation and alternative dispute resolution such as arbitration mediation mini trials and more Richly illustrated with case studies from various fields each chapter includes guidelines techniques methods and tools for accident investigation and analysis The text includes vital information on using forensic photogrammetry planning and writing reports serving as an expert witness in traditional litigation and resolving disputes Providing proven formulas and thought provoking concepts Forensic Engineering enables forensic experts in all engineering fields design and construction professionals attorneys product manufacturers insurance professionals and engineering and law students to maximize their investigative skills and litigation abilities

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