



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number: ST11858AT

This certificate issued to: **Avionics Support Group**
13155 SW 132 Avenue
Miami, FL 33186

Certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.

Original Product **A16WE**
Type Certificate Number:

Make: **The Boeing Company**

Model: **737-300/-400/-500**

Description of Type Design Change:

Installation of a dual FreeFlight Systems RA-6500 Radio Altimeter System per Master Drawing List 223173-MDL Revision A dated November 1, 2024 or later FAA approved revision.

Instructions for Continued Airworthiness 223173-ICA Revision IR dated October 6, 2023 or later FAA approved revision shall be made available to the operator at the time of installation.

Limitations and Conditions:

See Continuation Sheet Page 3

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of Application: **July 27, 2023**

Date Reissued:

Date of Issuance: **January 7, 2025**

Date Amended:

By Direction of the Administrator

Signature:  Digitally signed by ANTHONY B WHITE
Date: 2025.01.07 13:07:22 -05'00'

Title: (for) Christina M. Underwood
Manager, East Certification Branch
Compliance and Airworthiness Division
Aircraft Certification Service

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



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Limitations and Conditions (Continued):

1. The installer must determine whether this design change is compatible with previously approved modifications.
2. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

Certification Basis:

Based on 14 CFR 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for Boeing 737-300/-400/-500 series aircraft is as follows:

- a. The type certification basis for the Boeing 737-300/-400/-500 airplane is shown on TCDS A16WE for parts not changed or not affected by the change.
- b. The certification basis for parts changed or affected by the change since the reference date of application, July 27, 2023 is based upon part 25 as amended by Amendment 25-148. Based on 14 CFR 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for this modification was determined to be:

Any alteration of this certificate and/or the Type Certificate Data Sheet is punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with Title 14 of the Code of Federal Regulations, part 21, section 21.47 (14 CFR 21.47). A transfer must be endorsed as provided on the reverse hereof. A Type Certificate holder who allows a person to use the Type Certificate to manufacture a new aircraft, aircraft engine, or propeller must provide that person with a written licensing agreement acceptable to the FAA. (Ref. 14 CFR 21.55).



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Certification Basis (Continued):

Regulations at the latest amendment 25-0 through 25-148:

§25.29	§25.611	§25.869(a)(1)(3)	§25.981(a)(3)
§25.1301(a1-a4)	§25.1307(c)	§25.1309	§25.1351(a)
§25.1353(a)	§25.1357(a)	§25.1360(a)(b)	§25.1431(a)(c)
§25.1529	§25.1541(a)	§25.1729	§H25.1 §H25.5

Regulations at an intermediate amendment:

None

Regulations at the amendment level in TCDS A16WE:

None

14 CFR Part 26 Regulations:

Referencing §26.11(d), the Applicant has elected to reference §25.1729 which accomplishes the intent of §26.11 regarding requirements for EWIS Instructions for Continued Airworthiness. Additionally no structural alterations were accomplished as part of this STC, and as such there is no requirement that §26.47 be part of the certification basis.

-----END-----

January 7, 2025

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