



United States of America
Department of Transportation
Federal Aviation Administration
Supplemental Type Certificate

Number: ST09890AC

This certificate issued to: Delta G Design, Inc.
100 Research Pkwy., Suite 3287-B
Waco, TX 76704

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 25 *of* Federal Aviation Regulations.

Original Product
Type Certificate Number: A16WE

Make: The Boeing Company

Model: 737-700 Series, 737-700C Series, 737-800 Series, 737-900 Series, 737-900ER Series, 737-8

Description of Type Design Change:

Installation of a IGA-5001 Antenna (structural provisions only) in accordance with Delta G Design Master Data List DGD-IGA01-MD-03, Rev. C, dated December 8, 2020, or later FAA approved revision. Maintained per Delta G Design and Instructions for Continued Airworthiness DGD-IGA01-IC-03, Rev. D, dated November 10, 2020, or later FAA accepted revision.

Limitations and Conditions:

The installer must determine whether this design change is compatible with previously approved modifications. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission. This certificate is for structural provisions only. EMI and functional testing is required as part of a separate approval when associated component parts are installed.

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: November 18, 2015

Date Reissued:

Date of Issuance: June 8, 2018

Date Amended: March 26, 2019, December 15, 2020

By Direction of the Administrator

**JAMES A
GRIGG**

Digitally signed by
JAMES A GRIGG
Date: 2021.01.05
14:55:17 -06'00'

Signature:

Jim Grigg

Title: Manager, Fort Worth ACO Branch
Compliance & 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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Certification Basis:

1. Based on 14 CFR § 21.115 and 21.101(b)(1) and FAA Order 8110.48, the certification basis for the listed models of Boeing 737 aircraft modified by the installation of a Cobham IGA-5001 Antenna is as follows:

- a. The type certification basis for the Boeing 737 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, November 18, 2015, is based upon part 25 as amended by Amendment 25-120.

Based on 14 CFR § 21.115 and 21.101(b)(1) and FAA Order 8110.48, the certification basis for this modification was determined to be:

Regulations at the latest amendment 25-0 through 25-91

14 CFR § 25.23, 25.251(b), 25.301(a)(b), 25.303, 25.305(a)(b)(e), 25.321(b)(1)(2)(3)(c) (d), 25.351, 25.561(c), 25.581(a)(1)(2)(b)(1)(2)(c), 25.601, 25.603, 25.605(a), 25.609, 25.625(a), 25.629(a), 25.1401(b), 25.1519, 25.1529

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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Regulations at an intermediate amendment

14 CFR § 25.307(a) amdt 72, 25.571(a)(1)(3)(b)(5)(i)(ii) amdt 86, 25.611 amdt 23,
25.613(a)(b)(c) amdt 72, 25.1419(a) amdt 72

Regulations at the amendment level in TCDS A16WE

14 CFR § 25.365(a)(b)(d)(e)

Regulation 26.47(c)

2. The following lists the Federal Aviation Regulations complied with for the listed series of the Boeing 737 models modified by this STC amendment dated December 15, 2020:

25.23 Amdt 0, 25.601 Amdt 0, 25.603 Amdt 46, 25.605 (a) Amdt 46, 25.609 Amdt 0,
25.611 Amdt 23, 25.613 (a)(b)(c) Amdt 112, 25.1519 Amdt 0, 25.1529 Amdt 54,
25.1529 App.H Amdt 132, 26.47(c) Amdt 0

Equivalent Level Of Safety Memo #SA02919AC-T-F-1 for § 25.251(b)

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