United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number: ST03945AT

This certificate issued to: LB Aircraft Engineering, Inc
6355 NW 36th St, Suite 510
Miami Springs, FL 33166

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 – Type Certificate Number: A16WE

Make: Boeing
Model: 737-300, -500, -700, -800, -900

Description of Type Design Change: Installation of a High Elevation Airport take-off and Landing cabin pressure warning system. Installation consists of one CABIN ALTITUDE warning light, one TAKEOFF CONFIG warning light, one 10,000 ft cabin altitude pressure sensor, two 14,000 ft cabin pressure sensors, and a selector switch to enable the selection between Normal Altitude Airport Operations or High Altitude Airport Operations.
- The installation on B737-300 & -500 is in accordance with ARC Avionics Corp. Master Data List 750-100811, Rev-E, dated February 11, 2012, or later FAA approved revisions.
- The installation on B737-700, -800 & -900 is in accordance with LB Aircraft Engineering Inc Master Data List 750-100811-NG, Rev-IR, dated August 08, 2016, or later FAA approved revisions.

Limitations and Conditions: "Due to minor modification differences between the Boeing 737 classics and NG's:

- FAA letter 130S-11-411, dated January 17, 2012, provide an approval for the B737-300 and -500 modifications as an Alternative Means Of Compliance (AMOC) to the requirement of paragraph (g) of Airworthiness Directive (AD) 2011-03-14.

- FAA letter 130S-16-191, dated August 3, 2016, provide an approval for the B737-700, -800 & -900 modifications as an Alternative Means Of Compliance (AMOC) to the requirement of paragraph (g) of Airworthiness Directive (AD) 2013-02-05..."

(See continuation sheet 3 of 3)

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

Date of Application: August 16, 2011
Date of Issuance: March 02, 2012

Date Reissued: April 04, 2013
Date Amended: August 08, 2016

By Direction of the Administrator

Signature _____

Title Christina Underwood, Manager
Atlanta Aircraft Certification Office

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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INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Aircraft Certification Office of the transfer of this Supplemental Type Certificate. The FAA will reissue the certificate in the name of the transferee and forward it to him.

Transfer Endorsement

Transfer the ownership of Supplemental Type Certificate Number:

To (Name and address of transferee)

From (Name and address of grantor)

Extent of Authority (if licensing agreement):

Date of transfer:

Signature of grantor: _____

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Limitations and Conditions (Continued): "…

- For Boeing 737-300 and-500, FAA Approved Flight Manual Supplement, ARC Avionics document 730-100811, Revision IR, dated March 02, 2012, or later FAA approved revisions, is a part of this STC.

- For Boeing 737-700, -800 & -900, FAA Approved Flight Manual Supplement, LB Aircraft Engineering Inc 730-100811-NG, Revision IR, dated August 08, 2016, or later FAA approved revisions, is a part of this STC.

- For B737-300 and -500 maintenance and inspections, apply ARC Avionics Instructions for Continued Airworthiness 740-100811, Revision B, dated November 15, 2011, or later FAA accepted revisions.

- For Boeing 737-700, -800 & -900 maintenance and inspections, apply LB Aircraft Engineering Inc Instructions for Continued Airworthiness 740-100811-NG, Revision IR, dated August 08, 2016, or later FAA accepted revisions.

This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated, unless it is determined by the installer that the interrelationship between this change and any other previously approved modifications will produce no adverse effect upon the airworthiness of that airplane. 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 parts changed or affected by the change since the reference date of application, August 16, 2011, is based upon 14 CFR Part 25 as amended by Amendment 25-134. Based on Order 8110.48, the certification basis for this modification was determined to be:

Regulations at the latest amendment 25-0 through 25-134

§25.305(a)(b), Amdt. 25-86	§25.307(a), Amdt. 25-72	§25.601, Orig.
§25.603 (a), Amdt. 25-46	§25.605 (a)(b), Amdt. 25-46	§25.607 (a)(b)(c), Amdt. 25-23
§25.609 (a), Orig.	§25.611, Amdt. 25-123	§25.613(a)(b)(c)(d)(e), Amdt. 25-112
§25.1301 (a)(b)(c)(d), Amdt. 25-123	§25.1307, Amdt. 25-72	§25.1309(a)(b)(c)(d)(e)(f)(g), Amdt. 25-123
§25.1321 (a)(b)(c)(d)(e), Amdt. 25-41	§25.1322 (a)(b)(c)(d), Amdt. 25-131	§25.1351 (a), Amdt. 25-72
§25.1353 (a), Amdt. 25-123	§25.1357(a)(b)(c)(d)(e), 25-123	§25.1381 (a)(b), Amdt. 25-72
§25.1431 (a)(b)(c)(d), Amdt. 25-113	§25.1501 (a)(b), Amdt. 25-42	§25.1519, Orig.
§25.1529, Amdt. 25-54	§25.1533 (a)(b), Amdt. 25-92	§25.1541, Orig.
§25.1543 (a)(b), Amdt. 25-72	§25.1581(a)(b)(d), Amdt 25-72	§25.1585 (a)(b), Amdt. 25-105
§25.1587 (b), Amdt. 25-108		

Equivalent Level Of Safety findings have been made for regulations § 25.841(a) and (b)(6) "Operations into airports up to 13,500 feet landing field" as documented in the following Transport Airplane Directorate Memos:

- For B737-300 and -500, see ELOS memo ST13518AT-T-S-1, dated February 15, 2012.
- For Boeing 737-700, -800 & -900, see ELOS memo SA15081AT-T-S-1, dated June 29, 2016.

14 CFR Part 26 regulations: Based on 14 CFR § 21.101(g), applicable provisions of 14 CFR Part 26 are included in the certification basis. For any future 14 CFR 26 amendments, the holder of this STC must demonstrate compliance with the applicable sections. As of the issuance date of this STC, compliance has been found for the following regulations: 14 CFR §§ 26.11 (Amdt 26-0).

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