

Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number ST00830SE*This certificate, issued to*

Aviation Partners Boeing
2811 South 102nd Street, Suite 200
Seattle, WA 98168

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: 737-700 Series; 737-700C Series; 737-800 Series; 737-900 Series; and 737-900ER Series

Description of the Type Design Change: Installation of winglets, wing structural reinforcement and related system changes on Boeing Model 737-700, 737-700C, 737-800, 737-900 and 737-900ER series airplanes. Fabrication and installation of parts must be accomplished in accordance with the applicable Federal Aviation Administration (FAA) approved Aviation Partners Boeing Master Drawing Lists as listed on the Approved Model List (AML) or Model Appendix (MA) documents with revision levels as stated in the table on Page 3 or later FAA-approved revisions.

(See Continuation Sheet Page 3 of 4 Pages)

Limitations and Conditions: The limitations and conditions of Type Certificate A16WE apply except as outlined on Pages 3 through 4 of this STC. A copy of this certificate must be included in the permanent records of each airplane modified in accordance with this STC. Approval of this change in type design applies to the Boeing Model 737-700, 737-700C, 737-800, 737-900 and 737-900ER series airplanes that are otherwise unmodified (unless identified as a previously determined compatible STC). This approval should not be extended to other airplanes of these models unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of the airplane.

(See Continuation Sheet Page 3 of 4 Pages)

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: January 14, 1998*Date reissued:* December 23, 2009*Date of issuance:* September 5, 2000*Date amended:* 12/7/00; 3/23/01; 7/6/01; 8/27/01; 12/12/01; 1/31/02; 2/19/04; 5/7/04; 7/30/04; 10/10/06; 10/10/07; 3/19/10; 9/13/13; 11/6/13, 8/25/14, 10/2/2014*By direction of the Administrator*

(Signature)

Manager, Airplane Certification Office

(Title)

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 in accordance with FAR 21.47.

Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number **ST00830SE**

Aviation Partners Boeing

Issued: September 5, 2000

Reissued: December 23, 2009

Amended: 12/7/00; 3/23/01; 7/6/01; 8/27/01; 12/12/01; 1/31/02; 2/19/04; 5/7/04; 7/30/04; 10/10/06; 10/10/07; 3/19/10; 9/13/13; 11/6/13, 8/25/14, 10/2/2014

Description of the Type Design Change continued:

Model	Description	Approved Model List (AML) or Model Appendix (MA) document #
737-700	Winglet or Partial Wing Retrofit Installation	AP37.7-AML0830, Rev. IR, dated October 10, 2007, or later FAA-approved revision.
737-700C	Winglet or Partial Wing Retrofit Installation	AP37.7C-AML0830, Rev. A, dated March 18, 2010, or later FAA-approved revision.
737-800	Winglet or Partial Wing Retrofit Installation	AP37.8-MA0830, Amended 10/2/2014; STC Number ST00830SE – 737-800, or later FAA-approved revision.
737-900	Winglet or Partial Wing Retrofit Installation	AP37.9-AML0830, Rev. IR, dated October 10, 2007, or later FAA-approved revision.
737-900ER	Winglet or Partial Wing Retrofit Installation	AP37.9ER-MA0830, Amended August 25, 2014; STC Number ST00830SE – 737-900ER, or later FAA approved revision

Limitations and Conditions continued:

Airspeed Limits: See Type Certificate Data Sheet A16WE.

C.G. Range: See Type Certificate Data Sheet A16WE.

Maximum Weights: See Type Certificate Data Sheet A16WE.

Eligible S / N's: Refer to the applicable Aviation Partners Boeing Approved Model List (AML) or Model Appendix (MA) document referenced above for the applicable Eligible Airplane Serial Number document.

Operational Requirements: This engineering approval of a changed type certificate limitation does not permit a change in operating rule applicability to the operator of the changed aircraft. An applicant for an operating rule applicability change must obtain any change in operating rule applicability through consultation with their responsible certificate management office (CMO).

Airplane operation must be in accordance with the applicable Aviation Partners Boeing Airplane Flight Manual (AFM) Supplement, Configuration Deviation List (CDL) Supplement, and Weight and Balance Manual Supplement listed in the applicable Approved Model List (AML) or model appendix (MA) document referenced above.

The 737-700C with PATS Auxiliary Fuel Tank installations are life limited to 60 months, 5000 cycles or 7000 hours after the blended winglets retrofit kit installation, whichever comes first.

(See Continuation Sheet Page 4 of 4 Pages for Certification Basis)

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Certification Basis: Refer to the applicable Aviation Partners Boeing Approved Model List (AML) document referenced above

Equivalent Level of Safety (ELOS):	SP11946SE-T-SE-1 § 25.1397(b) ELOS for Aviation Green Chromaticity Requirements Refer to the applicable Aviation Partners Boeing Approved Model List (AML) or Model Appendix (MA) document referenced above.
Exemptions:	See Type Certificate Data Sheet A16WE
Certification Maintenance Requirements and Airworthiness Limitations:	Airplane maintenance must be in accordance with the applicable Aviation Partners Boeing Maintenance Planning Document (MPD) Supplement Certification Maintenance Requirements and Airworthiness Limitations documents listed in the applicable Approved Model List (AML) or Model Appendix (MA) document referenced above.
Required Equipment:	See Type Certificate Data Sheet A16WE
Service Information:	Refer to the applicable Aviation Partners Boeing Approved Model List (AML) or Model Appendix (MA) document referenced above for the applicable Structural Repair Manual Supplement, Airplane Maintenance Manual Supplement, Maintenance Planning Data Document, and Fault Isolation Manual Supplement documents.
Previously Determined Compatible Supplemental Type Certificates (STC)	Refer to the applicable Aviation Partners Boeing Approved Model List (AML) or Model Appendix (MA) document referenced above for notes identifying certain STC's that have already been determined to be compatible with this STC.

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.

- END -

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