

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

Number **ST00937SE**

This certificate, issued to **Hamilton Aviation, Inc.
6901 S. Park Avenue
Tucson, AZ 85706**

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 4b of the Civil Aviation Regulations. See page 2 for the complete type certification basis

Original Product—Type Certificate Number: A3WE
Make: Boeing
Model: 727-200 series

Description of the Type Design Change: Installation of 727-200 9-G Barrier in accordance with Hamilton Aviation Master Drawing List Number HA01-3, Revision IR, dated March 20, 2001, or later FAA approved revision.

Modification and reinforcement of fuselage structure from a passenger configuration to a freighter configuration with a "Class E" cargo compartment, in accordance with Hamilton Aviation Master Drawing List Number WAI9815-10, Revision E, dated February 22, 2000, or later FAA approved revision.

Limitations and Conditions: Approval of this change in type design applies only to the aircraft models listed above. A copy of this Certificate and Hamilton Aviation Master Drawing List Number WAI9815-10 must be maintained as part of the permanent records for the modified aircraft.

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.

See Continuation Sheet pages 3 through 6 for additional Limitations and Conditions

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 17, 1998 *Date reissued:*
Date of issuance: August 17, 2001 *Date amended:*



By direction of the Administrator

(Signature)

Acting Manager, Seattle Aircraft 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.

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Date of Reissuance:

Date Amended:

Limitations and Conditions: (cont'd)

Compatibility of this design change with previously installed modifications must be determined by the holder of the STC, except that installation of this STC on airplanes on which engine hush kits or winglets have been installed or for which increases in maximum zero fuel weight have been approved, is not valid unless the compatibility is approved by the Federal Aviation Administration, Manager, Seattle Aircraft Certification Office.

Certification Basis:

a. The original type certification basis for the Boeing 727-200 airplane shown on FAA Type Certification Data Sheet (TCDS) A3WE, Revision 19, for parts not changed or not affected by the change, and is as follows:

CAR 4b, dated December 31, 1953, Amendments 4b-1 through 4b-11, Special CAR SR-422B; Special Conditions set forth in FAA letter to Boeing dated February 2, 1967, as revised by FAA letters to Boeing dated June 20, 1967, September 1 and 13, 1967; FAR Amendment 36-2.

b. For those parts of the airplane that are changed or are affected by this STC, the certification basis is the type certification basis as shown above in FAA TCDS A3WE, plus the following specific sections of FAR Part 25:

- § 25.25 Amendment 25-63
- § 25.29 Amendment 25-72
- § 25.301 Amendment 25-23
- § 25.303 Amendment 25-23
- § 25.305 Amendment 25-0
- § 25.307 Amendment 25-72
- § 25.321 Amendment 25-23
- § 25.331 Amendment 25-0
- § 25.333 Amendment 25-0
- § 25.335 Amendment 25-0
- § 25.337 Amendment 25-23

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Limitations and Conditions: (cont'd)

- § 25.341 Amendment 25-0
- § 25.343 Amendment 25-0
- § 25.345 Amendment 25-0
- § 25.349 Amendment 25-0
- § 25.351 Amendment 25-0
- § 25.365 Amendment 25-0
- § 25.367 Amendment 25-0
- § 25.373 Amendment 25-0
- § 25.471 Amendment 25-0
- § 25.473(a) Amendment 25-0
- § 25.479 Amendment 25-0
- § 25.481 Amendment 25-0
- § 25.483 Amendment 25-0
- § 25.485 Amendment 25-0
- § 25.489 Amendment 25-0
- § 25.491 Amendment 25-0
- § 25.493 Amendment 25-0
- § 25.495 Amendment 25-0
- § 25.499 Amendment 25-0
- § 25.507 Amendment 25-0
- § 25.509 Amendment 25-0
- § 25.561 Amendment 25-23
- § 25.571 Amendment 25-54
- § 25.601 Amendment 25-0
- § 25.603 Amendment 25-46
- § 25.605 Amendment 25-46
- § 25.607 Amendment 25-23
- § 25.611 Amendment 25-23
- § 25.613 Amendment 25-72
- § 25.619 Amendment 25-23
- § 25.625 Amendment 25-72

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Limitations and Conditions: (cont'd)

- § 25.783 (e), (f), (g) Amendment 25-72,
- § 25.801 Amendment 25-72
- § 25.807 (e), (f) Amendment 25-72
- § 25.809 (f) Amendment 25-47
- § 25.811 (c), (f) Amendment 25-79
- § 25.812 (h) Amendment 25-58
- § 25.831 (a), (e)(1), (f) Amendment 25-41
- § 25.843 (a) Amendment 0
- § 25.851 (a)(2), (a)(3), (a)(5), (a)(7), (a)(8) Amendment 25-74
- § 25.853 (a) Amendment 25-83
- § 25.855 (a), (b), (d), (e), (f), (g), (h), Amendment 25-72
- § 25.857 Amendment 25-60
- § 25.858 (a), (b), (c), (d) Amendment 25-54
- § 25.863 Amendment 25-46
- § 25.869 (a)(1), (a)(3), (a)(4) Amendment 25-72
- § 25.1301 Amendment 25-0
- § 25.1307 (c) Amendment 25-72
- § 25.1309 (a), (b), (c), (d) Amendment 25-41
- § 25.1322 Amendment 25-38
- § 25.1323(b), (c), Amendment 25-57
- § 25.1325(b), (c), (e) Amendment 25-41
- § 25.1357(a) Amendment 25-0
- § 25.1411 Amendment 25-0
- § 25.1415(a), (b), (c) Amendment 25-29
- § 25.1415(d) Amendment 25-82
- § 25.1435 Amendment 25-72
- § 25.1439(a), (b) Amendment 25-38
- § 25.1443 (e) Amendment 25-0
- § 25.1445(b) Amendment 25-0
- § 25.1447(a) Amendment 25-41
- § 25.1450 Amendment 25-41

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Limitations and Conditions: (cont'd)

§ 25.1529 Amendment 25-54

Eligible Serial Numbers: Eligible Boeing Model 727 -200 Serial Numbers are listed in Hamilton Aviation Top Drawing List Number HA01-03.

Instructions for Continued Airworthiness: The Hamilton Aviation Document HA01-05 contains information essential to the proper maintenance, repair and continued airworthiness of airplanes modified in accordance with this STC. Section 4.0 in this document contains the necessary routine maintenance instructions. Section 5.0 contains information regarding structural repairs. Section 6.0 provides information relative to compliance with the Boeing Corrosion Prevention and Control Program.

Section 3.0 contains the Airworthiness Limitations which is FAA-approved and specifies maintenance required under § 43.16 and § 91.403 of the Federal Aviation Regulations. Inspections required by this section and their intervals must not be deleted or escalated without the approval from the Manager, Seattle Aircraft Certification Office.

Section 6.1 contains information related to the supplemental structural inspections. Paragraph G of Airworthiness Directive (AD) 98-11-03 requires each operator to revise its maintenance program to include an inspection method and compliance time for each new or affected Significant Structural Item (SSI), within 12 months of modification. The inspections contained in this section meet the requirements of AD 98-11-03.

Airplane Flight Manual Supplements (AFMS)

The following supplements are applicable and essential to the Boeing Model 727 series modified in accordance with this STC (as dated or later approved revisions).

Hamilton Aviation Documents:

Airplane Flight Manual Supplement for Cargo Conversion, Boeing Model 727-200
Document Number WAI9710-10, Revision A, dated May 5, 2000.

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Airplane Flight Manual Supplement for Cargo Conversion, Boeing Model 727-200
Document Number HA01-07, Revision IR, dated August 15, 2001.

Weight and Balance Manual Supplement for Boeing 727-200, Document Number
WA19710-3.xxxxx, Revision A, dated August 6, 2001, or later approved revisions,
where "xxxxx" denotes the serial number of the modified airplane.

-END-

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