

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

Number SA517EA-D

This certificate, issued to American Airlines, Inc.
Maintenance & Engineering Center
Tulsa, Oklahoma 74151

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 Air Regulations.

Original Product — Type Certificate Number: 4A21, 4A26
Make: Boeing
Model: 707-323C, 707-385C, 707-323B, 707-123B

Description of Type Design Change:

- I. Install dual Litton LTN-51 INS in accordance with Advisory Circular 25-4 dated 2/18/66, ARINC 561, and the following American Airlines ECO's:
707-323C: B2608K, B3618, B3642, B3766, B3786, B3787, B4002, B4283A, B4326, and B4488.
707-323B: B3074C, B3618D, B3642, B3766, B3785, and B4002.
707-385C: B2608L.
707-123B: B4488.

(Cont'd next page)

Limitations and Conditions:

1. This approval should not be incorporated in any aircraft of this specific model on which other approved modifications are incorporated, unless it is determined that the interrelationship between this change and any of those previously incorporated approved modifications will not introduce any adverse effect upon the airworthiness of the aircraft.

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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 30, 1967

Date issued:

Date of issuance: January 16, 1968

Date amended: 4/10/68, 8/20/68, 6/5/69, 1/22/70,
2/8/72, 2/4/75, 4/8/75, 5/1/77



By direction of the Administrator

K. B. Olsen (Signature)

DAS-1SW Coordinator

(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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Description of Type Design Change (Cont'd)

- II. Install No. 2 ship's battery (Type AN3150-2) to provide standby DC power for No. 2 INS and to supplement the existing ship battery, or install two independent INS batteries per ARINC 561. Install in accordance with the following American Airlines ECO's:

707-323C: B3117A
707-323B: B3117D
707-385C: B2608N
707-123B: B4488

- III. Provide dual LTN-51 INS attitude reference in accordance with TSO C4C, C5C II, and C6C in either NAV or ATT REF mode as the primary or alternate source, or provide dual Bendix vertical gyros as the alternate source. A single Bendix vertical gyro may be provided as an alternate attitude source for either INS system.

Install in accordance with the following American Airlines ECO's:

707-323C: B4286A, or B4354A.
707-123B: B4492

- IV. The following AFM Supplements are required as applicable:

<u>Model</u>	<u>Boeing Document No.</u>	<u>Revision No.</u>	<u>Date</u>
707-323C	D6-1587.1	AAL-10	1/22/70
	D6-1587.1	AAL-18	4/8/75
707-323B	D6-1588.15	AAL-3	1/22/70
707-385C	D6-1587.24	AAL-5	1/22/70
707-123B	D6-1585	AAL-17	5/1/77

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Limitations and Conditions (Cont'd)

2. Item II may be installed concurrently or without Item I. However, Item I must not be installed or operated without Item II.
3. An RFI/EMI test is required for each and every aircraft incorporating this installation.
4. Item I is approved for operation with Litton INS Program No. 115500, 115509, or 100520 only.
5. The VG's used for alternate attitude in Item III must be a Bendix Type 15897, 19911, 19912, or 19917.

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INSTRUCTIONS : The transfer endorsement below may be used to notify the appropriate FAA Regional 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 of transferee)* _____

(Address of transferee) _____

(Number and street)

(City, State, and ZIP code)

from *(Name of grantor) (Print or type)* _____

(Address of grantor) _____

(Number and street)

(City, State, and ZIP code)

Extent of Authority (if licensing agreement) : _____

Date of Transfer : _____

Signature of grantor *(In ink)* : _____