

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

Number **ST00131SE**

This certificate, issued to:

**The NORDAM Group, Inc.
6911 N. Whirlpool Drive
Tulsa, OK 74117**

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: 737-200 series, 737-200C series

Description of the Type Design Change: Installation of NORDAM Low Gross Weight (LGW) Hush Kit on Boeing Model 737-200 and 737-200C aircraft in accordance with FAA approved NORDAM Master Drawing List Document No. NDER-9316, Revision J, dated September 19, 1997, or later FAA approved revision.

Limitations and Conditions: The limitations and conditions of Type Certificate A16WE apply except as described in this Supplemental Type Certificate (STC). A copy of this STC and NORDAM Master Drawing List Document No. NDER-9316, Revision J, dated September 19, 1997, or later FAA approved revision, must be included in the records of 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 Pages 3-5 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: October 12, 1993
Date of issuance: November 8, 1994

Date reissued: April 1, 2011
Date amended: 1/26/95; 5/13/96; 9/13/96; 2/20/97;
3/23/98



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.

Department of Transportation Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number **ST00131SE**

The NORDAM Group, Inc.

Issued: November 8, 1994

Reissued: April 1, 2011

Amended: 1/26/95; 5/13/96; 9/13/96; 2/20/97; 3/23/98

Limitations and Conditions continued:

This approval shall not be extended to other airplanes of these models on which previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any other of those previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of those airplanes.

Approved Model Designations:

The supplemental model designation for airplanes modified in accordance with this STC is "B737 LGW Hush Kit." This model designation appears on the FAA approved NORDAM Airplane Flight Manual (AFM) Supplements (see Note 2), Structural Repair Manual Supplement, Maintenance Manual Supplement, Illustrated Parts Catalog Supplement, and all other related service documents. This model designation does not alter or replace the original Boeing 737-200 or 737-200C Series model designation.

Certification Basis:

The certification basis for unmodified systems and structures is the same as that shown on the Type Certification Data Sheet (TCDS) for the Model 737-200 and 737-200C Series. The certification basis for new or extensively modified systems and structures is the same as that shown on TCDS A16WE for the Model 737-200 and 737-200C Series, except that Title 14 Code of Federal Regulations (CFR) section (§) 25.25 as amended by Amendment 25-63 is applicable, and 14 CFR § 25.903(a)(1) as amended by Amendment 25-73 is applicable.

In addition, 14 CFR part 34 is applicable and 14 CFR part 36 as amended by Amendment 36-20 is applicable.

Engines:

Two (2) Pratt & Whitney JT8D-7, JT8D-7A, JT8D-7B, JT8D-9, JT8D-9A, JT8D-15, JT8D-15A, JT8D-17 and JT8D-17A (See Note 5). Engine ratings are as stated in TCDS A16WE.

Combinations of engines which can be intermixed and their respective limitations are covered in the FAA approved NORDAM AFM Supplement or Appendices (see Note 2).

For engine operating limitations see Engine TCDS E2EA for the JT8D-7, JT8D-7A, JT8D-7B, JT8D-9, JT8D-9A, JT8D-15, JT8D-15A, JT8D-17 and JT8D-17A or the FAA approved NORDAM AFM Supplement (See Note 2).

Thrust Setting:

The appropriate EPR or N1 Thrust Setting Curve as required by the NORDAM AFM Supplement must be used for control of engine thrust (See Note 2).

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Limitations and Conditions continued:

Eligible Aircraft:

All Boeing Model 737-200 and 737-200C Series aircraft listed on TCDS A16WE, including those in the "Advanced" configuration described in Note 9 of that TCDS.

Approved Service Information:

NORDAM Structural Repair Manual Supplements to Boeing Report D6-15565, NORDAM document numbers M-LGW02, M-LGWH-02, and M-LGW-N02, are FAA approved and are applicable to the relevant LGW Hush Kit installed on the Model 737 airplanes modified in accordance with this STC. NORDAM service bulletins and other service information when FAA approved will carry a statement to that effect.

Notes Pertinent to All Models:

Note 1:

The Weight and Balance Control and Loading Manual D6-15066 together with the Supplement Aircraft Report applicable to the specific Model Designation must be revised to show the installation of this STC, including a list of equipment included in the certificated empty weight and loading instructions. The revised Weight and Balance Control and Loading Manual must be in each aircraft at the time of original certification and at all times thereafter, except in the case of operators having an approved weight control system.

Note 2:

An airplane modified per this STC must be operated in accordance with an FAA Approved AFM. In addition:

- a. Model 737-200 Advanced and 737-200C Advanced airplanes modified per this STC must supplement the basic AFM with FAA approved NORDAM AFM Supplement NDER-9400.XXXA, and
- b. Model 737-200 and 737-200C airplanes modified per this STC must supplement the basic AFM with FAA approved NORDAM AFM Supplement NDER-9401.XXX.

The XXX reflect the same Boeing model designation number assigned to the existing FAA approved basic AFM. Each FAA approved AFM Supplement lists the applicable appendices and airplane Serial Numbers. All placards required in either the FAA approved AFM Supplement, the applicable operating rules or the certification basis must be installed in the airplane.

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Limitations and Conditions continued:

Notes Pertinent to All Models:

Note 3:

Required structural inspections for all models of the 737 -modified in accordance with this STC are contained in the NORDAM Maintenance Program, document numbers M-LGW05, M-LGWH-05 and M-LGW-N05.

Note 4:

Information essential to the proper maintenance of the aircraft modified in accordance with this STC is contained in the NORDAM Supplements to the Boeing 737 Maintenance Manual, document numbers M-LGW04, M-LGWH-04 and M-LGW-N04.

Note 5:

Pratt & Whitney JT8D Service Bulletin Number 5950 for the Respaced Inlet Guide Vanes, Number 5947 for the Fan and Exhaust Mixer System Duct Assembly, and Number 6077 for the Aft Engine Mount modification of their alternate/superseding FAA approved service bulletins must be incorporated on each engine in accordance with the applicable installation instructions concurrently with this STC modification.

- END -

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