

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

Number **ST01542LA**

This Certificate issued to **JET ENGINEERING, LTD.** MAILING ADDRESS
915 Camino Del Mar, Suite 100 P. O. Box 1090
Del Mar, California 92014 Del Mar, California 92014

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 25 of the Federal Aviation Regulations. *Certification basis is set forth in Type Certificate Data Sheet and continuation sheet.*

Original Product Type Certificate Number: A6WE
Make: McDonnell Douglas
Model: DC-9-81/-82/-83/-87, MD-88

Description of Type Design Change:

Installation of JET Engineering, Ltd. Jet Nozzles on the above airplane models when powered by Pratt & Whitney JT8D-217/-219 series engine in accordance with JET Engineering Master Drawing List (MDL) No. 200-1000, Revision D, dated January 26, 2004, or later FAA approved revisions.

Limitations and Conditions:

The installation should not be incorporated in any airplane unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the airplane. The approval of this modification applies to the above noted airplane models only. If the holder agrees to permit another person to use this certificate to alter their airplane, the holder shall give the other person written evidence of that permission. See continuation sheet.

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: September 09, 2001

Date reissued: July 6, 2006

Date of issuance: September 11, 2003

Date amended: October 09, 2003,
June 14, 2004, July 6, 2006



By direction of the Administrator

(Signature)

Manager, Propulsion Branch
Los Angeles 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.

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

NOTE:

DO NOT DELETE THIS PAGE.

DO NOT ADD ANY DATA TO THIS PAGE.

THIS PAGE IS FOR PAGE NUMBERING PURPOSES,
PLEASE DISCARD PRINTED COPY.

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

Supplemental Type Certificate

(Continuation Sheet)

Number **ST01542LA**

Revision Log:

| | | | | | |
|----------|---|---|---|---|---|
| Page No. | 1 | 2 | 3 | 4 | 5 |
| Rev. No. | 3 | - | 3 | 3 | 3 |

Description of Type Design Change (continued):

The following JET Engineering continued airworthiness supplements are applicable to airplanes modified in accordance with this STC:

- Supplemental Maintenance Manual for the JET Engineering Jet Nozzles installed on DC-9-80 series aircraft, JET-TR-401.
- Supplemental Structural Repair Manual to the McDonnell Douglas DC-9-80 series aircraft, Structural Repair Manual, JET-TR-201, Revision New, dated May 27, 2003, or later FAA approved revision.
- Maintenance Program Supplement to the JET Engineering Supplemental Maintenance Manual, JET-TR-301.
- Supplemental Structural Inspection Requirements for the JET Engineering Jet Nozzles, installed on DC-9-80 series aircraft, JET-TR-801, Revision New, dated June 3, 2003, or later FAA approved revision.
- The JET Engineering Weight and Balance Manual Supplement, Report No. JET-TR-501, Initial Release, dated May 27, 2003, or later FAA approved revision, is required for airplanes modified in accordance with this STC.

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

Supplemental Type Certificate

(Continuation Sheet)

Number ST01542LA

Limitations and Conditions: (continued):

For airplanes modified in accordance with MDL 200-1000, Revision D, dated January 26, 2004, or later FAA approved revisions:

Weight Limitations:

For DC-9-83 and MD-88 aircraft with Maximum Takeoff Weights in excess of 160,000 lbs in the Basic Airplane Flight Manual:

Maximum Takeoff Weight: 155,000 lbs

For all DC-9-81, -82, -83, -87 and MD-88 airplanes with Maximum Takeoff Weights less than or equal to 155,000 lbs in the basic Airplane Flight Manual:

No Change

Flap Limitations

For DC-9-83 and MD-88 aircraft with Maximum Landing Weights in excess of 149,500 lbs in the Basic Airplane Flight Manual:

Maximum Landing Flap: 28 degrees

For all DC-9-81, -82, -83, -87 and MD-88 airplanes with Maximum Landing Weights less than or equal to 149,500 lbs in the basic Airplane Flight Manual:

No Change

Operational weights are limited to the lowest of the structural, performance, or noise limited weights, (See AFM).

Airplane Flight Manual Supplements

The FAA Approved JET Engineering Airplane Flight Manual Supplement, Document No. 200-490, Revision A, dated July 6, 2006, or later FAA Approved revision.

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number **ST01542LA**

Limitations and Conditions: (continued):

For All Airplanes:

For aircraft with maximum landing flap restrictions of 28°, Flaps Full DN (40°) is not approved for use during normal operations. Data presented in Section 4 are not approved for use except in an emergency. The following placard must be installed in view of the flight crew:

**Selection of Flaps 40 is Approved
for Emergency Operations Only**

The breakaway wire on Flaps 28° stop must be installed.

Certification Basis for this modification:

14 CFR part 25 at amendment 0 effective February 1, 1965, through amendment 46

14 CFR part 36 at amendment 28

NOTE: A copy of this certificate must be maintained as part of the permanent records of the modified airplane.

-END-

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.