

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

Number ST01943LA

This Certificate issued to **JET ENGINEERING, LTD.**
2285 East Elvira Road
Tucson, Arizona 85745

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 Date 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 a JET Engineering, Ltd. Advanced Jet Nozzles on the above airplane model(s) when powered by Pratt & Whitney JT8D-217, -217A, -217C, -219 engines in accordance with JET Engineering Master Drawing List (MDL) No. 201-1000, Revision A, dated January 17, 2007, or later FAA approved revisions. See Continuation Sheet.

Limitations and Conditions: This installation must be done concurrently with STC No. SE01944LA installation of Jet Engineering, Ltd. Turbine Exhaust Cone Mixer (TECM), which modifies the Pratt & Whitney JT8D-217, -217A, -217C, -219 engines. The installation should not be incorporated in any aircraft 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 that aircraft. 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 the product, 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: January 10, 2005

Date reissued: February 8, 2008,
September 17, 2009

Date of issuance: January 17, 2007

Date amended: February 13, 2007



By direction of the Administrator

(Signature)

Manager, Propulsion Branch
Los Angeles 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.

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 the Supplemental Type Certificate Number _____

to *(Name of transferee)* _____

(Address of transfer) _____

(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)*: _____

Supplemental Type Certificate

(Continuation Sheet)

Number ST01943LA

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 Advanced Jet Nozzles installed on DC-9-80 series aircraft, JET-TR-405.
- Supplemental Structural Repair Manual to the McDonnell Douglas DC-9-80 series aircraft, Structural Repair Manual, JET-TR-205.
- Maintenance Program Supplement to the JET Engineering Supplemental Maintenance Manual, JET-TR-305.
- Supplemental Structural Inspection Requirements for the JET Engineering Jet Nozzles, installed on DC-9-80 series aircraft, JET-TR-801.
- The JET Engineering Weight and Balance Manual Supplement, Report No. JET-TR-505.

Limitations and Conditions Continued:

Airplane Flight Manual Supplements

The FAA approved JET Engineering Airplane Flight Manual Supplement, Document No. 200-495, dated December 28, 2006, or later FAA approved revision.

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.

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