

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

*Number* SA09039SC

*This Certificate issued to* Delta Turbines, Inc.  
3104 S. 28th Place Apt 3  
Rogers, AR 72758

*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 23 of the Federal Aviation Regulations.*

*Original Product Type Certificate Number :* A47EU  
*Make :* PZL MIELEC  
*Model :* M18, M18A, M18B

*Description of Type Design Change:*

Installation of the AlliedSignal TPE331-10U engine with the Hartzell Model HC-B4TN-5NL/LT10890N propeller, or the installation of the AlliedSignal TPE331-10UA engine with either the Hartzell Model HC-B3TN-5/T10282 or HC-B3TN-5U/T10290N propeller; or the installation of either the AlliedSignal TPE331-11U-612G or TPE331-12UA-701G engine with the Hartzell Model HC-B5MP-5BL/LM11692N propeller in accordance with Delta Turbines Drawing List, dated November 11, 2002, or later FAA approved revisions.

*Limitations and Conditions:*

(See continuation sheet 3 of 3)

*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 01, 1993

*Date reissued :* February 26, 2007

*Date of issuance :* December 19, 1995

*Date amended :* 8/6/97; 7/15/99; 12/30/02



*By direction of the Administrator*

\_\_\_\_\_  
(Signature)  
S. Frances Cox, Manager  
Special Certification Office,  
Southwest Region

\_\_\_\_\_  
(Title)

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

United States Of America  
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(Continuation Sheet)

*Number* SA09039SC

Date of Issuance: December 19, 1995

Date Amended: December 30, 2002

Reissuance Date: February 26, 2007

*Limitations and Conditions* (Continued):

The installer must determine whether this design change is compatible with previously approved modifications. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

1. With either the TPE331-10UA or TPE331-10U engine, Airplane Flight Manual Supplement (AFMS) dated 12/6/1995, or AFMS dated 6/25/1997, or later FAA approved revision is required.
2. With the TPE331-11U-612G or TPE331-12UA-701G engines, AFMS dated 6/10/1999, or later FAA approved revision is required.
3. Propeller shaft power is limited to 840 horsepower or 2206 foot-pounds of torque for the TPE331-10UA engine.
4. Propeller shaft power is limited to 900 horsepower or 2972 foot-pounds of torque for the TPE331-10U engine.
5. Propeller shaft power is limited to 1000 horsepower or 3301 foot-pounds of torque for the TPE331-11U-612G or TPE331-12UA-701G engines.
6. With the spray bars installed, the gross weight limit is 9,260 pounds.
7. With the spreader installed, the gross weight limit is 8,800 pounds.
8. STC Number SA09063SC, the installation of geared tabs on ailerons, elevator, and vertical tail is required.
9. The airplane altitude ceiling is limited to 8,000 feet above sea level.
10. Flight into visible moisture below an air temperature of 40°F or 5°C is prohibited.
11. The Hartzell Model HC-B5MP-5BL/LM11692N propeller diameter limits are 118.7 to 118.2 inches.
12. The Hartzell Model HC-B4TN-5NL/LT1089N propeller diameter limits are 109.5 to 107.5 inches.

END