United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA1787NM

This certificate, issued to Aero Air, Inc.

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 3 *of the* Civil Air *Regulations.*

Original Product—Type Certificate Number: A8EA

Make: Piper

Model: PA-31T, PA-31T1

Description of Type Design Change: Installation of two Hartzell HC-B3TN-3B/T10178B-10Q propellers on Piper Model PA-31T and PA-31T1 airplanes equipped with Pratt and Whitney of Canada Ltd. PT6A-28 and PT6A-11 engines respectively in accordance with a FAA sealed copy of Aero Air, Inc. Installation Instructions Number AA31 dated February 6, 1986, or later FAA approved revision.

Limitations and Conditions: Approval of this change in type design applies to basic Model PA-31T and PA-31T1 airplanes only. This approval should not be extended to other airplanes of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the modifications will introduce no adverse effect on the airworthiness of that aircraft. Airplanes equipped with this modification must be operated in accordance with FAA Approved Airplane Flight Manual/Pilot's Operating Handbook Supplement dated February 6, 1986, or later FAA approved revision, a copy of which must be carried in the modified airplane at all times.

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, 1982

Date reissued:

Date of issuance: February 23, 1983

Date amended: February 6, 1986

By direction of the Administrator

(Signature)

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.

FAA Form 8110-2 (10-68)

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Supplemental Type Certificate

(Continuation Sheet)

Number SA1787NM

Limitations and Conditions (continued)

NOISE LEVEL

The corrected noise level of the PA-31T is 76.4 db(a) with these propellers. Noise testing for the PA-31T1 was not required due to similarity with the PA-31T aircraft.

No determination has been made by the Federal Aviation Administration that the noise levels of this airplane are or should be acceptable or unacceptable for operation at, into, or out of, any airport.

The above statement notwithstanding, the noise level stated above has been verified by and approved by the Federal Aviation Administration in noise level test flights conducted in accordance with FAR 36, noise standards - Aircraft Type and Airworthiness Certification. This aircraft model is in compliance with all FAR 36 noise standards applicable to this type.

- END -

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