United States of America

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

Number **SA00148SE**

This certificate, issued to **AERONAUTICAL TESTING SERVICE, 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 21 of the Federal Aviation Regulation, and CAM 8 of the Civil Air Regulations.

Original Product—Type Certificate Number: A10SO

Make: Piper

Model: PA-36-285, PA-36-300, and PA-36-375

Description of the Type Design Change: Installation of vortex generators on the wing in accordance with an FAA approved copy of Aeronautical Testing Service, Inc. Drawing List No. ATS-PA36, revision "A", dated October 27, 1994, or later FAA approved revision.

NOTE: Two modification options are provided. These may include changes to the airplane stall speeds. For specific information regarding each option, including Airplane Flight Manual Supplements(AFMS) information regarding each option, please refer to Continuation Sheet (page 3 of 3).

Limitations and Conditions: Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined by the installer that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. (See Continuation Sheet page 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: September 21, 1994

Date of issuance: November 18, 1994

Date reissued:

Date amended:

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.

FAA FORM 8110-2(10-68)

Supplemental Type Certificate
(Continuation Sheet)

Number **SA00148SE**

Description of Type Design Change (continued):

Description of Modification Options: Each of these options incorporate the vortex generator kit.

Option 1: PA-36-375; no change in air speeds, airspeed indicator markings or placards; AFMS not required.
Option 2: PA-36-285 and PA-36-300: reduced stall speeds; changes required for airspeed indicator markings; AFMS required.

Limitations and Conditions continued:

Airplane Flight Manual Supplements (AFMS)

Aircraft modified per this STC must be operated in accordance with the following Aeronautical Testing Service, Inc. (ATS) AFMS, or later FAA approved revisions.

Option 1: AFMS not required.
Option 2: ATS AFMS Report No. ATS 94-19b (PA-36-300) or AFMS Report No. ATS 94-19c (PA-36-285), each dated November 18, 1994.

Records: The following must be maintained as part of the permanent records for the modified aircraft:

Option 1: A copy of this Certificate.
Option 2: A copy of this Certificate and the appropriate FAA approved AFMS.

Other Limitations: All Options:

The ATS modification consists of seventy-two (72) vortex generators mounted on the wings. If more than four (4) vortex generators are missing or damaged, the aircraft must be flown in accordance with the original markings, placards, and manual. If more than six (6) vortex generators are missing or damaged, the aircraft is not airworthy and must be repaired before flight.

Refer to the appropriate AFMS for specified airspeed indicator markings for Option 2.

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