

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

Number **ST00049SE**

This certificate, issued to:

**Aeronautical Testing Service, Inc.
18820 59th Drive NE.
Arlington, WA 98223**

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations.

Original Product—Type Certificate Number: 3A10
Make: Cessna
Model: 310, 310A, 310B, 310C, 310D, 310E, 310F

Description of the Type Design Change: Installation of vortex generators on the wings and vertical stabilizers of these aircraft in accordance with an FAA approved copy of Aeronautical Testing Service, Inc. Drawing List No. ATS-310-F, Revision A, dated May 14, 1999, or later FAA approved revisions. NOTE: Two modification options are provided. Option 2 includes changes to the airplane stall and minimum control speeds. For specific information regarding each option, including Supplemental Airplane Flight Manual (SAFM) requirements, please refer to Continuation Sheet (page 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.

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 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: March 26, 1993 *Date reissued:*
Date of issuance: December 22, 1993 *Date amended:* 1/12/94; 5/26/94; 10/26/00



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.

Supplemental Type Certificate

(Continuation Sheet)

Number **ST00049SE**

Aeronautical Testing Service, Inc.

Issued: December 22, 1993

Reissued:

Amended: 1/12/94; 5/26/94; 10/26/00

Description of the Type Design Change continued:

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

- Option 1: All models; no change in airspeeds, airspeed indicator markings or placards; SAFM not required.
- Option 2: All models; reduced VMCA and stall speeds, changes required for airspeed indicator markings and placards; SAFM required.

Limitations and Conditions continued:

Limitations: The following aircraft limitations apply to the various options:

Option 1: No change.

Option 2: Reduced VMCA and stall speeds.

Supplemental Airplane Flight Manual (SAFM): Aircraft modified per this STC must be operated in accordance with the following Aeronautical Testing Service, Inc. (ATS) SAFM, or later FAA approved revisions:

Option 1: SAFM not required.

Option 2: Revisions "A" of ATS SAFM Report No. 93-13a (310), ATS 93-13b (310A), ATS 93-13c (310B), ATS 93-17a (310C), ATS 93-17b (310 and 310F) and ATS 93-17c (31 OE), each revised May 26, 1994.

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

Option 1: A copy of the Certificate

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

Other Limitations: All Options:

The ATS modification consists of either ninety (90 - Models 310, 310A, 310B, 310C), or seventy-six (76 - Models 3100, 310E, 310F) vortex generators mounted on the wings and vertical tail. If more than four vortex generators are missing or damaged, the aircraft must be flown in accordance with the original markings, placards and manual. If more than six vortex generators are missing or damaged the aircraft is not airworthy and must be repaired before flight.

Refer to the appropriate SAFM for specified Operating Limits placard language and airspeed indicator markings for Option 2.

- END -

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