

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

Number SA4172NM

This certificate, issued to Aviation Development Corporation

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 23 of the Federal Air Regulations, dated February 1, 1965 and Amendments 23-1 through 8.

Aircraft Model
Registration No.
Serial No.

THIS S.T.C. LIMITED TO
LANCAIR 320
N 31161
585-320-332 FB

Original Product — Type Certificate Number: *
Make: *
Model: *
*See attached Approved Model List (AML) No. SA4172NM for list of approved aircraft models and applicable regulations.

Description of Type Design Change: Installation of Oberg 600 Series oil filter in accordance with Aviation Development Corporation Drawing List as shown on the attached Approved Model List.

Limitations and Conditions: Approval of this change in type design applies to the listed models of aircraft only. This approval should not be extended to aircraft of this model on which other previously approved modifications are incorporated unless it is determined 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. A copy of this Certificate, Approved Model List (AML) No. SA4172NM, and FAA Approved Flight Manual Supplements must be maintained as part of the permanent records for the modified aircraft.

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: June 2, 1987

Date issued:

Date of issuance: February 9, 1988

Date amended: May 17, 1988; July 8, 1988;
August 18, 1988; February 24, 1989;

By direction of: September 15, 1989



D. L. Riegan
(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.

Aviation Development Corp.
1305 NW 200th
Seattle, WA 98177

REPORT FM 005 SUPPLEMENTAL FLIGHT INFORMATION FOR

GRUMMAN AA1, AA1-A, AA1-B and AA1-C and LANCAIR 320

AIRCRAFT EQUIPPED WITH AN OBERG 600 SERIES OIL FILTER.

Reg. No. N31161, Ser. No. 585-320-332 FB

This document contains the material required to be furnished to the pilot by the certification basis of the airplane described in Type Certificate Data Sheet (TCDS).

This document serves as an Aircraft Flight Manual Supplement/Pilot Operating Handbook Supplement or as a Supplemental Flight Manual for placard aircraft, see TCDS for the document required for each aircraft. It must be carried in the aircraft at all times and, if POH or AFM is required, it must be included in that document.

The information contained herein applies when an Oberg 600 series oil filter is installed per STC SA4172NM. This information supplements or supersedes previously provided information only in those areas covered. For items not covered in this manual, refer to basic aircraft placards and or manuals.

I. LIMITATIONS- No change.

II. NORMAL PROCEDURE- No change.

III. EMERGENCY PROCEDURE- Oil filter caution light (amber) is on :

Oil filter is blocked; engine receives
unfiltered oil at normal flow rate;
Continue flight to intended destination;
Service filter before next flight.

IV. PERFORMANCE- No change.

V. HANDLING, SERVICE AND MAINTENANCE

AT 50 HOUR INTERVALS:

Clean and inspect filter element and seals. To remove screen, remove jam nuts and 4 nuts. Remove top of filter, remove screen and clean with commercial solvent and compressed air. Re-install screen and filter top, torque nuts to 120 in.lbs., install jam nuts. Start engine, bring to operating temperature, shut down engine and check for oil leaks.

When inspecting oil screen and outer oil screen seal appears to be hard or delaminating away from screen material, or if seal is damaged in any way, screen must be replaced.

CAUTION:

To prevent oil filter from leaking, screen seal must be seated squarely in filter groove so it cannot be pinched when tightening nuts. Use bushing in center of filter bottom (if filter is so equipped) to locate screen.

AT 500 HOUR INTERVALS:

Replace O-rings and seals on filter and adaptor.

FAA approved: D. L. Rizzo

Assistant Manager Seattle Aircraft
Certification Office

Date; August 18-1988

Revised: November 15-1988