United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SE3361NM

This certificate, issued to Ron and John's Comanche Service

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 13 *of the* Civil Air *Regulations*, dated June 15, 1956 as Amended by 13-1, 13-2 and 13-3.

Original Product — Type Certificate Number: 1E4-11

Make: AVCO Lycoming

Model: IO-540-D4A5, -N1A5, and -R1A5

Description of Type Design Change:

Installation of a vacuum pump on the hydraulic pump pad per Ron and John's Comanche Service Instructions, dated April 2, 1986.

Limitations and Conditions: Approval of this change in type design applies to the above model 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 must be maintained as part of the permanent records for the modified engine.

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 January 16, 1986

Date of issuance April 15, 1986

Date reissued

Date amended

By direction of the Administrator

William B Ashworth

(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