United States of America

Department of Transportation—Federal Aviation Administration

# Supplemental Type Certificate

*Number* SA2051NM

*This certificate, issued to* ARNAV Systems 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* 23 *of the* Civil Aviation *Regulations.*

*Original Product—Type Certificate Number:* 1A10

*Make:* Piper

*Model:* PA-23
Series - basic, -160, -235, -250

*Description of Type Design Change:*

Installation of a ARNAV Systems AVA-1000 Loran C Navigation System in accordance with the attached FAA sealed drawings ARNAV numbers 2003, 2004, 2005, 2019, 3001, and 453-0089 Rev. B, and 2020.

*Limitations and Conditions:* This change in type design applies to Piper Model PA-23 Series - basic, -160, -235, and -250 aircraft. This type design change should not be extended to other specific models of these airplanes on which previously approved modifications are incorporated, unless it is determined that the interrelationships between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that airplane. A copy of this certificate and the FAA Approved Flight Manual Supplement must be kept in the permanent records of 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:* November 19, 1982

*Date reissued:*

*Date of issuance:* March 9, 1983

*Date amended:* June 24, 1983

*By direction of the Administrator*

(Signature)

Manager, Seattle Aircraft
Certification Office, ANM-100S

(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)