

**STC SA00146SE**  
**Apollo 360 GPS**

STC SA00146SE is a multiple STC for installation of the II Morrow Apollo 360 GPS in Partenavia P-68 series aircraft. This STC is acceptable data for similar installations of the Apollo 360 GPS. The data provided with the Apollo 360 GPS and this STC should be adequate for an installation in nearly any general aviation aircraft.

This STC, and the data associated with it, may be used with this written permission of II Morrow Inc. by II Morrow Inc. dealers, installers, and customers for the sole and express purpose of installation and approval of installation of II Morrow Apollo 360 GPS units only.

This STC is provided along with current FAA approved revisions of II Morrow documents *Apollo 360 GPS Unit Configuration Matrix*, P/N 560-0159-xx, and *Apollo 360 GPS Partenavia P68 VFR STC Master Drawing List*, P/N 560-0160-xx.

FAA AC 20-138, *Airworthiness Approval of Global Positioning System (GPS) Navigation Equipment for Use as a VFR and IFR Supplemental Navigation System*, (or later FAA guidelines) should be used as guidance for follow on installations.

A VFR limitation placard stating “GPS Limited to VFR Use Only” must be installed next to the Apollo 360.

Note: A flight manual supplement is not generally required for installations limited to VFR. Refer to AC 20-138, paragraph 9.a. An example of an Aircraft Flight Manual supplement may be found in AC 20-138, Appendix 2.

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Apollo 360 GPS

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

*Number* SA00146SE

*This certificate, issued to* II Morrow, Inc.  
2345 Turner Road S.E.  
Salem, Oregon 97302

*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 Federal Aviation Regulations.*

*Original Product — Type Certificate Number:* A31EU  
*Make:* Partenavia  
*Model:* P68 Series

*Description of Type Design Change:* Installation of II Morrow Apollo 360 round GPS receiver (P/N 430-0256[-00 or later]) per II Morrow Apollo 360 GPS Partenavia P68 VFR STC Master Drawing List part number 560-0160-00 dated October 13, 1994, Rev- or later, FAA-approved version. A copy of this Certificate must be maintained as part of the permanent records for the modified aircraft.

*Limitations and Conditions:* This Approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and other previously approved modifications will introduce no adverse effect upon the airworthiness of the 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 14, 1994

*Date issued:*

*Date of issuance:* NOV 15 1994

*Date amended:*



*By direction of the Administrator*

*Clair R. Harris*  
\_\_\_\_\_  
(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)

II Morrow Inc.  
2345 Turner Rd SE  
Salem, OR 97302

June 15, 1995  
Part # 560-0916-00a

**STC SA00146SE**  
**Apollo 360 GPS**



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

**Transport Airplane Directorate  
Aircraft Certification Service**

1601 Lind Avenue S.W.  
Renton, Washington 98055-4056

JUN 15 1995

In Reply  
Refer To: 95-130S-623

Mr. Marvin Kumley  
Systems Engineer  
II Morrow Inc.  
P. O. Box 13549  
Salem, Oregon 97309

Dear Mr. Kumley:

We have reviewed the II Morrow Inc. letter dated May 30, 1995, and enclosed substantiation data and concur with your proposed classification of minor change for II Morrow Model 360 Round GPS Receiver, part number 430-0256-00. Therefore, Part Number 560-0159-01, Rev., "Apollo 360 GPS Unit Configuration Matrix", dated May 30, 1995 is approved for use with STC SA00146SE.

Please contact Mr. Peter Skaves of the Systems and Equipment Branch at (206) 227-2795 with any questions on this subject.

Sincerely,

A handwritten signature in black ink, appearing to read "Alvin R. Habbestad".

Alvin R. Habbestad  
Manager, Systems & Equipment Branch,  
Seattle Aircraft Certification Office

II Morrow Inc.  
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