

UPS Aviation Technologies, Inc.
2345 Turner Rd SE
Salem, OR 97302

**Capstone
STC Document**

April 9, 2003
Part #: 560-0243-04 Rev A

UPS Aviation Technologies, Inc.

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Document Number: 560-0243-04
Document Revision: Rev A
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Revision Log

Rev	Date	Description	EN	By	Date
-	11/16/99	Initial release. Word 97 for Windows.	6325	RF	12/6/99
-01	2/4/00	Inclusion of new STC	6400	RF	2/4/00
-02	8/9/00	Updated STC for "later FAA approved"	6607	CWH	8/9/00
-03	12/19/00	Updated STC for Radar-like services	6764	CWH	12/19/00
-04	2/13/02	Updated aircraft type and model list	7224	RF	2/22/02
-04A	4/09/03	Updated STC & aircraft type and model list for MX20 v4.1, GX v3.5, GPS v2.5	7587	MAK	4/09/03

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STC SA02149AK

STC SA02149AK is an STC to cover installation of the Apollo MX20 Multi-Function Display, UAT transceiver, and Apollo GX50/60 GPS Navigator, in accordance with information provided in the UPS Aviation Technologies Capstone STC Master Drawing List, P/N 560-1027-03, dated November 29, 2000, or later FAA approved revisions.

Installation of the Capstone configured MX20 Multi-Function Display and UAT transceiver is limited to aircraft participating in the FAA ADS-B demonstration programs. Transmission of the UAT signal limited to FAA approved demonstration areas.

This STC, and the data associated with it, may be used with this written permission of UPS Aviation Technologies, Inc. by UPS Aviation Technologies dealers, installers, and customers for the sole and express purpose of installation and approval of installation of UPS Aviation Technologies Apollo systems only.

This STC is provided along with FAA approved STC data. The STC data includes an FAA approved Airplane Flight Manual Supplement. The STC includes an approved model list that should be consulted for applicability to each installation. If the installation is covered under the STC, then the approved AFM can be directly used for that installation. The installer should complete page 1 of the AFM (add make/model, registration number and serial number) and include it with the aircraft's existing flight manual.

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

Number SA02149AK

This Certificate issued to UPS Aviation Technologies, Inc.
2345 Turner Road, S.E.
Salem, OR 97309

*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 * of the * Regulations.*

Original Product Type Certificate Number: * * UPS Aviation Model List No. UPS-AT-01, Rev 4, dated March 21, 2003, or later FAA approved revision for list of approved airplane models, Type Certification numbers, and applicable airworthiness regulations.
Make: *
Model: *

Description of Type Design Change: Installation of GX50/60 GPS Navigator, Capstone configured MX20 Multi-Function Display, and UAT transceiver, in accordance with UPS Aviation Technologies Capstone Supplemental Type Certificate Master Drawing List, P/N 560-1027-03, dated March 10, 2003, or later FAA approved revision.

Limitations and Conditions: Compatibility of this design change with previously approved modifications must be determined by the installer. FAA approved Airplane Flight Manual Supplement or Supplemental Airplane Flight Manual, P/N 560-1038-03, Rev A, dated March 21, 2003, or later FAA approved revision, is a required part of this modification. Installations in accordance with this Supplemental Type Certificate are limited to airplanes participating in FAA ADS-B Demonstration programs. Transmission of the UAT signal is limited to FAA approved demonstration areas. For Instructions for Continued Airworthiness, refer to the Capstone System Installation Manual, P/N 560-1024-02.

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.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, reworked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: June 15, 1999

Date received:

Date of issuance: November 16, 1999

Date amended: February 02, 2000; August 2, 2000;
December 19, 2000; March 21, 2003



By direction of the Administrator

Gregory J. Holt
(Signature)

Gregory J. Holt
Manager
Anchorage 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.
FAA Form #119-2 (10-68) Page 1 of 2 This certificate may be transferred in accordance with FAR #1.47.

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of this Supplemental Type Certificate.

The FAA will reissue the certificate in the name of the transferee and forward it to him.

TRANSFER ENDORSEMENT

Transfer the ownership of Supplemental Type Certificate Number _____

to *(Name of transferee)* _____

(Address of transferee) _____
(Number and street)

(City, State, and ZIP code)

from *(Name of grantor) (Print or type)* _____

(Address of grantor) _____
(Number and street)

(City, State, and ZIP code)

Extent of Authority (if licensing agreement): _____

Date of Transfer: _____

Signature of grantor *(In ink)*: _____

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Approved Model List Number: UPS-AT-01
Revision 4, Issue Date: March 21, 2003

<u>Aircraft Make and Model Designation</u>	<u>Original Type Certificate Number</u>	<u>Certification Basis</u>
Raytheon		
A36	3A15	CAR 3
200 Series	A24CE	FAR 23
1900 Series	A24CE	FAR 23
65-90, 65-90A, B90, C90, C90A	3A20	CAR 3, FAR 23
Britten-Norman		
BN-2 Series	A29EU	FAR23
Cessna		
170 Series	A-799	CAR 03
172, 172A, 172B, 172C, 172D, 172E, 172F, 172G, 172H, 172I, 172K, 172L, 172M, 172N, 172P, 172Q, 172R, 172S	3A12	CAR 3, FAR 23
172RG, P172D, R172E, R172F, R172G, R172H, R172J, R172K	3A17	CAR 3
180 Series	5A6	CAR 3
182 Series	3A13	CAR 3, FAR 23
185 Series	3A24	CAR 3
206 Series	A4CE	CAR 3, FAR 23
207 Series	A16CE	FAR 23
208 Series	A37CE	FAR 23
402 Series	A7CE	CAR 3
404	A25CE	FAR 23
406	A25CE	FAR 23
DeHavilland		
DHC-2 Series	A-806	CAR 3
DHC-6 Series	A9EA	CAR 3
Fairchild		
SA227-AT, SA227-TT	A5SW	CAR 3
SA227-AC, SA227-BC, SA227-PC	A8SW	FAR 23
SA227-CC, SA227-DC	A18SW	FAR 23

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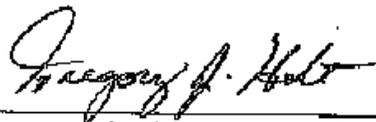
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Approved Model List Number: UPS-
Revision 4, Issue Date: March 21,

<u>Aircraft Make and Model Designation</u>	<u>Original Type Certificate Number</u>	<u>Certification Basis</u>
Piper		
PA-28 Series	2A13	CAR 3
PA-31, PA-31-300, PA-31- 325, PA-31-350	A20SO	CAR 3
Piper (Continued)		
PA-31P, PA-31T, PA-31T1, PA-31T2, PA-31T3, PA-31P- 350	A8EA	CAR 3
PA-32 Series	A3SO	CAR 3
PA-34 Series	A7SO	CAR 3
Partenavia		
P 68C	A31EU	FAR 23
Short Brothers		
SC-7	A15EU	FAR 23
Sky International Inc. (Aviat)		
A-1	A22NM	FAR 23
A-1A	A22NM	FAR 23
A-1B	A22NM	FAR 23

FAA APPROVED:



Manager, Anchorage Aircraft Certification Office
Federal Aviation Administration
Anchorage, Alaska