

United States of America
Department of Transportation -- Federal Aviation Administration

Supplemental Type Certificate

Number SA02674AT

This certificate issued to Power Flow Systems, Inc.
1585 Aviation Center Parkway
Hangar 804
Daytona Beach, FL 32114

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: A13CE
Make: Cessna
Model: 177, A, B

Description of Type Design Change:

Modification of engine exhaust system for improved engine performance by installation of Power Flow Systems, Inc. Tuned Exhaust System per Master Drawing List, PFS-13740-00, Revision, IR, dated: 06/05/03 or Master Drawing List, PFS-13741-00, Revision, IR, dated: 11/26/03 and Installation Instructions Report, PFS-13750-00, Revision A, dated: 08/30/02 or Installation Instructions contained in Report PFS-13751-00, Revision, IR, dated: 11/26/03 or later FAA approved revision.

Limitations and Conditions: Airplane Flight Manual Supplement is not part of this STC. Instructions for Continued Airworthiness contained in Report, PFS-13760, Revision A, dated: 08/03/02 or PFS-13751-00, Revision IR, dated: 11/26/2003, as applicable, or later FAA approved revision is part of this STC. " 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 any other previously approved modifications will produce no adverse effect upon the airworthiness of that airplane. 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, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: June 05, 2003

Date reissued: June 19, 2003

Date of issuance: June 09, 2003

Date amended: December 04, 2003



By direction of the Administrator

Melvin D. Taylor
(Signature)

Melvin D. Taylor
Manager
Atlanta 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.

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This certificate may be transferred in accordance with FAR 21.47.



US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Cessna	Model 177
	Serial No. 17700512	Nationality and Registration Mark N3212T
2. Owner	Name (As shown on registration certificate) Charles H Mount Jr.	Address (As shown on registration certificate) 1621 Hampton Place Orange Park Fl. 32003-7264

3. For FAA Use Only

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in Item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address Bryan M Wood Southeast Aero Services Inc. 385 Hawkeye View Lane St Augustine Fl. 32095	B. Kind of Agency ☒ U.S. Certificated Mechanic ☐ Foreign Certificated Mechanic ☐ Certificated Repair Station ☐ Manufacturer	C. Certificate No. 254396757
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D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 2-23-07	Signature of Authorized Individual
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7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED					
BY	FAA Flt. Standards Inspector	Manufacturer	☒	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 2-23-07		Certificate or Designation No. 254396757	Signature of Authorized Individual 		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

B. Description of Work Accomplished

Installed Power Flow Systems Inc. Extractor Exhaust System STC# SA02674AT in accordance with manufacturers install document# PFS-13751-00. STC, Approved Model List, Instructions for Continued Airworthiness and Weight & Balance Revision entered into Aircraft Permanent Records.

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