



US Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020
2/29/2011

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 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. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N455MA USA	Serial No. 3257205	
	Make PIPER AIRCRAFT	Model PA32R-301	Series PA32
2. Owner	Name (As shown on registration certificate) PENSION ADVISORY GROUP, INC	Address (As shown on registration certificate) Address 4990 HWY 35N	
		City ROCKPORT	State TX
		Zip 78381	Country USA

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency		C. Certificate No. U7TR491Y
Name	CUTTER AVIATION SAN ANTONIO, INC.	<input type="checkbox"/> U. S. Certificated Mechanic	<input type="checkbox"/> Manufacturer	
Address	367 SANDAU ROAD	<input type="checkbox"/> Foreign Certificated Mechanic		
City	SAN ANTONIO State TEXAS	<input checked="" type="checkbox"/> Certificated Repair Station		
Zip	78216 Country USA	<input type="checkbox"/> Certificated Maintenance Organization		

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 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.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual DANA C. O'BANION <i>Dana C. O'Banion 6/10/2011</i>
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7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is Approved Rejected

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee <input checked="" type="checkbox"/>	Repair Station	Inspection Authorization	Other (Specify)

Certificate or Designation No. U7TR491Y	Signature/Date of Authorized Individual DANA C. O'BANION <i>Dana C. O'Banion 6/10/2011</i>
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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

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

USA N455MA

6-10-2011

Nationality and Registration Mark

Date

INSTALLED MICRO AERODYNAMICS INC. MICRO VORTEX GENERATOR KIT STC# SA01266SE I/AW MICRO AERODYNAMICS DOCUMENT MA2189 REV B DATED 10-26-2009. NO WEIGHT AND BALANCE CHANGE OR POH SUPPLEMENTS ARE REQUIRED.

NOTHING FOLLOWS

Additional Sheets Are Attached



(800) 677-2370
4000 Airport Road, Suite D
Anacortes, Washington 98221
(360) 293-8082 Fax (360) 293-5499
<http://www.microaero.com>
micro@microaero.com

Instructions for Continued Airworthiness

MICRO VORTEX GENERATORS (VGs)

Introduction

- A. PURPOSE: This document is intended to satisfy the requirements of FAA Order 8110.54 Instructions for Continued Airworthiness for Micro Vortex Generator Installations.
- B. UPDATES: Distribution of document updates will be sent to authorized STC holders. Requests for document revisions can also be made available by contacting Micro AeroDynamics, Inc.
- C. FUNCTION: Micro Vortex Generators (VGs) control airflow over the wings and tail by creating vortices that energize the boundary layer and postpone airflow separation. This results in improved performance and control authority at low airspeeds and higher angles of attack.

Airworthiness Limitations

The Airworthiness Limitations section is FAA approved and specifies maintenance required under Parts 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

The Micro Vortex Generators should be examined prior to each flight, during the pre-flight inspection to determine if any are missing or damaged. Contact Micro AeroDynamics for guidance (if needed) to discern the difference between a cosmetically or functionally damaged VG. Damaged VG may be removed by tapping a blade positioned under the base of the part being careful not to damage the aircraft skin.

As stated on the face of the STC and on the VG Operating Placard #MA8001 which must be installed in an easily seen location in the cockpit "If more than 5 VGs are damaged or missing, the aircraft is not airworthy." The 5 VGs missing requirement is regardless of their position on the aircraft. To make it airworthy, the missing VGs in excess of five need to be replaced by the installation of a new (replacement) part with Loctite Depend 330 Adhesive. Instructions for replacing missing VGs are included in the original kit and in the Micro VG Spares kit available from Micro AeroDynamics.

Scheduled Maintenance

- A. INSPECTION INTERVAL: The Micro Vortex Generator modification does not change the due dates, or times of scheduled inspection for the aircraft.
- B. INSPECTION: During each scheduled inspection, check for missing or damaged VGs. Contact Micro AeroDynamics for guidance (if needed) to discern the difference between a cosmetically or functionally damaged VG.
- C. REPLACEMENT INTERVAL: None. Missing or damaged VGs in excess of five need to be replaced by the installation of a new (replacement) part. Installation is accomplished with Loctite Depend 330 Adhesive. Instructions for replacing missing vortex generators, including positioning, are provided with the new (replacement) parts.

MICRO AERODYNAMICS DOCUMENT MA0666



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		City ROCKPORT State TX	Zip 78381 Country USA

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name CUTTER AVIATION SAN ANTONIO, INC.	Address 367 SANDAU ROAD City SAN ANTONIO State TEXAS Zip 78216 Country USA	<input type="checkbox"/> U. S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
		<input checked="" type="checkbox"/> Certificated Repair Station	U7TR491Y
		<input type="checkbox"/> Certificated Maintenance Organization	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 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.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual DANA C. O'BANION <i>Dana C O'Banion 6-10-2011</i>
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7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is Approved Rejected

BY	FAA Fil. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee <input checked="" type="checkbox"/>	Repair Station	Inspection Authorization	Other (Specify)

Certificate or Designation No. U7TR491Y	Signature/Date of Authorized Individual DANA C. O'BANION <i>Dana C O'Banion 6-10-2011</i>
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NOTICE

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8. Description of Work Accomplished
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

USA N455MA

6-10-2011

Nationality and Registration Mark

Date

38. INSTALLED PRECISE FLIGHT SPEED BRAKE KIT IAW PRECISE FLIGHT, INC. STC NUMBER SA00762SE USING PRECISE FLIGHT'S INSTALLATION REPORT NUMBER 08067. RH SPEED BRAKE PN 010S0059-53, SN 986209 AND LH SPEED BRAKE PN 010S0059-54 SN 986210, ALC PN 010S0302-1 SN ALC2386, ANNU/SWITCH PN EL02596. THE EQUIPMENT LIST AND WEIGHT AND BALANCE INFORMATION WERE REVISED TO REFLECT THIS ALTERATION.

NOTHING FOLLOWS

Additional Sheets Are Attached

Supplemental Type Certificate

Number SA00762SE

This certificate, issued to

Precise Flight, Inc.
63354 Powell Butte Road
Bend, OR 97701

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 * of the * Regulations.

Original Product—Type Certificate Number:

Make:

Model:

*See attached FAA Approved Model List (AML) No. SA00762SE for list of approved airplane models and applicable airworthiness regulations

Description of the Type Design Change: Installation of Precise Flight, Inc. Speedbrake 2000 System in accordance with the appropriate Precise Flight, Inc. Engineering Drawing listed on FAA AML No. SA00762SE, dated December 17, 1999, or later FAA approved revision.

Limitations and Conditions: Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined by the installer 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, AML No. SA00762SE, and the appropriate FAA approved Airplane Flight Manual Supplement (AFMS) listed on AML No. SA00762SE must be maintained as part of the permanent records for the modified aircraft.

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: October 5, 1999

Date reissued:

Date of issuance: December 17, 1999

Date amended: November 7, 2003



By direction of the Administrator

Charles J. ...
(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.