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US Department
of Transportation
Federal Aviation Administration
Administration

OMB No. 2120-0020 Exp. 02/28/2023	Electronic Tracking Number	
	For FAA Use Only	
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MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance) 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)) Nationality and Registration Mark 1. Aircraft Model Cessna Name (As shown on registration certificate) Address (As shown on registration certificate) ASBERRY, GREGG PO BOX 612 2. Owner State ARKANSAS CAVE CITY 72521-0612 Country UNITED STATES 3. For FAA Use Only 5. Unit Identification 4. Type Repair Alteration Unit Make Model Serial No 18263209 Cessna (As described in Item 1 above) AIRFRAME  $\times$ POWERPLAN1 **PROPELLER** Гуре **APPLIANCE** Manufacturer 6. Conformity Statement B. Kind of Agency A. Agency's Name and Address Logan Cole Graham U. S. Certificated Mechanic Foreign Certificated Mechanic C. Certificate No State MS Certificated Repair Station Country UNITED STATES 39046 Certificated Maintenance Organization 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 Signature/Date of Authorized Individual Extended range fuel per 14 CFR Part 43 ogen Col Grohom 7 JUL 2025 App. B 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 FAA Flt. Standards Persons Approved by Canadian Manufacturer Maintenance Organization Department of Transport Inspector BY Other (Specify) FAA Designee Inspection Authorization Repair Station Signature/Date of Authorized Individual logon Col Grobon 7 JUL 2025 Logan Cole Graham

FAA Form 337 (10/06)

#### 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.

Description of Work Accomplished     (If more space is required, attach additional sheets. Identify with aircraft nation	nality and registration mark and da	ite work completed.).
	TACHOMETER T	ME - 2448.1
	N7431N  Nationality and Registration Mark	7 - 7 - 2025 Date
Installation of vortex generators on the wings a	, ,	
provisions of AML SA00834SE and STC#SA008		cordance with the
Instructions for Continued Airworthiness of Micro on VG Operating Placard #MA8001 which must be cockpit. This placard states: "if more than 5 VGs airworthy." To make it airworthy, the missing V The VGs should be examined prior to each flidetermine if any are missing or damaged. Missing to be replaced by the installation of a new (replaced with Loctite AA 330 Adhesive. No other maintenation.)	e installed in an easily s are damaged or missing Gs in excess of five ne ght, during the pre-fling or damaged VGs in e cement) part. Installation	seen location in the g, the aircraft is not ed to be replaced. ght inspection, to excess of five need on is accomplished
Negligible weigh	t change	
END		<u> </u>
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	and And Albertand	
FAA Form 337 (10-06)	ets Are Attached	PART CONTROL C

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#### Authorization for the use of Supplemental Type Certificate

Micro AeroDynamics, Inc is the owner of the following STC and hereby authorizes the use of this STC on the following aircraft:

STC Number:

SA00834SE

Make:

Cessna

Model:

182P

Registration Number:

N7431N

Serial Number:

18263209

Signed: K Futscher

Date of Authorization:

May 9, 2025

Authorization Reference:

44137

Micro AeroDynamics, Inc.

Micro AeroDynamics, Inc. 4000 Airport Rd. Suite D Anacortes, WA 98221 360-293-8082 800-677-2370 360-293-5499 Fax

#### United States of America

Department of Transportation—Federal Aviation Administration

### Supplemental Type Certificate

Number SA00834SE

This certificate, issued to

Micro AeroDynamics, Inc. 4000 Airport Road, Suite D Anacortes, WA 98221

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:

\*See attached FAA Approved Model List (AML)

mane:

No. SA00834SE for a list of approved airplane models and applicable airworthiness regulations.

Description of the Type Design Change: Installation of vortex generators on the wings and tail surfaces in accordance with the provisions of AML SA00834SE.

NOTE: If more than five vortex generators are damaged or missing, the aircraft is not airworthy.

Samples and Conditions. Approval of this change in type design applies to the aircraft listed on AML SA00834SE only. This approval should not be extended to other aircraft on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. NOTE: Compatibility of this modification with R/STOL Systems Supplemental Type Certificate SA1382WE has been demonstrated by flight testing. A copy of this Certificate and AML 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:

June 8, 2000

Date reissued:

Date of issuance:

August 11, 2000

Date amended:



Acting Manager, Seattle Aircraft

Certification Office

ection of the Add

(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)

# FAA APPROVED MODEL LIST NO. SA00834SE FOR INSTALLATION OF VORTEX GENERATORS

11, 2000	AML REVISION DATE		3/10/03	3/10/03	3/10/03	3/10/03	3/10/03	3/10/03	3/10/03	3/10/03	3/10/03	3/10/03	3/10/03	3/10/03	3/10/03
ISSUED AUGUST 11, 2000	INSTALLATION INSTRUCTIONS, REVISION AND	DATE	MA2148, REV D 2/7/2003	3/10/03 MA2148, REV D 2/7/2003	MA2148, REV D 2/7/2003	MA2148, REV D 2/7/2003	MA2148, REV D 2/7/2003	MA2148, REV D 2/7/2003	MA2148, REV D 2/7/2003	MA2148, REV D 2/7/2003	MA2148, REV D 2/7/2003	MA2148, REV D 2/7/2003	MA2148, REV D 2/7/2003	MA2148, REV D 2/7/2003	MA2148, REV D 2/7/2003
	SALED NG LIST	REV.	REV B 2/7/2003	REV B 2/7/2003	REV B 2/7/2003	REV B 2/7/2003	REV B 2/7/2003	REV B 2/7/2003	REV B 2/7/2003	REV B 2/7/2003	REV B 2/7/2003	REV B 2/7/2003	REV B 2/7/2003	REV B 2/7/2003	REV B 2/7/2003
	FAA SEALED DRAWING LIST	NUMBER	MA2138	MA2138	MA2138	MA2138	MA2138	MA2138	MA2138	MA2138	MA2138	MA2138	MA2138	MA2138	MA2138
	CERTIFICATION BASIS FOR	ALTERATION	CAR 3	CAR3	CAR 3	CAR 3	CAR 3	CAR 3	FAR 21.29	CAR 3					
	TYPE CERTIFICATE NIMBER		3A17	3A17	3A17	3A17	3A17	3A17	A18EU	A18EU	A18EU	A18EU	A18EU	A18EU	3A13
	AIRCRAFT MAKE		CESSNA	CESSNA	CESSNA	CESSNA	CESSNA	CESSNA	CESSNA	CESSNA	CESSNA	CESSNA	CESSNA	CESSNA	CESSNA
	AIRCRAFT MODEL		R172E (USAF T-41B, C, & D)	R172F (USAF T-41D)	R172G (USAF T-41C or D)	R172H (USAF T41D)	R172J	R172K	FR172E	FR172F	FR172G	FR172H	FR172J	FR172K	182C
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# FAA APPROVED MODEL LIST NO. SA00834SE FOR INSTALLATION OF VORTEX GENERATORS

ISSUED AUGUST 11, 2000

AML REVISION DATE		3/10/03	3/10/03	3/10/03	3/10/03	3/10/03	3/10/03	3/10/03	3/10/03	3/10/03	3/10/03	3/10/03	3/10/03	3/10/03	3/10/03
INSTALLATION INSTRUCTIONS, REVISION AND	DATE	MA2148, REV D 2/7/2003													
ALED 3 LIST	REV.	REV B 2/7/2003	REV B 2/7/2003	REV B 2/7/2003											
FAA SEALED DRAWING LIST	NUMBER	MA2138													
CERTIFICATION BASIS FOR	ALTERATION	CAR 3													
TYPE CERTIFICATE NI IMBER		3A13													
AIRCRAFT MAKE		CESSNA													
AIRCRAFT MODEL		182D	182E	182F	1826	182H	182J	182K	182L	182M	182N	182P	182Q	R182	TR182
ITEM		14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.

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# FAA APPROVED MODEL LIST NO. SA00834SE FOR INSTALLATION OF VORTEX GENERATORS

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ISSUED AUGUST 11, 2000

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AML	REVISION DATE		3/10/03		3/10/03		3/10/03		3/10/03		3/10/03		3/10/03		3/10/03		3/10/03	
INSTALLATION	INSTRUCTIONS, REVISION AND	DATE	MA2148, REV D	2/7/2003	MA2148, REV D	2/7/2003	MA2148, REV D	2/7/2003										
FAA SEALED	DRAWING LIST	NUMBER REV	REV B	2/7/2003	REV B	2/7/2003	REVB	2/7/2003	REV B	2/7/2003	REV B	2/7/2003	REV B	2/7/2003	REV B	2/7/2003	REVB	2/7/2003
FAAS	DRAWI	NUMBE	MA2138		MA2138	7	MA2138	7	MA2138	A	MA2138		MA2138	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MA2138	*	MA2138	
CERTIFICATION	BASIS FOR	ALTERATION	CAR3		CAR 3		FAR 23		CAR 3		CAR 3		CAR 3	A CONTRACTOR OF THE PROPERTY O	FAR 23		FAR 23	
TYPE	CERTIFICATE NUMBER		3A13		3A13		3A13		A42EU		A42EU		A42EU		3A13		3A13	2
AIRCRAFT	MAKE		CESSNA		CESSNA		CESSNA		CESSNA		CESSNA		CESSNA		CESSNA		CESSNA	
AIRCRAFT	MODEL		182R		T182		182S		F182P		F182Q		FR182		182T		T182T	
ITEM			28.	,	29.		30.		31.	7	32.	,	33.		34.		35.	

Approved Acting Manager, Seattle Aircraft Certification Office