(3)
US Department
of Transportation
Federal Aviation

MAJOR REPAIR AND ALTERATION

Form Approved OMB No. 2120-0020 2/28/2011	Electronic Tracking Number
	For FAA Use Only

of Tran Federa	sportation Sportation Stration	on on	(Air	frame,	Powerplant, Pro	ope	eller, or A	Applia	ınce)				For FAA U	se Only
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		Nationali	-	0.00	ion Mark				Serial No.					
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		Cessna	a						182H					
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BY		Flt. Standa ector	ards	Man	ufacturer	Ма	aintenance	Organi	zation		Person		ed by Canadi	an
	FAA	Designee	V	Rep	air Station	Ins	spection Au	uthoriza	tion	Othe	er (Spec			
ertificate esignation				Signa	ature/Date of Authoriz	ed I	ndividual							
PMR6	34B				7	M in	2-21	6-21						

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.

	N2056X	2/26/2	.1
	Nationality and Registration	on Mark	Date
Removed the following components: AT-150 Installed the following components: GNX375 stalled in accordance with manufacturer's installed in accordance with manufacturer's installed. The GNX375 was installed per STC# SA dicator previously installed. The above mentions stallation manual listed above and was found terference was found between the installed synd balance data was updated to reflect this che electrical system was negligible with this installations for normal continued airworthine sustomer was provided with FAA approved, GN end	5 GPS/Transponder, and GA-35 GPS callation manual; PN: 190-02207-A4, R co2636SE. The GNX375 was interface oned system was ramp checked in accepted to operate within manufacturer's performand the existing systems in the arrange. An electrical load analysis was stallation project.	evision 7, dated to the exist cordance with rmance speciaircraft. Supp done and fou	ted February 1, ting GI-106B Nav manufacturer ifications. No lementary weight and that the load o
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Report: H0801-8

SUPPLEMENTAL TYPE CERTIFICATE SA02821CH

FAA APPROVED AIRPLANE FLIGHT MANUAL SUPPLEMENT FOR

Cessna Aircraft Models 180, 182, 185, 206, 207 & 210 Series Aircraft

Aircraft Model:	CESSNA 182H
Aircraft Serial Number:	1826156
Registration Number:	N2056X

1. General Section

This supplement must be attached to the FAA approved Flight Manual when the airplane is modified by installation of Hartzell Propeller metal propellers (P)HC-()3YF-1RF/F8068(B,K)(-2) or (P)HC-()3YF-1RF/F7693DF(B,K)(+2) constant speed propeller.

The information contained herein supplements or supersedes the basic manual only in those areas listed herein. For limitations, procedures, and performance information not contained in this supplement, consult the FAA approved Airplane Flight Manual.

Date: JUL 0 6 2009

Report: H0801-3 Revision: A Date: 7/6/09

INSTALLATION INSTRUCTIONS SUPPLEMENTAL TYPE CERTIFICATE SA02821CH

CESSNA AIRCRAFT MODELS 180, 182, 185, 206, 207 & 210 SERIES

INSALLATION OF HARTZELL PROPELLERS

(P)HC-()3YF-1RF/F8068(B,K) (P)HC-()3YF-1RF/F7693DF(B,K)

	0	FAA APPROVED
FAA Approved:	11	MAR 2 2010
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Date:		(LA, LAL SEL LY

(2)
US Department
of Transportation
Federal Aviation
Administration

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

Exp: 8/31/2014	
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instruction	s and dispos tion. (49 U.S	sition of this for S.C. §46301(a))	m. This report is re	4 CF equir	R	§43.9, Part 4: by law (49 U.	3 Appendix B, S.C. §44701).	and AC 43.9 Failure to re	9-1 (or su port can r	ubsequent revision thereof) for result in a civil penalty for each
1. Aircraft	N20562	Nationality and Registration Mark N2056X					Serial No. 18256156			
	Make C	ESSNA	1		•		182H		Series 100	
2. Owner	Name (A:		istration certificate)				Address 2291		gistration	certificate)
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					3. 1	For FAA Use	Only			
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4. Ty	pe				5. l	Unit Identifica	ition			
Repair	Alteration	Unit	T	Mak				Model		Serial No.
X AIRFRAME					(As described in Item 1 above)		Contains.			
D POWERPLANT										
PROPELLER								*****		
			Туре	-		100		5		
APPLIANCE Manufacturer										
6. Conformity Statement										
A. Agency's I	Name and Ar	ddress				Kind of Agenc				
	T E. LEE				х		ated Mechanic		Man	nufacturer
Address 206 LARE			State CA.	-			ficated Mechanic		C. Certif	icate No.
Zip 93023		untry USA					laintenance Orga			550856335
nave be	een made in	accordance will	tion made to the ur h the requirements to the best of my k	of P	art	43 of the U.S.	5 above and d Federal Aviation	escribed on ton Regulation	he revers	e or attachments hereto at the information
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Certificate or Designation N	lo. 55085	6335	nature/Date of Auth			_		ı		
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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.

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nation	nality and registration mark and dal	e work completed.)
	N2056X	04/11/2014 .
	Nationality and Registration Mark	Date
Installed Hartzell STC SA02821CH, 3 Blade Propeller Models(P)HC-(3YF-1RF/F7693DF(B,K,)() 3 Blade metal propeller in accordance with H0801-3 Rev.A dated July 6, 2009, or later FAA approved revisions)3YF-1RF/F8068(B,K,)() and on Hartzell Propeller, Inc. Install	or (P)HC-() ation instructions No.
Parts Removed: 2A34C66-NP, SN 733034.		
Parts Installed: PHC-G3YF-1RF, SN NT133B.		
New Empty Weight and Balance: Aircraft weighed and Revised Weigh	nt and Balance Sheet provided.	
Customer furnished with FAA Approved Supplement for Flight Manua	al.	
FOR CONTINUED AIRWORTHINESS: Preform on at lest an Annual basis a periodic inspection of the equipme aircraft structure for integrity, security, wear, chaffing and ect.	ent, equipment mounting, assoc	iated hardware and related
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Additional Sheets	Are Attached	

United States of America

Department of Transportation -- Hederal Abiation Administration

Supplemental Type Certificate

Number SE03309CH

This certificate issued to

Tanis Aircraft Products 2951 100th Court NE Suite 150 Blaine, MN 55449-5126

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 * Begulations.

Original Product Type Certificate Number:

*See attached FAA Approved Model List (AML)

*No. SE03309CH for list of approved engine models and

Model

*applicable airworthiness regulations

Description of Type Design Change

Installation of Tanis Engine Preheat Kit, p/n TSP6CYL-2927-115 for 115-volt application in accordance with Engine Preheat Kit drawing 02927-115, Revision E, dated April 12, 2019 and Tanis Instruction - Preheat Kit Installation, TNP2927 Rev. G, dated April 12, 2019 or later FAA approved revisions. or

Installation of Tanis Engine Preheat Kit, p/n TSP6CYL-2927-230 for 230-volt application in accordance with Engine Preheat Kit, drawing 02927-230, Revision E, dated April 12, 2019 and Tanis Instruction - Preheat Kit Installation, TNP2927 Rev. G, dated April 12, 2019 or later FAA approved revisions.

Limitations and Conditions:

- 1. Compatibility of this design change with previous modifications must be determined by the installer.
- 2. FAA accepted, Instructions for Continued Airworthiness (ICA), TCA1000, Revision A, dated December 11, 2017, and Operating Guide TPG1000, Rev. C, dated February 6, 2014 or later FAA accepted revisions are required.
- 3. A copy of this certificate must be maintained as part of the permanent records for the modified engine.
- 4. 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 offect until surrendered. suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Late of application: August 08, 2013

Date reissued: May 13, 2015

Sale of issuance:

Date amended: June 10, 2019

March 18, 2014

By direction of the Administrator

Roy E. Boffo

Manager, Propulsion and Program Management Section Chicago ACO Branch

(Title)

(Signature)





Date: Nov. 8, 2019

This letter serves as an official authorization that Tanis Aircraft Products allows the single installation of the preheat system part number: TSP6CYL-2927- 115, serial number: 54764 per STC AML SE03309CH on one applicable engine.

This letter is also for refrence to:

- TCCA acceptance of FAA-STC

- EASA-STC: 10054433

Retain a copy of this authorization for your records.

For any questions please contact Tanis Aircraft Products.

Regards,

Douglas J. Evink President & CEO

You can obtain an optional copy of the STC cover letter and AML on our Website: http://www.tanisaircraft.com/piston-preheat/tsp6cyl-2927-115.html or on the the FAA RGL website:

 $http://rgl.faa.gov/Regulatory_and_Guidance_Library/rgstc.nsf/0/AC8C1243653814E186257CB4004EE213? OpenDocument \& Highlight=tanis Action (Control of the Control of the Con$

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

Form Approved OMB No. 2120-0020 11/30/2007	Electronic Tracking Number
	For FAA Usp Only

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A. Agency's Name and Address Name NorthPoint Aviation													nufacturar					
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