

# ENGINE LOG BOOK



Publication ELB-01 NOV 2013

## Service Information

Consult the Continental Motors web site at continentalmotors.aero for engine related news or announcements. Continental Motors Internet Service contains useful information for Continental Motors engine owners, including electronic versions of the most current engine Instructions for Continued Airworthiness and service documents that may be pertinent to your engine model.

If Internet access is not available, contact our Customer Service Department at: 1-888-826-5465 Toll Free in the United States or 1-251-436-8299

# **Engine Returns**

Return engines for core credit with this log book to:
Continental Motors, Inc.
2039 Broad Street
Mobile, AL 36615 USA

Serial No. G4B004	<del></del>	
Type Certificate EXPERIMENTAL		
This engine is curren∯y installed in aird	craft:	
Max RPM <u>2700 rpm</u>		
H.P. <u>174</u>		
Compression Ratio <u>8.0:1</u>		
Fuel Grade <u>100/100LL</u>		
Oil Grade <u>Meets SAE J1899 or Mil-L-2</u>	<u> 2851</u>	
Firing Order <u>1-3-2-4</u>		
Recommended T.B.O. 2,000 Hr	Assembly Date <u> 05/04/2018</u>	
nstallation in Aircraft Type	Reg No_	Date_
First Flight Date		
Other		

Engine Model, OX340AJJ2T4
Serial Number, G4B004
Assembly Date 05/04/2018
Run-in Date 05/10/2018
Test results are on file at Continental Motors, Inc.
All applicable directives are in compliance.
This engine is certified to be airworthy for installation on airplanes meeting: (experimental certificates)

Crankcase S/N 117134 Crankshaft S/N N17KFA4709368#001 Camshaft S/N NS02204

Cylinders S/N #1 AC18BC037 #2 AC18BC043 #3 AC17LA456 #4 AC18BA907 #5 N/A #6 N/A

Date	Total	Time	Time Sir Over	nce Last rhaul	Engine Service and Maintena	ance Reco
	Hours	Min	Hours	Min	Record maintenance actions including engine installation and compliance with inspections, Airw Special Inspections, Modifications and Service Bul	orthiness Directive
						-
-		_				-
		er 5	naine in A	Americar oshell v	ENTAL MOTORS OX-340, s/n: G4B004 n Legend Cub SN AL-1225. Serviced with v100-50 mineral oil. Engine operational actory.	
		_ D	arin Hart	(A&P 3/	188815)	
					Aircraft Company	
			1 August			
		_	1	1	1	
				1810 F	American Legend Aircraft Services Piper Lane – Sulphur Springs, TX 75482 USA Phone: 903-885-7000	·
	Septembe	er 26, 2	018		N18RE	Ð
	AL-18					
					S/N: AL-1225	
	OX-340-A				S/N: AL-1225 S/N: G4B004	· · <u> </u>
	OX-340-A Tach: 4.5					,
	OX-340-A Tach: 4.5 TAF: 4.5	hange oil		filter elen	S/N: G4B004  Serviced with 6 qts. Aeroshell W100-50 nent and found no metal	
	OX-340-A Tach: 4.5 TAF: 4.5	hange oil	spected oil	filter elen	S/N: G4B004  Serviced with 6 qts. Aeroshell W100-50 nent and found no metal	
	OX-340-A Tach: 4.5 TAF: 4.5	Change oil tut and in ngine rur	spected oil n up, leak c	filter elen	S/N: G4B004  Serviced with 6 qts. Aeroshell W100-50 nent and found no metal factory.  A&P 3488815	
	OX-340-A Tach: 4.5 TAF: 4.5	Change oil tut and in ngine rur	spected oil n up, leak c	filter elen	S/N: G4B004  Serviced with 6 qts. Aeroshell W100-50 nent and found no metal factory.  A&P 3488815	
	OX-340-A Tach: 4.5 TAF: 4.5	Change oil tut and in ngine rur	spected oil n up, leak c	filter elen	S/N: G4B004  Serviced with 6 qts. Aeroshell W100-50 nent and found no metal factory.  A&P 3488815	
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	OX-340-A Tach: 4.5 TAF: 4.5	thange oil fut and in ngine rur r America	fy CONTI E s/n AL- A48108	Aircraft Co	S/N: G4B004  Serviced with 6 qts. Aeroshell W100-50 ment and found no metal factory.  A&P 3488815  Serviced w/6 qts Phillips 66 X/C 20W-50  TAF: 35 hrs. Old filter cut/inspected/no	
1	OX-340-A Tach: 4.5 TAF: 4.5	thange oil fut and in ngine rur r America	fy CONTI E s/n AL- A48108	Aircraft Co	S/N: G4B004  Serviced with 6 qts. Aeroshell W100-50 ment and found no metal factory.  A&P 3488815  Serviced w/6 qts Phillips 66 X/C 20W-50  TAF: 35 hrs. Old filter cut/inspected/no	
1	OX-340-A Tach: 4.5 TAF: 4.5  1. C 2. C 3. E  Darin Hart	I certify N18RE	fy CONTINE S/n AL-1	Aircraft Co	S/N: G4B004  Serviced with 6 qts. Aeroshell W100-50 ment and found no metal factory.  A&P 3488815  A&P 3488815  A&P 3488815  AAP 3488815  APP 348881	
	OX-340-A Tach: 4.5 TAF: 4.5  1. C 2. C 3. E  Darin Hart	I certify N18RE AA4810	fy CONTINE S/n AL-108 oil filte	Aircraft Co	S/N: G4B004  Serviced with 6 qts. Aeroshell W100-50 ment and found no metal factory.  A&P 3488815  A&P 3488815  A&P 3488815  A&P 3488815  APRICE OF TAPES AND ASSERVE OF TAPES AN	
	OX-340-A Tach: 4.5 TAF: 4.5  1. C 2. C 3. E  Darin Hart	I certify N18RE AA4810	fy CONTINE S/n AL-108 oil filte	Aircraft Co	S/N: G4B004  Serviced with 6 qts. Aeroshell W100-50 ment and found no metal factory.  A&P 3488815  A&P 3488815  A&P 3488815  AAP 3488815  APP 348881	
	OX-340-A Tach: 4.5 TAF: 4.5  1. C 2. C 3. E  Darin Hart	I certify N18RE AA4810	fy CONTINE S/n AL-108 oil filte	Aircraft Co	S/N: G4B004  Serviced with 6 qts. Aeroshell W100-50 ment and found no metal factory.  A&P 3488815  A&P 3488815  A&P 3488815  A&P 3488815  APRICE OF TAPES AND ASSERVE OF TAPES AN	

Date Over		Time Since Last Overhaul		Engine Service and Maintenance Record					
		Hours	Min	Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins					
	<b>-</b>		1	certify CONTINENTAL engine OX-340, s/n: G4B004 in AL-18					
Carried forward — >				N18RE s/n AL-1225 serviced w/7 qts AeroShell 80W mineral oil & AA48108 oil filter. TTAF: 156.4 hrs. Tach: 128.3 hrs. Filter cut/inspected/metal found. Cylinders #3 & #4 subsequently replaced. Robert Elves, Repairman 2824368, 07-05-19					
cylinders mblies T respectiv rs. John	3&4 no ISN04.0 ely. Ops Ostasho	replaced with C18EB140/ FAF: 156.4 hrs. Inada AME#							
7/30/2019 148.1 Removed engine For TO Continental Mo			Removed engine From Arreal AND SHIPPER TO Continental Mobils For inspection.  Oak Dat AFP3448815						
	Hours  Hours  Hours  Hours  Hours	Hours Min  AL engine UX-34 cylinders 3&4 no emblies TISN04.0 respectively. Opers. John Ostashe Repairman 2824	Hours Min Hours  Lengine UX-340, s/n: Geoglinders 3&4 non-service mblies TISN04.0X14CA, respectively. Ops check grs. John Ostashek, Trans Repairman 2824368 07-	Hours Min Hours Min  Hours Min Hours Min  Lengine UX-34U, s/n: G4BUU4 Toylinders 3&4 non-serviceable. Remblies TISN04.0X14CA, SN(s) A respectively. Ops check good. Tres. John Ostashek, Transport Ca Repairman 2824368 07-05-19					

Engine Model, OX340AJJ2T4
Serial Number, G4B004
Assembly Date 12/13/2019. Built to new Titan Limits using original crankcase, and oil sump. All other parts new.
Run-in Date 12/17/2019
Test results are on file at Continental Motors, Inc.
All applicable directives are in compliance.
This engine is certified to be airworthy for installation on airplanes meeting: (experimental certificates)

nental certificates)

Crankcase S/N 117134 Crankshaft S/N N18FFA4805107006 Camshaft S/N NS02161

Cylinders S/N #1 AC19IA013 #2 AC19IA016 #3 AC19IA018 #4 AC19GB096

American Legend Aircraft Services 1810 Piper Lane – Sulphur Springs, TX 75482 USA Phone: 903-885-7000

Feb 14, 2020 AL18 Continental OX340AJJ2T4 New tach installed Tach: 0 time JPI time and airframe TT 203.2

N18RE S/N: AL-1225 s/n: G4B004

Engine: New 0.00

- Engine removed from aircraft and sent to Continental on 7/30/2019. Continental inspected and rebuilt to new Titan limits (see engine log entry). Engine reinstalled on airframe per Legend installation drawings January, 2020 after return from Continental. Engine time is considered 0 TT since new.
- 2. Serviced engine with 7 quarts Aeroshell 100 mineral oil and installed new oil filter, safety wire.
- 3. Engine run up, leak check satisfactory.
- 4. Serviced, Inspected fuel system, flex line and hoses.
- 5. Installed new air filter assembly.
- 6. I certify that this engine has been inspected in accordance with an 100 hour inspection and was determined to be in an airworthy condition.

Darin Hart

Inspector for American Legend Aircraft Company

A&P 3488815

	Total	Time	Time Sind Overh		Engine Service and Maintenance Reco
Date	Hours	Min	Hours	Min	Record maintenance actions including engine part removal installation and compliance with inspections, Airworthiness Directions Special Inspections, Modifications and Service Bulletins
N18RE s/n <i>A</i> and AA4810	AL-1225 s 8 oil filter.	erviced TTE: 25	w/8 qts P 5.1 hrs. Ol Repairma	hillips ( d filter an 282	64B004 in AL-18 66 X/C 20W-50 cut/inspected/ 4368 4-27-20
N18RE s/n A and AA4810	AL-1225 s 8 oil filter.	erviced TAF:36	w/8 qts P hrs. Old fil	hillips Iter cut 282436	64B004 in AL-18
N18RE s/n	AL-1225 il filter ins	serviced talled. C	d w/8 qts / old filter cu	AeroSh ut & ins	G4B004 in AL-18 nell 15W-50 and spected no metal
N18RÉ s/n	AL-1225 d operation	was insponal che	oected IA\ eck found	N AST satisfa	G4B004 in AL-18 M F2339. Engine potory. TTE: 100.3
4/12/2	021			N1	.8RE TACH 127.8
p/n: TTP30 11 §§ 8-17 Functional designed. preformed.	H, includ 038-115/5 . Pursuan System ( Total inst Aircraft l oil filter	ed enging.  O. Instate 14 CF.  Check I.  alled we equipment of the control of the	neering sullation IA R 21.93(a W Instaleight lessent list up d filter op	ubstitu W Ins ) mod llation than 1	P4CYL-2925-115 (dwg: 02925-115 Rev E), s/n: tion of pad element w/ threaded sump element structions: TNP2925 Rev E and AC 43.13-1B Ch ification considered a minor change. Preformed Guide: TNG1000 Rev E, system functioned as .0-lb considered incidental no change in Wt & Bl accordingly. Drained oil and installed new debris noted. Added 6 quarts Aeroshell 15W50
Kevin D. P	urstell		1	7_	
5/11/20	022 N	\18R	E AL	18	S/N AL-1225 TACH 157.3
TTAF 36	50.5 Ti	itan			
#2 76/80. #3 filter. Added engine. I cer	3 78/80. # I 6 quarts tify this e	4 76/80 15w-50 ngine ha	. Installed oil. Cut o as been in	8 new pen oil	d Aircraft MM APPENDIX C. Compressions were, #1 79/80. IK27 spark plugs. Drained oil installed new AA48108-2 filter no debris noted. Ops checked and leak checked d IAW manufacturers maintenance and inspection guide
and been fo	unu sare i	or open	acioii.		

\_A&P 3585343 I.A.

Kevin D. Purstell\_

	Total	Time	Time Sinc Overh		Engine Service and	Maintenance Reco
Date	Hours	Min	Hours	Min	Record maintenance actions incinstallation and compliance with inspections, Modifications a	spections, Airworthiness Directiv
rie 5/1	1/202	22 N	118RE	TIT	TAN S/N G4B004	TACH 168.7
TTA	F 371	.92	TSMO	168	3.7	
						C. Day 2.0. Compressions were
— 76/80	. #2 76/8	80. #3 77	7/80. #4 74	4/80. lı	Legend Aircraft MM APPENDIX nstalled 8 new Denso IK27 spark	plugs. Drained oil installed no
					shell 15w-50 oil. Cut open oil filto d engine. I certify this engine has	
					ection guide and been found safe	·
Kevin	D. Purste	ell	1		A&P 3585343 I.A.	
	-					
5/15/2	.024	N181	RE TI	ITAN	S/N G4B004	TACH 176.56
TTAF 3	79.78	TSN	10 17	6.56		
	, , , , ,				•	
D ( )						
Preformed	conditio	nal inspe	ection IAV	V Legei	nd Aircraft MM APPENDIX C Rev	2.0. Compressions were, #1
Preformed 76/80. #2 7	conditio	nal inspe	ection IAV	V Legei	nd Aircraft MM APPENDIX C Rev	2.0. Compressions were, #1
76/80. #2 7	condition 6/80. #3	nal inspe 74/80.	ection IAW #4 78/80.	V Legei Draine	nd Aircraft MM APPENDIX C Revelon oil installed new AA48108-2 fil	lter. Added 7 quarts
76/80. #2 7 Aeroshell 1	conditio 76/80. #3 .5w-50 oi	nal inspe 74/80. i I. Cut op	ection IAW #4 78/80. pen oil filte	V Legei Draine er no d	nd Aircraft MM APPENDIX C Reved oil installed new AA48108-2 filebris noted. Stop drilled small cr	lter. Added 7 quarts rack in engine baffle. Ops
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	(3)
U	S Department
of	Transportation
F	ederal Aviation
Α	dministration

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

OMB No. 212 Exp: 5/31/201	0-0020 Electronic Tracking Number
	For FAA Use Only

Feder	ral Aviatio nistration	n	(AIII	rame, r	Powerpiani, F	rop	ene	er, or Appi	iance)				
instr	ructions		ition of	f this form									osequent revision thereof) for esult in a civil penalty for each
Nationality and Registrat USA/N18RE  1. Aircraft  Make					tration Mark				Serial No. AL-1225				
1. Airc	American_Legend								Model Supe	er_l	_ege		Series XP
2. Ow	Name (As shown on registration certificate) Big_Bird_1_LLC					)				Baml	boo_Ln		
									Zip Melber 3293		9	Count	State FL try USA
							3. F	or FAA Use	Only				
	4. Typ	e				,	5. L	Jnit Identifica	ntion				
Rep	pair	Alteration		Unit		Mak	æ.			Mod	lel		Serial No.
		Ø	AIRF	RAME	America	an_Le	gen	end (As described in Item 1 above)			bove)	AL-1225	
Ε	$\supset \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		POW	ERPLANT									
			PROF	PELLER									
			APPL	LIANCE	Type Manufacturer								
						_		nformity Stat					10.01.50(1980)
		lame and Ad	dress			_		Kind of Agend					
Name Address	111 0	ert_Elves					^				Manufacturer Certificate No.		
City		ourne			State FL	_	$\dashv$	Foreign Certificated Mechanic C. Certificated Repair Station			C. Certin	cate No.	
Zip	3293	5 Cou	<sub>intry</sub> _ l	USA		_	$\forall$		,	zatior	,		2824368
1	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.												
Extend per 14 App. E	Extended range fuel Signature/Date of Authorized Individual  App. B												
					7, 7	App	rov	al for Return	to Service				
						elow,	_	unit identifi			nspecte Rejected		manner prescribed by the
		A Flt. Stand	ards	Mar	nufacturer		Ma	aintenance Or	ganization			ns Approve iment of Tr	d by Canadian ansport
BY		A Designee		Rep	pair Station	Х	Ins	spection Auth	orization	Othe	r (Spec	cify)	
Certific Design	cate or nation N	o. 28243	368	Sign	ature/Date of Au	thorize	ed I	ndividual					

## 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.

		USA/N18RE	04-24-1	9
ended-range_32_gallon_ RJS App.B(d)_to_forward_baggage	-3005201_aviation_ e area. Weight: 15	Nationality and Registration fuel_cell_installed flbs. Arm:57. Mor	LIAW_14CF	Date R/Pt.
		, <u>-</u>		



#### **COLD WEATHER MODIFICATION**

P/N: TSP4CYL-2925-115 **ENGINE PREHEAT KIT - 115 VOLT** 

#### PURPOSE:

TOP LEVEL DRAWING - ELIGIBILITY, PARTS, AND RELATED DOCUMENTS REQUIRED FOR INSTALLATION, OPERATION, AND CONTINUED AIRWORTHINESS. (REPLACES TAS75-01 AND TAS100 SERIES 4-CYLINDER KITS)

#### **ELIGIBILITY:**

4-CYLINDER CONTINENTAL AND LYCOMING ENGINES, STC-AML SE03232CH AND EASA 10054417.

#### SUPPLEMENTARY INFORMATION:

- A. START INSTALLATION WITH ITEM INVENTORY AND KIT INSTALLATION INSTRUCTION.
- B. TOOLS HARDWARE AND BONDING SEALANT NOT SUPPLIED REFER RELATED DOCUMENTS.
- C. STANDARD OPTIONS LISTED IN INSTALLATION GUIDE TNG1000.
- D. DOCUMENTS AVAILABLE AT WWW.TANISAIRCRAFT.COM OR CONTACT TANIS AIRCRAFT PRODUCTS.

#### INCLUDES THE FOLLOWING CHECKED [ ✓ ] ITEMS:

		QTY	ITEM NUMBER	DESCRIPTION
	[]	1	CB911	SOLVENT WIPE
	[4]	1	TC02859	CABLE KIT
	[-]	1	TEP2653-115/40	PAD HEAT ELEMENT - SUMP
	[٧]	1	TLP3039-06-115	INDICATOR LIGHT - 8MM LED
	[1]	1	TP02770-115	PLUG - SHORE POWER (INLET)
	[4]	4	TTP2771-115/50	THREADED HEAT ELEMENT - 1 EACH CYLINDER
Jan	[٧]	1	TU02615-115	PLACARD
	[٧]	8	TU02846	SPACER - 0.25 ALUMINUM
/	[ 1	40	TU02847	CABLE TIE
-	[4]	1	TWC0001	REGISTRATION / WARRANTY CARD

#### RELATED DOCUMENTS:

AVAILABLE AT WWW.TANISAIRCRAFT.COM OR CONTACT TANIS AIRCRAFT PRODUCTS.

DOCUMENT NUMBER	DESCRIPTION	
TNP2925	INSTRUCTION - PREHEAT KIT INSTALLATION	
TNG1000	INSTALLATION GUIDE - STANDARDS REFERENCE	
 * TCA1000	INSTRUCTIONS FOR CONTINUED AIRWORTHINESS	
* TPG1000	OPERATING GUIDE	
02859	DRAWING - CABLE KIT WIRE DIAGRAM	
TN02771	INSTRUCTION - THREADED ELEMENT	
TN02788	INSTRUCTION - BONDING PAD ELEMENT	
TN03039	INSTRUCTION - INDICATOR LIGHT	
* PEEER TO DOCUMENT	RECORD AND RETAIN AS INDICATED	

REFER TO DOCUMENT RECORD AND RETAIN AS INDICATED

INFORMATION CONTAINED IN THIS DOCUMENT AND ALL OTHER ASSOCIATED DOCUMENTS IS PROPRIETARY AND SHALL NOT BE REPRODUCED OR DISCLOSED IN WHOLE OR IN PART OR USED FOR ANY DESIGN OR MANUFACTURE WITHOUT DIRECT WRITTEN AUTHORIZATION FROM TANIS AIRCRAFT PRODUCTS.

CURRENT REV APPROVAL:	Dick,	Digitally signed by disaptanean craftcom Date: 2019.04.12 10:43:14 - 05'00'
DRAWN BY:	DNE	APR-25-2013
CHECKED BY:	GDO	APR-25-2013
SCALE:	N/A	(.xlsx format E)

ADD TNG1000 AND UPDATE OPERATING GUIDE TO TPG1000	E	DNE	APR-12-2019
ADD OPTIONS REFERENCE	D	GDO	JAN-10-2017
UPDATE WITH 3039 8MM INDICATOR LIGHT AND INSTRUCTIONS	С	DNE	SEP-10-2014
REPLACE AFMS WITH TPG0001 OPERATING GUIDE	В	PGT	MAR-06-2014
CHANGE	REV	INIT	DATE



TANIS AIRCRAFT PRODUCTS GLENWOOD MUNICIPAL AIRPORT GLENWOOD, MN 56334 USA +1.952.224.4425

TITLE: ENGINE PREHEAT KIT					
TOP LEVEL DRAWING					
SPEC: N/A					
SUPERSEDES: N/A					
SHEET	1 OF 1	DWG:	02925-115		



Date: Oct. 20, 2020

This letter serves as an official authorization that Tanis Aircraft Products allows the single installation of the preheat system part number: TSP4CYL-2925- 115, serial number: 55878 per STC AML SE03232CH on one applicable engine.

This letter is also for refrence to:

- TCCA acceptance of FAA-STC
- EASA-STC: 10054417

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/tsp4cyl-2925-115.html or on the the FAA RGL website: http://rgl.faa.gov/Regulatory\_and\_Guidance\_Library/rgstc.nsf/0/2F44B9522631AA9986257CCC005ADA78?OpenDocument&Highlight=tanis

#### United States of America

# Department of Transportation -- Federal Abiation Administration

# Supplemental Type Certificate

Number SE03232CH

This certificate issued to

Tanis Aircraft Products 2951 100<sup>th</sup> 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 hereen meets the airworthiness requirements of Part \* of the \* Regulations.

Original Product Type Certificate Number:

\*See attached FAA Approved Model List (AML)

Make: Model: \*No. SE03232CH for list of approved engine models and

\*applicable airworthiness regulations

Description of Type Design Change:

Installation of Tanis Engine Preheat Kit, p/n TSP4CYL-2925-115 for 115 volt application in accordance with Engine Preheat Kit drawing # 02925-115, Revision E, dated April 12, 2019, and Tanis Instruction - Preheat Kit Installation, TNP2925 Rev. E, dated April 12, 2019 or later FAA approved revisions or

Installation of Tanis Engine Preheat Kit, p/n TSP4CYL-2925-230 for 230 volt application in accordance with

Engine Preheat Kit drawing # 02925-230, Revision E, dated April 12, 2019, and Tanis Instruction - Preheat Kit Installation, TNP2925 Rev. E, dated April 12, 2019 or later FAA approved revisions or

Installation of Tanis Engine Preheat Kit, p/n TSP4CYL-3001-115 for 115 volt application in accordance with

Engine Preheat Kit drawing # 03001-115, Revision D, dated April 18, 2019, and Tanis Instruction - Preheat Kit Installation. TNP3001 Rev. D, dated May 23, 2019 or later FAA approved revisions or

Installation of Tanis Engine Preheat Kit, p/n TSP4CYL-3001-230 for 230 volt application in accordance with Engine Preheat Kit drawing # 03001-230, Revision D, dated April 18, 2019, and Tanis Instruction - Preheat Kit Installation, TNP3001 Rev. D, dated May 23, 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 April 6, 2019 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 effect until surrendered. suspended. revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Lute of application: April 29, 2013

Date reissued:

Dute of issuance:

June 26, 2013

*Dute unrended:* April 23, 2014; December 2, 2014; November 21, 2019



By direction of the Administrator

(Signature)

RoVE. Boff

Manager, Propulsion and Program Management Section Chicago ACO Branch

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.