



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number: SE03232CH

This certificate issued to: Hartzell Propeller Inc.
One Propeller Place
Piqua, OH 45356

Certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 33 of the Code of Federal Regulations.

Original Product *Make:* See Approved Model List
Type Certificate Number: See Approved Model List *Model:* See Approved Model List

Description of Type Design Change:

Installation of Engine Preheat Kit, p/n TA2925-1 for 115 volt application in accordance with Engine Preheat Kit drawing TA2925-1 Revision F, dated March 6, 2023 or later FAA approved revisions and Preheat Kit Installation Instruction TNP2925 Revision E, dated April 12, 2019 or later FAA approved revisions, or

(See Continuation Sheet 3 of 3)

Limitations and Conditions:

1. The installer must determine whether this design change is compatible with previously approved modifications.
2. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

(See Continuation Sheet 3 of 3)

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: April 29, 2013 *Date Reissued:*

Date of Issuance: June 26, 2013 *Date Amended:* April 23, 2014; December 2, 2014; November 21, 2019; October 26, 2023

By Direction of the Administrator

Signature: Roy E Boffo III For Paul (Vu) Nguyen
Digitally signed by Roy E Boffo III For Paul (Vu) Nguyen
Date: 2023.10.26 06:09:08 -05'00'

Paul (Vu) Nguyen

Title: Central Certification Branch
Compliance & Airworthiness Division

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



United States of America
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INSTRUCTIONS: *The transfer endorsement below may be used to notify the appropriate FAA Aircraft Certification Office of the transfer of this Supplemental Type Certificate. The FAA will reissue the certificate in the name of the transferee and forward it to him.*

Transfer Endorsement

Transfer the ownership of Supplemental Type Certificate Number: _____

To *(Name and address of transferee):*

From *(Name and address of grantor):*

Extent of Authority (if licensing agreement):

Date of transfer:

Signature of grantor: _____

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



United States of America
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Supplemental Type Certificate

(Continuation Sheet)

Number: SE03232CH

Date Amended: October 26, 2023

(Continued from Page 1: Description of Type Design Change)

Installation of Engine Preheat Kit, p/n TA2925-2 for 230 volt application in accordance with Engine Preheat Kit drawing TA2925-2 Revision F, dated March 6, 2023 or later FAA approved revisions, and Preheat Kit Installation Instruction TNP2925 Revision E, dated April 12, 2019 or later FAA approved revisions, or
Installation of Engine Preheat Kit, p/n TA3001-1 for 115 volt application in accordance with Engine Preheat Kit drawing TA3001-1, Revision D, dated April 21, 2023 or later FAA approved revisions, and Preheat Kit Installation Instruction TNP3001 Revision D, dated May 23, 2019 or later FAA approved revisions, or
Installation of Engine Preheat Kit, p/n TA3001-2 for 230 volt application in accordance with Engine Preheat Kit drawing TA3001-2, Revision D, dated April 21, 2023 or later FAA approved revisions, and Preheat Kit Installation Instruction TNP3001 Revision D, dated May 23, 2019 or later FAA approved revisions.

(Continued from Page 1: Limitations and Conditions)

3. FAA accepted Instructions for Continued Airworthiness (ICA) document # TCA1000 Revision D, dated August 7, 2023 or later FAA approved revisions, and Operating Guide document # TPG1000 Revision F, dated August 7, 2023 or later FAA approved revisions are required.
4. A copy of this certificate must be maintained as part of the permanent records for the modified airplane.

- END -

Any alteration of this certificate and/or the Type Certificate Data Sheet is punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with Title 14 of the Code of Federal Regulations, part 21, section 21.47 (14 CFR 21.47). A transfer must be endorsed as provided on the reverse hereof. A Type Certificate holder who allows a person to use the Type Certificate to manufacture a new aircraft, aircraft engine, or propeller must provide that person with a written licensing agreement acceptable to the FAA. (Ref. 14 CFR 21.55).

FAA APPROVED MODEL LIST (AML) NO. SE03232CH
Hartzell Propeller Inc.
INSTALLATION OF ENGINE PREHEAT KIT

Issue Date: *June 26, 2013*

ITEM	ENGINE MAKE	ENGINE MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERT BASIS FOR AMENDMENT	INSTALLATION INSTRUCTIONS		AML AMENDED DATE
					TITLE, NUMBER	REVISION, DATE	
1.	Continental	A-40, A-40-2, A-40-3, A-40-4.	ATC 72	Approved Type Certificate No. 72	TNP2925	Rev. E * 4/12/2019	6/26/2013
2.	Continental	A-40-5.	ATC 174	Approved Type Certificate No. 174	TNP2925	Rev. E * 4/12/2019	6/26/2013
3.	Continental	A-50-1, A-50-2, A-50-3, A-50-4, A-50-4J, A-50-5, A-50-5J, A-50-6, A-50-6J, A-50-7, A-50-7J, A-50-8, A-50-8J, A-50-9, A-50-9J	E-190	CAR 13	TNP2925	Rev. E * 4/12/2019	6/26/2013
4.	Continental	A-65-1, A-65-12, A-65-12F, A-65-12FJ, A-65-12J, A-65-14, A-65-14F, A-65-14FJ, A-65-3, A-65-6, A-65-6J, A-65-7, A-65-8 (O-170-3, O-170-7), A-65-8F, A-65-8FJ, A-65-8J, A-65-9 (O-170-5), A-65-9F, A-65-9FJ, A-65-9J.	E-205	CAR 13	TNP2925	Rev. E * 4/12/2019	6/26/2013
5.	Continental	A75-3, A75-6, A75-6J, A75-8, A75-8F, A75-8FJ, A75-8J, A75-9, A75-9J.	E-213	Type Certificate No. 213	TNP2925	Rev. E * 4/12/2019	6/26/2013
6.	Continental	C75-12, C75-12B, C75-12BF, C75-12BFH, C75-12F, C75-12FH, C75-12FHJ, C75-12FJ, C75-12J, C75-15, C75-15F, C75-8, C75-8F, C75-8FH, C75-8FHJ, C75-8FJ, C75-8J, C85-12, C85-12F, C85-12FH, C85-12FHJ, C85-12FJ, C85-12J, C85-14F, C85-15, C85-15F, C85-8, C85-8F, C85-8FHJ, C85-8FJ, C85-8J.	E-233	CAR 13	TNP2925	Rev. E * 4/12/2019	6/26/2013
7.	Continental	C90-12F, C90-12FH, C90-12FJ, C90-12FP, C90-14F, C90-14FH, C90-14FJ, C90-16F, C90-8F, C90-8FJ, O-200-A, O-200-B, O-200-C, O-200-D, O-200-X.	E-252	CAR 13 (except O-200-D, O-200-X) Part 33 (O-200-D, O-200-X)	TNP2925	Rev. E * 4/12/2019	6/26/2013

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Hartzell Propeller Inc.
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Issue Date: *June 26, 2013*

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					TITLE, NUMBER	REVISION, DATE	
8.	Continental	IO-346-A, IO-346-B.	E3CE	CAR 13	TNP2925	Rev. E * 4/12/2019	6/26/2013
9.	Continental	RR O-240-A.	E11EU	FAR 21.29 and British Civil Airworthiness Requirements, Section C, Issue 6	TNP2925	Rev. E * 4/12/2019	6/26/2013
10.	Continental	IO-240-A, IO-240-B, IOF-240-B.	E7SO	14 CFR Part 33	TNP2925	Rev. E * 4/12/2019	6/26/2013
11.	Continental	A-80-5J, A-80-8, A-80-8J, A-80-9, A-80-9J.	TC 217	Type Certificate No. 217	TNP2925	Rev. E * 4/12/2019	6/26/2013
12.	Lycoming	O-145-A1, O-145-A2.	TC 199	Type certificate No. 199	TNP2925	Rev. E * 4/12/2019	6/26/2013
13.	Lycoming	O-145-B1, O-145-B2, O-145-B3, O-145-C1, O-145-C2, GO-145-C1, GO-145-C2, GO-145-C3.	TC 210	Type Certificate No. 210	TNP2925	Rev. E * 4/12/2019	6/26/2013
14.	Lycoming	O-233-A1, O-235, O-235-A, O-235-AP, O-235-B, O-235-BP, O-235-C, O-235-C1, O-235-C1A, O-235-C1B, O-235-C1C, O-235-C2A, O-235-C2B, O-235-C2C, O-235-E1, O-235-E1B, O-235-E2A, O-235-E2B, O-235-F1, O-235-F1B, O-235-F2A, O-235-F2B, O-235-G1, O-235-G1B, O-235-G2A, O-235-G2B, O-235-H2C, O-235-J2A, O-235-J2B, O-235-K2A, O-235-K2B, O-235-K2C, O-235-L2A, O-235-	E-233	CAR 13	TNP2925	Rev. E * 4/12/2019	6/26/2013

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Issue Date: *June 26, 2013*

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					TITLE, NUMBER	REVISION, DATE	
		L2C, O-235-M1, O-235-M2C, O-235-M3C, O-235-N2A, O-235-N2C, O-235-PI, O-235-P2A, O-235-P2C, O-235-P3C.					
15.	Lycoming	O-290, O-290-A, O-290-AP, O-290-B (O-290-1), O-290-C (O-290-3), O-290-CP, O-290-D (O-290-11), O-290-D2, O-290-D2A, O-290-D2B, O-290-D2C.	E-229	CAR 13	TNP2925	Rev. E * 4/12/2019	6/26/2013
16.	Lycoming	O-320-A1A, O-320-A1B, O-320-A2A, O-320-A2B, O-320-A2C, O-320-A2D, O-320-A3A, O-320-A3B, O-320-A3C, O-320-B1A, O-320-B1B, O-320-B2A, O-320-B2B, O-320-B2C, O-320-B2D, O-320-B2E, O-320-B3A, O-320-B3B, O-320-B3C, O-320-C1A, O-320-C1B, O-320-C2A, O-320-C2B, O-320-C2C, O-320-C3A, O-320-C3B, O-320-C3C, O-320-D1A, O-320-D1B, O-320-D1C, O-320-D1D, O-320-D1F, O-320-D2A, O-320-D2B, O-320-D2C, O-320-D2F, O-320-D2G, O-320-D2H, O-320-D2J, O-320-D3G, O-320-E1A, O-320-E1B, O-320-E1C, O-320-E1F, O-320-E1J, O-320-E2A, O-320-E2B, O-320-E2C, O-320-E2D, O-320-E2F, O-320-E2G, O-320-E2H, O-320-E3D, O-320-E3H, O-320-H1AD, O-320-H1BD, O-320-H2AD, O-320-H2BD, O-320-H3AD, O-320-H3BD.	E-274	CAR 13	TNP2925	Rev. E * 4/12/2019	6/26/2013
17.	Lycoming	IO-320-A1A, IO-320-A2A, IO-320-B1A, IO-320-B1B, IO-320-B1C, IO-320-B1D, IO-320-B1E, IO-320-B2A, IO-320-C1A, IO-320-C1B, IO-320-D1A, IO-320-D1B, IO-320-D1C, IO-320-E1A, IO-320-E1B, IO-320-E2A, IO-320-E2B, IO-320-F1A, LIO-320-B1A, LIO-320-C1A, AEIO-320-D1B, AEIO-320-D2B, AEIO-320-E1A, AEIO-320-E1B, AEIO-320-E2A, AEIO-320-E2B, AIO-320-A1A, AIO-320-	1E12	CAR 13	TNP2925	Rev. E * 4/12/2019	6/26/2013

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		A1B, AIO-320-A2A, AIO-320-A2B, AIO-320-B1B, AIO-320-C1B.					
18.	Lycoming	O-340-A1A, O-340-A2A, O-340-B1A.	E-277	CAR 13	TNP2925	Rev. E * 4/12/2019	6/26/2013
19.	Lycoming	O-360-A1A, O-360-A1AD, O-360-A1C, O-360-A1D, O-360-A1F, O-360-A1F6, O-360-A1F6D, O-360-A1G, O-360-A1G6, O-360-A1G6D, O-360-A1H, O-360-A1H6, O-360-A1LD, O-360-A1P, O-360-A2A, O-360-A2D, O-360-A2E, O-360-A2F, O-360-A2G, O-360-A2H, O-360-A3A, O-360-A3AD, O-360-A3D, O-360-A4A, O-360-A4AD, O-360-A4D, O-360-A4G, O-360-A4J, O-360-A4K, O-360-A4M, O-360-A4N, O-360-A4P, O-360-A5AD, O-360-B1A, O-360-B1B, O-360-B2A, O-360-B2B, O-360-B2C, O-360-C1A, O-360-C1C, O-360-C1E, O-360-C1F, O-360-C1G, O-360-C2A, O-360-C2B, O-360-C2C, O-360-C2D, O-360-C2E, O-360-C4F, O-360-C4P, O-360-D1A, O-360-D2A, O-360-D2B, O-360-E1A6D, O-360-E1AD, O-360-E1BD, O-360-E2AD, O-360-E2BD, O-360-F1A6, O-360-G1A6, O-360-J2A, LO-360-A1G6D, LO-360-A1H6, LO-360-E1A6D, LO-360-E1AD, LO-360-E1BD, LO-360-E2AD, LO-360-E2BD.	E-286	CAR 13	TNP2925	Rev. E * 4/12/2019	6/26/2013
20.	Lycoming	AEIO-360-A1A, AEIO-360-A1B, AEIO-360-A1B6, AEIO-360-A1C, AEIO-360-A1D, AEIO-360-A1E, AEIO-360-A1E6, AEIO-360-A2A, AEIO-360-A2B, AEIO-360-A2C, AEIO-360-B1B, AEIO-360-B1D, AEIO-360-B1F, AEIO-360-B1F6, AEIO-360-B1G6, AEIO-360-B1H, AEIO-360-B2F, AEIO-360-B2F6,	1E10	CAR 13 (Except LIO-360-M1A) 14 CFR Part 33 (LIO-360-M1A)	TNP2925	Rev. E * 4/12/2019	6/26/2013

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		AEIO-360-B4A, AEIO-360-H1A, AEIO-360-H1B, AIO-360-A1A, AIO-360-A1B, AIO-360-A2A, AIO-360-A2B, AIO-360-B1B, HIO-360-A1A, HIO-360-A1B, HIO-360-B1A, HIO-360-B1B, HIO-360-C1A, HIO-360-C1B, HIO-360-D1A, HIO-360-E1AD, HIO-360-E1BD, HIO-360-F1AD, HIO-360-G1A, IO-360-A1A, IO-360-A1B, IO-360-A1B6, IO-360-A1B6D, IO-360-A1C, IO-360-A1D, IO-360-A1D6, IO-360-A1D6D, IO-360-A2A, IO-360-A2B, IO-360-A2C, IO-360-A3B6, IO-360-A3B6D, IO-360-A3D6D, IO-360-B1A, IO-360-B1B, IO-360-B1C, IO-360-B1D, IO-360-B1D, IO-360-B1E, IO-360-B1F, IO-360-B1F6, IO-360-B1G6, IO-360-B2E, IO-360-B2F, IO-360-B2F6, IO-360-B4A, IO-360-C1A, IO-360-C1B, IO-360-C1C, IO-360-C1C6, IO-360-C1D6, IO-360-C1E6, IO-360-C1E6D, IO-360-C1F, IO-360-C1G6, IO-360-D1A, IO-360-E1A, IO-360-F1A, IO-360-J1A6D, IO-360-J1AD, IO-360-K2A, IO-360-L2A, IO-360-M1A, IO-360-M1B, LHIO-360-C1A, LHIO-360-C1B, LHIO-360-F1AD, LIO-360-C1E6, LIO-360-M1A.					
21.	Lycoming	TIO-360-A1A, TIO-360-A1B, TIO-360-A3B6, TIO-360-C1A6D.	E16EA	14 CFR Part 33	TNP2925	Rev. E * 4/12/2019	6/26/2013
22.	Lycoming	TO-360-A1A6D, TO-360-C1A6D, TO-360-E1A6D TO-360-F1A6D, LTO-360-A1A6D, LTO-360-E1A6D.	E26EA	14 CFR Part 33	TNP2925	Rev. E * 4/12/2019	6/26/2013
23.	Lycoming	IO-390-A1A6, IO-390-A1B6, IO-390-A3A6, IO-390-A3B6, AEIO-390-A1A6, AEIO-390-A1B6, AEIO-390-A3A6, AEIO-390-A3B6.	E00006NY	14 CFR Part 33	TNP2925	Rev. E * 4/12/2019	6/26/2013

**FAA APPROVED MODEL LIST (AML) NO. SE03232CH
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Issue Date: *June 26, 2013*

ITEM	ENGINE MAKE	ENGINE MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERT BASIS FOR AMENDMENT	INSTALLATION INSTRUCTIONS		AML AMENDED DATE
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24.	Austro	E4	E00081EN	14 CFR Part 33	TNP3001	Rev. D * 5/23/2019	12/2/2014
25.	Austro	E4P	E00081EN	14 CFR Part 33	TNP3001	Rev. D * 5/23/2019	11/21/2019

*Or later FAA-Approved Revision

FAA Approved:

Roy E Boffo III For Paul (Vu) Nguyen
Digitally signed by Roy E Boffo
 III For Paul (Vu) Nguyen
 Date: 2023.10.26 06:09:43
 -05'00'

Paul (Vu) Nguyen
 Manager, Central Certification Branch
 Compliance & Airworthiness Division
 Aircraft Certification Service

Date Issued: June 26, 2013

Date Reissued: October 26, 2023

Date Amended: December 2, 2014, November 21, 2019