



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number: SA10077SC

This certificate issued to: Hartzell Engine Technologies LLC
2900 Selma Highway
Montgomery, AL 36108

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 * of the * Regulations.

Original Product – Type Certificate Number: (See attached FAA Approved Model Make: List (AML) for list of approved Model: models and applicable airworthiness regulations)

Description of Type Design Change:

Installation of push-button starter system in accordance with Sky-Tec Drawing No. 71000, dated June 26, 2002, or later FAA approved revision and engine modified per STC SE10076SC.

Limitations and Conditions:

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.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, and revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of Application: May 19, 2002
Date of Issuance: October 03, 2002

Date Reissued: November 09, 2016; December 13, 2016
Date Amended: December 04, 2003; April 26, 2005 Revision 2

By Direction of the Administrator

Signature James A. Grigg

Title James A. Grigg
Acting Manager, Fort Worth Aircraft Certification Office,
Southwest Region

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).



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Supplemental Type Certificate

(Continuation Sheet)

Number: SE10077SC

Date of Issuance: October 03, 2002

Date Amended: April 26, 2005

Date of Reissuance: December 13, 2016

FAA APPROVED MODEL LIST (AML)

SA10077SC

Hartzell Engine Technologies LLC
 2900 Selma Highway
 Montgomery, AL 36108

Date of issuance: October 3, 2002
 Date amended: April 26, 2005
 Date of reissuance: December 13, 2016

Item	Aircraft Make	Aircraft Model	Original Type Certificate Number	Regulation/Part
1	Aerodifusion	D11905	A111N	CAR 10
2	Aeronca	65-TC, YO-58, 65TAC (Army L-3)	A-728	CAR 4a
		O-58A, O-58B, SO-58B (Army L-3A, B, C)	A-751	CAR 4a
		15AS, S15AC	A-802	CAR 3
3	All American	10A	A-792	CAR 3
4	Anderson Greenwood	14	4A1	CAR 3
5	Beecraft	HB	4A11	CAR 3
6	British Aerospace	B.121 Series 1	A22EU	FAR 23
7	Bolkow	Bolkow, Jr.	A1EU	CAR 10
8	Callair	S1A	A-737	CAR 4a
9	Cessna	172	3A12	CAR 3
		175, Skylark, 4PCL-SM	3A17	CAR 3
		150, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150J, 150K, A150K, Aerobat, 150L, 150M	3A19	CAR 3
		140A	5A2	CAR 3
		120, 140	A-768	CAR 4a
		170, 170A, 170B	A-799	CAR 3
		F150-G, F150-H, F150-J, F150-K, F150-L, FA150-L, F150-M, FRA-150-M	A13EU	CAR 3
10	Champion	7AC, S7AC(L-16A), 7BCM (L16-B), 7CCM, S7CCM, 7DC, S7DC, 7EC, S7EC, 7FC	A-759	CAR 4a
		11AC, S11AC, 11BC, S11BC	A-761	CAR 4a
		11CC, S11CC	A-796	CAR 3
11	EAA Air Museum Foundation	Stits SA-9A	4A31	CAR 3

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Number: SA10077SC

Date of Issuance: October 03, 2002
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12	Helio	15A	3A3	CAR 4a
13	Henry S. Garcia	Trojan A2	A-801	CAR 3
14	Jodel	D1190	A10IN	CAR 10
		150	A14IN	CAR 10
		DR-1050	A4In	CAR 10
15	Luscombe	8E, 8F, T-8F	A-694	CAR 4a
16	Maule	M4, M4C, M4S, M4T	3A23	CAR 3
17	Meyers	MAC 125C, MAC 145	3A1	CAR 4a
18	Mooney Mite Aircraft Comp	M-18C	A-803	CAR 3
19	Morrissey	2000C	4A14	CAR 3
20	Piper	J3C	A-691	CAR 4a
		J4A	A-703	CAR 4a
		J5A (Army L4F), J5B (Army L4G)	A-725	CAR 4a
		J4E (Army L4E)	A-740	CAR 4a
		PA17	A-805	CAR 3
21	Porterfield	LP-65	A-720	CAR 4a
22	Ryson	ST-100	A7NM	FAR 23
23	Socata	MS88B, MS88S, 1005	7A14	CAR 3
24	Superior	V, V-2	A-778	CAR 3
25	Swift Museum Foundation	GC1A, GC1B	A-766	CAR 4a
26	Thomas H. McClish	Funk B85C	A-715	CAR 4a
27	Thorp	T-211	A-791	CAR 3
28	Taylorcraft	19, F19	1A9	CAR 3
29	Univair	415-C, 415-CD	A-718	CAR 4a
		415-D, 415-E, 415-G, F-1, F-1A, A-2, A-2A, M10	A-787	CAR 3

FAA Approved: 
 James A. Grigg
 Acting Manager, Fort Worth Aircraft Certification Office,
 Southwest Region

Date: December 13, 2016

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DRAWING NO. 71000

Revision: A

Date: 12/21/2010

Title: MASTER DRAWING, Aircraft Alteration for "switch-type"
Starter

REVISIONS

REV	DATE	DESCRIPTION	BY
-	6/26/02	ORIGINAL DRAWING	EC
A	12/21/10	ADDED 71002 KIT TO DRAWING LIST	LS

ELIGIBILITY:

Per Approved Model List (AML) for STC # SA10077SC

DRAWING LIST:

<u>Drawing #</u>	<u>Revision</u>	<u>Date</u>	<u>Title</u>
71001	-	03/20/02	Push Button Starter Switch
70150	-	02/23/02	Placard, Push to Start
71002	-	12/23/10	Kit KCSW

ALTERATION PROCEDURE:

1. Modify engine in accordance with STC # SE10076SC or install engine previously modified.
2. Remove existing "pull-start" cable and install "push-start" switch and wiring per Sky-Tec Drawing #71001.
3. Install Sky-Tec starter, model # C12ST2/S per installation instructions provided in applicable aircraft service manual.

NOTE: On aircraft with TCM model GO-300 series engine, substitute starter model # C12ST2/SR.

4. Install placard p/n 70150 on panel in close proximity to starter switch in plain view of the pilot.
5. Complete FAA form 337 and record alteration in aircraft logbook for return to service.