

United States Of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**

*Number* SA00080LA

*This Certificate issued to*

**TC SKYROCKET LLC  
356 Expressway CT  
Gaylord, Michigan 49735**

*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 23 of the Federal Aviation Regulations.*

*Original Product Type Certificate Number:* A6CE

*Make:* Cessna

*Model:* T337G, P337H

*Description of Type Design Change:* Installation of Teledyne Continental TSIO-520-NB engine and Hartzell three-bladed propellers in accordance with Riley Master Drawing List (MDL) R30000, Revision L dated April 26, 1995, or later FAA approved revision.

*Limitations and Conditions:* Approval of this change in type design applies to the above aircraft model(s) only. This approval should not be extended to aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this certificate 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:* October 16, 1991

*Date of issuance:* May 8, 1995

*Date reissued:* June 14, 1995, June 20, 1996,  
October 4, 1996, March 3, 1998, July 18, 2000,  
November 10, 2009

*Date amended:*

*By direction of the Administrator*



(Signature)

Supervisor, Technical & Administrative Support  
Staff, Los Angeles Aircraft Certification Office

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

# Supplemental Type Certificate

(Continuation Sheet)

*Number* SA00080LA

- (A) October 16, 1991  
(I) May 8, 1995  
(R) June 14, 1995, June 20, 1996, October 4, 1996, March 3, 1998, July 18, 2000, November 10, 2009

*Limitations and Conditions Continued:*

The limitations and conditions of Aircraft Specification No. A6CE apply except as listed below:

Engine (Front and Rear): Teledyne Continental TSIO-520-NB (See NOTE 1)

Engine Limits: Takeoff Power – 300 BHP (2 Minute limit), 38 inches HG. @ 2600 RPM  
Maximum Continuous Power – 225 BHP, 34 inches HG. @ 2200 RPM

Propeller: Front: Hartzell PHC –G3YF-2UF/FC7663DB-2R  
Rear: Hartzell PHC-13YF-2AL/FLC7663DF-2R

Propeller Blade angle at 30 inch Station:

Front: Low 14.3°, Feathered 80.5°  
Rear: Low 16.2°, Feathered 80.5°

Propeller Diameter:

Front: Maximum – 76 inches, Minimum – 75 inches  
Rear: Maximum – 76 inches, Minimum – 75 inches

Airspeed Limits:  $V_y$  (Single engine) 95KIAS (110 MPH)

**NOTE 1:** Installation of Teledyne Continental (TSIO-520-NB engine requires modification of the Induction system in accordance with Supplemental Type Certificate (STC) No. SE00081LA. The cylinder head temperature thermistors must be installed on cylinder head Nos. 2 (front engine) and 3 (rear engine).

**NOTE 2:** The maximum allowable electrical current of the alternators are 40 amps (front) and 40 amps (rear).

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*Limitations and Conditions Continued:*

**NOTE 3:** Approval of this modification requires installation of Horton STOL-Craft wing leading edge cuffs per STC No. SA937CE, Woodward Type II propeller synchrophaser system per STC No. SA20GL, and Riley inflatable door seal per STC No. SA5017NM.

**NOTE 4:** The following optional equipment has been determined to be compatible with this modification:

- 1) Riley air conditioner installed in accordance with Riley MDL RAC33793, Revision C dated November 30, 1994, or later FAA approved revision.
- 2) S-TEC system 65 autopilot per STC SA7203SW-D
- 3) Shadin fuel flow system per STCs SA638GL and SE444GL.

**NOTE 5:** The following Riley International Corporation Airplane Flight Manual (AFM) Supplements (Supplemental AFMs) are required as part of this installation:

- 1) FAA Approved Supplemental Airplane Flight Manual for Cessna Pressurized Skymaster Model T337G, Serial Numbers 667 and P3370001 thru P3370225 except P3370196, Document No. R337100, dated May 8, 1995, or later FAA approved revision.
- 2) FAA Approved Supplemental Airplane Flight Manual for Cessna Pressurized Skymaster Model T337G, Serial Numbers P3370226 thru P3370292, and Model P337H, Serial Numbers P3370293 thru P3370318 Document No. R337200 dated May 8, 1995, or later FAA approved revision.
- 3) Pilots Operating Handbook and FAA Approved Airplane Flight Manual Supplement for Cessna Pressurized Skymaster P337H, Serial Numbers P3370319 and Up, including P3370196, Document No. R337300, dated May 8, 1995, or later FAA approved revision.

**NOTE 6:** The Maintenance Instructions for Continued Airworthiness have been reviewed by the FAA Aircraft Evaluation Group and are contained in Riley International Corporation Service Manual, 1973 thru 1980 Cessna Model 337 Pressurized Series, Revision N/C dated December 20, 1994.

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**NOTE 7:** Noise characteristics: This modification was determined not to increase the noise level and was not considered an “acoustical change” as defined in

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