

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

*Number* SA00769CH

*This certificate issued to*

Champion Aerospace LLC  
1230 Old Norris Road  
Liberty, SC 29657

*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 \* Regulations. \**

*Original Product--Type Certificate Number:* \* \*See attached FAA Approved Model List

*Make:* \* (AML) No. SA00769CH for list of approved engine

*Model:* \* models and applicable airworthiness regulations

*Description of Type Design Change:*

Installation of Champion Limited Authority Spark Advance Regulator (LASAR™) ignition system with Cylinder Head Temperature (CHT) monitoring capability on airframes with FAA approved installations of Textron Lycoming model IO-540, AEIO-540 and HIO-540 engines. The LASAR™ system must be installed on the engine in accordance with Unison Service letter listed on AML, or later FAA approved revision and STC SE00768CH.

*Limitations and Conditions:*

1. Compatibility of this design change with previously approved modifications must be determined by the installer.
2. CHT probe is required for all LASAR™ system aircraft installation.
3. Unison Flight Manual Supplement listed on the AML or later FAA approved revision is required for this installation.
4. Operation of LASAR™ system equipped engines requires a minimum grade of 100 Octane Av-Gas.
5. The LASAR™ system is armed and ready to fire at engine TDC when the ignition switch is in the "BOTH" or "START" position and the master switch is "ON". Forward and reverse movement of the propeller may trigger an ignition event.
6. A copy of this Certificate and AML No. SA00769CH dated October 21, 1997, or later FAA approved revision, must be maintained as part of the permanent records for the modified aircraft.
7. 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:* March 20, 1997

*Date reissued:* February 10, 2009

*Date of issuance:* October 21, 1997

*Date amended:*

*By direction of the Administrator*



*Original Signed By:* Thaddeus D. Krolicki, Jr

(Signature)

Thaddeus D. Krolicki, Jr.  
Manager, Propulsion Branch  
Chicago Aircraft Certification Office

(Title)

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