

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

*Number* SA01688WI

*This certificate issued to:*

A & L Aircraft Parts, Inc  
8300 E. 32<sup>nd</sup> St North  
Wichita, KS 67204

*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 3 of the Civil Air Regulations.*

*Original Product - Type Certificate Number:* 1A16  
*Make:* Allied AgCat  
*Model:* G-164, G-164A, G-164B

*Description of Type Design Change:*

Installation of Pratt & Whitney R-985-AN14B or R-985-AN1 engine modified for fuel injection per STC SE01651WI and JP Instruments EGT-701. Data required:

1. Radial Engines, Ltd., Master Drawing List Report REL1008-9 Revision IR, dated January 5, 2012; and
2. Radial Engines, Ltd., Airplane Flight Manual Supplement, dated August 8, 2012, or later FAA Approved revisions

*Limitations and Conditions:*

Approval of this change in type design applies to the above model aircraft only.  
Compatibility of this design change with previously approved modifications must be determined by the installer.

(See continuation sheets 3 and 4)

*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 26, 2011

*Date reissued:* March 12, 2014

*Date of issuance:* August 28, 2012

*Date amended:*

*By direction of the Administrator*



\_\_\_\_\_  
*Original signed by Tina Miller*  
(Signature)

Tina L. Miller  
Program Manager  
Wichita Aircraft Certification Office

\_\_\_\_\_  
(Title)

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional 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.

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**TRANSFER ENDORSEMENT**

Transfer the ownership of the Supplemental Type Certificate Number \_\_\_\_\_

to *(Name of transferee)* \_\_\_\_\_

*(Address of transfer)* \_\_\_\_\_

*(Number and street)*

\_\_\_\_\_  
*(City, State, and Zip code)*

from *(Name of grantor) (Print or type)* \_\_\_\_\_

*(Address of grantor)* \_\_\_\_\_

*(Number and street)*

\_\_\_\_\_  
*(City, State, and Zip code)*

Extent of Authority (if licensing agreement): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Date of Transfer: \_\_\_\_\_

Signature of grantor *(In ink)*: \_\_\_\_\_

# Supplemental Type Certificate

## (Continuation Sheet)

*Number* SA01688WI

Date of Issuance: August 28, 2012

Date Reissued: March 12, 2014

*Limitations and Conditions* (continued from page 1):

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.

The conditions and limitations of Type Certificate Data Sheet No. 1A16 apply except where superseded by the following:

The STC SA01688WI Continuation Sheet prescribes the conditions and limitations under which the product, for which the STC was issued, meets the airworthiness requirements of the Civil Air Regulations. A copy of this STC is required to be maintained as part of the permanent records for the modified aircraft.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: Radial Engines, Ltd

I. Model G-164, 1 POLB or PCLB (Restricted Agricultural Category) – as modified by STC SA01688WI

Engine: Pratt & Whitney R-985-AN14B or R-985-AN1 fuel injected

Engine Limits: Maximum Fuel Flow 50 GPH

Minimum Fuel Pressure 14 psi

Maximum Fuel Pressure 50 psi

Maximum Cylinder Head Temperature 500°F (260°C)

II. Model G-164A, 1 PCLB (Restricted Agricultural Category) – as modified by STC SA01688WI

Engine: Pratt & Whitney R-985-AN14B or R-985-AN1 fuel injected

Engine Limits: Maximum Fuel Flow 50 GPH

Minimum Fuel Pressure 14 psi

Maximum Fuel Pressure 50 psi

Maximum Cylinder Head Temperature 500°F (260°C)

# Supplemental Type Certificate

(Continuation Sheet)

*Number* SA01688WI

Date of Issuance: August 28, 2012

Date Reissued: March 12, 2014

*Limitations and Conditions* (continued from page 3):

- III. Model G-164B, 1 PCLB (Restricted Agricultural Category) – as modified by STC SA01688WI  
Model G-164B (with 73" wing gap) - 1 PCLB (Restricted Agricultural Category) – as modified by STC SA01688WI

Engine:	Pratt & Whitney R-985-AN14B or R-985-AN1, fuel injected	
Engine Limits:	Maximum Fuel Flow	50 GPH
	Minimum Fuel Pressure	14 psi
	Maximum Fuel Pressure	50 psi
	Maximum Cylinder Head Temperature	500°F (260°C)

All Models

Placards: The following placard must be installed next to the fuel flow meter in the cockpit:

**“Maximum Fuel Flow: 50 GPH”**

**“EGT-701 MAY NOT BE USED TO SUBSTITUTE FOR ANY  
EXISTING COCKPIT ENGINE PERFORMANCE GAUGE”**

The following placard shall replace the existing “Carburetor Heat” placard:

**“INDUCTION HEAT”**

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