

DepartmentofTransportation_FederalAviationAdministration

Supplemental Type Certificate

Number SA01168SE

This certificate, issued to: **Aviation Research Systems, Inc.
42313 SE Oral Hull Road
Sandy, OR 97055**

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 03 of the Civil Air Regulations.

Original Product—Type Certificate Number A-777
Make: Beech Aircraft Company
Model: A-35, B-35, C-35, D-35, E-35, F-35, G-35

Description of the Type Design Change: Installation of Teledyne Continental E225-8 engine modified in accordance with STC SE01167SE per Aviation Research Systems, Inc. Document ARS100035-AFM, Revision A, dated November 3, 2002, or later FAA approved revision to this document, and an Hartzell Model HC-A2X20-4A1 or HC-A2V20-4A1 propeller.

Limitations and Conditions: Any airplane modified in accordance with this STC is to be operated as a normal category airplane.

The following limitations are applied to operation of the modified engine:

Takeoff (One Minute): 225 hp, 2650 rpm, 24.3 in Hg MAP
Maximum Continuous Operation: 185 hp, 2300 rpm, 18.4 in Hg MAP
Fuel: 100 LL minimum grade aviation fuel.

Approval of this change in type design applies to the above model airplane only. This approval should not be extended to other airplanes of these models on which other previously approved modifications are incorporated unless it is determined by the installer that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that airplane. A copy of this Certificate and Airplane Flight Manual Supplement, dated October 12, 2007, must be maintained as part of the permanent records for the modified engine.

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: November 11, 1997 *Date reissued:* October 23, 2003
Date of issuance January 30, 2003 *Date amended:* October 16, 2007



By direction of the Administrator

(Signature)
Acting Manager, Seattle 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.

This certificate may be transferred in accordance with FAR 21.47.