

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

**Number** SA00735LA

This Certificate issued to MICHAEL ADAMSON  
3695 Avalon Street #30  
Riverside, California 92509

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 3\* of the Civil Air Regulations. \*as amended May 15, 1956 (see continuation Page 3)

Original Product Type Certificate Number : 3A15  
: Raytheon Aircraft Company  
Make : 35-A33, Serial Number CD-334  
Model :

**Description of Type Design Change:** Installation of Teledyne Continental Motors O-470-M engine modified by STC SE00736LA in accordance with Michael Adamson Installation Instructions, Beech Model 35-A33, Manual #1 Revision N/C, dated January 4, 1999, or later FAA approved revisions. Michael Adamson Airplane Flight Manual Supplement #1 dated February 23, 1999, or later FAA approved revision, is required with this installation.

**Limitations and Conditions:** The approval of this modification in type design applies to the above listed airplane only. This approval should not be extended to other aircraft of this model. Installation of Teledyne Continental Motors O-470-M is permitted only when modified in accordance with STC SE00736LA. A copy of this STC ( SA00735LA), Michael Adamson, Installation Instructions Manual #1 along with FAA Form 337 approved August 29, 1997, describing work accomplished on nose bowl shall be maintained as part of the permanent maintenance records of the modified aircraft. It is the responsibility of the installer to determine that the interrelationship between this change and any previously approved modifications will introduce no adverse affect on the airworthiness of the aircraft. (Limitations continued on Page 3)

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 : April 21, 1997

Date reissued :

Date of issuance : March 19, 1999

Date amended :



By direction of the Administrator

\_\_\_\_\_  
Rejean Chartier (Signature)  
Manager, Propulsion Branch  
Los Angeles 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.

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**NOTE:**

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Limitations and Conditions Continued:

I - Model Raytheon Aircraft Company Model 35-A33 serial number CD-334 as modified by STC SA00735LA

Engine: Continental O-470-M as modified by STC SE00736LA

Fuel: 91/96 Octane Minimum Grade, Aviation Gasoline

Engine Limits: Takeoff and maximum continuous operation (sea level and higher)  
225 HP @ 2600 RPM, 27.3 in. H<sub>g</sub> maximum manifold pressure  
Oil Capacity 10 qts.

Propeller & Propeller Accessories: McCauley Constant Speed. No other propellers permitted.

- (a) Model 2A36C23/84B-0  
Diameter: Not over 84 in.  
Not under 82 in.  
Pitch settings at 30 in. sta: Low  $12.0^{\circ} \pm .2^{\circ}$   
High  $29.2^{\circ} \pm .5^{\circ}$
- (b) Woodward governor 210452 or A210680
- (c) McCauley D3290A spinner assembly

Powerplant Instrument Markings:

Manifold Pressure: 27.3 in. H<sub>g</sub> maximum at sea level (Red Radial)  
15 to 27.3 in. H<sub>g</sub> Normal Operating (Green Arc)

Cylinder Head Temperature: (bayonet thermocouple)  
460°F maximum (Red Radial)  
200° - 460°F Normal Operating (Green Arc)  
(Measured at #5 cylinder)

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## (Continuation Sheet)

Limitations and Conditions Continued:

Required Equipment: The following Michael Adamson FAA Approved Airplane Flight Manual Supplement No. 1 dated February 23, 1999, or later FAA approved revision to Beechcraft Model 35-A33 Serial CD-334 Registration N538T

Certification Basis: This modification also complies with the following Federal Aviation Regulations §§ 23.33, 23.371, 23.943, 23.1529.

NOTE 1: Current weight and balance report including list of equipment included in certificated empty weight, and loading instructions when necessary must be in aircraft.

NOTE 2: The following information shall be provided to the pilot in the form of permanent placards or markings:

- a. At the oil filler cap: "Oil 10 qts"
- b. At the fuel tank filler openings: "Fuel - 91/96 Minimum Octane Grade Av. Gas"

NOTE 3: Noise Characteristics: This modification was determined not to increase the noise level and was not considered an "acoustic change" as defined in § 21.93(b), Amendment 21.75 of the Federal Aviation Regulations.

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