

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

Number SA2657WE

This certificate issued to RAYJAY Parts LLC
10 Harbor Island Drive
Key Largo, Florida 33037

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 Regulation with amendments 23-1 through 23-6 thereto.

Original Product -- Type Certificate Number: A17CE
Make : Evangel-Air
Model : 4500-300, 4500-300 Series II

Description of Type Design Change: Installation of turbocharged Lycoming IO-540-K1B5 engines in accordance with FAA sealed Roto-Master (Rajay) Drawing List No. RJ4500, or later FAA Approved revision.

Limitations and Conditions: This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will produce no adverse affect upon the airworthiness of that airplane. 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 limitations and conditions of Data Sheet A17CE apply except as outlined on page 3 of this STC.

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: January 11, 1972

Date of issuance : March 8, 1973

Date reissued : Feb. 10, 1982; Oct. 30, 1987;
Sept. 22, 1995; Dec. 19, 2003;
July 3, 2006

Date amended : March 21, 1985

By direction of the Administrator



(Signature)

Melvin D. Taylor, Manager
Atlanta 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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(Continuation Sheet)

Number SA2657WE

Limitations and Conditions: Continued

The following limitations must be observed in the operation of this airplane.

Engines: Two Roto-Master (Rajay) Turbocharged Lycoming Model IO-540-K1B5

Engines Limits: Normal – Continuous – Full Throttle – 2700 RPM
Turbocharged – Continuous – Full Throttle – 2700 RPM

Use wide open throttle for turbocharged operation except as noted in Normal Operating Procedures.

Airspeed Limits – Reduce V_{ne} 5 mph per 1000 feet above 17,500 ft.

Maximum operating altitude – 25,000 feet.

Maximum Weight and C.G. Limits –

Maximum Weight – 5700 Lbs.

C. G. Range – 102.7" to 107.9" at 5700 Lbs.

99.5 to 107.9 at 4150 Lbs. And below

Straight line variation between these points.

Note: It is the responsibility of the operator to determine the airplane is properly loaded.

Placards – In clean view of the pilot.

FOR EMERGENCY DESCENT – IDLE POWER, GEAR UP, IAS 200MPH REDUCE V_{ne} 5 MPH PER 1000 FEET ABOVE 17,500 FEET.

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