

United States of America
Department of Transportation -- Federal Aviation Administration

Supplemental Type Certificate

Number SE14WE

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 13 of the Civil Air Regulations.

Original Product -- Type Certificate Number 1E12
Make : Lycoming
Model : IO-320-A1A, B1A, B1B, C1A, LIO-320-B1A, C1A

Description of Type Design Change: Installation of one Rajay Turbocharger P/N RJ 0325, RJ 0326, RJ 0326-1, or RJ 0326-2 on Lycoming Engine Models IO-320-A1A, B1A, B1B, and C1A in accordance with Rajay Drawing RJ 0699 or LIO-320-B1A and C1A in accordance with Rajay Drawing RJ 0699.

Limitations and Conditions: This approval covers engine/turbocharger compatibility only. 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. See page 3 for Engine Operating Limitations.

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, 1964

Date of issuance : September 16, 1964

Date reissued : Jan. 14, 1969; Feb. 10, 1982;
Oct. 30, 1987; Sept. 22, 1995;
Sept. 29, 2003; June 26, 2006

Date amended : 10/13/64; 5/12/65; 9/28/66;
7/30/68; 9/30/69



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)
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ENGINE OPERATING LIMITATIONS

Where applicable, the following engine limitations supersede those specified on Engine Type Certificate Data Sheet 1E12:

Engine Speed (Turbocharged)

Takeoff	2700 RPM (5 minutes)
Max. Cont.	2600 RPM

Manifold Pressure (Turbocharged)

Takeoff	29.5" HgA (5 minutes)
Max. Cont.	28.0" HgA

Fuel: Minimum grade Aviation gasoline 100/130 Octane

Engine and Turbocharger Operation:

Do not operate the turbocharger unless the throttle is wide open. When increasing power, fully open the throttle, then slowly close the wastegate until desired manifold pressure is obtained. When decreasing power, fully open wastegate, then close the throttle.