

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

Number SE51WE

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 as amended to June 15, 1956 and 13-1, 13-2, 13-3, and 13-4.

Original Product-Type Certificate Number : 1E15
Make : Avco Lycoming
Model : IO-720-A1A, IO-720-A1B

Description of Type Design Change: Installation of two (2) Roto-Master (Rajay) P/N 600573-00 (RJ0326, RJ0326-1) or 600576-00 (RJ0326-2) (or any combination thereof) Turbochargers on Avco Lycoming Model IO-720-A1A and IO-720-A1B engines in accordance with Roto-Master (Rajay) Drawing RJ0999 or later FAA approved revision .

Limitations and Conditions: This approval applies only to Turbocharger/engine compatibility. The limitations and conditions of FAA Type Certificate Data Sheet 1E15 apply, except as supplemented on continuation sheet 3 of this certificate. This approval should not be extended to other aircraft of this model on which other previously approved modification 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.

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 2, 1970

Date reissued : Feb. 10, 1982; Oct. 30, 1987; Sept. 22, 1995
Dec.19, 2003; June 26, 2006

Date of issuance: May 27, 1971

Date amended : Jan. 18, 1974; 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.

United States of America
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Supplementation Type Certificate
(Continuation Sheet)
Number SE51WE

March 21, 1985

OPERATING LIMITATIONS WITH TURBOCHARGER ASSISTANCE

<u>CONDITION</u>	<u>INTAKE MANIFOLD PRESSURE</u>	<u>ENGINE SPEED</u>
T.O. (3 Min).	28.5 in. HgA	2650 RPM
M.C.	27.0 in HgA	2500 RPM

NOTES:

1. Maximum air throttle inlet temperature, 210° F.
2. Maximum cylinder exhaust pressure, 34.0 in. Hg A.
3. Do not operate the turbochargers unless the engine throttle is full open. When increasing power, fully open engine throttle, then slowly close the exhaust wastegate until the desired intake manifold pressure is obtained. When decreasing power, fully open exhaust wastegate, then close engine throttle.