

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

Supplemental Type Certificate

Number SE154SO

This certificate issued to RAJAY 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: E-286
Make : Lycoming
Model : O-360-A1A or O-360-A1D

Description of Type Design Change: Installation of one Rotor-Master turbocharger P/N's 600573-00 (RJ0326-1, RJ0326) or 600576-00 (RJ0326-2, RJ0325) in accordance with FAA sealed Rotor-Master (formerly Riley Aeronautics Corporation or Rajay Industries, Inc.) Drawing List No. R00389, dated September 9, 1965, and/or later FAA-Approved sealed revision.

Limitations and Conditions: 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 Continuation Sheet.

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 : July 28, 1965

Date reissued : 07/15/66; 01/14/69; 10/23/87;
12/24/03; 06/16/05; 06/26/06

Date of issuance : September 9, 1965

Date amended : 11/01/65; 02/17/67; 07/30/68
02/20/69; 02/10/82; 02/14/85



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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Limitations and Conditions: (Continued)

This approval covers engine-turbocharger compatibility only. The approval of this change in type design applies to the basic Lycoming O-360 series engines noted above. This approval should not be extended to other specific engines of these models on which other previously approved modifications are incorporated unless it is first determined that the interrelationship between this change and any previously approved modifications will have no adverse effect on the airworthiness of those engines. See attached Supplemental Type Certificate SE154SO Addendum, which is part of this certificate, for applicable operating limitations.

OPERATING LIMITATIONS

The limitations prescribed in FAA engine Type Certificate Data Sheet No. E-286 and Lycoming Specification No. 2169-F are applicable except as noted below:

| Operation | Altitude | MAP | RPM |
|---------------------|------------------------|------|------|
| | Normal Operation | | |
| T.O. (180 HP) | S.L. | F.T. | 2700 |
| Max. cont. (180 HP) | S.L. | F.T. | 2700 |
| | Turbocharged Operation | | |
| T.O. (3 Minutes) | 3500 to 12,000 | 28.5 | 2700 |
| Max. cont. | 3500 to 20,000 | 28.0 | 2600 |
| Max. cont. | 20,000 to 25,000 | 25.0 | 2500 |

Maximum allowable carburetor air temperature –238 ° F

Throttle must be wide open prior to and during turbocharger operation. Waste gates must be fully open prior to moving throttles from wide-open position.

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