

United States of America
Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate
Number SA2937WE

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 therefore as specified hereon meets the airworthiness requirements of Part 23 of the Federal Aviation Regulations. Including Amendments 23-1 through 23-6 thereto.

Original Product -- Type Certificate Number A7SO
Make : Piper
Model : PA-34-200

Description of Type Design Change: Installation of Turbocharged Lycoming IO/LIO-360-C1E6 engines in accordance with FAA sealed Rajay Drawing List No. RJ 0900B, dated September 13, 1974, or later FAA approved revision.

Limitations and Conditions: The limitations and conditions of Data Sheet A7SO apply except as outlined on page 3 of this STC. A copy of this STC must be included in the permanent records of each airplane modified in accordance with this STC. 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.

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 : March 23, 1974

Date of issuance : October 22, 1974

Date reissued : Jan. 12, 1978; Feb. 10, 1982;
Oct. 30, 1987; Sept. 22, 1995;
Nov. 12, 2003; July 3, 2006

Date amended : March 31, 1978



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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Supplemental Type Certificate

(Continuation Sheet)

Number SA2937WE

February 10, 2982

Limitation and Conditions:

Engines	1 Lycoming IO-360-C1E6 (left side) 1 Lycoming LIO-360-C1E6 (right side) Engines must incorporate fuel injectors, Lycoming P/N LW-12586, and turbosuperchargers in accordance with STC SE32WE.
Engine Limits	For all unsupercharged operations, 2700 RPM, Full throttle (200 HP) For all Turbosupercharged operations 2700 RPM 28.5 MAP, 3500 to 20,000 feet 2700 RPM 25.0 MAP, 20,000 to 25,000 feet.
Airspeed Limits	Never exceed (V_{NE}) 217 MPH (188 knots) sea level to 19,200 feet Reduce V_{NE} 5MPH (4.3 knots) per 1000 feet above 19,200 feet.
Maximum Operating Altitude	25,000 feet
Airplane Flight Manual	The FAA Approved Rajay Airplane Flight Manual dated October 22, 1974, is required with this installation.
Limitation of Applicability basic	The approval of this change in type design applies to the PA-34-200 aircraft that is otherwise unmodified. It should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any previously approved modification will introduce no adverse effect upon the airworthiness of those aircraft.

NOTE: The applicant has demonstrated voluntary compliance with the induction heat rise recommendations contained in the letter of May 21, 1970, from the FAA Southern Region to Piper Aircraft Corporation.

