

PA309-NST

**INSTRUCTIONS FOR INSTALLATION OF
HARTZELL HC-E2YL-2B(L)SF/F(J)7663-6Q PROPELLERS
ON PIPER PA-30 AND PA-39 (TWIN COMANCHE) AIRCRAFT**

STC SA557GL

LOG OF REVISIONS

<u>Revision Number</u>	<u>Revised Pages</u>	<u>Description of Revision</u>	<u>Date</u>
A	2	Removed "for Piper PA-30 model airplane" And "for Piper PA-39 model airplane" from Item 4.	March 12, 2004

NOTE: All changes are indicated by a black vertical line along the left margin.

FAA Approved _____ Date _____

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**INSTRUCTIONS FOR INSTALLATION OF
HARTZELL HC-E2YL-2B(L)SF/F(J)7663-6Q PROPELLERS
ON PIPER PA-30 AND PA-39 (TWIN COMANCHE) AIRCRAFT**

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1. Remove original propellers and spinners.
2. Install new propellers and spinners in accordance with Hartzell Manual 115().
NOTE: For aircraft with counter-rotating engines the HC-E2YL-2BSF/F7663-6Q propeller is installed on the left side of the aircraft. The HC-E2YL-2BLSF/FJ7663-6Q propeller is installed on the right side of the aircraft.
3. Attach Hartzell Propeller Inc. Airplane Flight Manual Supplement PA309-AFMS to existing Piper Airplane Flight Manual.
4. Revise weight and balance records to show the removal of the original propeller and spinner (using data provided in the Airplane Flight Manual Equipment List) and the addition of the following equipment:

Propeller, two Hartzell HC-E2YL-2BSF/F7663-6Q (right hand rotation), and,

Spinner, two Hartzell D5749P for Piper PA-30 Model Airplane.

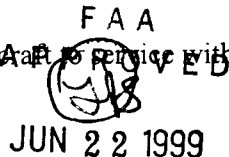
Or,

Propeller, one Hartzell HC-E2YL-2BSF/F7663-6Q (right hand rotation), and,
one Hartzell HC-E2YL-2BLSF/FJ7663-6Q (left hand rotation)

Spinner, one Hartzell D5749P and one D5749LP for Piper PA-39 Model Airplane.

Note: The weight increase relative to the original type-certificated propellers and spinners is 0.5 pounds per propeller and 0.5 pounds per spinner (same moment arm).

5. Return aircraft to service with FAA Form 337 referencing STC.

F A A

 JUN 22 1999

FAA Approved _____ Date _____

CHICAGO AIRCRAFT
 CERTIFICATION OFFICE
 CENTRAL REGION
 Telephone: 937.778.4200 Fax: 937.778.4321

AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATIONS

MAKE Piper	MODEL NO. PA-30, PA-39	TYPE (Airplane, Fixed, Helicopter, etc.) Airplane	NAME OF APPLICANT Hartzell Propeller Inc.
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LIST OF DATA

IDENTIFICATION	TITLE
HP309-NST Revision A, dated March 12, 2004	Instructions for Installation of a Hartzell HC-E3YL-2B(L)SF/F(J)7663-6Q Propellers on Piper PA-30 & PA-39 (Twin Comanche) Aircraft END

**FEDERAL AVIATION ADMINISTRATION
 CHICAGO AIRCRAFT CERTIFICATION OFFICE**

Acknowledges receipt
 Accepts DER/DQA/DAS FAA Approval
 Approves DER Recommendation

Title: SENIOR Proj. ENGR Initials: [Signature] Date: 06/01/2004
 Manager, ACE: 118C

PURPOSE OF DATA
 To support amendment of STC SA557GL Installation Instructions

APPLICABLE REQUIREMENTS (List specific sections)
 CAR 3.411(b)

CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under Part 183 of the Federal Aviation Regulations, data listed above and on attached sheets numbered XXX have been examined in accordance with established procedures and found to comply with applicable requirements of the Federal Aviation Regulations.

I (XX) therefore Recommend approval of these data
 Approve these data

SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)	DESIGNATION NUMBER(S)	CLASSIFICATION(S)
<u>[Signature]</u> Brian E. Meyer	DERY-405128-CE	Power Plant Installation; Flight Analyst

W/ID
 3/2/04 8001-3 B. MEYER

8111-1 Hartzell STC No. SA557GL