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App:		INSTRUCTIONS FOR CONTINUED AIRWORTHINESS	Make/Model: Extra / EA 300/L

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
FOR
EXTRA MODEL EA 300/L AIRCRAFT
EQUIPPED WITH
HARTZELL MODEL HC-C3YR-4BN/NC8302-7 PROPELLER

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NOTES:

These Instructions for Continued Airworthiness do not incorporate a list of effective pages. Each page will indicate the latest revision letter to the entire document. The revision letter and date will be indicated on the upper left-hand side of each page.

A vertical bar along the right-hand margin will indicate the latest revision(s) to the affected pages of this document.

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LOG OF REVISIONS

Revision	Description	Date	Engineer
IR	Initial Release	9-21-20	J. Sledge

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CHAPTER 01 INTRODUCTION

01-00-00 GENERAL

This document outlines the compliance with 14 CFR 23.1529 "Instructions for Continued Airworthiness" for Installation of a Hartzell model HC-C3YR-4BN/NC8302-7 propeller on the Extra model EA 300/L in accordance with STC number SA AC.

The Hartzell model HC-C3YR-4BN/NC8302-7 propeller is for use with the Lycoming AEIO-540-L1B5 and AEIO-540-L1B5D engines only. It is not certified for installation on aircraft equipped with the Lycoming model AEIO-580-B1A engine.

The Hartzell model number HC-C3YR-4BN/NC8302-7 is a three-blade, constant-speed, counterweighted, aerobatic propeller that is constructed of an aluminum hub and composite blades. If oil pressure is lost at any time, the blade mounted counterweights will move the blades to high pitch to avoid propeller overspeeding.

The following documents (latest approved revision) form a part of this ICA and should be referenced when installing, removing or performing maintenance on the Hartzell propeller.

Reference Documents

Author	Document Number	Document Title
Jack Sledge, LLC	3101	Installation Instructions for Composite Hartzell Propeller
Hartzell Propeller, Inc.	145	Propeller Owner's Manual "Compact Models with Composite Blades"

CHAPTER 03 GENERAL DESCRIPTION

03-10-04 POWERPLANT

PROPELLER

Manufacturer.....Hartzell Propeller, Inc.
 Model.....HC-C3YR-4BN/NC8302-7
 Maximum Blade Diameter.....78.0 inches
(No cutoff permitted)

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Blade Angle Limits (measured at 30 inch blade station)
 Low Pitch.....10.1 ° ± 0.2°
 High Pitch.....31.0° ± 1.0°

CHAPTER 04 AIRWORTHINESS LIMITATIONS

Airworthiness Limitations

NOTE: The Airworthiness Limitations section is FAA approved and specifies maintenance required under Parts 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

There are no new airworthiness limitations associated with the installation of this new propeller.

CHAPTER 05 TIME LIMITS / MAINTENANCE CHECKS

05-10-02 OVERHAUL SCHEDULE

Items shown here must be overhauled at the times indicated:

Item	Overhaul Period
Propeller	Refer to Hartzell Service Letter HC-SL-61-61() latest approved revision for Overhaul Periods.
Hartzell HC-C3YR-4BN/NC8302-7	

05-20-04 MAINTENANCE CHECKS SCHEDULE

The propeller periodic inspections and maintenance are to be performed in accordance with the Hartzell Propeller Owner's Manual no. 145 using the sections titled "Inspections and Check" and "Maintenance Practices".

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CHAPTER 20 STANDARD PRACTICES - AIRFRAME

20-10-04 SPECIAL TORQUE VALUES

The fastener torque values for the new Hartzell propeller and spinner installation are shown in the Hartzell Propeller Owner's Manual no. 145 in the "Installation and Removal" section. Use installation instructions for installation of "R flange" propellers in manual 145.

CHAPTER 61 PROPELLER

61-00-00 GENERAL

The Hartzell propeller utilizes an aluminum hub and three composite blades (made from carbon fiber with a foam core). For more information on description and operation consult Hartzell Owner's Manual no. 145 in the "Description and Operation" section and specifically the paragraphs titled "Counterweighted, Aerobatic ()HC-()Y()-4()".

61-10-00 PROPELLER

Refer to Jack Sledge, LLC drawing number 3101 and Hartzell Propeller Owner's Manual 145, Installation and Removal, Section 4C, Installation of "R" Flange Propellers, for procedures on installing and removing the new propeller and spinner.

Refer to Hartzell Propeller Owner's Manual 145, Testing and Troubleshooting section for operational tests and troubleshooting procedures of the Hartzell propeller.