



<b>BY:</b> Jack L. Sledge	<b>DATE:</b> 9/21/20	<b>JACK SLEDGE, LLC</b>  1703 ARCILLA STREET AUSTIN, TEXAS 78741	<b>DRAWING NO.:</b> 3101
<b>APPROVED:</b>			<b>REVISION:</b> A
<b>PAGE:</b> 1 of 2		<b>TITLE:</b> <u>Installation Instructions for Hartzell Composite Propeller</u>	<b>MAKE/MODEL:</b> Extra / EA 300/L

Log of Revisions

<u>Revision Letter</u>	<u>Revision Date</u>	<u>Change Description</u>	<u>Approval</u>
IR	6/10/20	Initial Release	
A	9/21/20	Step 4 – Changed Low Pitch Blade Angle, was 12.0°.	

Installation Instructions

- 1) The following reference material is required in addition to the installation instructions outlined herein:
  - Extra document number EA-06702 Service Manual, latest FAA approved revision.
  - Hartzell Propeller Owner’s Manual no. 145, latest FAA approved revision.
- 2) Installation Eligibility: The Hartzell composite propeller and spinner(s) listed below are approved for installation on the Extra model EA 300/L in combination with the engines shown in Table 1 below. Note: If aircraft is equipped with the Textron Lycoming model AEIO-580-B1A (or any other engine not listed below), it is not eligible for this new propeller installation.

<b>Aircraft Model</b>	<b>Engine Make/Model</b>	<b>Propeller Make/Model</b>	<b>Spinner Assy Model Number</b>
EA 300/L	Lycoming AEIO-540-L1B5 AEIO-540-L1B5D	Hartzell HC-C3YR-4BN/NC8302-7	107554( ) Aircraft S/N 01-1199  107507( ) Aircraft S/N 1200 and Up

Table 1  
Approved Engine/Propeller Combinations

- 3) The diameter limits for the Hartzell model number HC-C3YR-4BN/NC8302-7 propeller on this aircraft is:
  - Maximum Diameter: 78.0 inches, no cutoff allowed.
- 4) The blade angle limits for the Hartzell composite propeller is:
  - Low Pitch Blade Angle (measured at 30 inch blade station): 10.1° ± 0.2°
  - High Pitch Blade Angle (measured at 30 inch blade station): 31.0° ± 1.0°
- 5) These instructions outline the procedures for removing the existing propeller and installing the Hartzell model number HC-C3YR-4BN/NC8302-7 propeller in accordance with Supplemental Type Certificate number SA AC.

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- 6) Remove the existing propeller and spinner in accordance with the aircraft service manual referenced above in step 1.
- 7) Perform the pre-installation procedures on the new propeller in accordance with Hartzell Owner's Manual 145 in the "Installation and Removal" section. Note: This propeller is a -4 style propeller which does not have an air charge.
- 8) Install the spinner bulkhead on the new propeller hub in accordance with Hartzell Owner's Manual 145 using the procedures found in the Spinner Pre-Installation subsection of the "Installation and Removal" section.
- 9) Install the new Hartzell propeller on the aircraft in accordance with Hartzell Owner's Manual 145 "Installation and Removal" section. Use installation instructions for Installation of "R" Flange Propellers in Manual 145.
- 10) Install the Hartzell spinner dome on the propeller in accordance with Hartzell Owner's Manual 145 using the procedures found in the Spinner Installation subsection of the "Installation and Removal" section. Note: Use the procedures for a Single Piece Spinner Dome.
- 11) If the existing tachometer instrument is not marked per the markings below, remove it in accordance with the aircraft service manual referenced above in Step 1 and remark it as follows:
 

Green Arc:     \*700 to 2400 RPM                     \*or lower limit of tach scale, whichever is greater.  
 Yellow Arc:    2400 to 2700 RPM  
 Red Radial:    2700 RPM
- 12) Perform a ground run-up, leak check and idle rpm check. Adjust engine idle speed, if necessary to achieve 650-750 rpm at idle in accordance with the aircraft service manual listed above in Step 1.
- 13) Re-install engine cowling in accordance with the aircraft service manual referenced above in step 1.
- 14) The weight and center of gravity of the new composite Hartzell propeller and spinner is shown in Table 2 below:

Propeller Model	Weight (lbs)	C.G. (inches)
HC-C3YR-4BN/NC8302-7	69	-42.8

Table 2  
Propeller Weight and C.G.

Update the aircraft empty weight and balance records to reflect the removal of the existing propeller and spinner and the installation of the new Hartzell composite propeller and spinner.

- 15) Insert the Jack Sledge, LLC "FAA Approved Airplane Flight Manual Supplement", report number 55237-3 in Section 9 of the existing POH/AFM.
- 16) Complete FAA form 337 and return the aircraft to service.