

**HARTZELL PROPELLER INC.**  
**SERVICE LETTER**  
**HC-SL-61-278**  
**Propeller - Spare Parts Release**

1. Planning Information

A. Effectivity

- (1) Hartzell ( )HC-( )( )Y( )-1( ) aluminum hub compact propeller that use the B-3359 and the B-3599 self-locking nuts to secure the A-2421 low pitch stop set screw are affected by this Service Letter.

B. Reason

- (1) Hartzell has received reports from the field of oil leakage occurring from around the A-2421 low pitch stop set screw with the use of the the B-3599 self-locking nut.
- (2) The A-2043-1 self-locking nut provides greater sealing than the B-3359 or the B-3599 self-locking nuts.

C. Description

- (1) This Service Letter introduces the A-2043-1 self-locking nut for use with the A-2421 or the 102472 low pitch stop set screw. The A-2043-1 self-locking nut supersedes the B-3359 and the B-3599 self-locking nuts when used to secure the low pitch stop set screw. Hartzell Service Letter HC-SL-61-244 stated that the B-3599 self-locking nut supersedes the B-3359 self-locking nut.
- (2) The A-2043-1 self-locking nut is taller than the B-3359 and the B-3599 self-locking nut.
- (3) This Service Letter introduces the 102472 low pitch stop set screw. The 102472 low pitch stop set screw supersedes the A-2421 low pitch stop set screw.
- (4) Refer to the Accomplishment Instructions section of this Service Letter for usage of the A-2043-1 self-locking nut and the 102472 low pitch stop set screw.
- (5) The B-3359 and the B-3599 self-locking nuts have continued usage in other locations on Hartzell propellers.
- (6) Existing inventory of the A-2421 low pitch stop set screws may be used until depleted.
- (7) The A-2043-1 self-locking nut and the 102472 low pitch stop set screws will be incorporated as a supersedure into the appropriate Illustrated Parts lists at next revision.

D. Approval

- (1) FAA approval has been obtained on technical data in this publication that affects type design.

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E. Compliance

- (1) When replacement of the B-3359, the B-3599 or A-2043-1 self-locking nut, or the A-2421 or the 102472 low pitch stop set screw is required, refer to the Accomplishment Instructions in this Service Letter.

F. References

- (1) Hartzell Service Letter HC-SL-61-244

G. Other Publications Affected

- (1) Hartzell Compact Non-Feathering (-1) and Aerobatic (-4) Propeller Overhaul and Maintenance Manual 113B (61-10-13)
- (2) Hartzell Service Letter HC-SL-61-244

2. Material Information

A. Material affected for each propeller assembly.

<u>New P/N</u>	<u>Keyword</u>	<u>Superseded P/N</u>	<u>Qty.</u>
A-2043-1	Self-Locking Nut	B-3359	1
A-2043-1	Self-Locking Nut	B-3599	1
102472	Low Pitch Stop Set Screw	A-2421-( )	1

3. Accomplishment Instructions

A. If leaking occurs when using the B-3359 or the B-3599 self-locking nut, install the A-2043-1 self-locking nut.

- (1) If the number of exposed threads beyond the A-2043-1 self-lock nut is less than two, replace the A-2421 low pitch stop set screw with the 102472 low pitch stop set screw.

B. If the A-2043-1 self-locking nut is used with the A-2421 low pitch stop set screw, visually inspect for a minimum of two threads exposed.

- (1) If the exposed threads are less than two,
  - (a) Replace the A-2421-( ) low pitch stop set screw with the 102472 low pitch stop set screw.  
  
or  
  
Replace the A-2043-1 self-locking nut with a B-3359 or B-3599 self-locking nut.

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- C. The torque value for the A-2043-1 self-locking nut, when used with the A-2421 or the 102472 low pitch stop set screw is the same as the torque value for the B-3359 or the B-3599 self-locking nut.
- D. As inventory is depleted, Hartzell will incorporate the A-2043-1 self-locking nut and the 102472 low pitch stop set screw.