

HARTZELL PROPELLER INC.
SERVICE LETTER
HC-SL-61-354
Propeller - Lubrication Fittings

1. Planning Information

A. Effectivity

- (1) All Hartzell Propeller Inc. aluminum hub propellers are affected by this Service Letter, except as specified in 1.A.(1)(a).
 - (a) Propellers that have been modified to the oil-filled configuration in accordance with Hartzell Propeller Inc. Service Letter HC-SL-61-273 are not affected by this Service Letter.

WARNING: DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS SERVICE LETTER. INFORMATION CONTAINED IN THIS SERVICE LETTER MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO COMPLY WITH THIS SERVICE LETTER OR THE USE OF OBSOLETE INFORMATION MAY CREATE AN UNSAFE CONDITION THAT MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR SUBSTANTIAL PROPERTY DAMAGE. REFER TO THE SERVICE LETTER INDEX FOR THE MOST RECENT REVISION LEVEL OF THIS SERVICE LETTER.

B. Concurrent Requirements

- (1) Additional service documents may apply to the components/propellers affected by this Service Letter. Compliance with additional service documents may be necessary in conjunction with the completion of the Accomplishment Instructions in this Service Letter. Refer to the Hartzell Propeller Inc. website at www.hartzellprop.com for a cross-reference of service documents.

C. Reason

- (1) Hartzell Propeller Inc. has received reports of the A-279 lubrication fittings on the affected propellers being difficult to remove and/or breaking off in the hub during removal.
 - (a) Hartzell Propeller Inc. has established a recommended procedure for installing the A-279 and C-6349 lubrication fittings to prevent overtightening.
- (2) Hartzell Propeller Inc. has developed guidelines to identify which hub lubrication fitting (engine-side or cylinder-side) to use when applying grease to the affected propellers.
 - (a) Applying grease to the wrong lubrication fitting may cause grease to enter the hub cavity when servicing.

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- (3) Based on the propeller type and application, Hartzell Propeller Inc. will begin manufacturing the aluminum hub propellers with lubrication hole plugs 106545 installed in the lubrication holes that are not used for applying grease to the propeller.
 - (a) In tests performed by Hartzell Propeller Inc., the lubrication hole plugs 106545 have been more resistant to cracking during removal and installation than the A-279 lubrication fittings.
 - (b) Hartzell Propeller Inc. will continue to install lubrication fittings A-279 or C-6349 in the lubrication holes that are used for applying grease to the propeller.

D. Description

- (1) This Service Letter provides Instructions for Continued Airworthiness (ICA).
- (2) This Service Letter provides instructions for installing the lubrication fittings A-279 and C-6349 in accordance with Hartzell Propeller Inc. recommendations.
- (3) This Service Letter provides information to identify which hub lubrication fitting (engine-side or cylinder-side) to use when applying grease to the affected propellers.
- (4) This Service Letter introduces the lubrication hole plug 106545 as a supersedure for the A-279 or C-6349 lubrication fitting in the lubrication hole that is not used for applying grease to the propeller.
 - (a) This Service Letter provides instructions to install the lubrication hole plug 106545.
 - (b) Installation of the lubrication hole plug 106545 before propeller overhaul is optional, but highly recommended by Hartzell Propeller Inc.

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E. Compliance

- (1) At next propeller overhaul, install lubrication hole plugs 106545 in the lubrication holes that are not used for applying grease to the propeller.
 - (a) Install the lubrication hole plugs 106545 in accordance with the Accomplishment Instructions in this Service Letter.

NOTE: Overhaul intervals are specified in Hartzell Propeller Inc. Service Letter HC-SL-61-61Y.

F. Approval

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

CAUTION: DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF A DOCUMENT.

J. References

- (1) Hartzell Propeller Inc. Compact and Lightweight Compact Non-Feathering (-1) and Aerobatic (-4) Propeller Overhaul and Maintenance Manual 113B (61-10-13)
- (2) Hartzell Propeller Inc. Compact Constant Speed and Feathering Propeller Overhaul and Maintenance Manual 117D (61-10-17)
- (3) Hartzell Propeller Inc. Four Blade Lightweight Turbine Propeller Overhaul Manual 141 (61-10-41)
- (4) Hartzell Propeller Inc. Four Blade Lightweight Turbine Propeller Overhaul Manual 142 (61-10-42)
- (5) Hartzell Propeller Inc. Four Blade Lightweight Turbine Propeller Maintenance Manual 143 (61-10-43)
- (6) Hartzell Propeller Inc. Instruction Manual for Series HC-A6A-3() Six-Blade Lightweight Turbine Propeller Overhaul Manual 144 (61-10-44)
- (7) Hartzell Propeller Inc. Three Blade Lightweight Turbine Propeller Maintenance Manual 155 (61-10-55)
- (8) Hartzell Propeller Inc. Instruction Manual for Series HC-E4P-5()/E11990K Inspection/Repair/Overhaul Manual 156A (61-10-56)

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- (9) Hartzell Propeller Inc. Five Blade Lightweight Turbine Propeller Overhaul Manual 157 (61-10-57)
- (10) Hartzell Propeller Inc. Five Blade Lightweight Turbine Propeller Overhaul Manual 158 (61-10-58)
- (11) Hartzell Propeller Inc. Operation and Line Maintenance Manual for Dual Acting Propeller and Propeller Control System Manual 160 (61-00-60)
- (12) Hartzell Propeller Inc. Maintenance Manual for HD-E6C-3() () Propeller Manual 161 (61-10-61)
- (13) Hartzell Propeller Inc. Raptor Series Turbine Propeller Overhaul Manual 496 (61-10-96)

K. Other Publications Affected

- (1) Hartzell Propeller Inc. Compact and Lightweight Compact Non-Feathering (-1) and Aerobatic (-4) Propeller Overhaul and Maintenance Manual 113B (61-10-13)
- (2) Hartzell Propeller Inc. Propeller Owner's Manual 115N (61-00-15)
"Compact" Models with Aluminum Blades
- (3) Hartzell Propeller Inc. Compact Constant Speed and Feathering Propeller Overhaul and Maintenance Manual 117D (61-10-17)
- (4) Hartzell Propeller Inc. Propeller Owner's Manual 131 (61-00-31)
- (5) Hartzell Propeller Inc. Propeller Owner's Manual 136 (61-00-36)
- (6) Hartzell Propeller Inc. Four Blade Lightweight Turbine Propeller Overhaul Manual 141 (61-10-41)
- (7) Hartzell Propeller Inc. Four Blade Lightweight Turbine Propeller Overhaul Manual 142 (61-10-42)
- (8) Hartzell Propeller Inc. Four Blade Lightweight Turbine Propeller Maintenance Manual 143 (61-10-43)
- (9) Hartzell Propeller Inc. Instruction Manual for Series HC-A6A-3() Six-Blade Lightweight Turbine Propeller Overhaul Manual 144 (61-10-44)
- (10) Hartzell Propeller Inc. Propeller Owner's Manual 145 (61-00-45)
"Compact" and "Lightweight Compact" Models with Composite Blades
- (11) Hartzell Propeller Inc. Propeller Owner's Manual 147 (61-00-47)
- (12) Hartzell Propeller Inc. Propeller Owner's Manual 149 (61-00-49)

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- (13) Hartzell Propeller Inc. Propeller Owner's Manual 154 (61-00-54)
- (14) Hartzell Propeller Inc. Three Blade Lightweight Turbine Propeller Maintenance Manual 155 (61-10-55)
- (15) Hartzell Propeller Inc. Instruction Manual for Series HC-E4P-5()/E11990K Inspection/Repair/Overhaul Manual 156A (61-10-56)
- (16) Hartzell Propeller Inc. Five Blade Lightweight Turbine Propeller Overhaul Manual 157 (61-10-57)
- (17) Hartzell Propeller Inc. Five Blade Lightweight Turbine Propeller Overhaul Manual 158 (61-10-58)
- (18) Hartzell Propeller Inc. Operation and Line Maintenance Manual for Dual Acting Propeller and Propeller Control System Manual 160 (61-00-60)
- (19) Hartzell Propeller Inc. Maintenance Manual for HD-E6C-3()() Propeller Manual 161 (61-10-61)
- (20) Hartzell Propeller Inc. Illustrated Parts Catalog For Dual-Acting Propeller and Propeller Control System Manual 164B (61-00-64)
- (21) Hartzell Propeller Inc. Standard Practices Manual 202A (61-01-02)
- (22) Hartzell Propeller Inc. Propeller Owner's Manual 486 (61-00-86)
- (23) Hartzell Propeller Inc. Raptor Series Turbine Propeller Overhaul Manual 496 (61-10-96)

2. Material Information

A. Material Necessary for Each Propeller/Component

<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
106545	Plug, Lubrication Hole	AR

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3. Accomplishment Instructions

A. Installing the Lubrication Fittings A-279 and C-6349

- (1) Install the lubrication fitting A-279 or C-6349 in accordance with the applicable Hartzell Propeller Inc. Owner's Manual or Overhaul Manual, except tighten the lubrication fitting as follows:
 - (a) Install the lubrication fitting A-279 or C-6349 in the hub until it is finger-tight, then tighten one additional 360 degree turn.

B. Guidelines for Applying Grease to the Lubrication Fittings and Location of the Lubrication Hole Plugs 106545

- (1) For all tractor or pusher propellers with clockwise (standard) rotation when viewed from BEHIND the aircraft - except HC-A6()-3()() and HD-E6C-3()():
 - (a) Apply grease to the lubrication fitting that is in the ENGINE-SIDE hub half.
 - 1 Replace the lubrication fittings A-279 or C-6349 in the CYLINDER-SIDE hub half with lubrication hole plugs 106545 in accordance with section 3.C. in this Service Letter.
- (2) For all tractor or pusher propellers with counter-clockwise (backward) rotation when viewed from BEHIND the aircraft:
 - (a) Apply grease to the lubrication fitting that is in the CYLINDER-SIDE hub half.
 - 1 Replace the lubrication fittings A-279 or C-6349 in the ENGINE-SIDE hub half with lubrication hole plugs 106545 in accordance with section 3.C. in this Service Letter.
- (3) For HC-A6()-3()() and HD-E6C-3()() propellers:
 - (a) Apply grease to the lubrication fitting that is in the CYLINDER-SIDE hub half.
 - 1 Replace the A-279 or C-6349 lubrication fittings in the ENGINE-SIDE hub half with lubrication hole plugs 106545 in accordance with section 3.C. in this Service Letter.

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C. Installing the Lubrication Hole Plugs 106545

- (1) To determine which lubrication hole (engine-side or cylinder-side) to install the lubrication hole plugs 106545, refer to section 3.B. in this Service Letter.
- (2) Install the lubrication hole plugs 106545 in accordance with the instructions for installing the lubrication fittings A-279 or C-6349 in the applicable Hartzell Propeller Inc. Owner's Manual or Overhaul Manual, except tighten the lubrication hole plugs 106545 as follows:
 - (a) Install the lubrication hole plug 106545 in the hub until it is finger-tight, then tighten one additional 360 degree turn.

D. Instructions for Continued Airworthiness

- (1) Lubrication hole pugs 106545 must be replaced at propeller overhaul in accordance with the section 3.C. in this Service Letter.

NOTE: Overhaul intervals are specified in Hartzell Propeller Inc. Service Letter HC-SL-61-61Y.

E. Contact Information

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