MITSUBISHI HEAVY INDUSTRIES AMERICA INC.

MITSUBISHI SERVICE PUBLICATIONS TRANSMITTAL

The attached Mitsubishi MU-2B series Service Publication has been issued by Mitsubishi Heavy Industries, Ltd. in Japan, who is the type certificate holder of the MU-2 aircraft. It is the owner and/or operator's responsibility to adhere to or comply with new information contained in the attached publication.

SL 119
SL 092/72-042
FAA SAIB 2023-04 Propeller Assembly

NOTE

THIS PUBLICATION IS PRINTED AND/OR DISTRIBUTED BY MITSUBISHI HEAVY INDUSTRIES AMERICA, INC., UNDER LICENSE FROM MITSUBISHI HEAVY INDUSTRIES LTD. FOR COMMENTS OR INQUIRIES REGARDING DISTRIBUTION OF THIS PUBLICATION OR RECEIPT OF ANY OF THE PUBLICATIONS LISTED HEREIN, PLEASE CONTACT:

Mitsubishi Heavy Industries America, Inc.
Aircraft Product Support Division
17304 Preston Road, Suite 1270
Dallas, Texas 75252
USA

Email: mu-2support@mhia.com

THIS PAGE INTENTIONALLY LEFT BLANK

MU–2

SERVICE LETTER

MITSUBISHI HEAVY INDUSTRIES, LTD.
NAGOYA AEROSPACE SYSTEMS WORKS
10 OYE-CHO, MINATO-KU, NAGOYA, JAPAN

JCAB T.C.: No. 119
FAA T.C.: No. 092/72-042

DATE: March 17, 2023

SUBJECT: FAA SAIB 2023-04 – Propeller Assembly

MODELS AFFECTED: All MU-2B series aircraft

This Mitsubishi Heavy Industries, Ltd. (MHI) Service Letter is issued to ensure that all MU-2 owners and operators have received the Federal Aviation Administration (FAA) Special Airworthiness Information Bulletin (SAIB), 2023-04, dated March 15, 2023, and Hartzell Propeller, Inc. Alert Service Bulletin No. HC-ASB-61-402, dated March 8, 2023.

This SAIB addresses a potential airworthiness concern involving certain Hartzell propeller blades that were maintained or overhaled by Trinity Specialized Services, LLC that did not follow the current manufacturer's maintenance manual or method acceptable to the FAA, installed parts that were not purchased from or traceable to an approved source, and allowed unqualified personnel to perform certain nondestructive inspections, shot peening, and cold compression rolling of the blades. It is possible that some of these propeller blades have been installed on MU-2 airplanes.

Recommendations to the operators from this SAIB include:
The FAA recommends that owners, operators, and maintainers of Hartzell constant speed propellers which were returned to service by Trinity Specialized Services, LLC between January 29, 2016 and March 25, 2021 have their propeller overhauled or inspected for airworthiness by an authorized repair station.

Hartzell Propeller, Inc. issued the attached Alert Service Bulletin No. HC-ASB-61-402, dated March 8, 2023, addressing the same potential airworthiness concern that provides additional details regarding applicability and recommended actions.

JCAB T.C.: No.119 DATE: March 17, 2023
FAA T.C.: No.092/72-042

If you have any questions, please contact MHIA or one of Mitsubishi MU-2 Authorized Service Centers.

Mitsubishi Heavy Industries America, Inc.
Aircraft Product Support Division
17304 Preston Road, Suite 1270, Dallas, Texas 75252
Email: mu-2support@mhia.com | Website: www.mu-2aircraft.com

FAA
Aviation Safety

SPECIAL AIRWORTHINESS INFORMATION BULLETIN

SAIB: 2023-04
SUBJ: PROPELLER ASSEMBLY **Date:** March 15, 2023

This is information only. Recommendations aren't mandatory.

Introduction

The Federal Aviation Administration (FAA) is issuing this Special Airworthiness Information Bulletin (SAIB) to alert owners, operators, maintenance technicians, and inspectors of an airworthiness concern for **Hartzell Propeller Inc. (Hartzell) and McCauley Propeller Systems (McCauley) propellers,** specifically, those returned to service by Trinity Specialized Services, LLC (Trinity) doing business as Specialized Propeller Services, LLC.

At this time, the airworthiness concern is not an unsafe condition that would warrant airworthiness directive (AD) action under Title 14 of the Code of Federal Regulations (14 CFR) part 39.

Background

The FAA determined that Trinity did not maintain Hartzell and McCauley propellers in accordance with the current manufacturer's maintenance manual or methods otherwise acceptable to the administrator and improperly returned propellers to service between the dates of January 29, 2016 and March 25, 2021. The following improper maintenance or overhaul practices were identified and may affect airworthiness of the propeller:

- Trinity approved return to service propellers that were not maintained in accordance with the current manufacturer's maintenance manual or methods otherwise acceptable to the administrator.
- Trinity used parts that were not purchased from or traceable to an approved source.
- Trinity allowed unqualified personnel to perform nondestructive inspections, shot peening, and cold compression rolling of Hartzell propeller blades.

To date, the FAA has not received any in-fleet safety reports or failures related to Trinity return to service propellers, however, these discrepancies may affect the continued reliable operation of the propeller and related systems.

Recommendations

The FAA recommends owners, operators, and maintainers of Hartzell and McCauley constant speed propellers which were returned to service by Trinity Specialized Services, LLC between January 29, 2016 and March 25, 2021 have their propeller overhauled or inspected for airworthiness by an authorized repair station holding a certificate issued by the FAA under Title 14 CFR Part 145.

The FAA also recommends that any discrepancies which are found to be related to this safety issue be reported to one of the FAA contacts listed below and through the service difficulty reporting system. The FAA will continue to monitor the situation to determine if further action is warranted.

A federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a currently valid OMB Control Number. The OMB Control Number for this information collection is 2120-0731. Public reporting for this collection of information is estimated to be approximately one hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, completing and reviewing the collection of information. All responses to this collection of information are voluntary; the nature and extent of confidentiality to be provided, if any. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to: Information Collection Clearance Officer, Federal Aviation Administration, 10101 Hillwood Parkway, Fort Worth, TX 76177-1524.

For Further Information Contact

Tim Luckey, Program Manager, Chicago Aircraft Certification Office (AIR-7C3), Compliance & Airworthiness Division at Timothy.F.Luckey@faa.gov

Bobbie Kroetch, Continued Operational Safety Program Manager, Program Management Section (AIR-722), Compliance & Airworthiness Division at Bobbie.Kroetch@faa.gov

Kristi Bradley, General Aviation Safety Coordinator, Fleet Safety Section (AIR-723), Compliance and Airworthiness Division at Kristin.Bradley@faa.gov

HARTZELL PROPELLER INC.

ALERT SERVICE BULLETIN

HC-ASB-61-402

Trinity Specialized Services/Mid America Propeller

1. Planning Information

   A. Effectivity

      (1) All Hartzell Propeller Inc. propellers that were overhauled and returned to service by Trinity Specialized Services, Mid America Propeller, or Specialized Propeller Services, LLC between January 29, 2016 and March 25, 2021 are affected by this Alert Service Bulletin.

         (a) Trinity Specialized Services
         400 Killian Lake Rd.
         Mountain View, AR 72560

         (b) Mid America Propeller
         400 Killian Lake Rd.
         Mountain View, AR 72560

         (c) Specialized Propeller Services, LLC
         400 Killian Lake Rd.
         Mountain View, AR 72560

   WARNING: DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS ALERT SERVICE BULLETIN. INFORMATION CONTAINED IN THIS ALERT SERVICE BULLETIN MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO COMPLY WITH THIS ALERT SERVICE BULLETIN 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 BULLETIN INDEX FOR THE MOST RECENT REVISION LEVEL OF THIS ALERT SERVICE BULLETIN.

   B. Concurrent Requirements

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

© 2023 - Hartzell Propeller Inc. - All rights reserved

C. Reason

(1) Following an investigation by the FAA, Hartzell was notified that Trinity Specialized Services/Mid America Propeller/Specialized Propeller Services, LLC allegedly used non-compliant maintenance procedures and processes when overhauling and/or servicing Hartzell propellers during the affected time period.

D. Description

(1) This Alert Service Bulletin provides Instructions for Continued Airworthiness (ICA).

(2) This Alert Service Bulletin provides instructions for overhauling the affected propellers.

E. Compliance

(1) Within 10 flight hours or 60 calendar days from the release date of this Alert Service Bulletin, whichever occurs first, overhaul the affected propeller in accordance with the Accomplishment Instructions section of this Alert Service Bulletin.

F. Approval

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

G. Weight and Balance

(1) Not changed

H. Electrical Load Data

(1) Not changed

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

I. References

(1) Applicable Hartzell Propeller Inc. propeller owner's manuals

(2) Applicable Hartzell Propeller Inc. overhaul manuals

J. Other Publications Affected

(1) None

2. Material Information

A. Components Required for Compliance

(1) Refer to the applicable Hartzell Propeller Inc. overhaul manual for a list of components required for propeller overhaul.

3. Accomplishment Instructions

A. Propeller Overhaul

(1) Remove the propeller from the aircraft in accordance with the applicable Hartzell Propeller Inc. propeller owner's manual.

CAUTION: PROPELLER OVERHAUL MUST BE PERFORMED BY A CERTIFIED PROPELLER REPAIR STATION WITH THE APPROPRIATE RATING.

(2) Overhaul the propeller in accordance with the applicable Hartzell Propeller Inc. propeller overhaul manual.

(3) Install the propeller on the aircraft in accordance with the applicable Hartzell Propeller Inc. propeller owner's manual.

(4) Make an entry in the propeller logbook indicating compliance with this Alert Service Bulletin.

B. Recommended Service Facilities

(1) Hartzell Propeller Inc. has a worldwide network of Recommended Service Facilities for overhaul and repair of our products.

(2) Each service facility must meet standard FAA requirements and additional Hartzell Propeller requirements before being recommended by Hartzell Propeller Inc. Each service facility is audited by Hartzell Propeller Inc. to verify the continuation of the standards.

(3) Hartzell Propeller Inc. recommends that you use one of these service facilities when having your propeller overhauled or repaired.

(4) For a current list of Hartzell Propeller Inc. Recommended Service Facilities, contact Hartzell Propeller Inc. Product Support or refer to the Hartzell Propeller Inc. website at www.hartzellprop.com.

(5) For a list of repair facilities that have been evaluated and approved by Hartzell Propeller Inc. to perform special process (shot peen, cold roll, etc) on Hartzell propeller components, refer to the "Sample Program Approvals" page on the Hartzell website at www.hartzellprop.com.

C. Contact Information

(1) Email, fax, or mail the compliance form to:

Hartzell Propeller Inc.
Attn: Hartzell Propeller Inc. Product Support
One Propeller Place
Piqua, OH 45356 USA
Phone: 937.778.4379
Fax: 937.778.4215 (Intl. 001.937.778.4215)
Email: techsupport@hartzellprop.com