

HARTZELL PROPELLER INC.
SERVICE BULLETIN
TRANSMITTAL SHEET
HC-SB-61-355

Propeller - Introduction of Daher-Socata Strake for TBM700

February 13, 2015

This page transmits a revision to Service Bulletin HC-SB-61-355.

- Original Issue, dated Jul 10/14
- Revision 1, Sep 03/14
- Revision 2, Feb 13/15

Propeller assemblies that have previously complied with the strake installation in a previous revision of this Service Bulletin are affected.

Changes are shown by a change bar in the left margin of the revised pages.

Revision 2 is issued to change the following in the Service Bulletin:

- This revision revises the Effectivity section
- This revision adds the strake removal procedure

This Service Bulletin is reissued in its entirety.

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1. Planning Information

A. Effectivity

- (1) Hartzell Propeller Inc. STC number SA03291CH is affected by this Service Bulletin.
 - (a) The affected STC applies to Hartzell Propeller Inc. lightweight turbine propellers HC-E5N-3C/NC8834K installed on Daher-Socata TBM700(A,B,C1,C2,N) aircraft.

WARNING: DO NOT USE OBSOLETE OR OUTDATED INFORMATION.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

B. Concurrent Requirements

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

C. Reason

- (1) Daher-Socata has introduced a strake for the affected aircraft that should be installed to enhance the flying qualities of the aircraft at low airspeeds.
 - (a) Daher-Socata Service Bulletin SB70-214-53 provides detailed material and accomplishment instructions for installing the strake on the affected aircraft.
 - (b) This Hartzell Propeller Inc. Service Bulletin provides instructions for positioning the strake on affected aircraft equipped with a Hartzell Propeller Inc. 5-blade propeller model HC-E5N-3C.
- (2) Regulatory action is not expected.

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D. Description

- (1) This Service Bulletin provides instructions for positioning the Daher-Socata strake on affected aircraft equipped with a Hartzell Propeller Inc. 5-blade propeller model HC-E5N-3C.
 - (a) This Service Bulletin must be used in conjunction with Daher-Socata Service Bulletin SB70-214-53.
- (2) Daher-Socata will support the costs associated with the installation of the strake when performed in accordance with this Service Bulletin and Daher-Socata Service Bulletin SB70-214-53.
 - (a) Refer to Daher-Socata Service Bulletin SB70-214-53 for parts information and allowable man-hours.

E. Compliance

- (1) Installation of the Daher-Socata strake on the TBM700 is highly recommended, but optional. The strake must be repositioned as follows:
 - (a) If a Hartzell Propeller Inc. 5-blade propeller model HC-E5N-3C is installed on an affected aircraft that has had the strake previously installed and positioned for another propeller, examine the location of the strake.
 - 1 If the location of the strake does not match the location shown in Figure 1 in this Service Bulletin, the strake must be removed in accordance with the Accomplishment Instructions in this Hartzell Propeller Inc. Service Bulletin.
 - 2 Hartzell Propeller Inc. strongly recommends that the strake be repositioned and installed in accordance with the Accomplishment Instructions in this Hartzell Propeller Inc. Service Bulletin.
 - (b) If a Hartzell Propeller Inc. 4-blade propeller is installed on an affected aircraft that has had the strake previously installed and positioned for a Hartzell Propeller Inc. 5-blade propeller model HC-E5N-3C, the strake must be removed in accordance with the Accomplishment Instructions in this Hartzell Propeller Inc. Service Bulletin.
 - 1 Hartzell Propeller Inc. strongly recommends that the strake be repositioned and installed in accordance with Daher-Socata Service Bulletin SB70-214-53.

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F. Approval

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

G. Manpower

- (1) Refer to Daher-Socata Service Bulletin SB70-214-53

H. Weight and Balance

- (1) Not changed

I. Electrical Load Data

- (1) Not changed

J. Environmental Noise Level

- (1) Not changed

K. Aircraft Performance

- (1) Not changed

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L. References

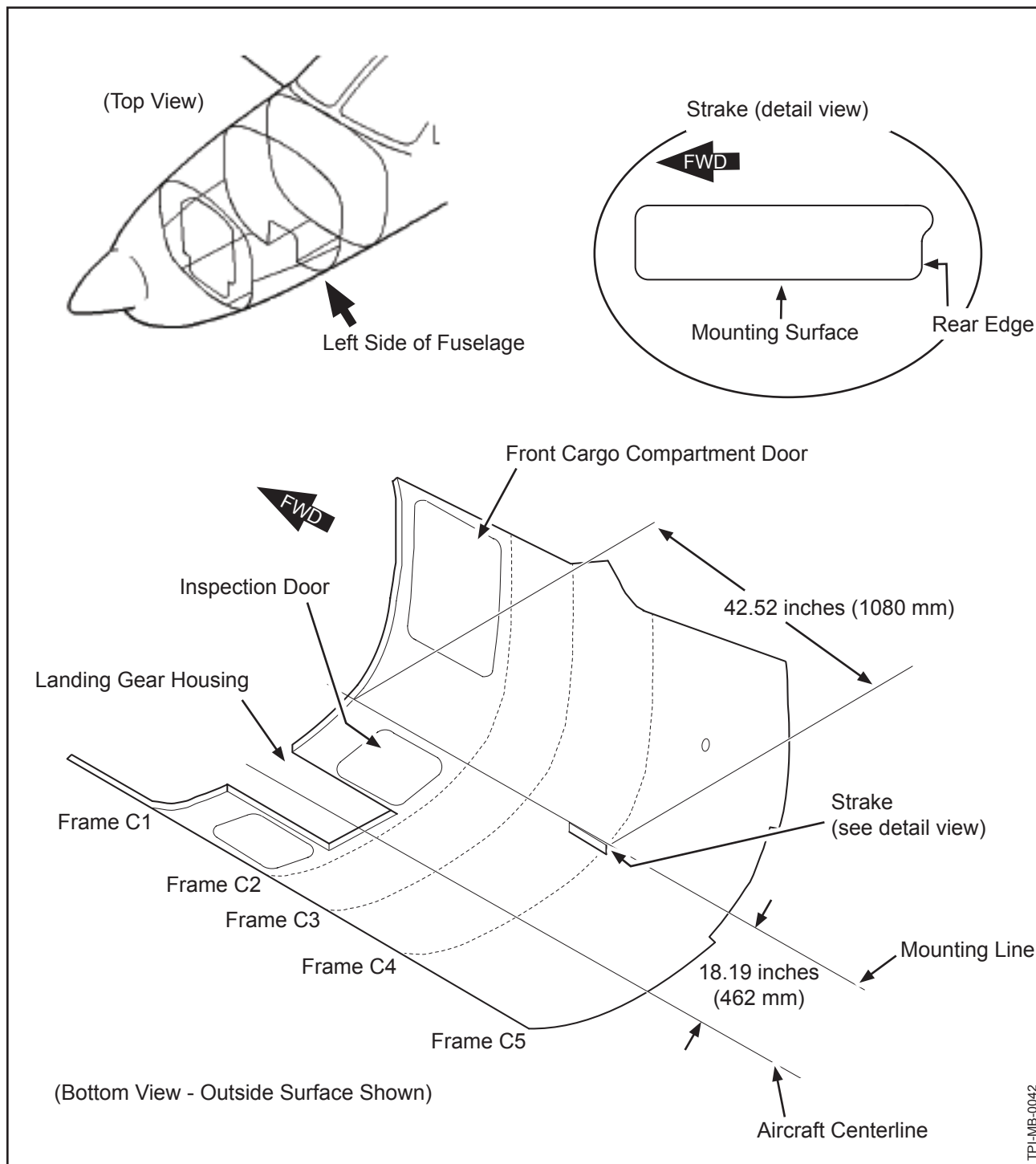
- (1) Daher-Socata Service Bulletin SB70-214-53
- (2) Daher-Socata Maintenance Manual 20-00-01
- (3) Daher-Socata Maintenance Manual 51-25-02
- (4) Daher-Socata Maintenance Manual 51-40-00

2. Material Information

- (1) Refer to Daher-Socata Service Bulletin SB70-214-53

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Positioning the Strake for 5-blade Propeller Model HC-E5N-3C
Figure 1

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3. Accomplishment Instructions

CAUTION: THE STRAKE POSITION IN THE DAHER-SOCATA SERVICE BULLETIN IS FOR AN AIRCRAFT WITH A 4-BLADED PROPELLER; HOWEVER, THE PREPARATION AND BONDING PROCEDURE IS THE SAME FOR 4-BLADED AND 5-BLADED PROPELLERS.

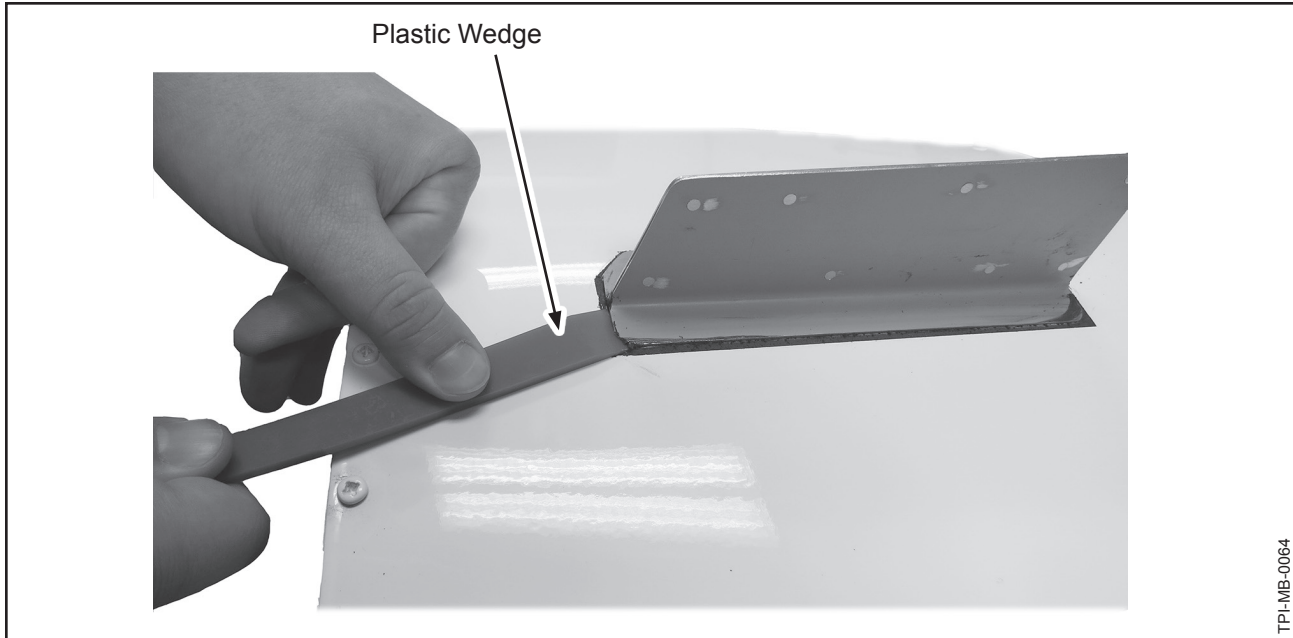
A. Installing the Strake

- (1) Prepare the aircraft for service in accordance with the Accomplishment Instructions in Daher-Socata Service Bulletin SB70-214-53.
- (2) Position the strake on the left side of the fuselage. Refer to Figure 1 in this Hartzell Propeller Inc. Service Bulletin.
 - (a) Draw the aircraft centerline between frame C1 and frame C5.
 - (b) Make a mark on the left side of the fuselage 18.19 inches (462 mm) from the aircraft centerline.
 - (c) Draw the mounting line parallel to the aircraft centerline at the 18.19 inch (462 mm) mark between frame C1 and frame C5.
 - (d) Put the mounting surface of the strake on the mounting line with the rear edge of the strake 42.52 inches (1080 mm) from frame C1.
 - (e) Draw around the outside edges of the strake to mark the mounting location.
- (3) Prepare the surface and bond the strake to the fuselage at the marked mounting location in accordance with the Accomplishment Instructions in Daher-Socata Service Bulletin SB70-214-53.
- (4) After installing the strake, make an appropriate maintenance record entry indicating compliance with this Hartzell Propeller Inc. Service Bulletin HC-SB-61-355 and Daher-Socata Service Bulletin SB70-214-53.

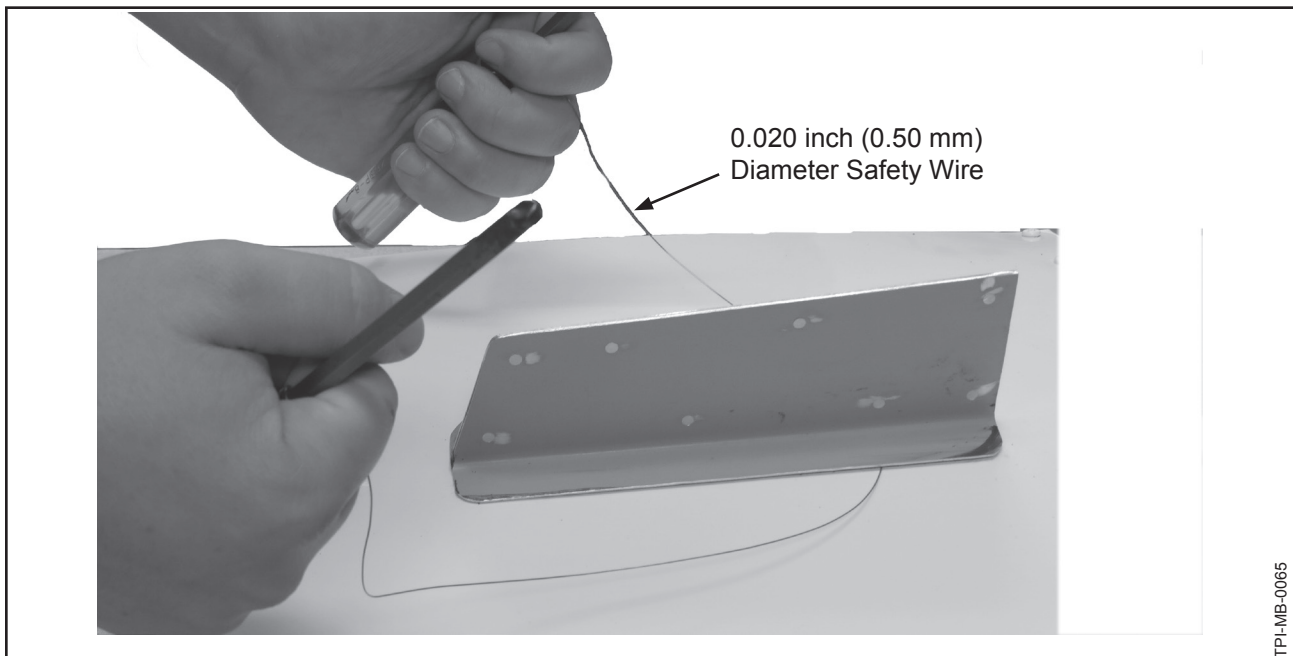
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Separate the Edges of the Strake with a Plastic Wedge
Figure 2



Cutting the Adhesive with Safety Wire
Figure 3

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B. Removing the Strake

- (1) Use a plastic wedge TE138 or equivalent to separate the edges of the strake from the fuselage. Refer to Figure 2.
 - (a) Push the plastic wedge into the adhesive under the strake to break the seal with the fuselage.
 - 1 Repeat step 3.B.(1)(a) around each side of the strake.
- (2) Cut through the adhesive to separate the strake from the fuselage.
 - (a) Slide a piece of 0.020 inch (0.50 mm) diameter safety wire between the strake and the fuselage as shown in Figure 3.
 - (b) Move the safety wire side-to-side while gently pulling the wire to cut through the adhesive securing the strake to the fuselage.
- (3) Remove the strake.

CAUTION: ADHESIVES AND SOLVENTS ARE FLAMMABLE AND TOXIC TO THE SKIN, EYES, AND RESPIRATORY TRACT. SKIN AND EYE PROTECTION ARE REQUIRED. AVOID PROLONGED CONTACT AND BREATHING OF VAPORS. USE SOLVENT RESISTANT GLOVES TO MINIMIZE SKIN CONTACT AND WEAR SAFETY GLASSES FOR EYE PROTECTION. USE IN A WELL VENTILATED AREA AWAY FROM SPARKS AND FLAME. READ AND OBSERVE ALL WARNING LABELS.

- (4) Using MEK CM106, clean the fuselage to remove the adhesive residue.
- (5) Visually examine the paint/varnish on the fuselage where the strake was removed.
 - (a) Apply paint/varnish as necessary in accordance with Daher-Socata Maintenance Manuals 51-25-02 and 20-00-01.
- (6) Visually check for loose rivets on the fuselage where the strake was removed.
 - (a) Replace loose rivets as necessary in accordance with Daher-Socata Maintenance Manual 51-40-00.

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C. Contact Information

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