



INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

FAA-STC SA10615SC

**Cessna Models TU206A, B, C, D, E, F, G
TP206A, B, C, D, E
T207A
T210F, G, H, J, K, L, M
With
Hartzell (P)HC-(C or J)3YF-1RF/F7693F(B)+2
Propeller**

Drawing 2643

March 3, 2006

Notice

This document must be referenced on Block 8 of FAA form 337 and added to the aircraft permanent record as required by 14 CFR Part 91, §91.417(a)(2)(vi) when the reference FAA-STC modification is accomplished on eligible aircraft. This document complies with the requirements of 14 CFR Part 23, §23.1529, in accordance with 14 CFR Part 23, Appendix G.

Aircraft Serial No. _____

Aircraft Registration No. _____

Log of Revisions

Rev.	Description	Date	Engineer
I.R.	Initial Release	03-03-2006	A. Jain

I. INTRODUCTION

This document provides instructions for continued airworthiness (ICA) for Cessna TP206A,B,C,D,E; TU206A,B,C,D,E,F,G; T207A, T210F,G,H,J,K,L,M and all models covered by RAM STC SA2782SW and SA2689SW Aircraft with Hartzell propeller (P)HC-(C or J)3YF-1RF/F7693F(B)+2 installed in accordance with RAM Aircraft, L.P. Supplemental Type Certificate (STC) SA10615SC.

Updates to this document are available through RAM's Customer Service Department or online as follows.

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II. DESCRIPTION

The STC is to install Hartzell propeller (P)HC-(C or J)3YF-1RF/F7693F(B)+2 on the Cessna TP206A,B,C,D,E; TU206A,B,C,D,E,F,G; T207A, T210F,G,H,J,K,L,M aircraft in place of the original McCauley D3A34C402/90DFA10 propeller:

III. SPECIAL PROCEDURES

None

IV. SERVICING INFORMATION

The following document should be followed for servicing and operation of Hartzell (P)HC-(C or J)3YF-1RF/F7693F(B)+2 propeller:

- FAA approved Hartzell Propeller Owners Manual & Logbook, Document No. 115N, dated April 2005, or later approved FAA revision.

The following document should be followed for servicing and operation of Hartzell part number 101773-1, de-ice boots:

- FAA approved Hartzell De-ice System Maintenance Manual, Document No. 180, dated July 2006, or later approved FAA revision.

V. MAINTENANCE INSTRUCTIONS

The following document shall be followed for Parts, Overhaul, and Maintenance of Hartzell (P)HC-(C or J)3YF-1RF/F7693F(B)+2 propeller:

- FAA approved Cessna 200 series parts manual.
- FAA approved Cessna 200 series service manual.
- FAA approved Hartzell Propeller Owners Manual & Logbook, Document No. 115N, dated April 2005, or later approved FAA revision.

The following document shall be followed for Parts, Overhaul, and Maintenance of Hartzell part number 101773-1, de-ice boots:

- FAA approved Cessna 200 series service manual.
- FAA approved Hartzell De-ice System Maintenance Manual, Document No. 180, dated July 2006, or later approved FAA revision.

VI. TROUBLESHOOTING

The following document should be followed for troubleshooting the installation of Hartzell (P)HC-(C or J)3YF-1RF/F7693F(B)+2 propeller:

- FAA approved Hartzell Propeller Owners Manual & Logbook, Document No. 115N, dated April 2005, or later approved FAA revision.
- FAA approved Cessna 200 series service manual.

The following document should be followed for troubleshooting the installation of Hartzell part number 101773-1, de-ice boots:

- FAA approved Hartzell De-ice System Maintenance Manual, Document No. 180, dated July 2006, or later approved FAA revision.
- FAA approved Cessna 200 series service manual.

VII. REMOVAL AND REPLACEMENT

The following document should be followed for removal and replacement of Hartzell (P)HC-(C or J)3YF-1RF/F7693F(B)+2 propeller:

- FAA approved Hartzell Propeller Owners Manual & Logbook, Document No. 115N, dated April 2005, or later approved FAA revision.
- FAA approved Cessna 200 series service manual.

The following document should be followed for removal and replacement of Hartzell part number 101773-1, de-ice boots:

- FAA approved Hartzell De-ice System Maintenance Manual, Document No. 180, dated July 2006, or later approved FAA revision.
- FAA approved Cessna 200 series service manual.

VIII. SPECIAL INSPECTION REQUIREMENTS

The following document should be followed for special inspection requirements of Hartzell (P)HC-(C or J)3YF-1RF/F7693F(B)+2 propeller:

- FAA approved Hartzell Propeller Owners Manual & Logbook, Document No. 115N, dated April 2005, or later approved FAA revision.

The following document should be followed for special inspection requirements of Hartzell part number 101773-1, de-ice boots:

- FAA approved Hartzell De-ice System Maintenance Manual, Document No. 180, dated July 2006, or later approved FAA revision.

IX. APPLICATION OF SPECIAL TREATMENTS

None

X. DATA

The following document should be followed for installation of Hartzell (P)HC-(C or J)3YF-1RF/F7693F(B)+2 propeller:

- FAA approved RAM Master Drawing No. 2640, Rev. B, dated August 15, 2006, or later approved FAA revision.

The following document should be followed for installation of Hartzell part number 101773-1, de-ice boots:

- FAA approved Hartzell Ice Protection Installation Drawing No. 101820, Revision C, dated February 2, 2007, or later approved FAA revision.

XI. SPECIAL TOOLS

None

XII. ADDITIONAL INFORMATION FOR COMMUTER CATEGORY AIRCRAFT

None

XIII. AIRWORTHINESS LIMITATIONS SECTION

Note: The airworthiness limitations section is FAA approved and specifies maintenance required under §§ 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

The operating limitations published in the basic Pilot's Operating Handbook and FAA Approved Airplane Flight Manual remains unchanged with the exception of the following:

ENGINE LIMITATIONS

Propellers:

- a. Number of Propellers: 1
- b. Manufacturer: Hartzell Propeller, Inc.
- c. Propeller Model Number: PHC-C3YF-1RF/F7693F(B)+2 *
PHC-J3YF-1RF/F7693F(B)+2 **
- d. Number of Blades: 3
- e. Diameter: Not over 80.0 inches and not less than 79.0 inches
- f. Blade Range: (measured at 30 in. blade station)
(1) Low Pitch: $14.0^{\circ} \pm 0.2^{\circ}$ High Pitch: $31.0^{\circ} \pm 1.0^{\circ}$
- g. Operating Limits:
(1) Do not operate above 2700 RPM propeller speed.

* PHC-C3YF-1RF/F7693F(B)+2 is eligible for installation on Cessna TU206A, TU206B, TU206C, TU206D, TU206E, TU206F, TP206A, T207A, and TU206A, B, C, D, E, F, TP206A covered under RAM STC SA2782SW.

** PHC-J3YF-1RF/F7693F(B)+2 is eligible for installation on Cessna TU206F, TU206G, TP206A, TP206B, TP206C, TP206D, TP206E, T210F, T210G, T210H, T210J, T210K, T210L, T210M, and TU206F, TP206A, B, C, D, E covered under STC SA2782SW and T210F, G, H, J, K, L covered under STC SA2689SW.

INSTRUMENT MARKINGS

- No Change -

PLACARDS

- No Change -

NOTE

Optional Propeller De-ice system is not approved for flight into known icing conditions.

The deice system is not certified for systems which may have 20-second cycle timer.