

PRATT & WHITNEY CANADA
SERVICE BULLETIN

P&WC S.B. No. 12221

BULLETIN INDEX LOCATOR
73-10-02

TURBOPROP ENGINE
FUEL PUMP - INSPECTION/REPLACEMENT OF

MODEL APPLICATION

PT6A-11, PT6A-11AG, PT6A-15AG, PT6A-110, PT6A-112, PT6A-121

Compliance: CATEGORY 5, 6

Summary: The Hamilton Sundstrand (HS) fuel pump has experienced coupling shaft spline wear over time. This has been addressed by increased recommended maintenance. Replace the HS fuel pump with one that is manufactured by Argotech that has improved durability and reduced maintenance requirements.

Dec 19/2014

PT6A-72-12221
Cover Sheet

24-Hour Global Service

CFIRST CENTRE

Toll free where available (SIL GEN-027)

USA & CANADA..... 1-800-268-8000

International (IAC*)+8000-268-8000

* International Access Code

Other..... 1-450-647-8000

Fax..... 1-450-647-2888

Web Site www.pwc.ca

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1. Planning Information

A. Effectivity

PT6A-11 Engines.
PT6A-11AG Engines.
PT6A-15AG Engines.
PT6A-110 Engines.
PT6A-112 Engines.
PT6A-121 Engines.

B. Concurrent Requirements

None.

C. Reason

(1) Problem

The HS fuel pump has experienced coupling shaft spline wear over time. This has been addressed by increased recommended maintenance.

(2) Cause

N/A.

(3) Solution

Replace the HS fuel pump with one that shows improved durability and reduces maintenance requirements.

D. Description

Remove the HS fuel pump and replace it with Argotech fuel pump that shows improved durability and reduces maintenance requirements.

E. Compliance

For Single Engine Applications:

CATEGORY 5 - P&WC recommends to do this service bulletin at next HSI, scheduled shop visit or overhaul from the date of issue of this service bulletin.

NOTE: This bulletin should be performed no later than Jan 01/2020

For All Other Applications:

CATEGORY 6 - P&WC recommends to do this service bulletin when the subassembly (i.e. module, accessories, components, or build groups) is disassembled and access is available to the necessary part. Do all spare subassemblies.

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1. Planning Information (Cont'd)

F. Approval

D.A.A. approved

G. Manpower

Once you have access to the part, an estimate of 1.0 man-hours is required to include this service bulletin at maintenance.

No more man-hours are necessary to include this service bulletin at overhaul.

H. Weight and Balance

None.

I. Electrical Load Data

Not changed.

J. Software Accomplishment Summary

Not applicable.

K. References

Illustrated Parts Catalog P/N 3030444 (PT6A-11, PT6A-11AG, PT6A-15AG, PT6A-110, PT6A-112, PT6A-121)

Maintenance Manual P/N 3030442 (PT6A-11, PT6A-11AG, PT6A-15AG, PT6A-110, PT6A-112, PT6A-121)

Overhaul Manual P/N 3030443 (PT6A-11, PT6A-11AG, PT6A-15AG, PT6A-110, PT6A-112, PT6A-121)

L. Publications Affected

None.

M. Interchangeability and Intermixability of Parts

Interchangeability - Refer to Para. 2.C.

Intermixability - Not changed.

2. Material Information

A. Industry Support Information

Not applicable.

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2. Material Information (Cont'd)

B. Material - Cost and Availability

You can get the procurable parts listed in Para. 2.C. from any Pratt & Whitney Canada Parts Distribution Center.

The estimated total cost of new parts needed to replace old parts is \$Quote (US, 2014).

The new parts are available.

C. Material Necessary for Each Engine

The quantity of materials listed in this section is on a per Engine basis.

| <u>New P/N</u> | <u>Keyword</u> | <u>Old P/N</u> | <u>Qty</u> | <u>Est. Unit List Price (\$US, 2014)</u> | <u>Instructions Disposition</u> |
|------------------------------------|--------------------|----------------|------------|--|---------------------------------|
| Standard Replacement Parts: | | | | | |
| 3039937 | Gasket | 3039937 | 1 | 8.73 | (A) |
| 3014227 | Preformed, Packing | 3014227 | 1 | 12.80 | (A) |
| AS3209-114 | Preformed, Packing | AS3209-114 | 1 | 1.99 | (A) |

(A) Standard replacement part. Latest at the time of issue.

D. Reidentified Parts

None.

E. Tooling - Price and Availability

Not applicable.

3. Accomplishment Instructions

A. Verify fuel pump installed on engine:

- (1) If Argotech fuel pump P/N 3034792 (Supplier P/N 702800, Supplier (59875)) is installed on the engine, go to Step G.
- (2) If HS fuel pump P/N 3031791 (Supplier P/N 025323-150, Supplier Code (99167)) or prior part number as per IPC, is installed on the engine go to Step B.

B. Remove the HS fuel pump P/N 3031791 (Supplier P/N 025323-150, Supplier Code (99167)) or prior in accordance with the applicable maintenance or overhaul manual instructions:

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3. Accomplishment Instructions (Cont'd)

- Refer to MM Chapter 73-10-02 FUEL PUMP - MAINTENANCE PRACTICES
- Refer to OHM Chapter 73-10-02 FUEL PUMP - DISASSEMBLY

C. Forward HS fuel pump to:

Pratt & Whitney Component Solutions Inc.
4905 Stariha Drive
Muskegon MI 49441
USA

REF: P&WC S.B. 12221

D. Install new Argotech fuel pump P/N 3034792 (Supplier P/N 702800, Supplier (59875)) in accordance with the applicable maintenance or overhaul manual instructions:

- Refer to MM Chapter 73-10-02 FUEL PUMP - MAINTENANCE PRACTICES
- Refer to OHM Chapter 73-10-02 FUEL PUMP - ASSEMBLY

E. Install fuel Control and ensure that coupling is installed on FCU spline in accordance with EMM 73-20-00, FUEL CONTROL UNIT - MAINTENANCE PRACTICES.

F. Perform rigging as per AMM requirements.

G. Write accomplishment of P&WC S.B. No. 12221 in the applicable engine module log book.

4. Appendix

Not applicable.