

PRATT & WHITNEY CANADA
SERVICE BULLETIN

P&WC S.B. No. 3472

BULLETIN INDEX LOCATOR
73-10-02

TURBOPROP ENGINE
FUEL PUMP - INSPECTION/REPLACEMENT OF

MODEL APPLICATION

PT6A-38, PT6A-41, PT6A-42, PT6A-42A, PT6A-45A, PT6A-45B, PT6A-45R

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-72-3472
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

WARNING - PROPRIETARY RIGHTS & EXPORT CONTROLS NOTICE

This bulletin contains proprietary information of Pratt & Whitney Canada Corp. ("P&WC"), which P&WC provides in confidence and solely for the purposes of supporting engine certification and providing applicable information regarding the proper use, maintenance, inspection, repair, servicing and parts application of P&WC products and services, as directed therein. Neither this bulletin nor any information in it may be disclosed to others, or used for any other purpose, including, without limitation, to design, create, develop, reproduce, manufacture or derive any design, part, product, material, process, modification, configuration change or repair, or obtain FAA or other government approval to do so. Possession and use of this bulletin is also subject to the restrictions set out in P&WC's Technical Data Agreement (a copy of which may be obtained by contacting P&WC Technical Publications). The contents of this bulletin may be subject to export control laws. Unauthorized export or re-export of the bulletin, or parts thereof, is prohibited. By accepting and possessing this bulletin, you agree to be bound by the foregoing terms.

If a Government agency or department intends to disclose any information, written notice should be given to:
VP - Legal Services, Pratt & Whitney Canada Corp., 1000 Marie-Victorin (01BE5), Longueuil, Quebec J4G 1A1.

Export Control Classification		
*Data is subject to the jurisdiction of the Export and Import Controls Bureau of the Department of Foreign Affairs and International Trade of Canada, Department of Commerce of the United States and/or Department of State of the United States. ** Data is not subject to the jurisdiction of the Department of Commerce of the United States or Department of State of the United States but would become subject if exposed to any US involvement.	Regulation	Classification Number
	Canadian ECL(s)*	
	ECCN(s)*	
	P-ECCN(s)**	9E991
	USML (ITAR)*	
	P-USML **	

PRATT & WHITNEY CANADA
SERVICE BULLETIN

P&WC S.B. No. 3472

TURBOPROP ENGINE
FUEL PUMP - INSPECTION/REPLACEMENT OF

1. Planning Information

A. Effectivity

PT6A-38 Engines.
PT6A-41 Engines.
PT6A-42 Engines.
PT6A-42A Engines.
PT6A-45A Engines.
PT6A-45B Engines.
PT6A-45R 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.

PRATT & WHITNEY CANADA
SERVICE BULLETIN

P&WC S.B. No. 3472

TURBOPROP ENGINE
FUEL PUMP - INSPECTION/REPLACEMENT OF

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 3021444 (PT6A-38/41/42/42A)

Illustrated Parts Catalog P/N 3027044 (PT6A-45A/45B/45R)

Maintenance Manual P/N 3021442 (PT6A-38/41/42/42A)

Maintenance Manual P/N 3027042 (PT6A-45A/45B/45R)

Overhaul Manual P/N 3021443 (PT6A-38/41/42/42A)

Overhaul Manual P/N 3027043 (PT6A-45A/45B/45R)

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.

PRATT & WHITNEY CANADA SERVICE BULLETIN

P&WC S.B. No. 3472

TURBOPROP ENGINE FUEL PUMP - INSPECTION/REPLACEMENT OF

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 3033808 (Supplier P/N 399701-5, Supplier Code (59875)) is installed on the engine, go to Step G.

(2) If HS fuel pump P/N 3031708 (Supplier P/N 025323-300-03, 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 3031708 (Supplier P/N 025323-300-03, Supplier Code (99167)) or prior in accordance with the applicable maintenance or overhaul manual instructions:

PRATT & WHITNEY CANADA
SERVICE BULLETIN

P&WC S.B. No. 3472

TURBOPROP ENGINE
FUEL PUMP - INSPECTION/REPLACEMENT OF

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. 3472

D. Install new Argotech fuel pump P/N 3033808 (Supplier P/N 399701-5, Supplier Code (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. 3472 in the applicable engine module log book.

4. Appendix

Not applicable.