

PRATT & WHITNEY CANADA
SERVICE BULLETIN

P&WC S.B. No. 1754

BULLETIN INDEX LOCATOR
73-10-02

TURBOPROP ENGINE
FUEL PUMP - INSPECTION/REPLACEMENT OF

MODEL APPLICATION

PT6A-6, PT6A-6A, PT6A-6B, PT6A-20, PT6A-20A, PT6A-20B, PT6A-21, PT6A-25, PT6A-25A,
PT6A-25C, PT6A-27, PT6A-28, PT6A-34, PT6A-34AG, PT6A-34B, PT6A-36, PT6A-114,
PT6A-114A, PT6A-135, PT6A-135A

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-72-1754
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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FUEL PUMP - INSPECTION/REPLACEMENT OF

1. Planning Information

A. Effectivity

PT6A-6 Engines.
PT6A-6A Engines.
PT6A-6B Engines.
PT6A-20 Engines.
PT6A-20A Engines.
PT6A-20B Engines.
PT6A-21 Engines.
PT6A-25 Engines.
PT6A-25A Engines.
PT6A-25C Engines.
PT6A-27 Engines.
PT6A-28 Engines.
PT6A-34 Engines.
PT6A-34AG Engines.
PT6A-34B Engines.
PT6A-36 Engines.
PT6A-114 Engines.
PT6A-114A Engines.
PT6A-135 Engines.
PT6A-135A 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.

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1. Planning Information (Cont'd)

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.

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 3015444 (PT6A-6, PT6A-6A, PT6A-6B, PT6A-20, PT6A-20A, PT6A-20B)

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

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1. Planning Information (Cont'd)

Illustrated Parts Catalog P/N 3013244 (PT6A-21, PT6A-27, PT6A-28)
Illustrated Parts Catalog P/N 3027544 (PT6A-25, PT6A-25A)
Illustrated Parts Catalog P/N 3032144 (PT6A-25C)
Illustrated Parts Catalog P/N 3021244 (PT6A-34, PT6A-34AG, PT6A-34B, PT6A-36)
Illustrated Parts Catalog P/N 3043514 (PT6A-114, PT6A-114A, PT6A-135, PT6A-135A)
Maintenance Manual P/N 3015442 (PT6A-6, PT6A-6A, PT6A-6B, PT6A-20,
PT6A-20A, PT6A-20B)
Maintenance Manual P/N 3030442 (PT6A-11, PT6A-11AG, PT6A-15AG, PT6A-110,
PT6A-112, PT6A-121)
Maintenance Manual P/N 3013242 (PT6A-21, PT6A-27, PT6A-28)
Maintenance Manual P/N 3027542 (PT6A-25, PT6A-25A)
Maintenance Manual P/N 3032142 (PT6A-25C)
Maintenance Manual P/N 3021242 (PT6A-34, PT6A-34AG, PT6A-34B, PT6A-36)
Maintenance Manual P/N 3043512 (PT6A-114, PT6A-114A, PT6A-135, PT6A-135A)
Overhaul Manual P/N 3008103 (PT6A-6, PT6A-6A, PT6A-6B)
Overhaul Manual P/N 3011403 (PT6A-20, PT6A-20A, PT6A-20B)
Overhaul Manual P/N 3030443 (PT6A-11, PT6A-11AG, PT6A-15AG, PT6A-110,
PT6A-112, PT6A-121)
Overhaul Manual P/N 3013243 (PT6A-21, PT6A-27, PT6A-28)
Overhaul Manual P/N 3027543 (PT6A-25, PT6A-25A)
Overhaul Manual P/N 3032143 (PT6A-25C)
Overhaul Manual P/N 3021243 (PT6A-34, PT6A-34AG, PT6A-34B, PT6A-35, PT6A-36,
PT6A-114, PT6A-114A, PT6A-135, PT6A-135A)

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.

B. Material - Cost and Availability

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

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2. Material Information (Cont'd)

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 Code (59875)) or P/N 3034794 (Supplier P/N 386100, Supplier Code (59875)) is installed on the engine, go to Step G.
- (2) **For PT6A-6, PT6A-6A, PT6A-6B, PT6A-20, PT6A-20A, PT6A-20B, PT6A-21, PT6A-25, PT6A-25A, PT6A-25C, PT6A-27, PT6A-28, PT6A-34, PT6A-34AG, PT6A-34B, PT6A-36, PT6A-135, PT6A-135A:** If HS fuel pump P/N 3031709 (Supplier P/N 025323-101-03, Supplier Code (99167)) or prior part number as per IPC, is installed on the engine go to Step B.
- (3) **For PT6A-27 (BS801), PT6A-114, PT6A-114A and PT6A-135A (BS706, BS939, BS942, BS1135, BS1146, BS1200, BS1248, BS1264, BS1265, BS1266, BS1282):** 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.

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3. Accomplishment Instructions (Cont'd)

B. Remove the HS fuel pump P/N 3031791 (Supplier P/N 025323-150, Supplier Code (99167)), P/N 3031709 (Supplier P/N 025323-101-03, Supplier Code (99167)) or prior 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 - DISASSEMBLY

C. Forward HS fuel pump to:

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

REF: P&WC S.B. 1754

D. Install new Argotech fuel pump 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

(1) **For PT6A-27 (BS801), PT6A-114, PT6A-114A and PT6A-135A (BS706, BS939, BS942, BS1135, BS1146, BS1200, BS1248, BS1264, BS1265, BS1266, BS1282):** Install new Argotech fuel pump P/N 3034792 (Supplier P/N 702800, Supplier Code (59875)).

(2) **For PT6A-6, PT6A-6A, PT6A-6B, PT6A-20, PT6A-20A, PT6A-20B, PT6A-21, PT6A-25, PT6A-25A, PT6A-25C, PT6A-27, PT6A-28, PT6A-34, PT6A-34AG, PT6A-34B, PT6A-36, PT6A-135, PT6A-135A:** Install new Argotech fuel pump P/N 3034794 (Supplier P/N 386100, Supplier Code (59875)).

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. 1754 in the applicable engine module log book.

4. Appendix

Not applicable.