

SUBJECT: PRATT & WHITNEY CANADA (P&WC) SERVICE BULLETIN NO. 14432

To all Customers, Operators and Service Centers:

Date: Nov 27/09

This Service Letter is issued to draw attention to the following information:

PRATT & WHITNEY CANADA (P&WC) SERVICE BULLETIN NO. 14432 - PT6A-67B FUEL CONTROL UNIT MODIFICATION TO AVOID DIFFICULTY TO START ENGINE AT COLD TEMPERATURES

The vendor has issued Service Bulletin No. 14432 to install a modified Fuel Control Unit (FCU) with an improved shutdown valve. The modified FCU is introduced to solve engine start difficulty at cold temperatures on the ground.

Pilatus Aircraft Ltd. recommends that PC-12, PC-12/45 and PC-12/47 operators who experience cold starting difficulty incorporate P&WC Service Bulletin No. 14432.

Operators requiring further information on this subject, please contact one of the addresses given below:

PILATUS AIRCRAFT LTD.,
CUSTOMER SUPPORT MANAGER,
CH-6371 STANS,
SWITZERLAND.

General Aviation
Tel : + 41 41 619 3333
Fax: + 41 41 619 7311
eMail: SupportPC12@pilatus-aircraft.com

PILATUS BUSINESS AIRCRAFT LTD.,
PRODUCT SUPPORT DEPARTMENT,
11755 AIRPORT WAY,
BROOMFIELD, CO 80021.
USA

Tel : 303 465 9099
Fax: 303 465 6040
eMail: Productsupport@PilBal.com

PILATUS AUSTRALIA (Pty.) LTD.,
17 James Schofield Drive,
Adelaide Airport SA 5950,
AUSTRALIA

Tel : +61 (08) 8234 4433
Fax: +61 (08) 8234 4499
Free Call: 1800 445 007
eMail: SupportPC12@pilatus.com.au

Attachments: PRATT & WHITNEY CANADA (P&WC) SERVICE BULLETIN NO. 14432

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PRATT & WHITNEY CANADA
SERVICE BULLETIN

P&WC S.B. No. 14432

BULLETIN INDEX LOCATOR
73-20-00

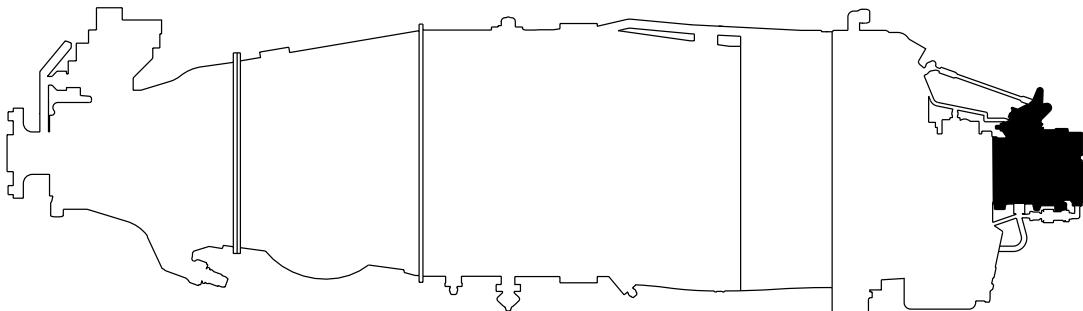
TURBOPROP ENGINE
FUEL CONTROL UNIT - MODIFICATION OF

MODEL APPLICATION

PT6A-64, PT6A-67B

Compliance: CATEGORY 7

Summary: Certain operators have reported difficulties starting the engine at cold temperatures on the ground. The Fuel Control Unit's (FCU) shutdown valve may not release when the condition lever is moved to the start position. For service engines, allow the rework of the prior configuration FCU to incorporate an improved shutdown valve.



Sep 16/2009

PT6A-72-14432
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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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.

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TURBOPROP ENGINE
FUEL CONTROL UNIT - MODIFICATION OF

1. Planning Information

A. Effectivity

All PT6A-64 Engines.
All PT6A-67B Engines.

B. Concurrent Requirements

None.

C. Reason

(1) Problem

The engine may be difficult to start at cold temperatures on the ground.

(2) Cause

In cold temperature, the shutdown valve may not release from the "off" position.

(3) Solution

Introduce a new Fuel Control Unit which includes the following modifications:

- two packings mounted on the valve plunger are replaced with similar ones with reduced hardness;
- a spring with an increased force margin;
- an actuation screw with a rounded end.

D. Description

Replace existing FCU with a modified FCU that incorporates a improved shut-down valve.

E. Compliance

CATEGORY 7 - You can do this service bulletin when the supply of superseded parts is fully used.

F. Approval

D.O.T./D.A.A. approved.

G. Weight and Balance

None.

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TURBOPROP ENGINE
FUEL CONTROL UNIT - MODIFICATION OF

1. Planning Information (Cont'd)

H. Electrical Load Data

Not changed.

I. Software Accomplishment Summary

Not applicable.

J. References

Illustrated Parts Catalog P/N 3038323 (PT6A-64)
Illustrated Parts Catalog P/N 3038338 (PT6A-67B, PT6A-67P)
Maintenance Manual P/N 3038321 (PT6A-64)
Maintenance Manual P/N 3038336 (PT6A-67B, PT6A-67P)
Overhaul Manual P/N 3038322 (PT6A-64)
Overhaul Manual P/N 3038337 (PT6A-67B, PT6A-67D, PT6A-67P)

K. Publications Affected

Illustrated Parts Catalog P/N 3038323 (PT6A-64)
Illustrated Parts Catalog P/N 3038338 (PT6A-67B, PT6A-67P)
Woodward Governor SB 83212-73-017

L. Interchangeability and Intermixability of Parts

Interchangeability - Refer to Para. 2.D.

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.D. from any Pratt & Whitney Canada Parts Distribution Center.

The estimated total cost of new parts needed to replace old parts is \$Quote (US, 2009).

The new parts are available.

C. Manpower

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

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TURBOPROP ENGINE FUEL CONTROL UNIT - MODIFICATION OF

D. 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, 2009)</u>	<u>Instructions Disposition</u>
For PT6A-67B Engines Incorporating SB14371 but not Incorporating SB14315 and SB14364					
	Fuel Control, Hydromechanical Supplier (66503) P&WC P/N 03R3119892-03	8063-041-01	1		(A)(B)
8063-041-02	Fuel Control, Hydromechanical Supplier (66503) P&WC P/N 05R3119892-03		1	NP	(A)(B)
For PT6A-67B Engines Incorporating SB14371 but not Incorporating SB14364					
	Fuel Control, Hydromechanical Supplier (66503) P&WC P/N 01R3119892-04	8063-042-01	1		(A)(B)
8063-042-02	Fuel Control, Hydromechanical Supplier (66503) P&WC P/N 02R3119892-04		1	NP	(A)(B)
For PT6A-64 Engines Incorporating SB14389 but not Incorporating SB14364					
	Fuel Control, Turboprop Supplier (66503) P&WC P/N 01R3122959-03	8063-052-01	1		(A)(B)
8063-052-02	Fuel Control, Turboprop Supplier (66503) P&WC P/N 02R3122959-03		1	NP	(A)(B)
Consumable Parts and Material Required					
AS3209-012	Packing, Preformed	AS3209-012	1	1.06	(C)
AS3208-04	Packing, Preformed	AS3208-04	3	0.65	(C)
AS3208-06	Packing, Preformed	AS3208-06	1	1.00	(C)

(A) TWO WAY INTERCHANGEABLE - (ATA 200 Explanation Code 02):
The old or the new part can replace the old or the new part.

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FUEL CONTROL UNIT - MODIFICATION OF

<u>New P/N</u>	<u>Keyword</u>	<u>Old P/N</u>	<u>Qty</u>	<u>Est. Unit List Price (\$US, 2009)</u>	<u>Instructions Disposition</u>
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- (B) To get the new part it is necessary to make a modification to the old part.
- (C) Standard replacement part.

E. Reidentified Parts

The following list of parts can be reworked:

<u>OLD P/N</u>	<u>NEW P/N</u>
8063-041-01	8063-041-02
P&WC P/N 03R119892-03	P&WC P/N 05R3119892-03
8063-042-01	8063-042-02
P&WC P/N 01R119892-04	P&WC P/N 02R3119892-04
8063-052-01	8063-052-02
P&WC P/N 01R3122959-03	P&WC P/N 02R3122959-03

F. Tooling - Price and Availability

Not applicable.

3. Accomplishment Instructions

- A. Remove the parts listed under Old P/N in Para. 2.D., Material Information, in accordance with the applicable maintenance manual instructions (73-20-00, Fuel Control Unit - MAINTENANCE PRACTICES) or overhaul manual instructions (72-00-00, ENGINE - DISASSEMBLY-2: ACCESSORY COMPONENTS).
- B. Return Old serviceable part for modification to
 Woodward Aircraft Engine Systems
 One Woodward Way, P.O. Box 405
 Rockton IL 61072-0405
 USA
 Attention: Support Services
- C. Install the parts listed under New P/N in Para. 2.D., Material Information, in accordance with the applicable maintenance manual instructions (73-20-00, Fuel Control Unit - MAINTENANCE PRACTICES) or overhaul manual instructions (72-00-00, FINAL ASSEMBLY-2: ACCESSORY COMPONENTS).
- D. Write accomplishment of P&WC S.B. No. 14432 in the applicable engine module log book.

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FUEL CONTROL UNIT - MODIFICATION OF

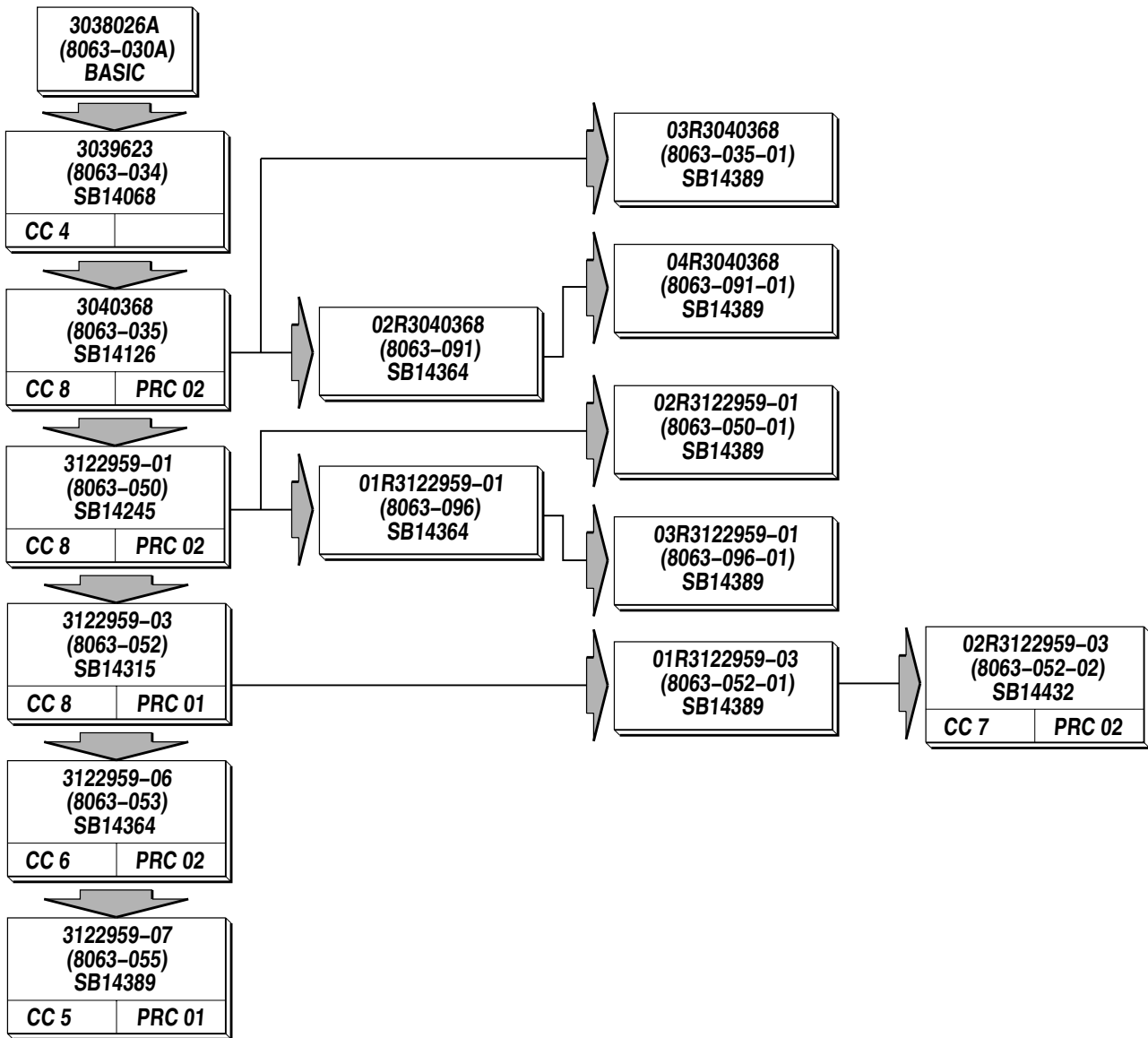
4. Appendix

- A. Refer to Figure 1 for the part progression of the PT6A-64 Fuel Control Unit.
- B. Refer to Figure 2 for the part progression of the PT6A-67B Fuel Control Unit.

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FUEL CONTROL UNIT - MODIFICATION OF



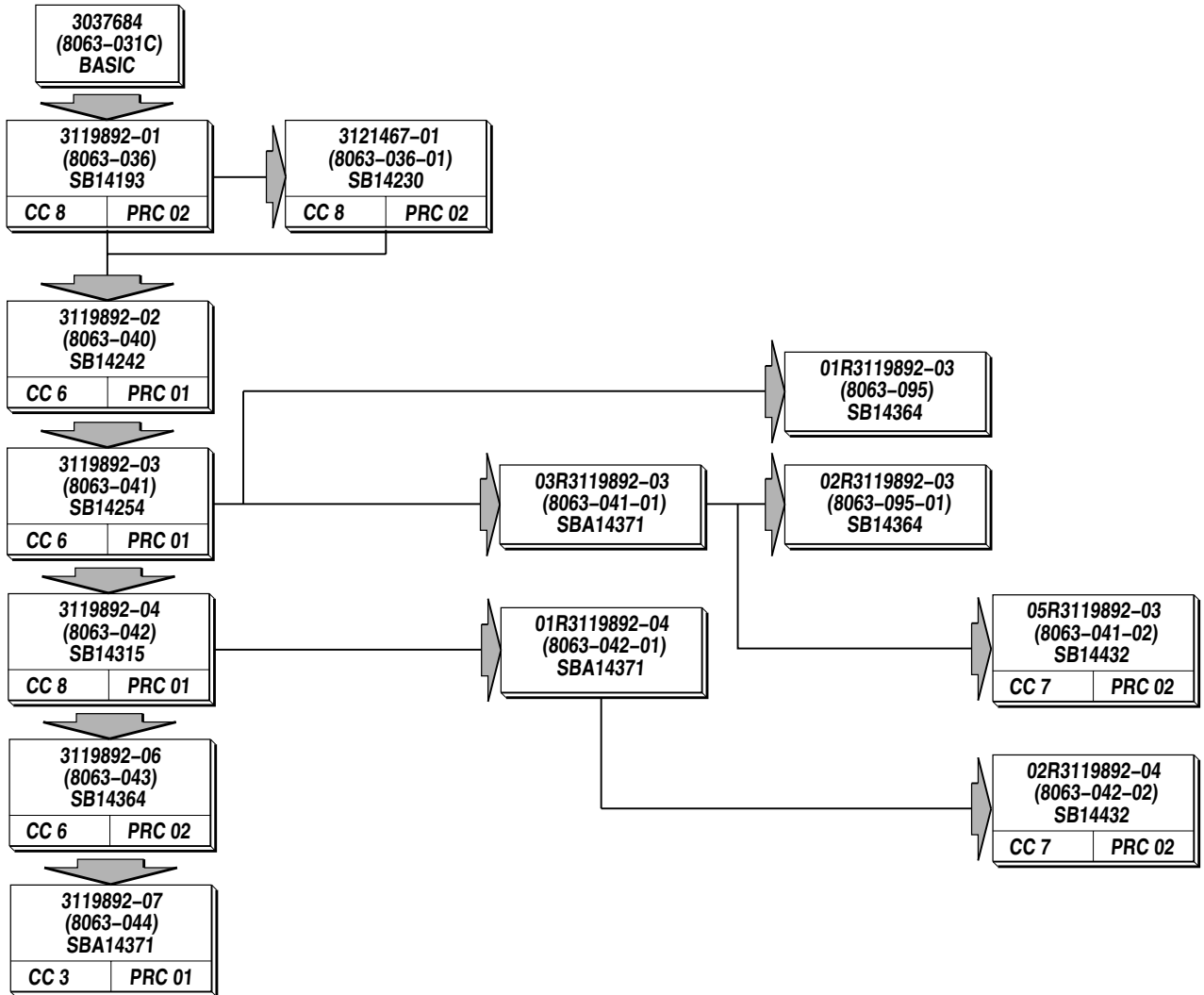
C74456D

PT6A-64 Fuel Control Unit - Part Progression
Figure 1

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TURBOPROP ENGINE FUEL CONTROL UNIT - MODIFICATION OF



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PT6A-67B Fuel Control Unit - Part Progression
Figure 2

