

PRATT & WHITNEY CANADA
SERVICE BULLETIN

P&WC S.B. No. 41120

BULLETIN INDEX LOCATOR

TURBOSHAFT ENGINE
PT6C-67C BS963 AND BS1019 TO PT6C-67C1 BS1447 AND BS1448 - CONVERSION OF
MODEL APPLICATION
PT6C-67C

Compliance: CATEGORY 8

Summary: There is a customer requirement to convert PT6C-67C Build Specification (BS) BS963 engines to PT6C-67C1 BS1447 configuration and PT6C-67C BS1019 engines to PT6C-67C1 BS1448 configuration.

Jun 23/2021

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Cover Sheet

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1. Planning Information

A. Effectivity

PT6C-67C (BS963, BS1019) Engines Serial Number KB2180, KB2192, KB2246, KB2252, KB2255, KB2284, KB2290, KB2308, KB2309, KB2379, KB2402, KB2403 and KB2404.

B. Concurrent Requirements

This service bulletin must be done in conjunction with Special Instruction (SI) 55-2021.

C. Reason

(1) Problem

There is a customer requirement to convert PT6C-67C Build Specification (BS) BS963 engines to PT6C-67C1 BS1447 configuration and PT6C-67C BS1019 engines to PT6C-67C1 BS1448 configuration.

(2) Cause

No documentation exists to allow the engine conversion in the production environment.

(3) Solution

This service bulletin provides the minimum hardware requirements to convert the PT6C-67C BS963 to PT6C-67C1 BS1447 and the PT6C-67C BS1019 to PT6C-67C1 BS1448.

D. Description

Replace the electronic engine control and data plates.

E. Compliance

CATEGORY 8 - This service bulletin is optional and can be done at the discretion of the operator.

F. Approval

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

G. Manpower

Once you have access to the part, an estimate of 5.0 man-hours is required to include this service bulletin at repair.

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1. Planning Information (Cont'd)

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

H. Weight and Balance

None.

I. Electrical Load Data

Not applicable.

J. Software Accomplishment Summary

Not applicable.

K. References

Illustrated Parts Catalog P/N [3045334](#) (PT6C-67C/PT6C-67C1)

Maintenance Manual P/N [3045332](#) (PT6C-67C/PT6C-67C1)

Special Instruction (SI) 55-2021

L. Publications Affected

Not applicable.

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 - Price 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, 2021).

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2. Material Information (Cont'd)

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, 2021)</u>	<u>Instructions Dispositions</u>
For PT6C-67C (BS963):					
	PT6C-67C	BS963	Ref.		
BS1447	PT6C-67C1		Ref.		
	Control-Engine Electronic P&WC P/N 3059071-08	822835-5-108	1		(A)(B)
822835-5-201	Control-Engine Electronic P&WC P/N 3136943-01		1	Quote	(A)
For PT6C-67C(BS1019):					
	PT6C-67C	BS1019	Ref.		
BS1448	PT6C-67C1		Ref.		
	Control-Engine Electronic P&WC P/N 3059071-08	822835-5-108	1		(A)(B)
822835-5-201	Control-Engine Electronic P&WC P/N 3136943-01		1	Quote	(A)
For PT6C-67C BS963 and BS1019:					
Gas Generator and Engine Data Plates:					
3035984	Plate Instruction, Gas Generator	3035984	1	194.30	(C)(D)(E)
ST3203-12	Rivet Blind,.125x.094 Grip, Universal	ST3203-12	2	23.86	(C)(D)
3057917-01	Plate Identification, Engine and Gas Generator	3057917-01	1	172.20	(C)(D)(E)
ST3203-12	Rivet Blind,.125x.094 Grip, Universal	ST3203-12	4	23.86	(C)(D)

Identification Plate Power Section:

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2. Material Information (Cont'd)

<u>New P/N</u>	<u>Keyword</u>	<u>Old P/N</u>	<u>Qty</u>	<u>Est. Unit List Price (\$US, 2021)</u>	<u>Instructions Dispositions</u>
3058005-01	Plate, Identification, Power	3058005-01	1	269.00	(C)(D)(E)
ST3203-13	Rivet Blind,.125x.156 Grip, Universal	ST3203-13	4	23.65	(C)(D)

The parts that follow are approved for use on a converted PT6C-67C1 Engines:

3037278	Brg Option (IC)		1		(F)
3044080-01	Gearshaft Spur, PMA Drive		1		(F)
3048676-11	Fuel Management Module		1		(G)
3127503-01	Insulation Blanket		1		(H)

(A) ONE WAY INTERCHANGEABLE - (ATA 200 Explanation Code 01): The old part can only replace the old part; the new part can replace the old and the new part.

(B) Discard the part if it is unserviceable. Return a serviceable part to stock.

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

(D) Standard replacement part. Latest at time of issue.

(E) Ref SI 55-2021.

(F) For replacement purposes refer to P&WC SB 41110.

(G) For replacement purposes refer to P&WC SB 41112.

(H) For replacement purposes refer to P&WC SB 41114.

D. Reidentified Parts

None.

E. Tooling - Price and Availability

Not applicable.

3. Accomplishment Instructions

A. Remove the parts in the Old P/N list in Para. 2.C., Material Information, in accordance with the maintenance manual instructions as follows:

Ref. MM 73-20-10 (EEC Removal).

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3. Accomplishment Instructions (Cont'd)

B. Remove the plate(s) as follows:

- (1) Drill the heads of the rivets. Discard the rivets.
- (2) Remove the old plate.

NOTE: Do not discard the identification plates. Return them to your P&WC representative.

C. Install the parts in the New P/N list in Para. 2.C., Material Information, in accordance with the maintenance manual instructions as follows:

Ref. MM 73-20-10 (EEC Installation).

- (1) Install new data plates on output section and on accessory gearbox.

NOTE: Make sure that the data plate and T5 trim values calculated from the SI 55-2021, are correctly stamped on trim value instruction plate and on data plate.

- (2) Secure data plates with the appropriate rivets (Ref. P/N list in Para. 2.C., Material Information) using a suitable rivet gun.

D. Write the accomplishment of P&WC SB41120 in the engine module log book.

4. Appendix

None.