

PRATT & WHITNEY CANADA  
**SERVICE BULLETIN**

P&WC S.B. No. 28339R4

**BULLETIN INDEX LOCATOR**  
**72-11-00**

TURBOSHAFT ENGINE  
NO. 2 BALL BEARING, RGB - REPLACEMENT OF

MODEL APPLICATION

PW206A, PW206B, PW206B2, PW206C, PW206E, PW207C, PW207D, PW207D1, PW207D2,  
PW207E, PW207K

Commercial Support Program No: 1008789

Compliance: CATEGORY 5

Summary: Wear can occur on the No. 2 ball bearing. The bearing can rub on the bearing inner ring. Introduce a new ball bearing with improved lubrication and enlarged ball bearing clearance.

Jul 10/2012  
Revision No. 4: Feb 01/2024

**PW200-72-28339**  
Cover Sheet

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**Pratt & Whitney Canada**

A United Technologies Company

01 February 2024

P&WC S.B. No. 28339R4

REVISION TRANSMITTAL SHEET  
TURBOSHAFT ENGINE MODEL PW200

SUBJECT: Pratt & Whitney Canada Service Bulletin No. PW200-72-28339, Rev. No. 4, dated Feb 01/2024 (P&WC S.B. No. 28339R4) NO. 2 BALL BEARING, RGB - REPLACEMENT OF

Replace your existing copy of this service bulletin with the attached revised bulletin. Destroy the superseded copy.

Please retain this Revision Transmittal Sheet with the revised bulletin.

SUMMARY: This service bulletin is revised to add Commercial Support Program Notification (CSPN) number in Para. 2.A., Material Information.

EFFECT OF REVISION ON PRIOR ACCOMPLISHMENT:

None.

NOTE: A black bar in the left margin indicates a change in that line of text or figure.

REVISION HISTORY:

Original Issue: Jul 10/2012  
Revision No. 1: Sep 07/2016  
Revision No. 2: Sep 26/2016  
Revision No. 3: Jan 07/2019  
Revision No. 4: Feb 01/2024



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TURBOSHAFT ENGINE  
NO. 2 BALL BEARING, RGB - REPLACEMENT OF

1. Planning Information

A. Effectivity

PW206A Engines.

PW206B Engines.

PW206B2 Engines which are before and include Serial No. PCE-BJ1165.

PW206C Engines which are before and include Serial No. PCE-BC0910, excluding Serial No. PCE-BC0892.

PW206E Engines.

PW207C Engines which are before and include Serial No. PCE-BH0624, excluding Serial No. PCE-BH0580 and PCE-BH0621.

PW207D Engines which are before and include Serial No. PCE-BF0207.

PW207D1 Engines which are before and include Serial No. PCE-BL0245, excluding Serial No. PCE-BL0154.

PW207D2 Engines which are before and include Serial No. PCE-BN0021.

PW207E Engines.

PW207K Engines.

NOTE: The above effectivity list does not identify engines that have been converted from one engine model to another via an engine conversion service bulletin. To clarify the effectivity of converted engines, refer to the original engine effectivity above. For the parts embodied during the engine conversion, refer to conversion service bulletin.

B. Concurrent Requirements

None.

C. Reason

(1) Problem

Wear can occur on the No. 2 ball bearing.

(2) Cause

The ball bearing cage can rub on the bearing inner ring.

(3) Solution

Replace the ball bearing with one that has:

- enlarged ball retention clearance, and
- additional liner ring split face grooves for improved lubrication.

D. Description

Replace the No. 2 ball bearing and helical input gearshaft.

■ P&WC No. E4162F, DCR37145, EC-0018496

Jul 10/2012

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TURBOSHAFT ENGINE  
NO. 2 BALL BEARING, RGB - REPLACEMENT OF

1. Planning Information (Cont'd)

E. Compliance

CATEGORY 5 - P&WC recommends to do this service bulletin when the engine is disassembled and access is available to the necessary subassembly (i.e. module, accessories, components, or build groups). Do all spare subassemblies.

F. Approval

The technical content of this document is approved under the authority of the Transport Canada Civil Aviation (TCCA) Design Approval Organization No: DAO #93-Q-01.

G. Manpower

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 changed.

K. References

Overhaul Manual P/N 3038325 (PW206A/206E/207E)  
Overhaul Manual P/N 3039733 (PW206B/206B2)  
Overhaul Manual P/N 3043323 (PW206C/207C)  
Overhaul Manual P/N 3043613 (PW207D)  
Overhaul Manual P/N 3071603 (PW207D1/207D2)  
Overhaul Manual P/N 3053373 (PW207K)

L. Publications Affected

Illustrated Parts Catalog P/N 3038326 (PW206A/206E)  
Illustrated Parts Catalog P/N 3049725 (PW207E)  
Illustrated Parts Catalog P/N 3039734 (PW206B)  
Illustrated Parts Catalog P/N 3054928 (PW206B2)  
Illustrated Parts Catalog P/N 3043324 (PW206C)  
Illustrated Parts Catalog P/N 3054927 (PW207C)

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## TURBOSHAFT ENGINE NO. 2 BALL BEARING, RGB - REPLACEMENT OF

1. Planning Information (Cont'd)

Illustrated Parts Catalog P/N 3049724 (PW207D)  
Illustrated Parts Catalog P/N 3071604 (PW207D1/207D2)  
Illustrated Parts Catalog P/N 3053374 (PW207K)

M. Interchangeability and Intermixability of Parts

Interchangeability - Refer to Para. 2.C.

Intermixability - Not changed.

2. Material Information

A. Industry Support Information

Please refer to Commercial Support Program Notification (CSPN) 1008789

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, 2012).

The new parts are scheduled to be available Aug/2012.

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, 2012)</u>	<u>Instructions Disposition</u>
<b>For Engines PW206A and PW206E:</b>					
3076627-01	Gearbox Assy, Reduction	3076126-01	1	Ref.	(A)
3075990-01	. Bearing, Ball	3114367-01	1	Quote	(B)(C)
3075989-01	. Gearshaft, Helical Input	3123410-01	1	Quote	(B)(C)
<b>For Engines PW206C (BS1164, BS847), PW207C (BS1068, BS1166), PW207D, PW207E and PW207K (BS1031, BS1169):</b>					
3076628-01	Gearbox Assy, Reduction	3076124-01	1	Ref.	(A)

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## TURBOSHAFT ENGINE NO. 2 BALL BEARING, RGB - REPLACEMENT OF

<u>New P/N</u>	<u>Keyword</u>	<u>Old P/N</u>	<u>Qty</u>	<u>Est. Unit List Price (\$US, 2012)</u>	<u>Instructions Disposition</u>
3075990-01	. Bearing, Ball	3114367-01	1	Quote	(B)(C)
3075989-01	. Gearshaft, Helical Input	3123410-01	1	Quote	(B)(C)
<b>For Engines PW206C (BS1296, BS1297), PW207C (BS1299, BS1300) and PW207K (BS1301, BS1302):</b>					
3076629-01	Gearbox Assy, Reduction	3076612-01	1	Ref.	(A)
3075990-01	. Bearing, Ball	3114367-01	1	Quote	(B)(C)
3075989-01	. Gearshaft, Helical Input	3123410-01	1	Quote	(B)(C)
<b>For Engines PW207D1 and PW207D2:</b>					
3076631-01	Gearbox Assy, Reduction	3076127-01	1	Ref.	(A)
3075990-01	. Bearing, Ball	3114367-01	1	Quote	(B)(C)
3075989-01	. Gearshaft, Helical Input	3123410-01	1	Quote	(B)(C)
<b>For Engines PW206B and PW206B2:</b>					
3076630-01	Gearbox Assy, Reduction	3076128-01	1	Ref.	(A)
3075990-01	. Bearing, Ball	3114367-01	1	Quote	(B)(C)
3076202-01	. Gearshaft, Helical Input	3115803-01	1	Quote	(B)(C)

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

(B) NOT INTERCHANGEABLE - (ATA 200 Explanation Code 03):  
The old part must replace the old part; the new part must replace new part.

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

#### D. Reidentified Parts

The following list of parts can be reworked:

OLD P/N

NEW P/N

P&WC P/N 3076126-01

P&WC P/N 3076627-01

NOTE: You do not need to reidentify the Reduction Gearbox Assy in the field. It is shown here for configuration control purposes only.

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TURBOSHAFT ENGINE  
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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 overhaul manual instructions as follows:

- Ref. OHM 72-11-03 INPUT GEARSHAFT - DISASSEMBLY.

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

- Ref. OHM 72-11-03 INPUT GEARSHAFT - ASSEMBLY.

C. Write the accomplishment of P&WC S.B. No. 28339 in the engine module log book.

4. Appendix

Not applicable.