

PRATT & WHITNEY CANADA  
**SERVICE BULLETIN**

P&WC S.B. No. 41055

**BULLETIN INDEX LOCATOR**  
**72-60-00**

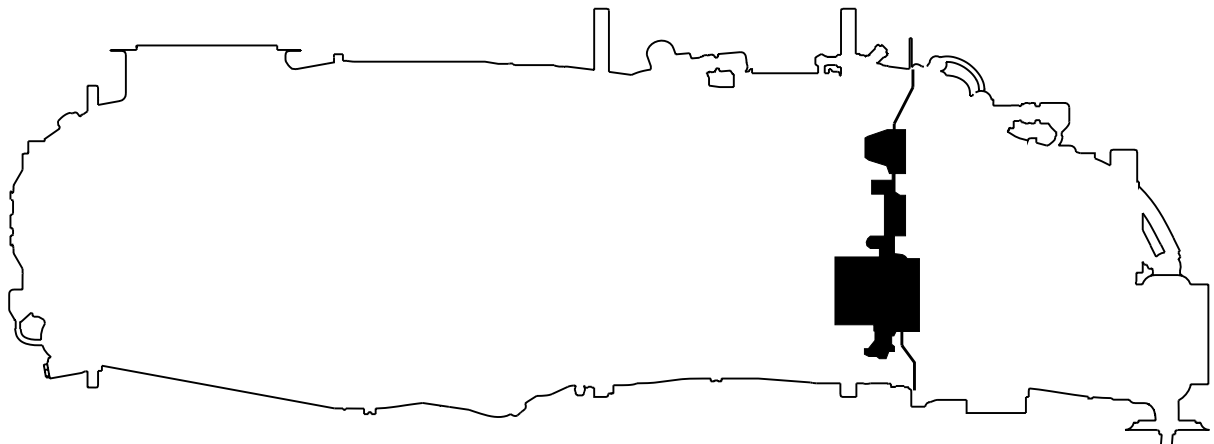
TURBOSHAFT ENGINE  
ACCESSORY GEARBOX DIAPHRAGM - REPLACEMENT/MODIFICATION OF

MODEL APPLICATION

PT6C-67C

Compliance: CATEGORY 7

Summary: The accessory gearbox diaphragm does not consistently meet the electrical resistance requirements. This is because an anodized film at the mating flanges reduces the electrical conductivity. Introduce a new accessory gearbox diaphragm assembly with one which has a low electrical resistance coating instead of an anodized film at the mating surfaces.



Mar 15/2011

**PT6C-72-41055**  
Cover Sheet

24-Hour Global Service

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TURBOSHAFT ENGINE  
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1. Planning Information

A. Effectivity

PT6C-67C Engines which are before and include Serial No. PCE-KB0858.

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

The accessory gearbox diaphragm does not consistently meet the electrical resistance requirements.

(2) Cause

This is because an anodized film at the mating flanges reduces the electrical conductivity..

(3) Solution

Introduce a new accessory gearbox diaphragm assembly with one which has a low electrical resistance coating instead of an anodized film at the mating surfaces.

D. Description

Replace existing accessory gearbox diaphragm with a new or modified one that has a low electrical resistance coating.

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CATEGORY 7 - You can do this service bulletin when the supply of superseded parts is fully used.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

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

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1. Planning Information (Cont'd)

H. Weight and Balance

None.

I. Electrical Load Data

Not changed.

J. Software Accomplishment Summary

Not applicable.

K. References

Illustrated Parts Catalog P/N 3045334 (PT6C-67C)  
Overhaul Manual P/N 3045333 (PT6C-67C)  
PWA Overhaul Standard Practices Manual P/N 585005

L. Publications Affected

Illustrated Parts Catalog P/N 3045334 (PT6C-67C)

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.

The estimated total cost of new parts needed to replace old parts is \$Quote (US, 2011).

The new parts are available.

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### 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, 2011)</u>	<u>Instructions Disposition</u>
3074468-01	Diaphragm Assy, Accessory Gearbox	3070413-01	1	Quote	(A)(B)
NAS1130-3L20	. Insert, Scr, Thd., Slkg, TnglS	ST3031-43	1	1.54	(A)(C)
NAS1130-3L20	. Insert, Scr, Thd., Slkg, TnglS	ST3031-43	3	1.54	(A)(C)
NAS1130-3L20	. Insert, Scr, Thd., Slkg, TnglS	ST3031-43	3	1.54	(A)(C)
NAS1130-3L20	. Insert, Scr, Thd., Slkg, TnglS	ST3031-43	3	1.54	(A)(C)
NAS1130-3L20	. Insert, Scr, Thd., Slkg, TnglS	ST3031-43	3	1.54	(A)(C)
NAS1130-3L20	. Insert, Scr, Thd., Slkg, TnglS	ST3031-43	3	1.54	(A)(C)
NAS1130-3L20	. Insert, Scr, Thd., Slkg, TnglS	ST3031-43	4	1.54	(A)(C)
NAS1130-3L20	. Insert, Scr, Thd., Slkg, TnglS	ST3031-43	3	1.54	(A)(C)
NAS1130-3L20	. Insert, Scr, Thd., Slkg, TnglS	ST3031-43	2	1.54	(A)(C)
NAS1130-3-30	. Insert, Scr, Thd., Slkg, TnglS	MS124815	2	3.88	(A)(C)
NAS1130-3L20	. Insert, Scr, Thd., Slkg, TnglS	ST3031-43	1	1.54	(A)(C)
NAS1130-3L20	. Insert, Scr, Thd., Slkg, TnglS	ST3031-43	1	1.54	(A)(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) To get the new part it is possible to make a modification to the old part, or you can get the new part from any Pratt & Whitney Canada Distribution Center.

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<u>New P/N</u>	<u>Keyword</u>	<u>Old P/N</u>	<u>Qty</u>	<u>Est. Unit List Price (\$US, 2011)</u>	<u>Instructions Disposition</u>
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(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:

<u>OLD P/N</u>	<u>NEW P/N</u>
P&WC P/N 3070413-01	P&WC P/N 3074468-01

E. Tooling - Price and Availability

Not applicable.

3. Accomplishment Instructions

A. Remove the parts listed under Old P/N in Para. 2.C., Material Information, in accordance with the maintenance or overhaul manual instructions:

(1) Ref. OHM 72-60-00, ACCESSORY GEARBOX - DISASSEMBLY

B. Modify the existing accessory gearbox diaphragm assembly as follows (Ref. Figure 1):

- (1) Mask areas adjacent to section A-A on diaphragm assembly.
- (2) Remove existing coating in accordance with SPOP19 (Ref. overhaul manual).
- (3) Pressure flush in accordance with overhaul manual.
- (4) Apply AMS2474 in accordance with SPOP 42 at area shown (Ref. Section A-A).
- (5) Touch up any other bare spots on diaphragm assembly in accordance with SPOP 42 (Ref. SPM, Chapter 70-44-01).
- (6) Remove masking from accessory gearbox diaphragm assembly.
- (7) Install inserts listed under new P/N in Para. 2.C., Material Information, in accordance with the overhaul manual instructions (Ref. OHM 72-00-00, ENGINE - REPAIR).

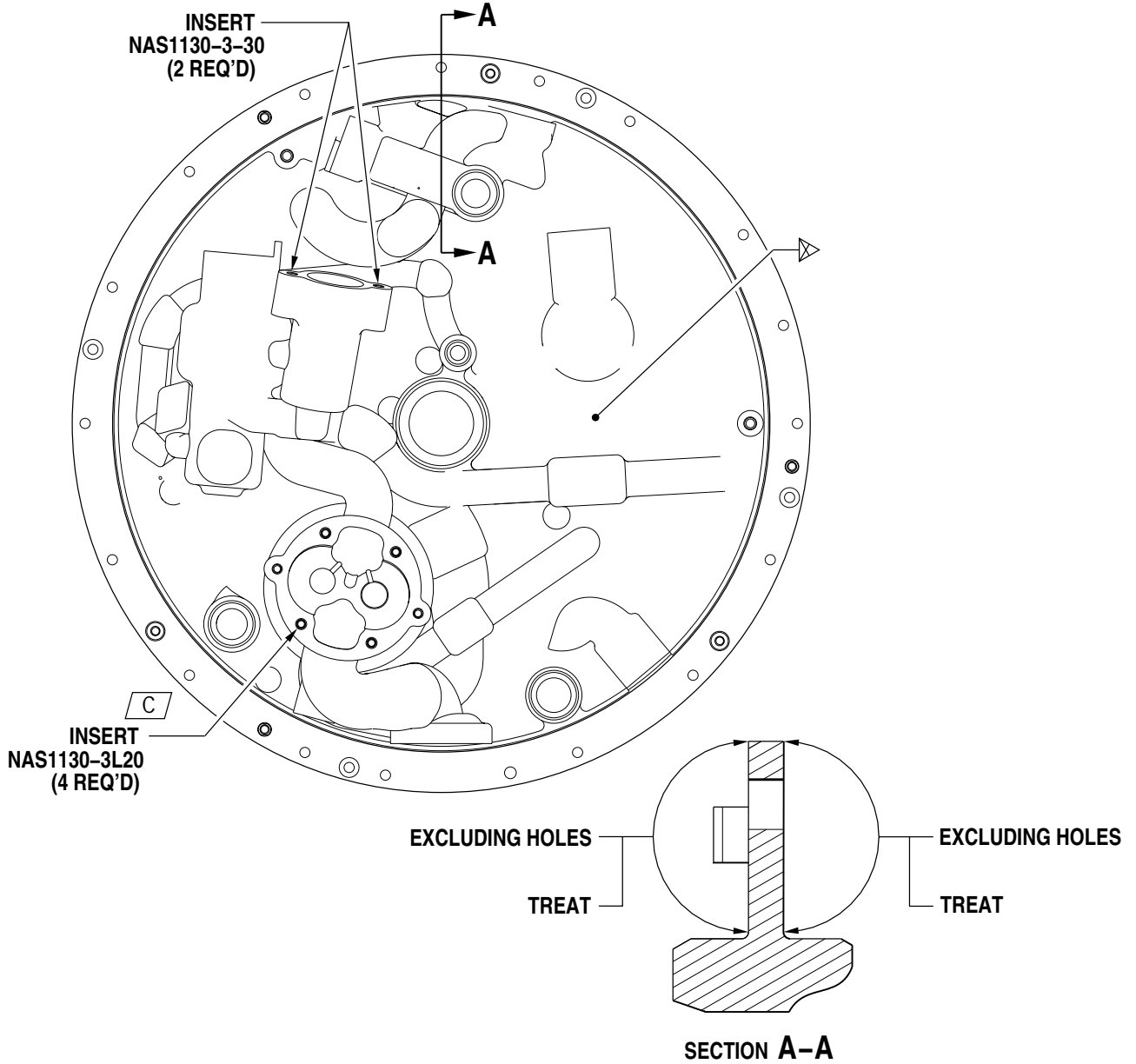
**WARNING:** USE EYE PROTECTION WHEN YOU WRITE WITH THE VIBRATION PEENING PROCEDURE.

C. Put a line across the old part number of the accessory gearbox diaphragm. Use the vibration peening procedure, 0.003 to 0.006 in. (0.08-0.15 mm) deep, and write the new part number in the same general area.

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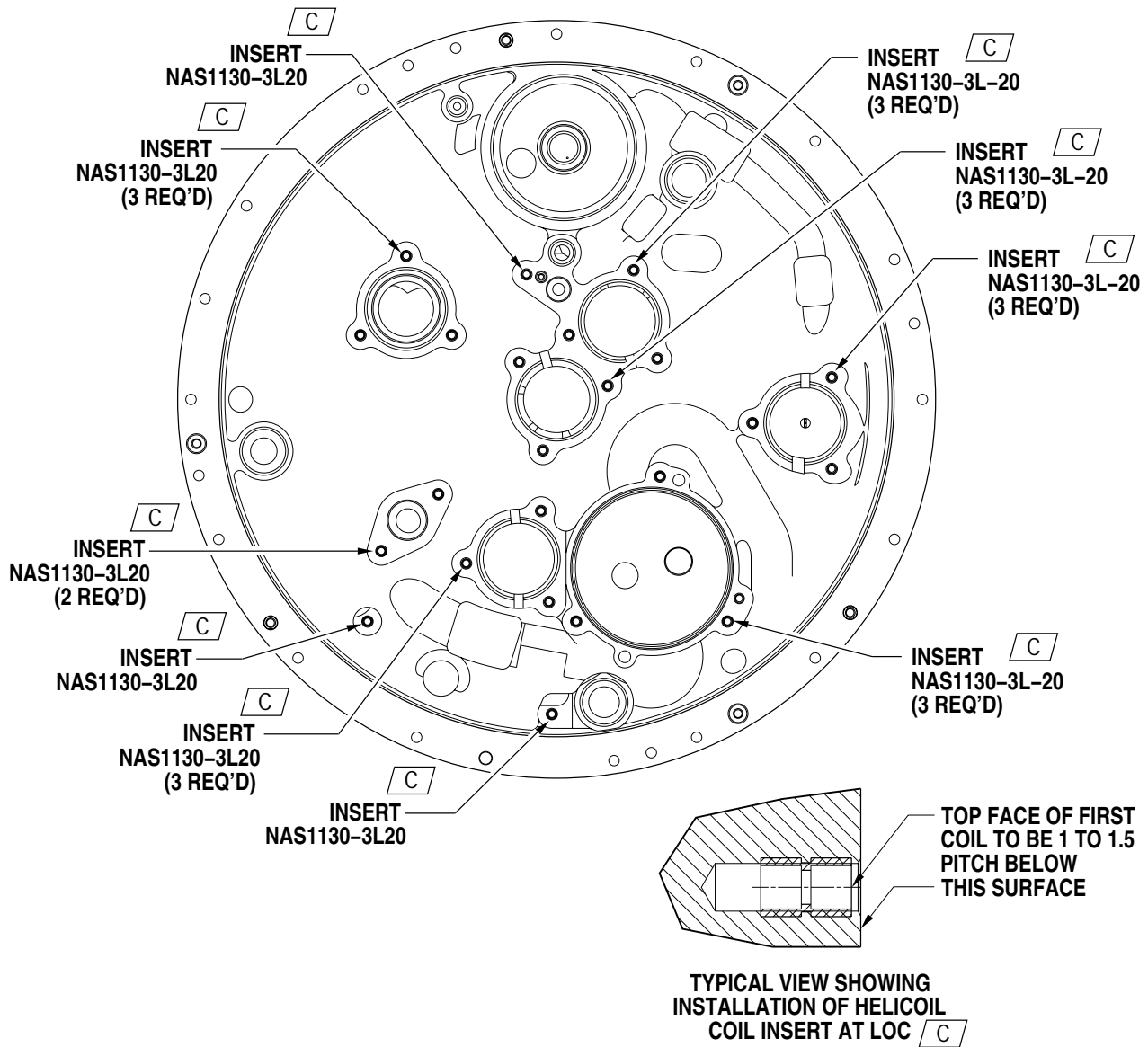
C178910

Accessory Gearbox Diaphragm - Modification of  
Figure 1 (Sheet 1 of 2)

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## TURBOSHAFT ENGINE ACCESSORY GEARBOX DIAPHRAGM - REPLACEMENT/MODIFICATION OF



C178911

Accessory Gearbox Diaphragm - Modification of  
Figure 1 (Sheet 2)



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3. Accomplishment Instructions (Cont'd)

D. Install new or modified accessory gearbox diaphragm in accordance with the applicable maintenance or overhaul manual instruction:

(1) Ref. OHM 72-60-00, ACCESSORY GEARBOX - SUB-ASSEMBLY

E. Write accomplishment of P&WC S.B. No. 41055 in the applicable engine module log book.

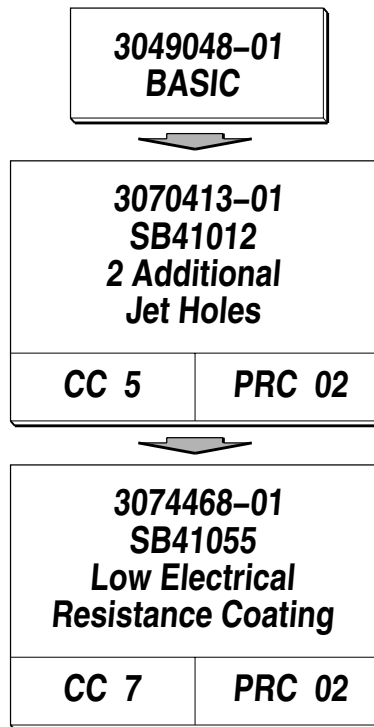
4. Appendix

A. Refer to Figure 2 for the accessory gearbox diaphragm part progression.

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C178852

Accessory Gearbox Diaphragm - Part Progression  
Figure 2