PRATT & WHITNEY CANADA

# SERVICE BULLETIN

P&WC S.B. No. 28372R6

# BULLETIN INDEX LOCATOR

TURBOSHAFT ENGINE
FUEL MANAGEMENT MODULE, MODE SELECT SOLENOID (MSS) - SEALING MSS CAVITY WITH RTV

MODEL APPLICATION

PW206B, PW206B2, PW206B3, PW206C, PW207C, PW207D, PW207D1, PW207D2, PW207K

Compliance: CATEGORY 3

Summary: Field experience has shown that corrosion can occur in the Mode Select Solenoid (MSS) because there is a path for fluids to reach the internal MSS electrical compartment. Apply RTV sealant to seal the path to the MSS.

Feb 09/2016
Revision No. 6: Mar 31/2021



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Pratt & Whitney Canada Corp.
1000, Marie-Victorin
Longueuil, Québec, Canada J4G 1A1
Tél. 450-677-9411

Pratt & Whitney Canada
A United Technologies Company

31 March 2021

P&WC S.B. No. 28372R6

REVISION TRANSMITTAL SHEET
TURBOSHAFT ENGINE MODEL PW200

SUBJECT: Pratt & Whitney Canada Service Bulletin No. PW200-72-28372, Rev. No. 6, dated Mar 31/2021 (P&WC S.B. No. 28372R6) FUEL MANAGEMENT MODULE, MODE SELECT SOLENOID (MSS) - SEALING MSS CAVITY WITH RTV

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 Destroy the superseded copy.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 revision is issued to:

- remove the concurrent requirement which was not applicable to this service bulletin,
- remove adjective “clear” from the table 1 for the silicone.

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: Feb 09/2016
Revision No. 1: Apr 14/2016
Revision No. 2: Sep 09/2016
Revision No. 3: Oct 05/2017
Revision No. 4: Dec 11/2017
Revision No. 5: Dec 02/2020
Revision No. 6: Mar 31/2021

PRATT & WHITNEY CANADA

# SERVICE BULLETIN

P&WC S.B. No. 28372R6

TURBOSHAFT ENGINE

FUEL MANAGEMENT MODULE, MODE SELECT SOLENOID (MSS) - SEALING MSS CAVITY WITH RTV

1. Planning Information

A. Effectivity

Engines PW206B Pre-SB28375 with Fuel Management Module (FMM) part numbers listed in Table 2.
Engines PW206B2 Pre-SB28375 with Fuel Management Module (FMM) part numbers listed in Table 3.
Engines PW206B3 Pre-SB28375 with Fuel Management Module (FMM) part numbers listed in Table 4.
Engines PW206C Pre-SB28375 with Fuel Management Module (FMM) part numbers listed in Table 5.
Engines PW207C Pre-SB28375 with Fuel Management Module (FMM) part numbers listed in Table 6.
Engines PW207D Pre-SB28375 with Fuel Management Module (FMM) part numbers listed in Table 7.
Engines PW207D1 Pre-SB28375 with Fuel Management Module (FMM) part numbers listed in Table 8.
Engines PW207D2 Pre-SB28375 with Fuel Management Module (FMM) part numbers listed in Table 9.
Engines PW207K Pre-SB28375 with Fuel Management Module (FMM) part numbers listed in Table 10.

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

Deleted

C. Reason

(1) Problem

Field experience has shown that corrosion can occur in the Mode Select Solenoid (MSS). The reason is because there is a path for fluids to reach the internal MSS electrical compartment.

(2) Cause

The current MSS gasket is not optimized leaving a path for external fluids to reach the internal MSS electrical components.

(3) Solution

Apply RTV sealant to seal the path to the MSS.

P&WC No. DCR33856, DCR35487, EC-0003332

1. Planning Information (Cont'd)

D. Description

Clean and degrease the cavity under the Fuel Management Module (FMM) nameplate, apply RTV sealant to MSS cavity to seal the leakage path and re-identify the FMM.

E. Compliance

**For operators flying regularly over salt water or in a very humid environment (Tropical Climate):**

CATEGORY 3 - P&WC recommends to complete this SB within 150 flight hours from receipt of this service bulletin.

**For all other operators:**

CATEGORY 3 - P&WC recommends to complete this SB within 600 flight hours from receipt of this service bulletin.

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

Woodward, Inc. Component Maintenance Manual 73-20-14 (WG 60090), 73-20-15 (WG 60093), 73-20-21 (WG 60103), 73-20-33 (WG 60194), 73-20-34 (WG 60195) and 73-20-35 (WG 60197)

1. Planning Information (Cont'd)

Woodward SB 83092-73-016

L. Publications Affected

None.

M. Interchangeability and Intermixability of Parts

Not applicable.

2. Material Information

A. Industry Support Information

Not applicable.

B. Material - Cost and Availability

Not applicable.

C. Material Necessary for Each Engine

Not applicable.

D. Reidentified Parts

None.

E. Tooling - Price and Availability

Not applicable.

3. Accomplishment Instructions

A. Remove the FMM nameplate (supplier P/N 3082-566) as follows (Ref. Fig. 1):

(1) Remove the safety wire from four screws on nameplate (Ref. Fig. 2).

(2) Remove and retain four screws and washers from nameplate, remove nameplate.

(3) Clean and degrease the cavity under the nameplate with solvent (Ref. Table 1).

(4) Clean and degrease the back of nameplate with solvent (Ref. Table 1).

B. Apply the RTV sealant to cavity under solenoid as follows (Ref. Fig. 1):

NOTE: Install nameplate within 30 minutes of applying sealant.

3. Accomplishment Instructions (Cont'd)

(1) Make sure cavity is clean and dry.

(2) Apply the RTV sealant (Ref. Table 1) to the small cavity under the MSS. Completely fill the space beneath the solenoid and extend the sealant approximately a quarter inch into the nameplate cavity up to the nameplate sealing surface.

C. Re-identify the FMM as follows:

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

(1) Put a line across the CPW No. located on the name plate. Use the vibration peening procedure, 0.003 to 0.006 in. (0.08 - 0.15 mm) deep, and mark SB016 two spaces after the revision letter on the nameplate (P/N 3082-566) in the same area.

D. Install the FMM nameplate as follows (Ref. Fig. 1):

(1) Make sure the nameplate sealing surface is clear of sealant so that the nameplate can be installed without difficulty.

(2) Install the nameplate with four washers and four screws. Torque each screw to 1.8 - 2.0 lb. In. (0.20 - 0.23 N.m). Allow sealant to cure for 24 hours.

(3) Secure the nameplate screws with safety wire (Ref. Fig. 2 and Table 1).

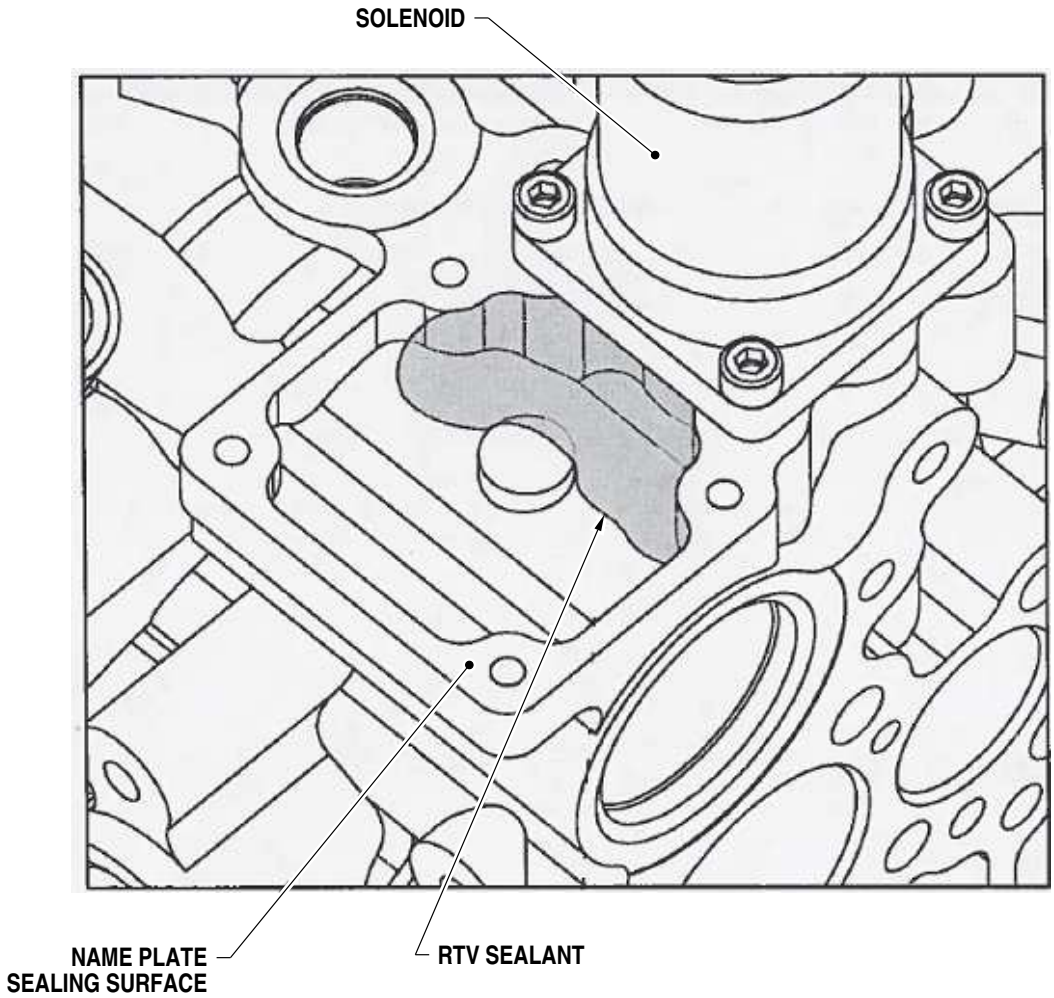
E. Complete the feedback form and return it to P&WC (Ref. Fig. 3).

F. Write the accomplishment of P&WC S.B. No. 28372 in the engine module log book.

TABLE 1, Consumable Material

| Description | Source |
|---|---|
| Solvent<br>Methyl Ethyl Ketone (MEK),<br>Mineral Spirits,<br>Naphtha<br>or equivalent | Commercially Available |
| RTV sealant<br>Dow Coming 3145 Silicone Adhesive | Dow Coming Corporation<br>2200 W. Salzburg Rd.<br>PO Box 994<br>Auburn MI, 48611 |
| Safety wire<br>MS20995C20<br>or MS20995C25 | Commercially Available |

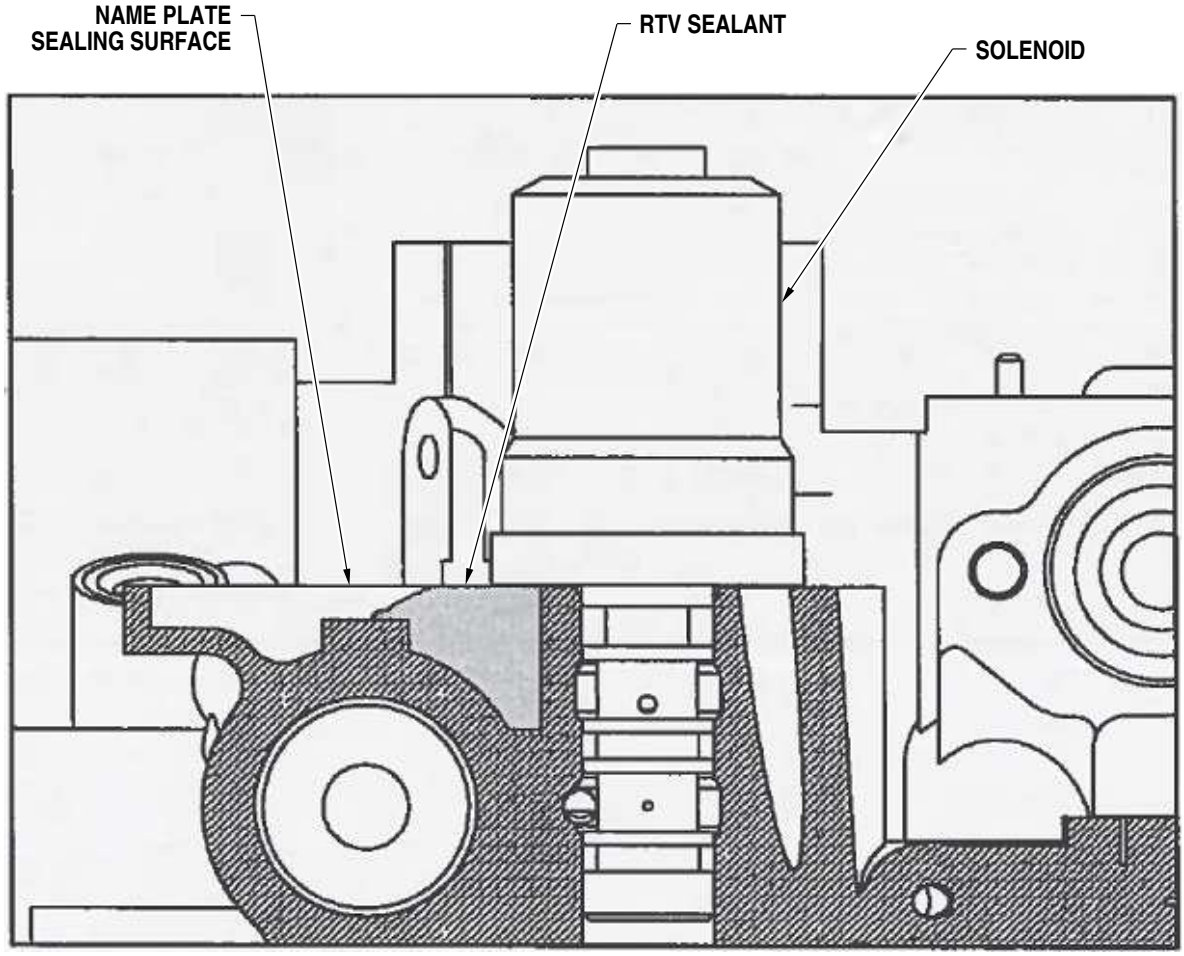
TURBOSHAFT ENGINE
FUEL MANAGEMENT MODULE, MODE SELECT SOLENOID (MSS) - SEALING MSS CAVITY WITH RTV




C240423

Sealing MSS Cavity with RTV Sealant
Figure 1 (Sheet 1 of 2)

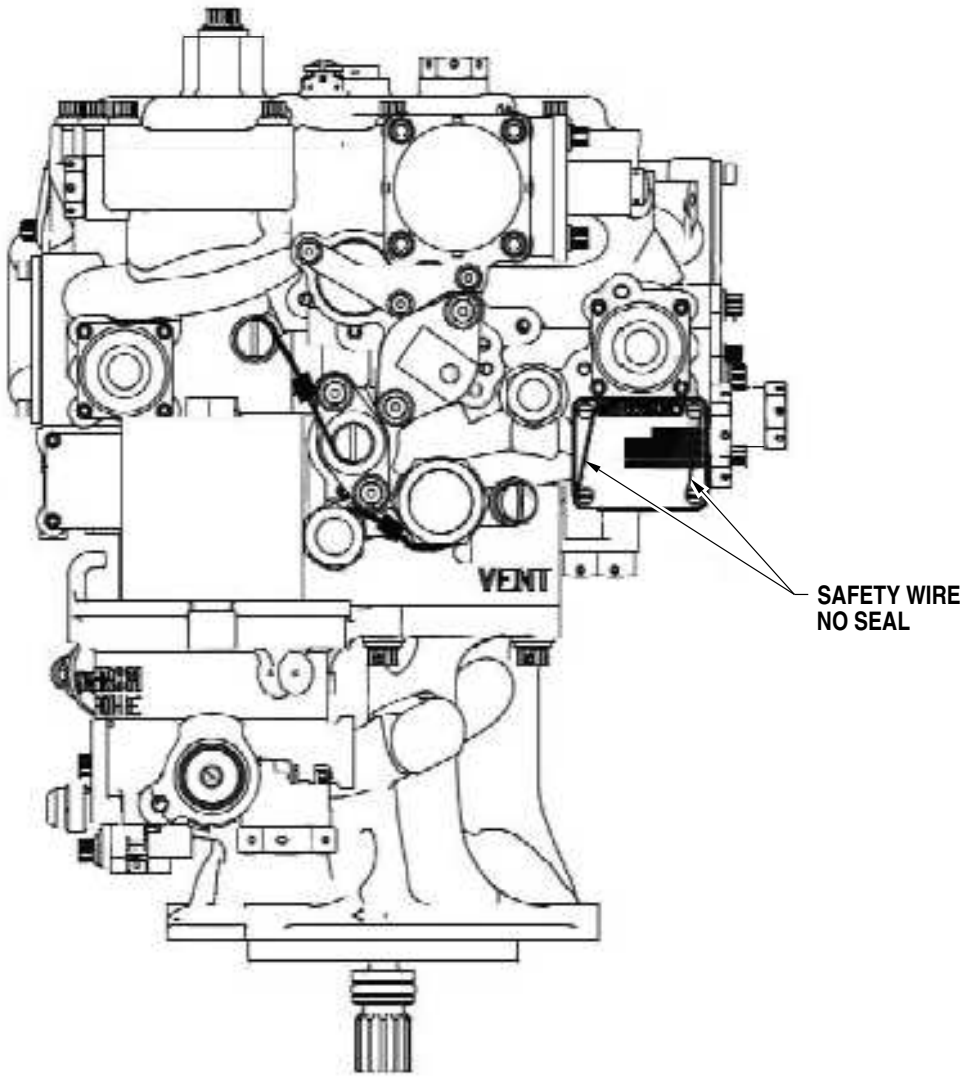
TURBOSHAFT ENGINE
FUEL MANAGEMENT MODULE, MODE SELECT SOLENOID (MSS) - SEALING MSS CAVITY WITH RTV




C240424

Sealing MSS Cavity with RTV Sealant
Figure 1 (Sheet 2)

TURBOSHAFT ENGINE
FUEL MANAGEMENT MODULE, MODE SELECT SOLENOID (MSS) - SEALING MSS CAVITY WITH RTV




C241701

Lockwire for Nameplate Screws
Figure 2

TURBOSHAFT ENGINE
FUEL MANAGEMENT MODULE, MODE SELECT SOLENOID (MSS) - SEALING MSS CAVITY WITH RTV

**To:**
**Pratt & Whitney Canada**
**EMail: pwchelo@pwc.ca**
**Or Fax: 450–647–9597**

**From:**
**Operator name:** _____

**Date:** _____ **(day/month/year)**

**Aircraft model: Agusta Power** ☐ **Eurocopter EC135–P1** ☐ **Bell 427** ☐ **Kazan Ansat** ☐
**Agusta Grand** ☐ **Eurocopter EC135–P2** ☐ **Bell 429** ☐
**Eurocopter EC135–P3** ☐

**Aircraft Serial Number:** _____ **Aircraft Tail Number:** _____

**Engine Model:** **PW206C** ☐ **PW206B** ☐ **PW207D** ☐ **PW207K** ☐
**PW207C** ☐ **PW206B2** ☐ **PW207D1/D2** ☐
**PW206B3** ☐

**Engine #1:**
**Engine Serial Number:** _____
**Engine Total Time Since New:** _____**Hours** **Engine Total Time Since Overhaul:** _____**Hours**

**FMM Part Number:** _____ **FMM Serial Number:** _____

**Engine #2:**
**Engine Serial Number:** _____
**Engine Total Time Since New:** _____**Hours** **Engine Total Time Since Overhaul:** _____**Hours**

**FMM Part Number:** _____ **FMM Serial Number:** _____

**Remarks:**

ICN-00198-G000011937-001-01

Feedback Form
Figure 3

3. Accomplishment Instructions (Cont'd)

4. Appendix

A. Refer to Table 2 for the PW206B FMM effectivty.

TABLE 2, PW206B FMM effectivty

| Vendor P/N | P&WC P/N |
|---|---|
| 8063-136 | 3121670-02 |
| 8063-162 | 3045895-03 |
| 8063-166 | 01R3121670-02 |
| 8063-169 | 3121670-05 |
| 8063-176 | 01R3045895-03 |
| 8063-177 | 3045895-04 |
| 8063-860 | 03R3121670-02 |
| 8063-861 | 3045895-05 |
| 8063-862 | 02R3045895-03 |
| 8063-865 | 3121670-06 |

B. Refer to Table 3 for the PW206B2 FMM effectivty.

TABLE 3, PW206B2 FMM effectivty

| Vendor P/N | P&WC P/N |
|---|---|
| 8063-853 | 3054585-02 |
| 8063-856 | 3055982-01 |
| 8063-1020 | 3055982-02 |

C. Refer to Table 4 for the PW206B3 FMM effectivty.

TABLE 4, PW206B3 FMM effectivty

| Vendor P/N | P&WC P/N |
|---|---|
| 8063-856 | 3055982-01 |
| 8063-1020 | 3055982-02 |

D. Refer to Table 5 for the PW206C FMM effectivty.

4. Appendix (Cont'd)

TABLE 5, PW206C FMM effectivty

| Vendor P/N | P&WC P/N |
|---|---|
| 8063-167 | 3121090-05 |
| 8063-182 | 3045896-02 |
| 8063-189 | 3121090-06 |
| 8063-190 | 01R3045896-02 |
| 8063-191 | 3045896-03 |
| 8063-192 | 01R3121090-05 |
| 8063-863 | 3045896-05 |
| 8063-866 | 3121090-07 |
| 8063-1024 | 3045896-08 |

E. Refer to Table 6 for the PW207C FMM effectivty.

TABLE 6, PW207C FMM effectivty

| Vendor P/N | P&WC P/N |
|---|---|
| 8063-857 | 3054277-01 |
| 8063-1029 | 3054277-02 |

F. Refer to Table 7 for the PW207D FMM effectivty.

TABLE 7, PW207D FMM effectivty

| Vendor P/N | P&WC P/N |
|---|---|
| 8063-194 | 3044133-05 |
| 8063-851 | 3055981-01 |
| 8063-1034 | 3055981-02 |

G. Refer to Table 8 for the PW207D1 FMM effectivty.

TABLE 8, PW207D1 FMM effectivty

| Vendor P/N | P&WC P/N |
|---|---|
| 8063-867 | 3071721-02 |

4. Appendix (Cont'd)

TABLE 8, PW207D1 FMM effectivty (Cont'd)

| Vendor P/N | P&WC P/N |
|---|---|
| 8063-1035 | 3071721-03 |

H. Refer to Table 9 for the PW207D2 FMM effectivty.

TABLE 9, PW207D2 FMM effectivty

| Vendor P/N | P&WC P/N |
|---|---|
| 8063-1035 | 3071721-03 |

I. Refer to Table 10 for the PW207K FMM effectivty.

TABLE 10, PW207K FMM effectivty

| Vendor P/N | P&WC P/N |
|---|---|
| 8063-858 | 3055984-01 |
| 8063-1037 | 3055984-02 |