

**TITLE**

ENGINE INDICATING - FAST™ HARDWARE AND SOFTWARE UPDATE FOR 4G NETWORK CONNECTIVITY

**EFFECTIVITY****MODEL**

208B

**SERIAL NUMBERS**

208B5000 thru 208B5632 with PT6A-140 engines

**REASON**

A new antenna and upgrades to FAST™ hardware and software to allow 4G cellular.

**DESCRIPTION**

This service document provides parts and instructions to update the FAST™ hardware for 4G.

**COMPLIANCE**

OPTIONAL. This service document can be accomplished at the discretion of the owner.

A service document published by Textron Aviation may be recorded as *completed* in an aircraft log only when the following requirements are satisfied:

- 1) The mechanic must complete all of the instructions in the service document, including the intent therein.
- 2) The mechanic must correctly use and install all applicable parts supplied with the service document kit. Only with written authorization from Textron Aviation can substitute parts or rebuilt parts be used to replace new parts.
- 3) The mechanic or airplane owner must use the technical data in the service document only as approved and published.
- 4) The mechanic or airplane owner must apply the information in the service document only to aircraft serial numbers identified in the *Effectivity* section of the document.
- 5) The mechanic or airplane owner must use maintenance practices that are identified as acceptable standard practices in the aviation industry and governmental regulations.

No individual or corporate organization other than Textron Aviation is authorized to make or apply any changes to a Textron Aviation-issued service document or flight manual supplement without prior written consent from Textron Aviation.

Textron Aviation is not responsible for the quality of maintenance performed to comply with this document, unless the maintenance is accomplished at a Textron Aviation-owned Service Center.

**APPROVAL**

Textron Aviation received FAA approval for the technical data in this publication that changes the airplane type design.

**FLIGHT CREW OPERATIONS**

No Changes

**CONSUMABLE MATERIAL**

You must use the consumable materials that follow, or their equivalent, to complete this service document.

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NAME	NUMBER	MANUFACTURER	USE
Adhesive	U074031S, Type V, Class A (RTV-732 White)	Textron Aviation Parts & Distribution 7121 Southwest Boulevard Wichita, KS 67215	To seal the antenna screws to prevent water infiltration.
Sealant Type I, Class B-1/2, (2ounce Simkit)	U470637	Textron Aviation Parts Distribution 7121 Southwest Boulevard Wichita, KS 67215	To fillet seal the antenna.

**TOOLING**

Refer to the Cessna Model 208 Series Maintenance Manual, Chapter 77, FAST Engine Trend Monitoring System - Description and Operation, Tools and Equipment.

**REFERENCES**

Cessna Model 208 Series Maintenance Manual

Pratt and Whitney Canada Abbreviated Component Maintenance Manual Part Number 3077188

Pratt and Whitney Canada Abbreviated Customer Activation Form 12325 Revision 2 or later.

**PUBLICATIONS AFFECTED**

None

**ACCOMPLISHMENT INSTRUCTIONS**

- Complete all of the required fields on the Customer Activation Form and send completed form to Pratt and Whitney Canada (P&WC) at [customer.activation@pwc.ca](mailto:customer.activation@pwc.ca).

**NOTE:**

- The customer activation form is required to set up the customer's CAMP Engine Health Monitoring (EHM) account and to create the configuration files for the FAST™ unit.
- Forms must be submitted no less than 5 business days prior to FAST™ system activation. This will allow time for the CAMP EHM account set up and the verification of the customer's information.
- Incomplete forms will not be processed and could cause delays in activating and configuring the account.

- Obtain CAMP EHM account.

**NOTE:**

- The CAMP EHM registration process starts when the Customer Activation Form is completed and returned to Pratt and Whitney Canada.
- Once the registration process is complete the CAMP EHM user name and password will be sent to the e-mail address provided during registration.
- The final configuration file for the FAST™ System will be available for download to the customer / installer via the Monitor™ program or email once the activation is completed.

- Prepare the airplane for maintenance.

- Make sure that the airplane is electrically grounded.

- Make sure that all switches are in the OFF/NORM position.

- Disconnect electrical power from the airplane.

- Disconnect external electrical power.

- Disconnect the airplane battery.

- Attach maintenance warning tags to the battery and external power receptacle that have "**DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS**" written on them.

3. Remove the GSM Antenna and discard the antenna and screws. (Refer to the Model 208/208B Maintenance Manual, Chapter 77, FAST™ GSM Antenna - Removal/Installation.)
4. Install the AV-289 Antenna with 4 MS24693-S273 Screws. (Refer to the Model 208/208B Maintenance Manual, Chapter 77, FAST™ GSM Antenna - Removal/Installation.)
5. Remove the current FAST-A-010-4-V1 or FAST-A-010-4-V5 ETM FAST™ Processor from the airplane. (Refer to the Model 208/208B Maintenance Manual, Chapter 77, FAST™ ETM Processor - Removal/Installation.)
  - A. If SIM card is property of customer, remove the SIM card from the FAST-A-010-4-V1 or FAST-A-010-4-V5 FAST™ ETM Processor and cancel your SIM card/data plan with local cellular carrier as applicable.
  - B. Return the removed FAST-A-010-4-V1 or FAST-A-010-4-V5 FAST™ ETM Processor to Textron Aviation for exchange for a FAST-A-010-4-V9, FAST™ ETM Processor with 4G modem.

**NOTE:**

- Quantities of exchange processors are limited.
  - The removed processor unit must be returned to Textron Aviation Parts Distribution within 30 days of receipt of the exchange processor unit.
6. Install the new FAST-A-010-4-V9 FAST™ Processor. (Refer to the Model 208/208B Maintenance Manual, Chapter 77, FAST™ ETM Processor - Removal/Installation.)
  7. Remove the maintenance warning tags and connect the airplane battery.
  8. Do all the steps of the FAST™ Engine Trend Monitoring System Adjustment/Test. (Refer to the Model 208/208B Maintenance Manual, Chapter 77, FAST™ Engine Trend Monitoring System - Adjustment/Test.)

**NOTE:**

- The changes to the FAST™ Transmission test that follow will be incorporated at the next scheduled revision of the Maintenance Manual.
  - The FAST™ can latch to aircraft battery for up to 60 minutes.
  - All UNTXDFILES in the Monitor Status must be retrieved prior to performing the transmission test.
  - The signal strength should be -90 DB or less when performing the transmission test. If it is more than -90 DB (i.e. -105 DB), then the unit may fail to make a connection.
9. Make an entry in the airplane logbook that states compliance and method of compliance with this service document.

**NOTE:** Textron Aviation recommends that compliance with all service documents is reported to a maintenance tracking system provider.

- Complete a record of compliance. (Maintenance Transaction Report, Log Book Entry, or other record of compliance.)
- Put a copy of the completed record of compliance in the airplane logbook.
- Send a copy of the completed record of compliance to the maintenance tracking system provider used.

**MATERIAL INFORMATION**

Order the kit/parts below to install this modification.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
<b>CAB-77-03</b>	1	<b>Kit</b> , consisting of the following parts:		
AV-289	1	Antenna	S65-5366-715	Discard
MS24693-S273	4	Screw	MS24693-S275	Discard
CAB-77-03	1	Instructions		

In addition to the CAB-77-03 Kit, order the part below.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
FAST-A-010-4-V9	1	FAST™ ETM Processor	FAST-A-010-4-V1 FAST-A-010-4-V5	Return to Textron Aviation for exchange.

Once the upgraded unit is received and installed, the existing FAST™ processor should be returned to Textron Aviation Parts Distribution, Warranty Administration, 285 South Greenwich Road, Bldg B89, Docks 1-4, Wichita, KS for a core deposit refund. Due to limited availability, advance scheduling is required. Please expedite the return of the removed part.

\*Please contact your Regional Textron Aviation Parts Distribution Customer Support Team for current cost and availability of parts listed in this service document. For more information, please visit the TAPD Support & Aftermarket Account Management website at <https://ww2.txtav.com/Parts/Promos/TAPD>.

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**TO:**

Cessna Model 208B Aircraft Owner

**REASON**

A new antenna and upgrades to FAST™ hardware and software to allow 4G cellular.

**COMPLIANCE**

OPTIONAL. This service document can be accomplished at the discretion of the owner.

**LABOR HOURS****WORK PHASE**

Modification

**LABOR-HOURS**

As Necessary

**MATERIAL AVAILABILITY**

PART NUMBER	AVAILABILITY	COST
CAB-77-03	*	*
FAST-A-010-4V9BQ	*	*

\*Please contact your Regional Textron Aviation Parts Distribution Customer Support Team for current cost and availability of parts listed in this service document. For more information, please visit the TAPD Support & Aftermarket Account Management website at <https://ww2.txtav.com/Parts/Promos/TAPD>.

Based on availability and lead times, parts may require advanced scheduling.

**WARRANTY**

None

**NOTE:** As a convenience, service documents are now available online to all our customers through a simple, free-of-charge registration process. If you would like to sign up, please visit the Customer Access link at [www.txtavsupport.com](http://www.txtavsupport.com) to register.

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