

TITLE

AIR CONDITIONING - CABIN PRESSURIZATION CONTROLLER IMPROVEMENT

EFFECTIVITY**MODEL**

525 (M2)

SERIAL NUMBERS

-0800 thru -0966 equipped with a 9912661-11
Cabin Pressurization Controller, and -0967 thru
-1014

The equivalent of this service document has been incorporated on production airplanes -1015 and On.

REASON

To inspect the Cabin Pressurization Controller for suspect serial numbers that could latch an Amber PRESSURIZATION CNTRL CAS message if STBY mode is selected.

DESCRIPTION

This service letter provides parts and instructions to inspect the cabin pressurization controller for suspect serial numbers per the attached Enviro Systems SB18-102 and replace all suspect serial numbers.

COMPLIANCE

RECOMMENDED. This service document should be accomplished at a scheduled maintenance period or inspection.

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.

CONSUMABLE MATERIAL

No specialized consumable materials are required to complete this service document.

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Textron Aviation Customer Service, P.O. Box 7706, Wichita, KS 67277, U.S.A. 1-316-517-5800

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TOOLING

No specialized tooling is required to complete this service document.

REFERENCES

Cessna Model (0685 and 0800 & On) Maintenance Manual

Enviro Systems Service Bulletin SB18-102, Cabin Air Controller P/N: 52811-1102 & -1103

PUBLICATIONS AFFECTED

None

ACCOMPLISHMENT INSTRUCTIONS

1. Prepare the airplane for maintenance.
 - A. Make sure that the airplane is electrically grounded.
 - B. Make sure that all switches are in the OFF/NORM position.
 - C. Disconnect electrical power from the airplane.
 - (1) Disconnect the airplane battery.
 - (2) Disconnect external electrical power.
 - D. Attach maintenance warning tags to the battery and external power receptacle that have "**DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS**" written on them.
2. Remove the cabin floor panel 251FL forward of the aft pressure bulkhead. (Refer to the Model 525 (0685 and 0800 & On) Maintenance Manual, Chapter 6, Access Plates and Panels Identification - Description and Operation.)
3. Inspect the serial number of the cabin pressurization controller.
 - A. If the serial number of the cabin pressurization controller is not listed in the attached Enviro Systems Service Bulletin SB18-102, do the steps that follow.

NOTE: Airplanes that are equipped with a cabin pressurization controller that has an (A) suffix after the serial number have already complied with SB18-102 and do not need to replace the cabin pressurization controller.

 - (1) Install cabin floor panel 251FL forward of the aft pressure bulkhead. (Refer to the Model 525 (0685 and 0800 & On) Maintenance Manual, Chapter 6, Access Plates and Panels Identification - Description and Operation.)
 - (2) Go to Step 4.
 - B. If the serial number of the cabin pressurization controller is listed in the attached Enviro Systems Service Bulletin SB18-102, do the steps that follow:

NOTE: Airplanes that are equipped with a cabin pressurization controller that has an (A) suffix after the serial number have already complied with SB18-102 and do not need to replace the cabin pressurization controller.

 - (1) Remove the cabin pressurization controller and return it to Textron Aviation for exchange. (Refer to the Model 525 (0685 and 0800 & On) Maintenance Manual, Chapter 21, Pressurization Control - Maintenance Practices.)
 - (2) Install an upgraded 9912261-11 Cabin Pressurization Controller. (Refer to the Model 525 (0685 and 0800 & On) Maintenance Manual, Chapter 21, Pressurization Control - Maintenance Practices.)
 - (a) The upgraded 9912261-11 will have an (A) suffix after the serial number.

- (3) Install cabin floor panel 251FL forward of the aft pressure bulkhead. (Refer to the Model 525 (0685 and 0800 & On) Maintenance Manual, Chapter 6, Access Plates and Panels Identification - Description and Operation.)
4. Remove the maintenance warning tags and connect the airplane battery.
5. 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 Camp Systems International.

- 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: Camp Systems International Incorporated, 8201 East 34th Street North, Building 1100 Suite 1101 Wichita, KS 67226.

MATERIAL INFORMATION

Order the kit/parts below to install this modification.

NEW P/N	QUAN-TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
9912661-11	If Required	Cabin Pressurization Controller	Same	Return to Textron Aviation

The existing cabin pressurization controller may be returned to Textron Aviation Parts Distribution, Warranty Administration, 285 South Greenwich Road, Bldg B89, Docks 1-4, Wichita, KS 67206, USA, and exchanged for an upgraded unit. Due to limited availability, 30 day minimum advanced scheduling is required, please expedite the return of the removed part.

* Please contact Textron Aviation Parts Distribution for current cost and availability of parts listed in this service document. Phone at 1-800-835-4000 (Domestic) or 1-316-517-5603 (International). Send email to: parts@txtav.com.

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

In cases where the required part(s) are approved as exchange, order the exchange part and, upon completion, expedite the return of the removed part to avoid return penalties. Contact a Textron Aviation Authorized Service Facility for availability of exchange parts.

TITLE

AIR CONDITIONING - CABIN PRESSURIZATION CONTROLLER IMPROVEMENT

TO:

Aircraft Owner

REASON

To inspect the Cabin Pressurization Controller for suspect serial numbers that could latch an Amber PRESSURIZATION CNTRL CAS message if STBY mode is selected.

COMPLIANCE

RECOMMENDED. This service document should be accomplished at a scheduled maintenance period or inspection.

LABOR HOURS

WORK PHASE	LABOR-HOURS
Test and Inspection	1.0
Modification (if necessary) includes the removal and installation of the controller and all leak and functional tests in the Maintenance Manual	3.0

MATERIAL AVAILABILITY

PART NUMBER	AVAILABILITY	COST
9912661-11	*	*

The existing cabin pressurization controller may be returned to Textron Aviation Parts Distribution, Warranty Administration, 285 South Greenwich Road, Bldg B89, Docks 1-4, Wichita, KS 67206, USA, and exchanged for an upgraded unit. Due to limited availability, 30 day minimum advanced scheduling is required, please expedite the return of the removed part.

* Please contact Textron Aviation Parts Distribution for current cost and availability of parts listed in this service document. Phone at 1-800-835-4000 (Domestic) or 1-316-517-5603 (International). Send email to: parts@txtav.com.

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

In cases where the required part(s) are approved as exchange, order the exchange part and, upon completion, expedite the return of the removed part to avoid return penalties. Contact a Textron Aviation Authorized Service Facility for availability of exchange parts.

WARRANTY

This service document is *recommended*. Eligible airplanes may qualify for parts and labor coverage to the extent noted in the *Labor Hours* and *Material Availability* sections of this document.

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Eligibility: Airplanes identified within the serial number effectivity of this service document must have active Airframe warranty coverage on the original issue date of this document and the coverage must be active on the day the work is accomplished.

Parts Coverage: Textron Aviation-owned and Textron Aviation-authorized Service Facilities, operators, or other maintenance facilities may submit a claim for the parts required to accomplish this service document as defined in the *Material Availability* section of this document.

Labor Coverage: Textron Aviation-owned and Textron Aviation-authorized Service Facilities rated to perform maintenance on the specific model of Cessna Aircraft may submit a claim for the labor necessary to accomplish this service document as defined in the *Labor Hours* section of this document.

Credit Application: After this service document has been accomplished, a claim must be submitted to Textron Aviation within 30 days of the service document completion. Claims for compliance of this service document are to be filed as a W4 type claim.

Please submit your claim form online at ww2.txtav.com/Parts or email the completed Textron Aviation Claim Form to warranty@txtav.com. If submitted on-line a Return Authorization will be provided. If a paper claim is submitted your claim will be entered into the system and a Return Authorization will be sent to you.

The Return Authorization must accompany any required return parts (see *Material Availability*), to the point of purchase.

Parts to be returned to Textron Aviation Parts Distribution should be forwarded to:

Textron Aviation Parts Distribution
Warranty Administration
285 South Greenwich Road
Bldg B89, Docks 1-4
Wichita, KS 67206
USA

Expiration: August 28, 2022 (after this date the owner/operator assumes the responsibility for compliance costs)

Textron Aviation reserves the right to void continued airplane warranty coverage for the parts affected by this service document until the service document is accomplished.

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 to register.



Service Bulletin
Cabin Air Controller P/N: 52811-1102 & -1103

Document No: SB18-102

Revision: -

TEXTRON
SERVICE BULLETIN

SB18-102

REVISION: -

APPLICABLE TO:

CABIN AIR CONTROLLER
P/N: 52811-1102 AND 52811-1103
TEXTRON P/N: 9912661-11 AND 9912661-12

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PREPARED BY: NAME: Dylan Sirbaugh DATE: 10/11/2018
TITLE: Senior Design Engineer

APPROVED BY: NAME: Dylan Sirbaugh DATE: 10/31/2018
TITLE: Senior Design Engineer



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LOG OF REVISIONS

REV	DATE	DESCRIPTION	PREPARED	APPROVED
-	10/31/2018	Original Release	D. Sirbaugh	D. Sirbaugh



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<p>Document No: SB18-102</p>	<p>Revision: -</p>

1.0 BACKGROUND INFORMATION

Enviro Systems has prepared this Service Bulletin for the P/Ns: 52811-1102 and 52811-1103 Cabin Air Controller (Textron P/N: 9912661-11 and 9912661-12). These components are part of the aircraft Cabin Pressure Control System (CPCS).

The purpose of this service bulletin is to notify of a situation where when switching the controller into manual mode, the controller will register a built in test failure (BIT OK). This condition will remain present until the unit is reset by cycling power. During the failure condition, the controller becomes inoperative and automatic pressure control is lost. However, the mechanical limiters and dump features still function.

This service bulletin provides criteria to identify a suspect controllers.



2.0 COMPONENT INSPECTION

2.1. EFFECTIVITY

Below is a list of potentially affected components. When controllers have been reworked to correct the issue, a letter "A" will be placed after the serial number. If the controller serial number is listed below, and does not contain the letter A then it has the potential for this issue. Suspect controllers shall be returned to Enviro Systems.

The issue is not considered safety critical, as this issue does not affect the mechanical limiters. Additionally, the dump feature is still available. Because of this, controllers will have until 11/2020 to be removed and updated to correct the issue if the condition does not present itself.

Table 1: Component Effectivity

Part Number	QTY	S/N
52811-1102	1	825
52811-1102	1	856
52811-1102	1	904
52811-1102	1	919
52811-1102	1	1104
52811-1102	1	1260
52811-1102	1	1282
52811-1102	1	1309
52811-1102	1	1331
52811-1102	1	1331
52811-1102	1	1332
52811-1102	1	1397
52811-1103	1	1195
52811-1103	1	7001
52811-1103	1	7002
52811-1103	1	7003
52811-1103	1	7004
52811-1103	1	7005
52811-1103	1	7006
52811-1103	1	7007
52811-1103	1	7008
52811-1103	1	7009
52811-1103	1	7010
52811-1103	1	7011
52811-1103	1	7012
52811-1103	1	7013
52811-1103	1	7014
52811-1103	1	7015
52811-1103	1	7016
52811-1103	1	7017



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Part Number	QTY	S/N
52811-1103	1	7018
52811-1103	1	7019
52811-1103	1	7020
52811-1103	1	7021
52811-1103	1	7022
52811-1103	1	7023
52811-1103	1	7024
52811-1103	1	7025
52811-1103	1	7026
52811-1103	1	7027
52811-1103	1	7028
52811-1103	1	7029
52811-1103	1	7030
52811-1103	1	7031
52811-1103	1	7032
52811-1103	1	7033
52811-1103	1	7034
52811-1103	1	7035
52811-1103	1	7036
52811-1103	1	7037
52811-1103	1	7038
52811-1103	1	7039
52811-1103	1	7040
52811-1103	1	7041
52811-1103	1	7042
52811-1103	1	7043
52811-1103	1	7044
52811-1103	1	7045
52811-1103	1	7046
52811-1103	1	7047
52811-1103	1	7048
52811-1103	1	7049
52811-1103	1	7050
52811-1103	1	7051
52811-1103	1	7052
52811-1103	1	7053
52811-1103	1	7054
52811-1103	1	7055
52811-1103	1	7056
52811-1103	1	7057
52811-1103	1	7058
52811-1103	1	7059



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Part Number	QTY	S/N
52811-1103	1	7060
52811-1103	1	7061
52811-1103	1	7062
52811-1103	1	7063
52811-1103	1	7064
52811-1103	1	7065
52811-1103	1	7066
52811-1103	1	7067
52811-1103	1	7068
52811-1103	1	7069
52811-1103	1	7070
52811-1103	1	7071
52811-1103	1	7072
52811-1103	1	7073
52811-1103	1	7074
52811-1103	1	7075
52811-1103	1	7076
52811-1103	1	7077
52811-1103	1	7078
52811-1103	1	7079
52811-1103	1	7080
52811-1103	1	7081
52811-1103	1	7082
52811-1103	1	7083
52811-1103	1	7084
52811-1103	1	7085
52811-1103	1	7086
52811-1103	1	7087
52811-1103	1	7088
52811-1103	1	7089
52811-1103	1	7090
52811-1103	1	7091
52811-1103	1	7092
52811-1103	1	7093
52811-1103	1	7094
52811-1103	1	7095
52811-1103	1	7096
52811-1103	1	7097
52811-1103	1	7098
52811-1103	1	7099
52811-1103	1	7100
52811-1103	1	7101



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Part Number	QTY	S/N
52811-1103	1	7102
52811-1103	1	7103
52811-1103	1	7104
52811-1103	1	7105
52811-1103	1	7106
52811-1103	1	7107
52811-1103	1	7108
52811-1103	1	7109
52811-1103	1	7110
52811-1103	1	7111
52811-1103	1	7112
52811-1103	1	7113
52811-1103	1	7114
52811-1103	1	7115
52811-1103	1	7116
52811-1103	1	7117
52811-1103	1	7118
52811-1103	1	7119
52811-1103	1	7120
52811-1103	1	7121
52811-1103	1	7122
52811-1103	1	7123
52811-1103	1	7124
52811-1103	1	7125
52811-1103	1	7126
52811-1103	1	7127
52811-1103	1	7128
52811-1103	1	7129
52811-1103	1	7130
52811-1103	1	7131
52811-1103	1	7132
52811-1103	1	7133
52811-1103	1	7134
52811-1103	1	7135
52811-1103	1	7136
52811-1103	1	7137
52811-1103	1	7138
52811-1103	1	7139
52811-1103	1	7140
52811-1103	1	7141
52811-1103	1	7142
52811-1103	1	7143



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Part Number	QTY	S/N
52811-1103	1	7144
52811-1103	1	7145
52811-1103	1	7146
52811-1103	1	7147
52811-1103	1	7148
52811-1103	1	7149
52811-1103	1	7150
52811-1103	1	7151
52811-1103	1	7152
52811-1103	1	7153
52811-1103	1	7154
52811-1103	1	7155
52811-1103	1	7156
52811-1103	1	7157
52811-1103	1	7158
52811-1103	1	7159
52811-1103	1	7160
52811-1103	1	7161

