

TITLE

AIR CONDITIONING - ENVIRONMENTAL SYSTEM WIRING MODIFICATION FOR LOW FLOW IMPROVEMENT

EFFECTIVITY

MODEL	SERIAL NUMBERS
Super King Air B200GT	BY-207, BY-239, BY-250 thru BY-381
Super King Air B200CGT	BZ-1

REASON

Due to stray voltage, the flow control system will sometimes not run in low flow mode when commanded. Environmental system requires diode isolation to allow operation in Low Flow setting. Without this change, system may continue running in Hi Flow regardless of setting.

DESCRIPTION

This service document provides parts and instructions to add a diode to the wiring for the cabin temperature control unit.

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.

APPROVAL

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

October 6, 2020

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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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FLIGHT CREW OPERATIONS

No Changes

CONSUMABLE MATERIAL

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

TOOLING

No specialized tooling is required for accomplishment of this service document.

WEIGHT AND BALANCE INFORMATION

Negligible

REFERENCES

Super King Air B200GT/B200CGT Fusion Maintenance Manual.

PUBLICATIONS AFFECTED

B200GT/B200CGT Fusion Wiring Diagram Manual.

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 external electrical power.
 - (2) Disconnect the airplane battery.
 - 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 center aisle floor board to gain access to the cabin temperature controller. (Refer to the King Air Maintenance Manual, Chapter 6, Airplane Access Panels - Description and Operation).
3. Do the wiring modification.
 - A. Cut the D34A22 Wire.
 - B. Slide the 106242G44-00400 Heat Shrink Tubing onto the D34A22 Wire.
 - C. (Refer to Figure 1.) Install the 132408-22 Diode on the D34A22 Wire with two M81824/1-2 Splices. (Refer to the King Air Standard Practice Chapter 20 – Airframe, Electrical Wiring – Maintenance Practices).
 - D. Install the 106242G44-00400 Heat Shrink Tubing over the Diode.
 - E. Use the heat gun to heat and shrink tubing.
4. Remove the maintenance warning tags and connect the airplane battery.
5. Connect a laptop to the Keith controller and utilizing PuTTY program ensure the environmental system goes to the low selection when selected and normal when selected normal.

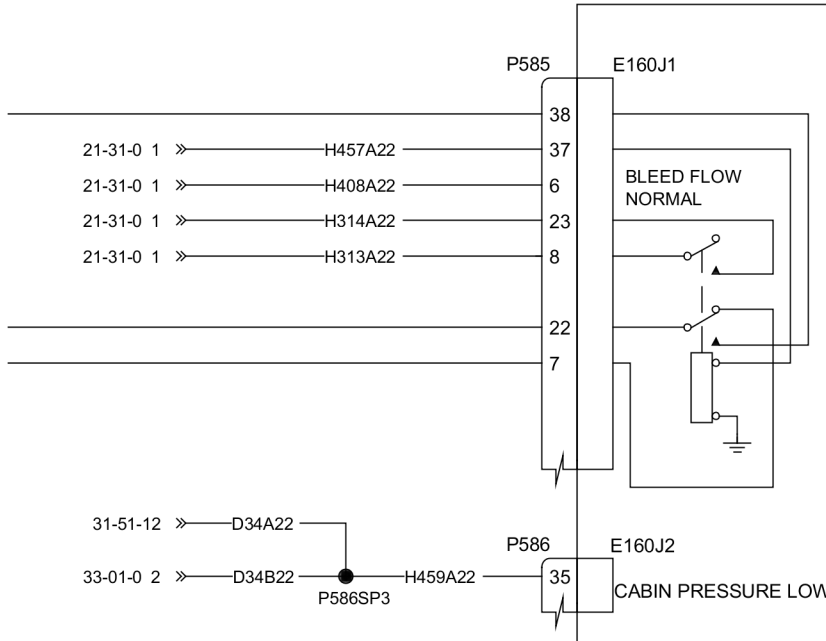
NOTE: The Keith Controller will connect to P586 plug.
6. Do the ground check of the bleed air flow rate. (Refer to the King Air Maintenance Manual, Chapter 21, Bleed Air Flow Rate - Inspection/Check).
7. Install the center aisle floorboard. (Refer to the King Air Maintenance Manual, Chapter 6, Airplane Access Panels - Description and Operation).

8. Make an entry in the airplane logbook that states compliance and method of compliance with this service document.

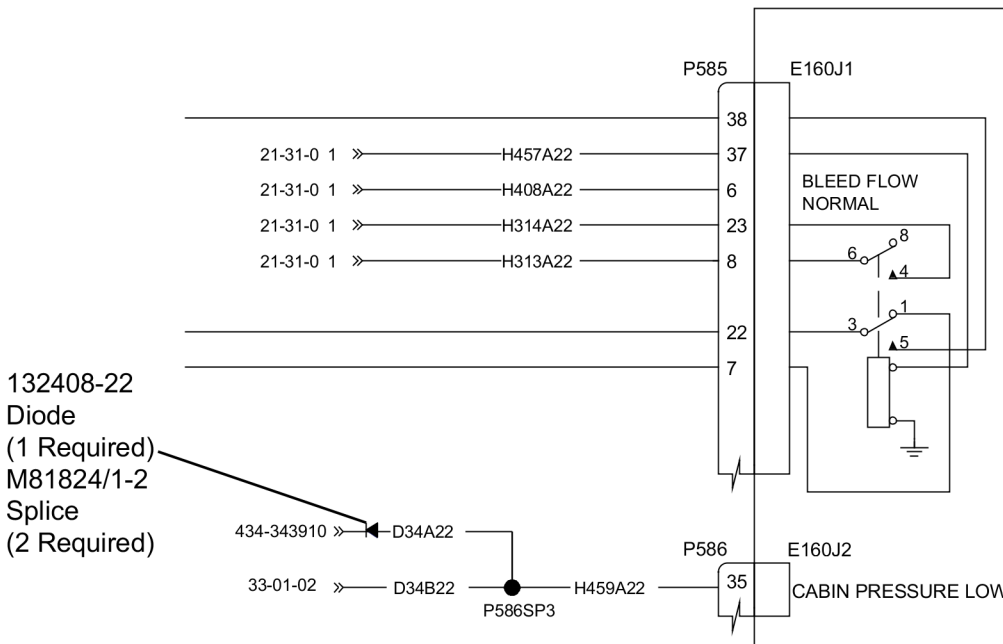
NOTE: Textron Aviation recommends that compliance with all service documents is reported to Camp Systems International.

- 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.

E75617



Before Modification



After Modification

NOTE: The Keith Controller will connect to P586 plug.

434-360200
 130M360138

Figure 1. Low Flow Improvement Wiring Modification (Sheet 1)

MATERIAL INFORMATION

Order the kit/parts below to install this modification.

NEW P/N	QUAN- TITY	KEY WORD	OLD P/N	INSTRUCTIONS/ DISPOSITION
MTB-21-01	1	Kit , consisting of the following parts:		
132408-22	1	Diode	N/A	Install
106242G44-00400	1	Heat Shrink Tubing, 4-inch precut	N/A	Install (-00400 in PN indicates 4 inches)
M81824/1-2	2	Splice	N/A	Install
MTB-21-01	1	Instructions		

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AIR CONDITIONING - ENVIRONMENTAL SYSTEM WIRING MODIFICATION FOR LOW FLOW IMPROVEMENT

TO:

Beechcraft Model B200GT and B200CGT Aircraft Owner

REASON

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LABOR HOURS

WORK PHASE	LABOR-HOURS
Modification	4.0

MATERIAL AVAILABILITY

PART NUMBER	AVAILABILITY	COST
MTB-21-01	*	*

* 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.

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.

October 6, 2020

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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 Beechcraft 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: October 6, 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.