

**Aviation Fabricators Inc.  
805 North Fourth Street  
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## **INSTRUCTIONS FOR CONTINUED AIRWORTHINESS**

For

Aft Jump Seat Assembly

**Document No.: AF-493**

**Revision "B"**

**Revision Date: 10-01-19**

**Applicable to:**

**Textron Aviation models 100, A100, B100,  
200, 200C, 200CT, 200T, A200, A200C, A200CT,  
B200, B200C, B200CT, B200T, B200GT, B200CGT,  
300, 300LW, B300, B300C**

**Modified by FAA STC SA00635WI**

The information in the Instruction for Continued Airworthiness is FAA accepted material and complies with 14 CFR 23.1529, Instructions for Continued Airworthiness. It supersedes or adds to that provided in the Maintenance Manual for the Beechcraft 100, 200, & 300 Series Aircraft, only where covered in the items contained herein. For limitations and procedures not contained in the Supplement, consult the Component Maintenance Manual, or other approved airplane data.

**REVISION PAGE**

Document Title: Instructions for Continued Airworthiness

Prepared By: Todd Pogue

<b>Log of Revisions</b>				
<b>REV. NO.</b>	<b>EFFECTED PAGE(S)</b>	<b>DESCRIPTION</b>	<b>DATE</b>	<b>APPROVED BY</b>
Orig. Issue	All	Initial Release	01/28/10	G.R. Lowe III
A	All	*Added Section 11, Troubleshooting, p10 *Updated Section 10 to latest format, p10	02/05/13	Jeffrey R. Lowe
B	All	*Added Figure 1.0B for Optional Inboard Armrest, p 5 *Added "Optional Inboard Armrest Removal and Installation" paragraph in Section 9.0, p 9 *Removed models A100A and A100C from listing per TCDS A14CE, p. 1	10/01/19	Jeffrey R. Lowe

Per the requirement of Appendix G of 14 CFR Part 23 paragraph G23.1 (c), the changes made to the ICA by the applicant will be distributed via mail by means of paper copy.

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## **1.0 INTRODUCTION**

The purpose of this Maintenance Manual Supplement and Instructions for Continued Airworthiness (ICA) is to provide the maintenance technician with the information necessary to ensure the continued airworthiness of the Aviation Fabricators aft jump seat installation, per installation numbers 32-0155K & 32-0156K, when installed in accordance with Aviation Fabricators design data included on STC Data List AF-209 and per Supplement Type Certificate (STC) SA00635WI.

Modifications to an aircraft obligates the operator to include the maintenance information provided by this document into the operators aircraft Maintenance Manual and operator's aircraft scheduled maintenance program. This document defines supplementary maintenance operations and frequencies recommended by Aviation Fabricators Inc., to ensure the aircraft's airworthiness.

The information contained herein addresses the requirements specified in 14 CFR 23.1529, Instructions for Continued Airworthiness and supplements the basic Airplane Maintenance Manual only in those areas listed as pertains to the installation of the aft jump seat assemblies, as installed per the Aviation Fabricator STC Data List AF-209. For limitations and procedures not contained in this supplement, consult the basic Airplane Maintenance Manual.

### **DATA**

All information to support the continued airworthiness of this modification is contained in:

STC SA00635WI

STC Data List: AF-209 Rev. K or later approved revision.

The installation of the new aft jump seats require the aircraft to already have the floor boards, side wall parts, and the oxygen system installations in them. The new seats are installed on to existing floor fittings that are attached to the floor board panels and attached at the outboard points with "U" brackets into existing side wall supports.

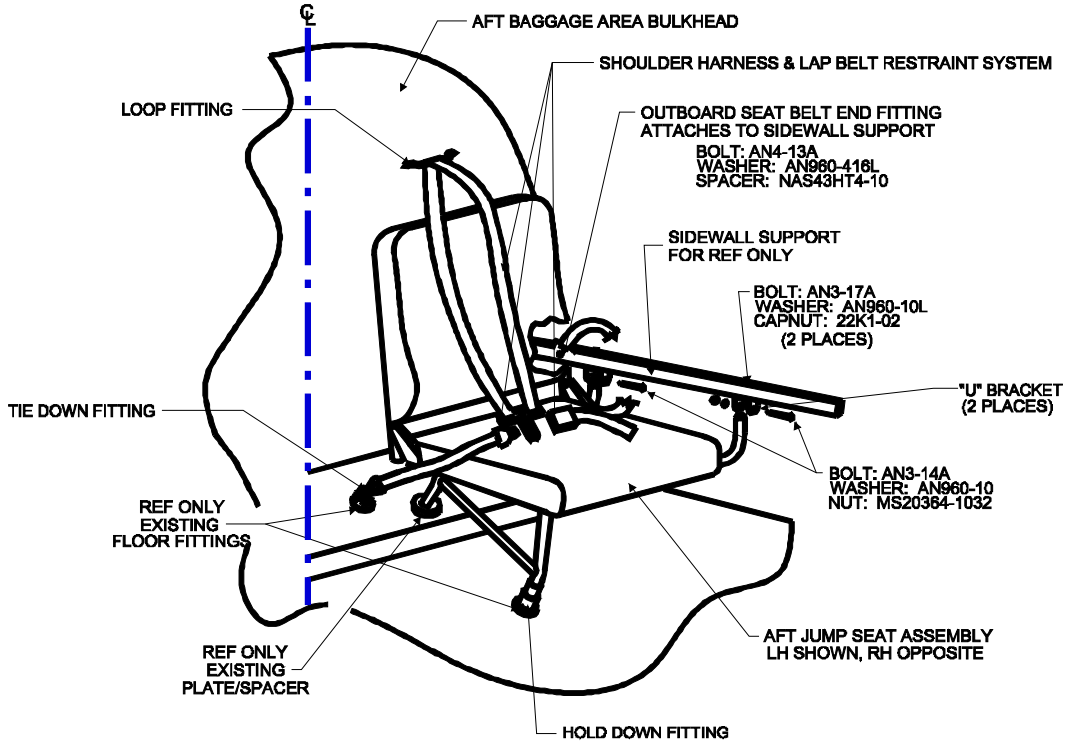


Figure 1.0A

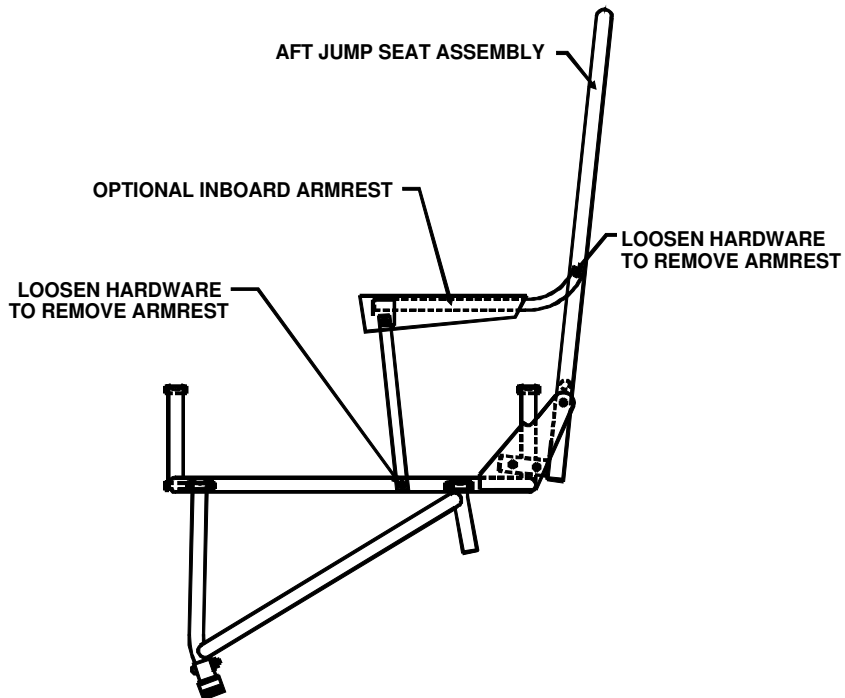


Figure 1.0B

## 2.0 INSPECTION REQUIREMENTS AND OVERHAUL SCHEDULE

1. To comply with 14 CFR Part 23.1529, continue the seat installation on the same inspection and maintenance schedule used per the Beechcraft Maintenance Manual for passenger seating.
  - a. The new seat requires no service other than inspection at normal inspection interval of 200 hours.
  - b. The safety belts require no service other than inspection at normal inspection interval of every 24 months.
  - c. Perform a detailed visual inspection of the seat bottom and back cushions and the covering of the seat assembly to detect apparent or obvious defects or irregularities.

On the cushion assemblies, check for cracks and punctures within a 4" diameter circle. The cushion assembly can have no more than three defects found within the 4" diameter circle. If a cushion develops a "lump", check to see if there are no more than two lumps within a 4" diameter circle. Any damage to the cushions outside of the described limits will require them to be replaced.

Visually inspect the covering assemblies for holes, punctures, and tears. If the damage to the covering is holes smaller than 1/2" in diameter or a cut at a maximum of 2" in length then the covering is satisfactory. The sewing of the cover assemblies cannot have a tear or cut exceeding 1" in length. Any damage to the covering assemblies outside of the described limits will require them to be replaced.

- d. Visually inspect the seat assembly tubing and diaphragm for cracks and deformation. Damaged conditions can be detected as a crack at the edge of the tube or along the length of the tubes or as a crack, tear or cut found on the seat bottom diaphragm. Visually inspect all hardware for excessive wear before and after installation.

Replace the bottom diaphragm if two cracks or deformations are found within a 4" diameter circle. If a tear or cut is found with a maximum 6" length, replace the diaphragm.

There shall be no broken tubes. There shall be no sharp corners, edges, or protrusions that may injure passengers. Replace the tubes if they are bent in such a way that they are more than 2" off center. Replace the seat tubes if crack length is found to be .125" or greater. Replace the tube if a dent is found running longer than 3". Replace the seat tubes if deformation is greater than .25" the overall thickness of the tube diameter.

Cracked or broken fasteners or fittings are to be replaced with new immediately.

For repair or replacement of damaged or broken parts or assemblies contact Aviation Fabricators Inc.

Annual and/or 200 hour inspection

1. The modified systems require no service other than inspection at normal inspection intervals.

**Table 2.0**

Task Code			Schedule	Date	Mech	Insp
AFI-100	a.	Inspect for damage to upholstery.				
AFI-101	b.	Inspect safety belts for wear, cuts, fraying, damage, and deterioration.				
AFI-102	c.	Inspect safety belt attachment fittings for wear and damage				
AFI-103	d.	Inspect foot fittings for damage, security, and function.				
AFI-104	e.	Inspect seat frame for damage, and corrosion.				
AFI-105	f.	Inspect overall seat for fit and function.				

**3.0 DIMENSION AND ACCESS:**

The installation of the new seat does not change the dimensions of the aircraft or alter the access to any existing aircraft system.

**4.0 LIFTING AND SHORING**

No change.

## 5.0 LEVELING AND WEIGHING

LH Seat w/ Upholstery and Restraints	= 15.0 lbs
RH Seat w/ Upholstery and Restraints	= 15.0 lbs
Optional Armrest	= 1.5 lbs

## 6.0 TOWING AND TAXIING

No change.

## 7.0 PARKING AND MOORING

No change.

## 8.0 PLACARDS AND MARKINGS

No change.

## 9.0 SERVICE INFORMATION

Installation: STC Data List: AF-209 Rev. K or later approved revision.  
Drawing D-10148

Parts: Refer to 32-0155 & 32-0156 and respective drawings as listed on STC  
Data List AF-209.

### Typical Seat Service Instructions:

#### Seat Upholstery Cleaning:

1. Remove seat back and seat bottom cushion assemblies from seat assembly.
2. If possible dry clean fabric cushions.
3. If dry cleaning is not possible clean fabric with Armour All fabric cleaner or equivalent.
4. Clean leather with Armour All leather cleaner or equivalent.
5. Clean and inspect restraint system for damage, fraying, cuts or seam deterioration.
6. Inspect all attachment fittings and replace if necessary.
7. Inspect overall seat for fit and function.



## **Typical Seat Maintenance Instructions:**

### **Seat Assembly:**

The aft jump seats are installed on to existing floor fittings that are attached to the floor board panels and attached at the outboard points with “U” brackets into existing side wall supports. See Figure 1.0A.

### **Seat Removal:**

To remove the seat from the aircraft: (1) remove the nut, bolt, and washer from the outboard “U” bracket that attaches the seat to the sidewall support, and (2) then lift the hold down fitting keeper to remove the leg from the floor board fitting. The “U” bracket can be removed by loosening the vertical bolt, nut, and washer that goes through the sidewall support.

### **Seat Installation:**

To install the seat into the aircraft: (1) attach the hold down fitting into the floor board fitting, (2) attach the “U” bracket to the sidewall support using a bolt, nut, and washer, and (3) attach the seat’s outboard fittings into the “U” bracket and secure with a bolt, nut, and washer.

### **Restraint System:**

The seat belt of the restraint system is removed by unhooking the tie down fitting from the floor board fitting on the inboard side of the seat and by loosening the bolt, washer, and spacer from the outboard location in the sidewall support. The shoulder harness is removed from the loop fitting attached to the aft bulkhead. Reverse this procedure to install the restraint system. See Figure 1.0A.

### **Optional Inboard Armrest Removal and Installation:**

The optional inboard armrest is can be removed as desired by loosening the attaching hardware at two points as shown in Figure 1.0B. It can be installed by using the same hardware and tightening into place at two the same two points.

## **10.0 AIRWORTHINESS LIMITATIONS**

The Airworthiness Limitations section is FAA approved and specifies maintenance required under Sec. 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

There are no Airworthiness Limitations to the aircraft with the addition of the aft jump seat assembly installed by this STC.

## **11.0 TROUBLESHOOTING**

Refer to the existing Aircraft Maintenance Manual for troubleshooting the aft jump seat installation that is required beyond the information found on the installation drawings per STC Data List AF-209.

For replacement parts or repair of damage parts:

Contact Aviation Fabricators at (660) 885-8317.

Troubleshooting this installation should only be accomplished by FAA approved repair stations with the appropriate ratings or appropriately rated operator/individuals, with required test equipment and service data.