# INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

For

Lateral Tracking Seat Bases

## Document No.: AF-563

**Revision "A"**

**Revision Date: 11/20/19**

**Applicable to:**

Textron 65-90, 65-A90, B90, C90, E90, H90, C90A, F90,
100, A100, A100A, A100C, B100, 200, 200C, 200T, 200CT,
A200, A200C, A200CT, B200, B200C, B200CT, B200T,
300, 300LW, B300, B300C

**Modified by FAA STC SA00453WI**

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 Textron 90, 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

Updates to the ICA will be made by Aviation Fabricators Inc. Updates will be listed in the log of revisions and the effective pages will be listed below.

**Log of Revisions**

| REV. NO. | EFFECTED PAGE(S) | DESCRIPTION | DATE | APPROVED BY |
|---|---|---|---|---|
| IR | All | Initial Release | 06/18/13 | JRL |
| A | All | *Updated applicable aircraft listing on page 1 and 6 to say “Textron” from Beechcraft<br>*Changed Seat descriptions on page 5 for P/N’s 32-0357 and 32-0358 to say “RH Forward Facing, LH Aft Facing w/ Non Captive Feet” and LH Forward Facing, RH Aft Facing w/ Non Captive Feet” | 11/20/19 | GRL |

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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DESCRIPTION PAGE

## ABBREVIATIONS AND DEFINITIONS

| Abbreviations | Definitions |
|---|---|
| AML | FAA Approved Model List (AML) |
| Detailed Inspection (DET) | An intensive examination of a specific item, installation or assembly to detect damage, failure or irregularity. Available lighting is normally supplemented with a direct source of good lighting at an intensity deemed appropriate. Inspection aids such as mirrors, magnifying lenses, etc. may be necessary. Surface cleaning and elaborate access procedures may be required. |
| FAA | Federal Aviation Administration |
| FAA MIDO | FAA Manufacturing Inspection District Office |
| General Visual Inspection (GVI) | A visual examination of an interior or exterior area, installation or assembly to detect obvious damage, failure or irregularity. This level of inspection is made from within touching distance unless otherwise specified. A mirror may be necessary to enhance visual access to all exposed surfaces in the inspection area. This level of inspection is made under normally available lighting conditions such as daylight, hangar lighting, flashlight or droplight and may require removal or opening of access panels or doors. Stands, ladders or platforms may be required to gain proximity to the area being checked. |
| ICA | Instructions for Continued Airworthiness |
| Special Detailed Inspection (SDI) | An intensive examination of a specific item, installation , or assembly to detect damage, failure or irregularity. The examination is likely to make extensive use of specialized Inspection Techniques and/or equipment. Intricate cleaning and substantial access or disassembly procedure may be required. |
| STC | Supplemental Type Certificate |

## 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 lateral tracking seat base installations, per seat base part numbers 32-0240, 32-0241, 32-0357, and 32-0358 when installed in accordance with Aviation Fabricators design data included on STC Data List AF-171 per Supplement Type Certificate (STC) SA00453WI.

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 portable stretcher, as installed per the Aviation Fabricators STC Data List AF-174. For limitations and procedures not contained in this supplement, consult the Airplane Maintenance Manual.

### DATA

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

STC SA00453WI.
STC Data List: AF-174.

Installation: Installation Instructions D-10137

Lateral Tracking Seat Bases, Single Lever Pin Lock

| | |
|---|---|
| 32-0240 | RH Forward, LH Aft Facing w/ Captive Feet |
| 32-0241 | LH Forward, RH Aft Facing w/ Captive Feet |
| 32-0357 | RH Forward, LH Aft Facing w/ Non Captive Feet |
| 32-0358 | LH Forward, RH Aft Facing w/ Non Captive Feet |

The lateral tracking seat base is a self contained assembly that mounts to the existing seat track in the aircraft cabin. The unit replaces existing seat bases on OEM seats by mounting the new lateral tracking seat bases with like hardware.

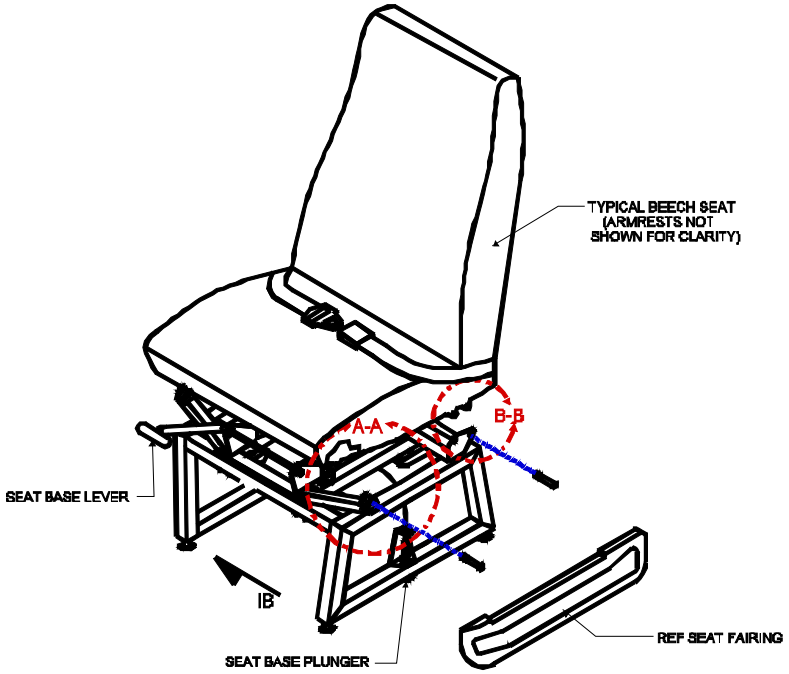
**Design Change Control**

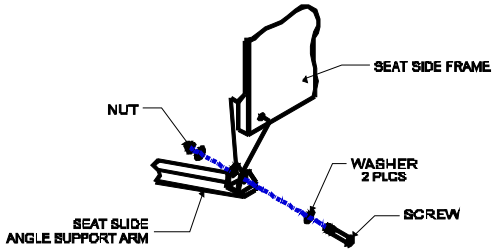
All data and changes to the parts and assemblies will be tracked per STC Data List AF-174 Rev K or later approved revision.

**Applicable Aircraft**

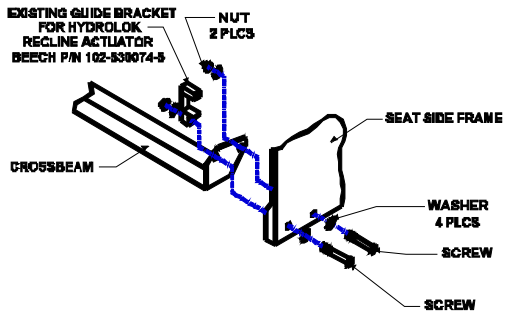
Textron 65-90, 65-A90, B90, C90, E90, H90, C90A, F90, 100, A100, A100A, A100C, B100, 200, 200C, 200T, 200CT, A200, A200C, A200CT, B200, B200C, B200CT, B200T, 300, 300LW, B300, B300C

Lateral Tracking Seat Base Assemblies
P/N's 32-0240, 32-0241, 32-0357(shown), 32-0358




SECTION A-A – SEAT FORWARD CROSSBEAM
TYPICAL EACH SIDE




SECTION B-B -- SEAT AFT CROSSBEAM
TYPICAL EACH SIDE

**Figure 1.0A**

## Shroud Installation Kits

P/N's 32-0401K-1 (shown) and 32-0401K-2

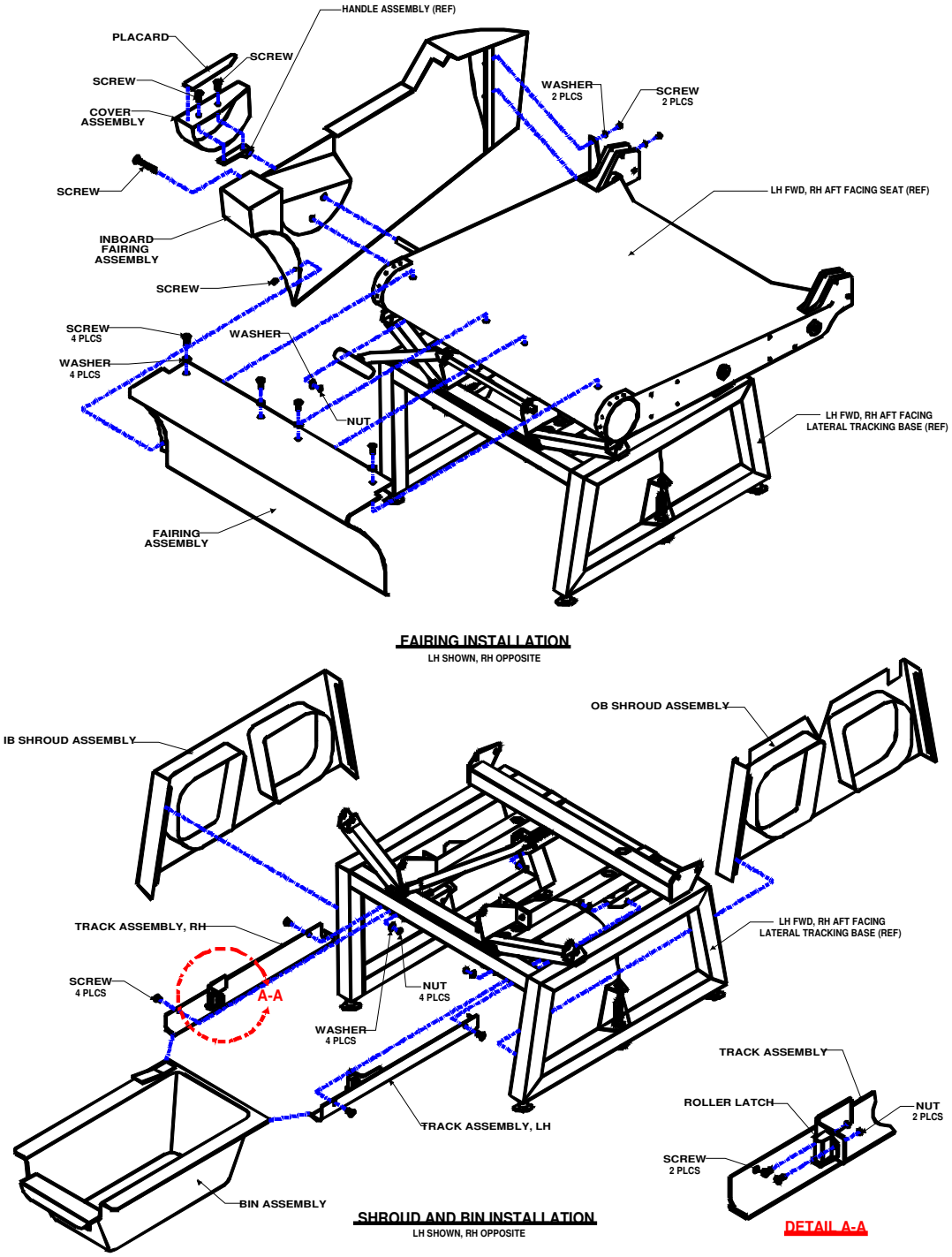



**Figure 1.0B**

## 2.0 INSPECTION REQUIREMENTS AND OVERHAUL SCHEDULE

1. To comply with14 CFR 23.1529, continue the new lateral tracking seat base on the same inspection and maintenance schedule used per the applicable Beechcraft Maintenance Manual for passenger seats.

   a. The new lateral tracking seat base requires no service other than inspection at normal inspection interval of the seat assembly per the Beechcraft Maintenance Manual.

   b. Visually inspect the lateral tracking seat base tubing 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. Visually inspect all hardware for excessive wear before and after installation.

      There shall be no broken tubes. There shall be no sharp corners, edges, or protrusions that may injure passengers. Replace the lateral tracking seat base 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 lateral tracking seat base 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.

2. Inspection Time Limit for Lateral Tracking Seat Base Installations:

   Phase 4 inspection at 800 hours or 24 months whichever occurs first for the seat base assembly

| **Task Code** | | | Schedule | Date | Mech | Insp |
|---|---|---|---|---|---|---|
| | | | | | | |
| AFI-101 | a. | Inspect foot fittings for damage, security, and function. | | | | |
| | | | | | | |
| AFI-102 | b. | Inspect frame for damage, and corrosion. | | | | |
| | | | | | | |
| AFI-103 | c. | Inspect shrouds, fairings, and bin for damage, security and function. | | | | |
| | | | | | | |
| AFI-104 | d. | Inspect overall lateral tracking seat base for fit and function. | | | | |
| | | | | | | |

## 3.0 DIMENSION AND ACCESS:

The installation of the lateral tracking seat base 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

Lateral Tracking Seat Base Assemblies:
32-0240 and 32-0241 = 13.0 lbs
32-0357 and 32-0358 = 12.5 lbs

Shroud Kits:
32-0401K-1 and 32-0401K-2 = 3.0 lbs

## 6.0 TOWING AND TAXIING

No change.

## 7.0 PARKING AND MOORING

No change.

## 8.0 PLACARDS AND MARKINGS

1. Placard p/n 10-0189 must be placed in plain view of the seat occupant on the aircraft side panel for lateral tracking seat base installations:

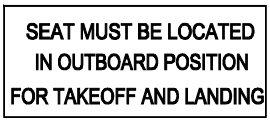



**Figure 8.0A**

## 9.0 SERVICE INFORMATION

### Typical Lateral Tracking Seat Base Service Instructions:

Refer to Figure 1.0A

To remove from existing upper seat:

1. Remove seat fairings.
2. Remove screws, nuts, and washers from 4 locations to remove seat base from upper seat assembly.

To remove from cabin track:

1. Non Captive:
   a. Lift seat base lever to raise plungers and move seat base forward or aft so that feet can be removed from cabin track by lifting upward.
2. Captive:
   a. Lift seat base lever to raise plungers and move seat base forward or after to the end of seat track

To install onto existing upper seat:

1. Attached seat base with screws, nuts, and washer 4 locations to upper seat base assembly.
2. Attached seat fairings.

To install onto cabin track:

1. Non Captive:
   a. Place seat base on track in desired location on cabin seat track.
   b. Lift seat base lever to raise plungers and move seat base forward or aft so that feet will fall into cabin track.
   c. Lower seat base lever to that plunger lock into cabin track.
2. Captive:
   a. Lift the seat base lever and install seat base from end of seat track to desired location in the cabin.
   b. Lower seat base lever so that plungers will lock into cabin track.

### A. RECOMMENDED OVERHAUL PERIODS

No additional overhaul time limitations and requirements apply to the Aviation Fabricators Lateral Tracking Seat Base Installations.

## 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 Lateral Tracking Seat Base Assembly installed by this STC.

## 11.0 TROUBLESHOOTING

Refer to the existing Aircraft Maintenance Manual for troubleshooting the lateral tracking seat base installation that is required beyond the information found on the installation documents per STC Data List AF-174.

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.