

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

For

1 & 2 Place Side Facing Divans

**Document No.: AF-444**

**Revision "C"**

**Revision Date: 01/03/19**

**Applicable to:**

**Textron 560 (Encore) S/N 560-0539 thru 560-0750  
Textron 560 (Encore+) S/N 560-0751 thru 560-0815**

**Modified by FAA STC ST01139WI**

The information in the Instruction for Continued Airworthiness is FAA accepted material and complies with 14CFR 25.1529, Instructions for Continued Airworthiness. It supersedes or adds to that provided in the Maintenance Manual for the Cessna 560 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

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Reviewed By: Brian C. Adamson

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.

<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	05/18/09	STP, GRL
A	All	*Added Seat track inspection and wear limit to Section 2.0 and Inspection Table 2.0A. *removed information under Section 3.0 Dim and Access and labeled as no change *Updated Section 9.0 to include Divan installation and removal procedures and Maintenance Instructions for Divan Assembly, added seat track, Cushions, Seat Belts and shoulder harness.	07/07/09	STP, GRL
B	All	*Added Section 11, Troubleshooting *Updated Section 10, Airworthiness Limitations to latest format	06/03/13	STP, JRL
C	All	*Removed specific restraint system P/N from Section 8.0, Note 8.2 on page 12 due to various alternate P/N's being available	01/03/19	STP, JRL

Per the requirement of Appendix H of 14CFR Part 25 paragraph H25.1 (c), the changes made to the ICA by the applicant will be distributed via mail by means of paper copy.

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## ABBREVIATIONS AND DEFINITIONS

<b>Abbreviations</b>	<b>Definitions</b>
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, hanger 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 Inc. 1 & 2 Place Divan Assemblies, assembly part numbers 42-0323, 42-0326, and 42-0348, when installed in the right hand forward area of the aircraft passenger cabin in accordance with Aviation Fabricators design data included on STC Drawing List AF-342 and per Supplement Type Certificate (STC) No. ST01139WI.

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 14CFR 25.1529, Instructions for Continued Airworthiness and supplements the basic Airplane Maintenance Manual only in those areas listed as pertains to the installation of Divan Assemblies, as installed per the STC Drawing List AF-342. 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 ST1139WI.  
STC Drawing List AF-342 Rev L or later approved revision.

Installation Drawings:

D-10440 Two Place Divan Install Instructions (P/N 42-0323)  
D-10441 Two Place Divan Install Instructions (P/N 42-0326)  
D-10529 One Place Divan Install Instructions (P/N 42-0348)

Part Numbers:

P/N 42-0323 Two Place Divan Assembly (39 inch wide)  
P/N 42-0326 Two Place Divan Assembly (45 inch wide)  
P/N 42-0348 One Place Divan Assembly (24 inch wide)

The divan is a self contained complete assembly that mounts to the new seat track, using standard fittings, in accordance with FAA approved floor plans.

### Design Change Control

All data and changes to the parts and assemblies will be tracked per STC Drawing List AF-342 Rev L or later approved revision.

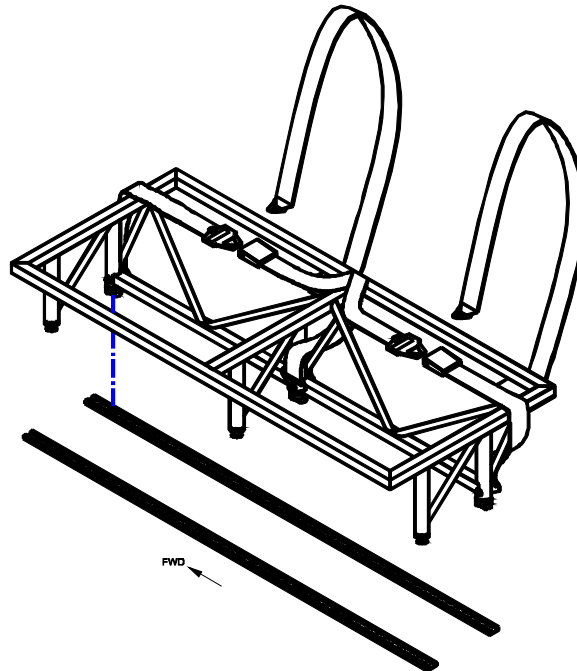
### Applicable Aircraft

Textron 560 (Encore) S/N 560-0539 thru 560-0750  
Textron 560 (Encore+) S/N 560-0751 t thru 560-0815

2 Place Divans

P/N 42-0323 39" 2 Place Divan and P/N 42-0326 45" 2 Place Divan (shown)

Top not shown for clarity.

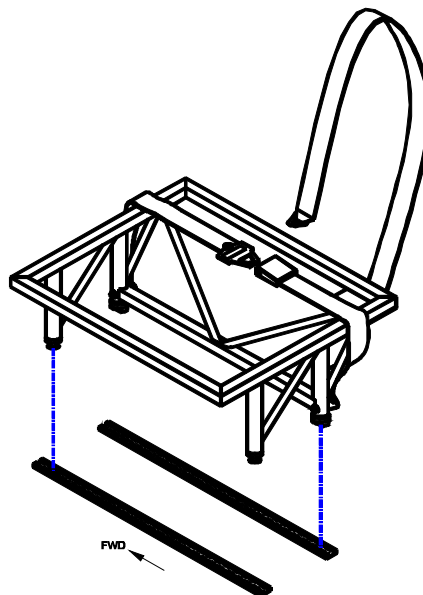


**Figure 1.0A**

1 Place Divan

P/N 42-0348 24" 1 Place Divan (Shown)

Top not shown for clarity



**Figure 1.0B**

Inertia Reel/Strap Harness Attachment

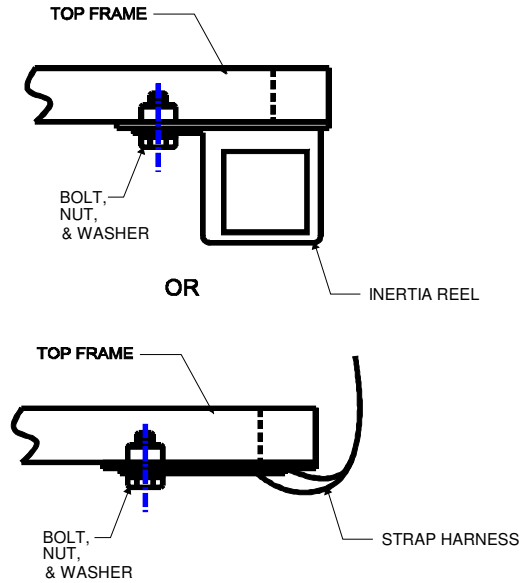


Figure 1.0C

Seat Belt Attachment

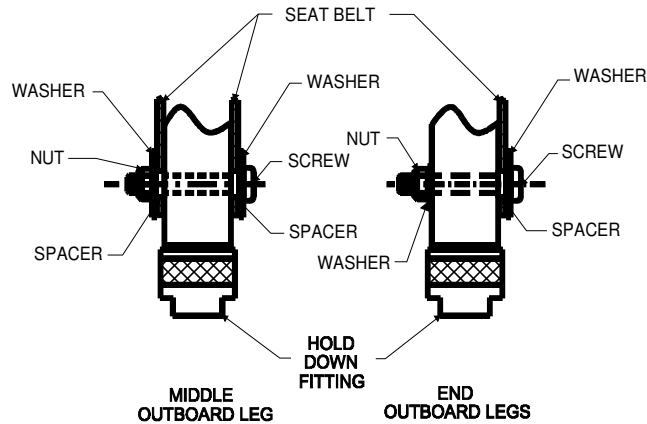


Figure 1.0D

Close-out Panel

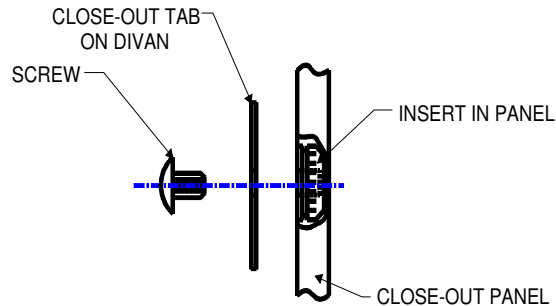


Figure 1.0E

Seat Track Attachment

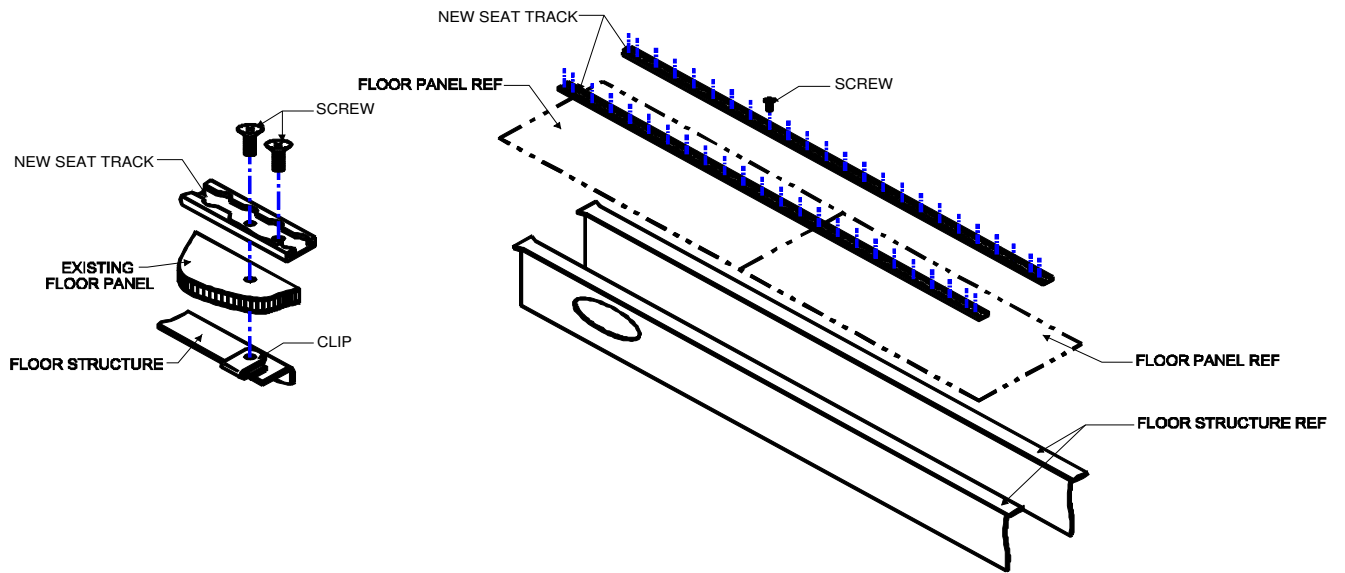
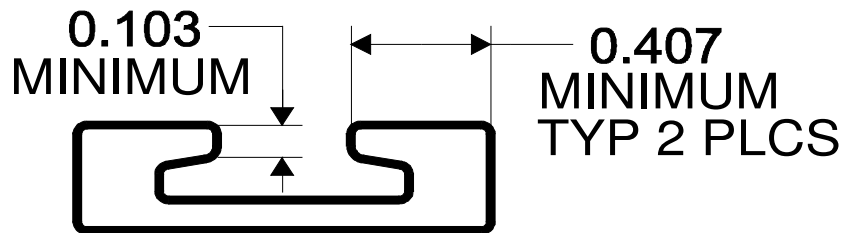


Figure 1.0F



## 2.0 INSPECTION REQUIREMENTS AND OVERHAUL SCHEDULE

1. To comply with 14CFR 25.1529, continue the new divan assemblies and restraint system on the same inspection and maintenance schedule used per the Cessna 560 Maintenance Manual for seats and divans.
  - A. The new divan and restraint system require no service other than inspection at normal inspection interval of 300 hours or 24 calendar months, whichever occurs first.
  - B. Perform a detailed visual inspection of each bottom and back cushion and cover to detect apparent or obvious defects, deterioration in the form of wear, tears, rips, punctures or irregularities that cause the cushion assembly to become worn or distorted. Replace the cushion assembly if this cover does not fit properly or the cushion develops a “lumpy” or irregular feel.
  - C. Perform a detailed visual inspection of each divan frame assembly including weld joints, diaphragm, fasteners and anchors, track fittings, seat belt and inertia reel assemblies to detect apparent or obvious defects, corrosion, cracks, large deformations (permanent deformation in frame tubes more than  $\frac{1}{4}$  the overall thickness of the tube diameter), irregularities that cause the frame assembly and/or anchor/fitting to become distorted and not fit into the intended seat track/anchor locations. .
  - D. Divan Seat Track Wear Limits:



2. Inspection Time Limit for 1 or 2 Place Side Facing Divan Assembly Installations:

Every 300 hours or 24 calendar months, whichever occurs first.

**Table 2.0A**

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 divan frame for damage, and corrosion.				
AFI-105	f.	Inspect overall divan for fit and function.				
AFI-106	g.	Inspect divan track for excessive wear.				
AFI-107	h.	Inspect divan track for corrosion.				

### **3.0 DIMENSION AND ACCESS:**

The installation of the 1 & 2 Place Side Facing Divan assemblies 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**

No change.

### **6.0 TOWING AND TAXIING**

No change.

### **7.0 PARKING AND MOORING**

No change.

## 8.0 PLACARDS AND MARKINGS

Up to 3 placards are required in conjunction with this modification:

1. Lifevest placard part number 15-0288 must be installed in plain view of the divan occupant.



**Figure 8.0A**

2. A placard of the restraint system must be installed and states: "HARNESS TO BE INSTALLED OVER THE OCCUPANT'S FORWARD SHOULDER" and is sewn onto restraint system and should be legible and easily viewed by the divan occupant.



**Figure 8.0B**

3. If optional close out panels are installed, placard part number 15-0060 must be installed on the top outside of the close-out panel door so that it is visible when the door is closed.



**Figure 8.0C**

## 9.0 SERVICE INFORMATION

### Typical Divan Service Instructions:

#### A. Upholstery Cleaning:

##### Divan Assembly Service Instructions

1. Remove divan back and divan bottom cushion assemblies from sidewall and divan top.
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/vinyl with Armour All leather cleaner or equivalent.
5. Clean close-out panel finish using Armour All multi-purpose cleaner or equivalent.
6. Clean and inspect restraint system for damage or excessive wear.
7. Inspect all attachment fittings and replace if necessary.
8. Inspect overall divan for fit and function.

### Typical Divan Maintenance Instructions:

#### Divan Assembly

The divans are self contained complete assemblies, refer to Figures 1.0A & 1.0B, that mount to new aircraft cabin seat track using standard fittings in accordance with approved floor plans. For the floorplans refer to documents AF-350 for P/N 42-0323K-01, AF-351 for P/N 42-0326K-01, and AF-412 for P/N 42-0348K-01 as listed on master drawing list AF-342.

#### Divan Installation

The installation of the divan requires (1) setting the divan into the correct location per floorplan drawings documents AF-350 for P/N 42-0323K-01, AF-351 for P/N 42-0326K-01, and AF-412 for P/N 42-0348K-01 as listed on master drawing list AF-342, and (2) sliding the divan forward or aft on the track to allow the hold down fitting keeper to lock in place.

#### Divan Removal:

Removal of the divan assembly requires (1) lifting the attaching hold down fitting keeper, (2) sliding the divan forward or aft to remove the hold down fitting keeper from locking into the seat track, and (3) lifting the divan from its previous location.

#### Seat Track Installation:

To install the seat track (1) remove the floor panels and locate the screw holes needed, (2) add clip nuts as necessary, (3) match drill #6 holes in track to existing floor structure, and (4) install track using screws, refer to Figure 1.0F.

#### Seat Track Removal:

Remove screws from seat track and remove track from floor.

#### Cushion Assembly (Cushion and Cover)

Divan back and divan bottom cushion assemblies are removed by simply pulling the cushion inboard away from the Velcro on the sidewall or up away from the Velcro on the pan of the divan assembly, respectively.

#### Seat Belt and Harness

Seat belt removal is accomplished by loosening attaching hardware and removing from the attaching points on of the divan legs, refer to Figure 1.0D.

The inertia reel harness and strap harness are removed by loosening attaching hardware from the bracket located under the divan top frame, refer to Figure 1.0C.

#### Closeout Panels

Underseat close-out panel removal is accomplished by removing screws from under the divan that are attached to inserts in back of panel and attached through tabs on divan frame. Ref. Figure 1.0E.

### **B. RECOMMENDED OVERHAUL PERIODS**

No additional overhaul time limitations and requirements apply to the Aviation Fabricators 1 & 2 Place side facing divans.

## **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 1 & 2 Place Side Facing Divans installed by this STC.

## **11.0 TROUBLESHOOTING**

Refer to the existing Aircraft Maintenance Manual for troubleshooting the 1 or 2 place divan installations that is required beyond the information found on the respective installation drawings listed on STC Drawing List AF-342.

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.