

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

For

Headrest Assembly

Document No.: AF-491

Revision "A"

Revision Date: 09/30/10

Applicable to:

**Cessna 172B, 172C, 172D, 172E, 172F, 172G, 172H, 172K, 172M, 172N, 172P, 172Q,
180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K, 182A, 182B, 182C,
182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182P, 182Q, R182, T182,
TR182, A185E, A185F, 207, 207A, T207, T207A, 210L, T210L, 210M, T210M, 210N,
P210N, T210N Aircraft**

PMA Part

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 appropriate Cessna 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

Reviewed By: _____

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	07/07/10	JRL
A	All	Removed models 172L, 182N, T210K, & 210K on pages 1 & 6	09/30/10	JRL

LIST OF EFFECTIVE PAGES

Page	Date	Rev
1	09/30/10	A
2	09/30/10	A
3	09/30/10	A
4	09/30/10	A
5	09/30/10	A
6	09/30/10	A
7	09/30/10	A
8	09/30/10	A
9	09/30/10	A

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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 Headrest Assembly installation, per installation number 18-0425, when installed in accordance with Aviation Fabricators design data included on drawing D-10544.

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 headrest assembly, as installed per the Aviation Fabricator drawing D-10544. 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:

Installation: Drawing D-10544

Parts: Refer to p/n 18-0425 per drawing D-10449

The new headrest assembly is a direct replacement headrest to be used on existing OEM seats. It is installed in the same manner as the existing headrest assemblies by inserting the headrest frame into the seat back supports. The headrest frame is made from steel tubing with a kydex shroud riveted to it.

Design Change Control

All data and changes to the parts and assemblies will be tracked per drawings D-10449 Rev D and D-10544 Rev (C) or later approved revisions.

Applicable Aircraft

Cessna 172B, 172C, 172D, 172E, 172F, 172G, 172H, 172K, 172M, 172N, 172P, 172Q, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182P, 182Q, R182, T182, TR182, A185E, A185F, 207, 207A, T207, T207A, 210L, T210L, 210M, T210M, 210N, P210N, T210N Aircraft

Headrest Assembly Installation

P/N 18-0425

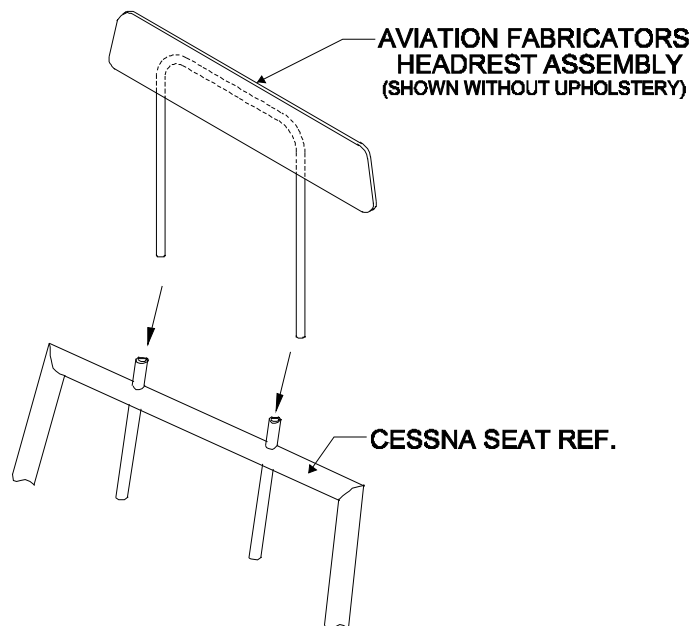


Figure 1.0A

2.0 INSPECTION REQUIREMENTS AND OVERHAUL SCHEDULE

1. To comply with 14 CFR 23.1529, continue the new headrest assembly on the same inspection and maintenance schedule used per the Cessna Maintenance Manual for passenger seats.

Annual and/or 100 hour inspection

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

Task Code			Schedule	Date	Mech	Insp
AFI-100	a.	Inspect for damage to upholstery.				
AFI-101	b.	Inspect frame for damage, and corrosion.				

- A. The new headrest assembly is on the same inspection and maintenance schedule used per the Cessna Maintenance Schedule for passenger seats.

3.0 DIMENSION AND ACCESS

The installation of the new headrest assembly 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

No change.

9.0 SERVICE INFORMATION

A. Upholstery Cleaning:

Headrest Service Instructions

1. If possible dry clean fabric covering.
2. If dry cleaning is not possible clean fabric with Armour All fabric cleaner or equivalent.
3. Clean leather with Armour All leather cleaner or equivalent.
4. Clean and inspect overall headrest assembly for fit and function.

Typical Headrest Maintenance Instructions:

Headrest Assembly

The headrest assembly is removed from the OEM seat by pulling upward on the headrest until the frame clears the seat back supports.

The headrest assembly is installed onto the OEM seat by inserting the headrest frame with the spring pins into the seat back supports and pushing down.

B. No additional overhaul time limitations and requirements apply to the Aviation Fabricators' headrest assembly

10.0 AIRWORTHINESS LIMITATIONS

The information contained herein supplements the basic Maintenance Manuals only in those areas listed, when the aircraft is modified in accordance with Aviation Fabricators drawing D-10544 Rev (C) or later approved revision. For limitations and procedures not contained in this supplement, consult the basic Airplane Maintenance Manuals.

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.

AIRWORTHINESS LIMITATIONS - LOG OF REVISIONS			
REV.	EFFECTED PAGE (s)	DESCRIPTION of REVISION	DATE
(IR)	All	Initial Release	07/07/2010

AIRWORTHINESS LIMITATIONS

There are no Airworthiness Limitations to the aircraft with the addition of the headrest assembly installed per D-10544.

Distribution:

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.