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## INSTALLATION INSTRUCTIONS (II)

for installation of

# F. Atlee Dodge Weld-On Shoulder Harness Attach Bracket

On

Applicable PA-12 and PA-18 Aircraft

Document Number: II 3232W

### REVISION HISTORY

Revision	Description	Date
IR	Initial Release (IR)	05 Jul 2017

**For updated revisions of this document, it is the owner/operators responsibility to contact F. Atlee Dodge Aircraft Services, LLC. through our website or directly at the numbers given above.**

## 1 Introduction

This Installation Instruction (II) is intended to augment the information contained in the original aircraft maintenance manual or structural repair manual. Refer to AC 43.13-1B/2B for acceptable methods, techniques, and practices for inspection, repair, and alteration when there are no manufacturer repair or maintenance instructions.

### 1.1 Model Applicability

This document is applicable to the Makes and Models outlined in the Approved Model List (AML) associated with this STC.

## 2 Modification Description

This modification adds the FAD Weld-On Shoulder Harness Attach Bracket(s) (FAD P/N 3232W-1 for the front seat and P/N 3232W-2 for the rear seat) as shown below in figure 1.

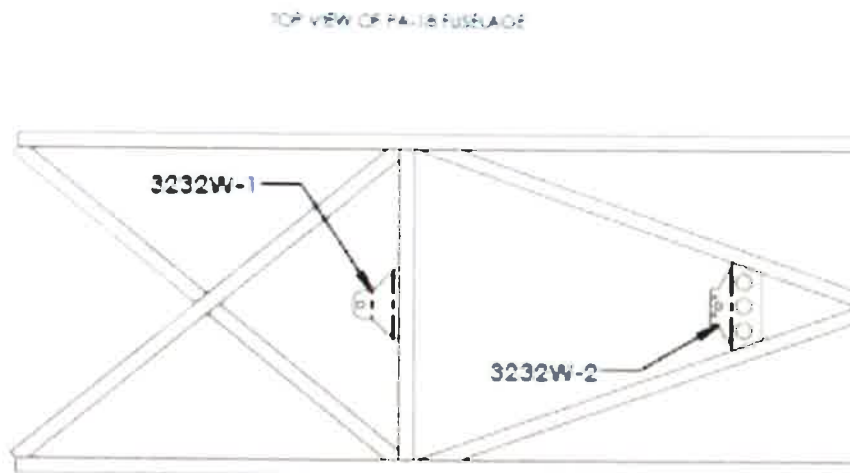


Figure 1  
FAD Front and Rear Seat Weld-On Shoulder Harness Attach Brackets

## 3 Installation

NOTE: Prior to installation of the shoulder harness attach bracket(s), it is assumed that the bracket(s) and the aircraft tubes are in an airworthy configuration.

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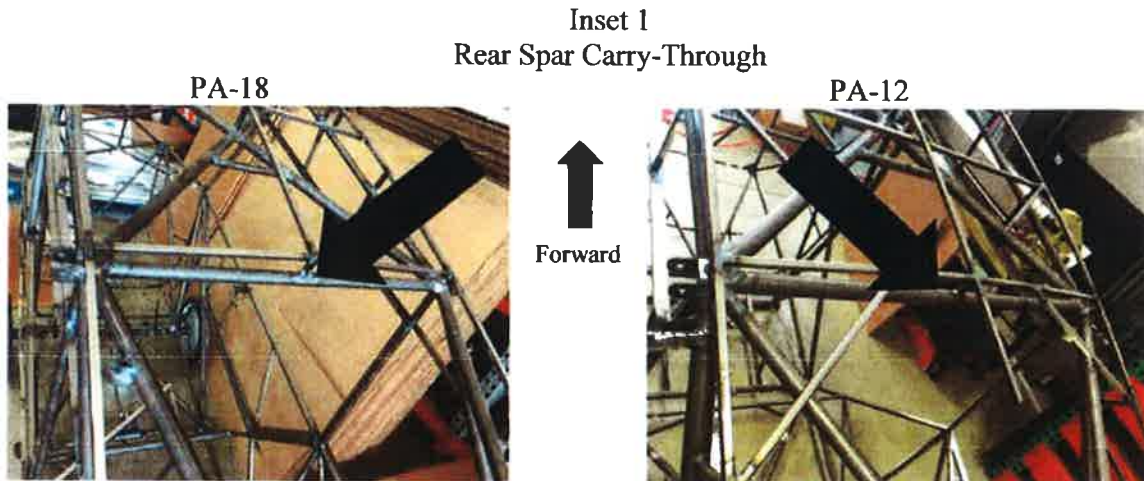
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### FRONT SEAT SHOULDER HARNESS ATTACH BRACKET (FAD P/N 3232W-1):

NOTE: For the PA-18 series aircraft, the top deck must be x-braced prior to installation of the forward weld on shoulder harness attach bracket. For those aircraft that are not already x-braced, it will be necessary to have STC#SA02011AK (Top Deck Assembly X-Brace) incorporated.

NOTE: For the PA-12 and PA-12S aircraft, it will be necessary to have STC#SA02379AK (Fuselage Top Deck X-Brace) incorporated prior to installation of the forward weld on shoulder harness attach bracket.

1. Refer to inset 1. Locate the rear spar carry through tube. For the PA-18, this is a 7/8" tube (P/N 10562-80) located at fuselage station 33 7/8". For the PA-12, this is a 1" tube located at fuselage station 66".



2. Find the center of this tube where a U-channel stanchion is welded on the upper side. Cut 1/8" off this stanchion so the bracket can slide between it and the tube.
3. Position the front shoulder harness attach bracket (P/N 3232W-1) on top of the fuselage tube with the bend oriented upward and the seat belt attach hole pointing forward (in the direction of pull).
4. Weld the front shoulder harness attach bracket in place.
5. Weld the U-channel stanchion to the top of the bracket which is now welded in place.
6. Trim the headliner channel to fit around the shoulder harness attach bracket as needed.
7. Make log book entry as required.

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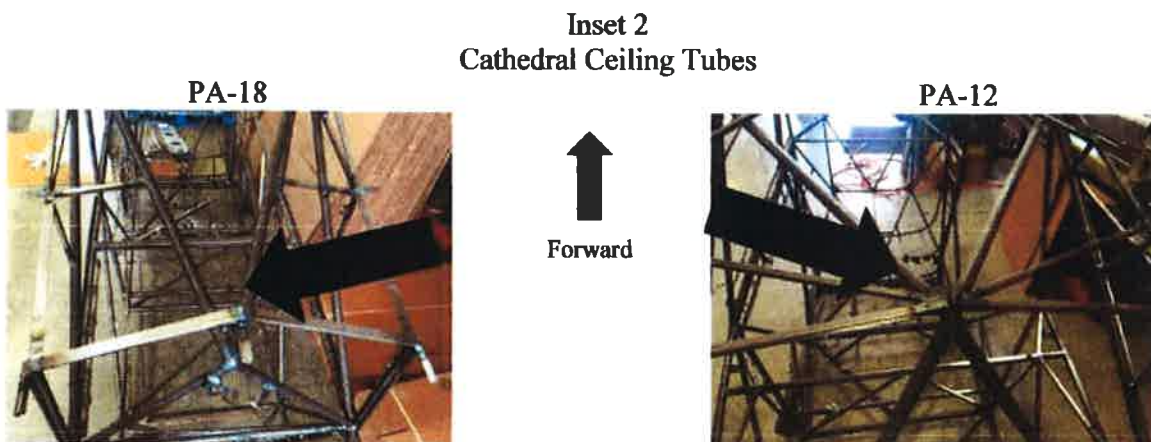
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### REAR SEAT SHOULDER HARNESS ATTACH BRACKET (FAD P/N 3232W-2):

NOTE: For the PA-12 and PA-12S aircraft, it will be necessary to have STC#SA02419AK (Cathedral-style Ceiling) incorporated prior to installation of the rear weld on shoulder harness attach bracket.

NOTE: Modifications to the headliner (either metal or fabric) may be required to install the rear shoulder harness attach bracket.

1. Refer to inset 2. Locate the tubes that form a “V” of the cathedral-type ceiling. For the PA-18, these are tubes 10562-78 and 10562-79. For the PA-12 with the cathedral ceiling STC incorporated, these are tubes 8026-01 and 8026-02.



2. Position the rear shoulder harness attach bracket (P/N 3232W-2) such the bracket is on the AFT section of the “V” with the bend oriented downward and the seat belt attach holes forward (in the direction of pull). For the PA-18, the bracket may be placed on top of the tubes or in-between. For the PA-12, the bracket is placed on top of the tube. Some trimming of the bracket may be required for a flush fit.
3. Weld the rear shoulder harness attach bracket in place.
4. Make log book entry as required.

## 4 Weight & Balance

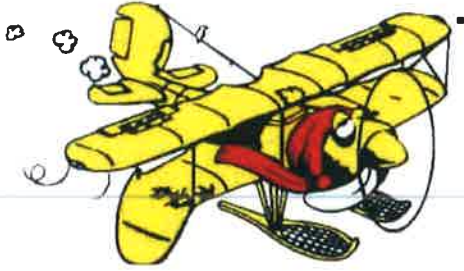
Weight for the front attach bracket is 5.5 oz. without the belt. Weight for the rear attach bracket is 7.0 oz. without the belt. The installer will determine the exact fuselage location as installed.

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## INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

for installation of

# F. Atlee Dodge Weld-On Shoulder Harness Attach Brackets

on  
Applicable Piper Aircraft

Document Number: ICA 3232W

**RETAIN THIS DOCUMENT WITH THE AIRCRAFT RECORDS**

### REVISION HISTORY

Revision	Description	Date
IR	Initial Release (IR)	07 July 2017

**For updated revisions of this document it is the owner/operators responsibility to contact F. Atlee Dodge Aircraft Services, LLC. through our website or directly at the numbers given above.**

**This document meets the requirements of 14 CFR 23.1529 (Appendix G). It is found acceptable to the FAA in accordance with the guidelines outlined in FAA Order 8110.54.**

**Any Airworthiness Limitations are FAA Approved and must be followed for all installations.**

F. Atlee Dodge Aircraft Services, LLC.  
Anchorage, AK

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## 1 Model Applicability

The data presented in this Instruction for Continued Airworthiness (ICA) is intended to augment the information contained in the original aircraft maintenance manual or structural repair manual. Additional information on acceptable methods, techniques, and practices for inspection, repair, and alteration can be obtained from a current version of FAA Advisory Circular (AC) 43.13-1B/2B.

This document is applicable to the Makes and Models outlined in the FAA Approved Model List (AML) associated with this STC.

## 2 Modification Description

This modification adds the FAD Weld-On Shoulder Harness Attach Bracket(s) (FAD P/N 3232W-1 for the front seat and P/N 3232W-2 for the rear seat).

### 2.1 Illustrated Parts

The weld-on shoulder harness attach brackets for the front and rear seats are shown below in figures 1 and 2, respectively.



Figure 1  
FAD P/N 3232W-1  
Front Seat Weld-On Shoulder Harness Attach Bracket



Figure 2  
FAD P/N 3232W-2  
Rear Seat Weld-On Shoulder Harness Attach Bracket

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### 3 Installation

Refer to FAD Installation Instructions (II) 3232W for illustrated installation instructions.

### 4 Maintenance Instructions

If repairs are required to the FAD Weld-On Shoulder Harness Attach Bracket, contact F. Atlee Dodge Aircraft Services, LLC by telephone at 907-344-1755.

#### 4.1 Inspection Requirement

The FAD Weld-On shoulder harness attach bracket(s) should be inspected, for wear, damage or deformation on a 100HR/annual or progressive basis in accordance with the applicable maintenance manual.

### 5 Airworthiness Limitations

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

No additional airworthiness limitations have been imposed by this modification.

This modification does not affect the airworthiness section of the FAA Approved Maintenance Manual.

----END----

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