

United States of America
 Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate

Number SA02433AK

This certificate issued to

F. Atlee Dodge Aircraft Services, LLC
 6672 Wes Way
 Anchorage, AK 99518

certifies that the change in the type design for the following product with the limitations and conditions hereinafter specified herein meets the airworthiness requirements of Part 25 of the Civil Air Regulations.

Original Product Type Certificate Number: * Refer to FAA Approved Model List (AML)
Make: AML-8038, dated May 2, 2014, or later FAA
Model: approved revision, for list of approved airplane models and applicable airworthiness regulations.

Description of Type Design Change:

Installation of F. Atlee Dodge Oversize rudder and/or elevator in accordance with F. Atlee Dodge Aircraft Services, LLC, Master Data List MDL-8038, Rev. 5, dated October 01, 2013 or later FAA approved revision.

Limitations and Conditions:

1. This type design approval for oversize elevators is limited to airplanes that are equipped with a PA-18 style horizontal tail in accordance with FAA approved data (see AML).
2. The installer must determine whether this design change is compatible with previously approved modifications.
3. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: July 26, 2011,

Date issued:

Date of issuance: May 2, 2014

Date amended:



By direction of the Administrator

August A. Asay

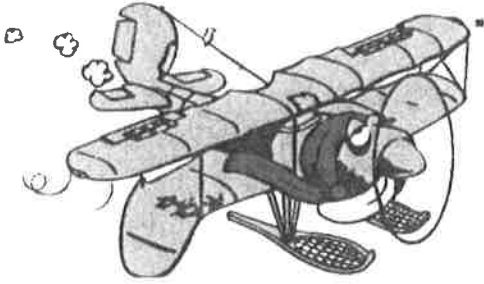
(Signature)

August A. Asay
 Manager, Anchorage Aircraft Certification Office

(Title)

AUTHORIZED TO INSTALL STC
 OMA MODEL
 N S/N
 AUTHORIZED BY F. ATLEE DODGE AIRCRAFT SERVICES LLC
 SIGNATURE
 SIGNATURE MUST BE SIGNED IN GREEN INK AND HAVE RAISED SEAL

FOR Viewing Purposes Only



F. Atlee Dodge Aircraft Services, LLC

6672 Wes Way * Anchorage, Alaska 99518

Phone: (907) 344-1755 * Fax: (907) 344-6720

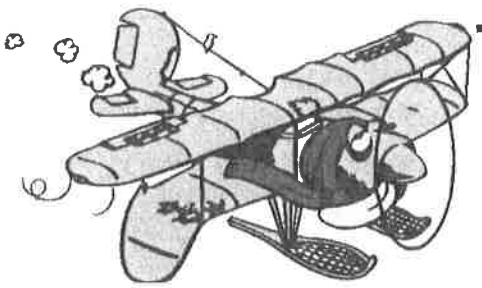
atleedodge@acsalaska.net ~ www.fadodge.com

FAA APPROVED MODEL LIST (AML)

for STC# SA02433AK

Installation of Oversize Rudder and/or Elevators on
Piper PA-18 Super Cub and Variants

Piper (or present Holder) Model Numbers	TCDS	Certification Basis	Required FAA Approved Data	Required FAA Approval for PA-18 style horizontal tail:
Piper PA-18, PA18S, PA-18 '105' (Special), PA-18S '105' (Special), PA-18A, PA-18 '125' (Army L-21A) PA-18S "125", PA-18AS "125", PA-18 '135' (Army L-21B), PA-18A '135', PA-18S '135', PA-18AS '135', PA-18 '150', PA-18A '150', PA-18S '150', PA-18AS '150', PA-19 (Army L-18C) PA-19S	1A2	CAR Part 3	Installation Instructions: II-8038 Instructions for Continued Airworthiness: ICA-8038 Additional Documents: (None)	N/A
(FS2002 Corp) PA-14	A-797	CAR Part 3	Installation Instructions: II-8038 Instructions for Continued Airworthiness: ICA-8038 Additional Documents: (None)	STC SA5-33
(FS2003 Corp) PA-12, PS-12S	A-780	CAR Part 3	Installation Instructions: II-8038 Instructions for Continued Airworthiness: ICA-8038 Additional Documents: (None)	STC SA5-33



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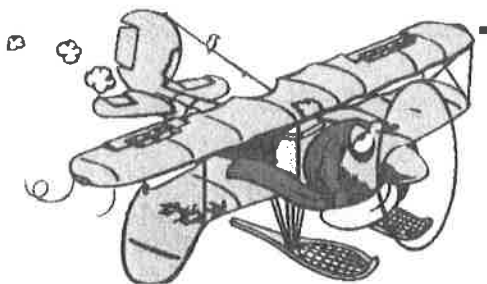
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Document No: MDL-8038
Revision: A
Date: 01.Oct.2013
Project No.: 8038

MASTER DATA LIST

PA-18 and Variant Oversize Control Surfaces

Drawing or Document No.	Description	Revision Level	Date of Current Revision
DWG AD15726OS	Oversize PA-18 Rudder	B	30.Sep.2013
DWG AD12770OS	Oversize PA-18 Elevator	B	30.Sep.2013
ICA-8038	Instructions for Continued Airworthiness, Oversize Control Surfaces	IR	23.Apr.2013
II-8038	Installation Instructions, Oversize Control Surfaces	IR	23.Apr.2013
----- END DATA -----			



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INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

Oversize Control Surfaces
Piper PA-12, PA-14, PA-18 and PA-19 Aircraft

RETAIN THIS DOCUMENT WITH THE AIRCRAFT RECORDS

Document Number: ICA-8038

REVISION HISTORY

Revision	Description	Date
IR	Initial Release (IR)	23 Apr 2013

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).
Additionally it is found acceptable to the FAA AEG in accordance with the guidelines outlined in FAA Order 8110.54.**

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	Revision:	IR
	Date:	April 23 2013
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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.

Make/Model	TCDS	Certification Basis (per TCDS)	Comments
Piper PA-12 Series	A-780	CAR 3	None
Piper PA-14 Series	A-797	CAR 3	None
Piper PA-18, PA-19 Series	1A2	CAR 3	None

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2 Modification Description

This modification consists of replacing the existing aircraft rudder and/or elevators with oversized rudder and/or elevators, as shown in section 2.1.

2.1 Illustrated Parts

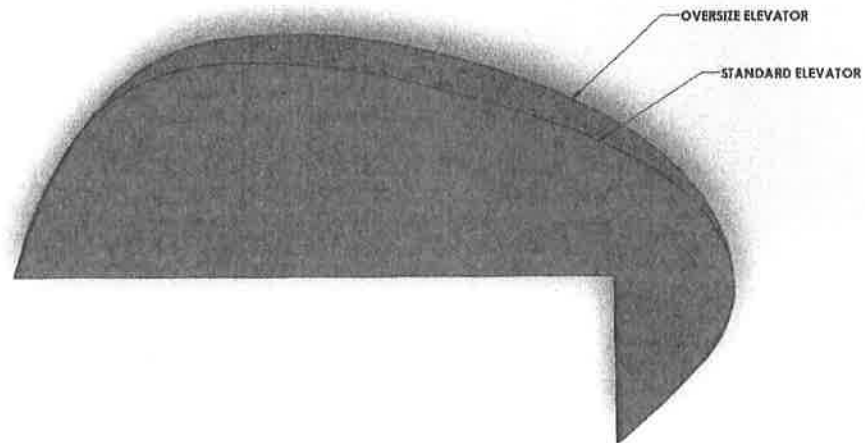


Figure 1
Comparison of Existing Elevator to Oversized Elevator

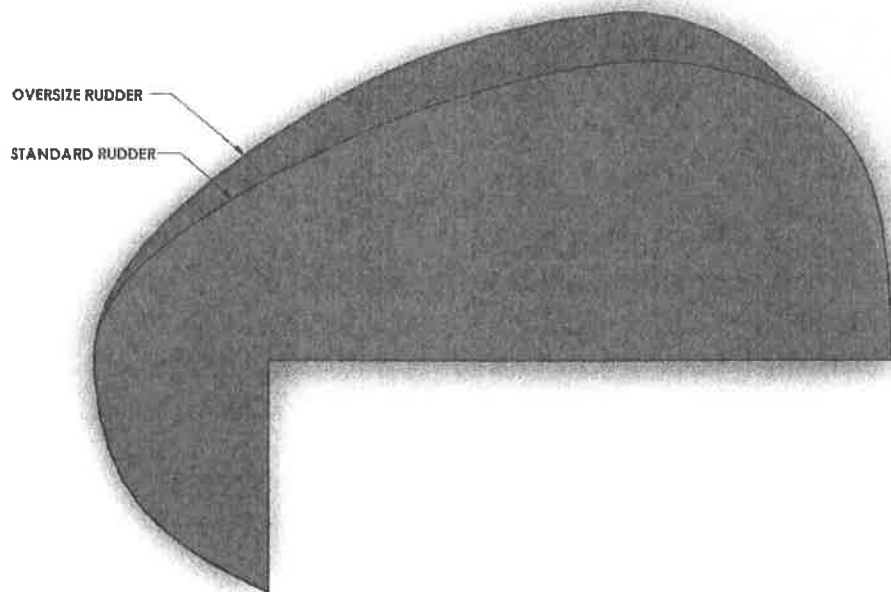


Figure 2
Comparison of Existing Rudder to Oversized Rudder

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3 Installation

Prior to installation of the oversized rudder and/or elevators, it is assumed that the existing rudder and/or elevators have been removed, that the tail is in an airworthy configuration to accept the oversize rudder and/or elevators, and that the oversized rudder and/or elevators are in an airworthy condition.

INSTALLATION INSTRUCTIONS:

1. For installation procedures of the rudder and/or elevators, refer to T.O. 1L-21A-2.
2. For correct hardware, refer to the Piper PA-18 Parts Catalog, Section IV, Tail Group.
3. For rigging and control cable adjustments, refer to the applicable reference document:
 - a. For PA-12 – Service Memo No. 8, Model PA-12 Rigging Procedure, Tail Assembly
 - b. For PA-14 – Service Memo No. 9, Model PA-14 Rigging Procedure, Tail Assembly
 - c. For PA-18/PA-19 – Piper Operators Handbook, Section VI, General Maintenance

4 Maintenance Instructions

If repairs are required to the oversize controls, contact F. Atlee Dodge Aircraft Services, LLC by telephone at 907-344-1755.

4.1 Inspection Requirement

The oversize controls should be inspected, for wear, damage or deformation on a 100HR/annual or progressive basis in accordance with the applicable maintenance manual and replace hardware as required.

5 Airworthiness Limitations

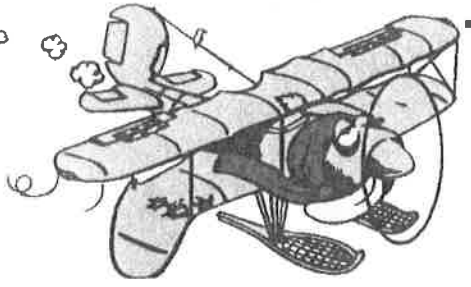
The Airworthiness Limitations Section is FAA approved and specifies maintenance required under Secs. 43.16 and 91.403 of the Federal Aviation Regulations unless an alternate program has been FAA approved.

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

Information contained herein is the property of F. Atlee Dodge Aircraft Services, LLC. <i>Copy or reproduction, manual or electronic, is not authorized without prior written consent.</i>	Doc. No.:	8038
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INSTALLATION INSTRUCTIONS

Oversize Control Surfaces
Piper PA-12, PA-14, PA-18 and PA-19 Aircraft

Document Number: II-8038

REVISION HISTORY

Revision	Description	Date
-	Original Issue	23 Apr 2013

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

1.1 Model Applicability

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.

This document is applicable to the following Make and Model aircraft once the STC is installed.

Make/Model	TCDS	Certification Basis (per TCDS)	Comments
Piper PA-12 Series	A-780	CAR 3	None
Piper PA-14 Series	A-797	CAR 3	None
Piper PA-18, PA-19 Series	1A2	CAR 3	None

2 Modification Description

This modification consists of replacing the existing aircraft rudder and/or elevators with oversized rudder and/or elevators.

3 Installation

Prior to installation of the oversized rudder and/or elevators, it is assumed that the existing rudder and/or elevators have been removed, that the tail is in an airworthy configuration to accept the oversize rudder and/or elevator, and that the oversized rudder and/or elevators are in an airworthy condition.

INSTALLATION INSTRUCTIONS:

1. For installation procedures of the rudder and/or elevators, refer to T.O. 1L-21A-2.
2. For correct hardware, refer to the Piper PA-18 Parts Catalog, Section IV, Tail Group.
3. For rigging and control cable adjustments, refer to the applicable reference document:
 - a. For PA-12 – Service Memo No. 8, Model PA-12 Rigging Procedure, Tail Assembly
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 - c. For PA-18/PA-19 – Piper Operators Handbook, Section VI, General Maintenance

4 Weight & Balance

Weight and Balance difference is negligible.