

United States of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SA02262SE

This certificate, issued to

Stene Aviation Inc.
470 Regatta Rd.
P.O. Box 700
Polson, MT 59860

Data contained in this STC to be used only
for installation on Described Aircraft:

Make _____ Model _____

Reg. No. _____ Serial # _____

Valid receipt constitutes permission to
use Stene Aviation STC SA02262SE

*certifies that the change in the type design for the following product with the limitations and conditions
therefore as specified hereon meets the airworthiness requirements of Part * of the * Regulations.*

Original Product—Type Certificate Number:

* See attached Federal Aviation Administration (FAA)

Make:

Approved Model List (AML) SA02262SE for approved

Model:

aircraft models and applicable airworthiness regulations

Description of the Type Design Change: Installation of split seam wing strut cuff as replacement parts for the
strut fairings in accordance with Stene Aviation Inc. Part Drawing Eligibility Table SA700PDET, Revision IR, dated
March 6, 2013, or later FAA approved revision. Fabrication is controlled by Stene Aviation part numbers given in
Report SA700STRUT-1 dated April 11, 2012, or later FAA-approved revision. Maintained in accordance with
Stene Aviation "Instructions for Continued Airworthiness," Document Number SA700_ICA, Revision A, or later
FAA-accepted revision.

Limitations and Conditions: Approval of this change in type design applies to the aircraft listed on AML
SA02262SE only. This approval should not be extended to other aircraft of this model on which other previously
approved modifications are incorporated unless it is determined by the installer that the relationship between this
change and other previously approved modifications will introduce no adverse effect upon the airworthiness of
that aircraft. A copy of this certificate, the AML, and ICA must be maintained as part of the permanent records for
the modified aircraft.

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: March 25, 2012

Date reissued:

Date of issuance: March 8, 2013

Date amended:



By direction of the Administrator

Allen M. Smith

(Signature)

AMR

Acting Manager, Seattle Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.



STENE AVIATION

P O L S O N • M O N T A N A

The following table outlines aircraft model eligibility for the applicable Stene Aviation split strut cuff.

Drawing Number	Part Number(s)	Rev.	Date	Description	Eligibility
SA-0522150-3SP&-4SP	SA-0522150-3SP, SA-0522150-4SP	IR	4/12/2012	Upper Strut Cuff	150,150A,150B,150C,150D,150E,150F,150G,150H,150J,150K,150L,150M,152,172,172A,172B,172C,172D,172E,172F,172G,172H,172I,172K,172L,175,175A,175B,175C
SA-0421002-1SP&-2SP	SA-0421002-1SP, SA-0421002-2SP	IR	4/12/2012	Lower Strut Cuff	150,150A,150B,150C,150D,150E,150F,150G,150H,150J,150K,150L,150M,152
SA-0523047-1SP&-2SP	SA-0523047-1SP, SA-0523047-2SP	IR	4/12/2012	Upper Strut Cuff	172M,172N,172P,172Q,172R,172S,172RG,R172K
SA-0522150-1SP&-2SP	SA-0522150-1SP, SA-0522150-2SP	IR	4/12/2012	Lower Strut Cuff	172,172A,172B,172C,172D,172E,172F,172G,172H,172I,172K,172L,172M,172N,172P,172Q,172R,172S,172RG,R172K,175,175A,175B,175C,P172D
SA-0723612-3SP&-4SP	SA-0723612-3SP, SA-0723612-4SP	IR	4/12/2012	Lower Strut Cuff	182E,182F,182G,182H,182J,182K,182L,182M,182N,182P,182Q,182R, T182, R182, TR182, 182S
SA-0720702-1&-2	SA-0720702-1, SA-0720702-2	IR	5/17/2010	Upper Strut Cuff	180,180A,180B,180C,180D,180E,180F,180G,180H,180J,180K,182,182A,182B,182C,182D,182E,182F,182G,182H,182J,182K,182L,182M,182N,182P,182Q,182R,T182,R182,TR182,182S
SA-0720702-9&-10	SA-0720702-9, SA-0720702-10	IR	5/17/2010	Lower Strut Cuff	182E,182F,182G,182H,182J,182K,182L,182M,182N,182P,182Q,182R,T182,R182,TR182,182S
SA-0723605-3SP&-4SP	SA-0723605-3SP, SA-0723605-4SP	IR	4/12/2012	Upper Strut Cuff	180,180A,180B,180C,180D,180E,180F,180G,180H,180J,180K,182,182A,182B,182C,182D,182E,182F,182G,182H,182J,182K,182L,182M,182N,182P,182Q,182R,T182,R182,TR182,182S
SA-0723605-1SP&-2SP	SA-0723605-1SP, SA-0723605-2SP	IR	4/12/2012	Lower Strut Cuff	180,180A,180B,180C,180D,180E,180F,180G,180H,180J,180K,182,182A,182B,182C,182D
SA-1227002-11SP&-10SP	SA-1227002-11SP, SA-1227002-10SP	IR	4/12/2012	Upper Strut Cuff	205,205A,206,P206,P206A,TP206A,P206B,TP206B,P206C,TP206C,P206D,TP206D,206E,TP206E,U206,U206A,TU206A,U206B,TU206B,U206C,TU206C,U206D,TU206D,U206E,TU206E,U206F,TU206F,185,185A,185B,185C,185D,185E,A185E,A185F

SA700 Part Drawing Eligibility Table ST11808SE-A

Date: 3/06/2013

Document No. SA700PDET Revision: A

FEDERAL AVIATION ADMINISTRATION (FAA) APPROVED MODEL LIST (AML) SA02262SE
FOR
INSTALLATION OF A SPLIT SEAM WING STRUT CUFF

ISSUE DATE: March 8, 2013

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TC NUMBER	CERTIFICATION BASIS FOR ALTERATION	FAA APPROVED PART DRAWING ELIGIBILITY TABLE		AML REV DATE
					Document	Revision*	
1.	Cessna	150, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150J, 150K, 150L, 150M, 152	3A19	CAR 3	SA700PDET	Revision A, dated March 6, 2013	
2.	Cessna	172, 172A, 172B, 172C, 172D, 172E, 172F, 172G, 172H, 172I, 172K, 172L, 172M, 172N, 172P, 172Q, 172R, 172S	3A12	CAR 3	SA700PDET	Revision A, dated March 6, 2013	
3.	Cessna	175, 175A, 175B, 175C, 175RG, R172K, P172D	3A17	CAR 3	SA700PDET	Revision A, dated March 6, 2013	
4.	Cessna	182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, T182, 182S, R182, TR182	3A13	CAR 3	SA700PDET	Revision A, dated March 6, 2013	
5.	Cessna	180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K	5A6	CAR 3	SA700PDET	Revision A, dated March 6, 2013	
6.	Cessna	205, 205A	3A21	CAR 3	SA700PDET	Revision A, dated March 6, 2013	
7.	Cessna	206, P206, P206A, TP206A, P206B, TP206B, P206C, TP206C, P206D, TP206D, 206E, TP206E, U206, U206A, TU206A, U206B, TU206B, U206C, TU206C, U206D, TU206D, U206E, TU206E, U206F, TU206F	A4CE	CAR 3	SA700PDET	Revision A, dated March 6, 2013	
8.	Cessna	185, 185A, 185B, 185C, 185D, 185E, A185E, A185F	3A24	CAR 3	SA700PDET	Revision A, dated March 6, 2013	

* Or later FAA Approved Revision

FAA Approved:


Allen Smith
Acting Manager, Seattle Aircraft
Certification Office

AMENDED:
REISSUED:



STENE AVIATION

P O L S O N • M O N T A N A

SA-1227402-3SP&-4SP	SA-1227402-3SP, SA-1227402-4SP	IR	4/12/2012	Lower Strut Cuff	206,P206,P206A,TP206A,P206B,TP206B,P206C,TP206C,P206D,TP206D,206E,TP206E,U206,U206A,TU206A,U206B,TU206B,U206C,TU206C,U206D,TU206D,U206E,TU206E,U206F,TU206F
SA-1227401-5SP&-4SP	SA-1227401-5SP, SA-1227401-4SP	IR	4/12/2012	Lower Strut Cuff	205,205A
SA-1227002-3SP&-2SP	SA-1227002-3SP, SA-1227002-2SP	IR	4/12/2012	Lower Strut Cuff	185,185A,185B,185C,185D,185E,A185E,A185F

Revision History:

Revision	Date	Description	Author
IR	2/22/2013		W. Stene
A	3/06/2013	Finalized revision & formatting	W. Stene

SA700 Part Drawing Eligibility Table ST11808SE-A

Date: 3/06/2013

Document No. SA700PDET Revision: A

**REPORT
SA700_IFCA**

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
&
INSTALLATION INSTRUCTIONS**

**SPLIT STRUT CUFF
INSTALLATION
FOR
STC #
APPROVED MODEL LIST(AML)
CESSNA AIRCRAFT**

FOR

**Stene Aviation, Inc.
470 Regatta Rd. Hangar #1
Polson, MT 59860
(406) 883-6244
www.steneaviation.com**

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
DOCUMENT No. SA700 IFCA

RECORD OF REVISIONS

No.	Date	By	Comment
N/C	04/25/12	W. Stene	ORIGINAL RELEASE
A	08/15/12	W. Stene	Removed non-applicable text from introduction.

1.0 GENERAL

1.1 INTRODUCTION

This manual presents the installation instructions and maintenance instructions for the installation of Stene Aviation, Inc. replacement fiberglass split strut cuffs, SA-0522150-3SP, SA-0522150-4SP, SA-0421002-1SP, SA-0421002-2SP, SA-0523047-1SP, SA-0523047-2SP, SA-0522150-1SP, SA-0522150-2SP, SA-0720702-1, SA-0720702-2, SA-0720702-9, SA-0720702-10, SA-0723605-3SP, SA-0723605-4SP, SA-0723605-1SP, SA-0723605-2SP, SA-1227002-11SP, SA-1227002-10SP, SA-1227402-3SP, SA-1227402-4SP, SA-1227401-5SP, SA-1227401-4SP, SA-1227002-3SP, SA-1227002-2SP, SA-0723612-3SP, SA-0723612-4SP. Strut cuffs are composite replacements, manufactured from #7781 fiberglass cloth and polyester resin.

1.2 SPECIAL TOOLS

None required.

1.3 INSTALLATION/REMOVAL

Installation(Existing strut cuffs):

1. Remove existing strut cuffs per Cessna recommended procedures.
2. Remove the screw from the split strut cuff holding the seam together and slip strut cuff over the strut near the attachment point.
3. Secure screw into the split strut cuff holding the seam together, i.e. screw removed in step #2.
4. Fit strut cuff into position and locate mounting screw holes and install on aircraft using original or new hardware.

Installation(New Installation):

1. Remove the screw from the split strut cuff holding the seam together and slip strut cuff over the strut near the attachment point.
2. Secure screw into the split strut cuff holding the seam together, i.e. screw removed in step #1.
3. Fit strut cuff into position and locate mounting screw holes using the locations marked on the strut cuff as guidance. Minor deviation may be necessary to insure clearance and edge distance for installation of a rivnut.
4. Upon locating the mounting screw holes insert rivnuts to secure the strut cuff to the aircraft.
5. Upon final installation of rivnuts place the strut cuff into position and secure with new hardware appropriate for the rivnuts used.

Removal:

1. Remove mounting and seam screws and slide off of the aircraft strut.

2.0 AIRWORTHINESS LIMITATIONS

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

No airworthiness limitations.

3.0 INSPECTION REQUIREMENTS

Carry out inspection during 100hr and annual inspections. Inspection requirements utilize standard practice visual inspection for composite material as outlined in AC 43.13-1b, chapter 5, section 5-18, sub-paragraph h.

4.0 WEIGHT AND BALANCE

Aircraft weight and balance is modified by approximately 0.3lbs per strut cuff with an arm measured from the datum to the mid-span chord of the strut.

5.0 REPAIRS & DISTRIBUTION

All inspections and repairs to the composite structure may be accomplished in accordance with AC 43.13-1B, chapter 5, section 5-18 and chapter 3, section 3-2 thru 3.

Upon inspection, look for signs of cracking or delamination of layers, utilizing visual inspection techniques as outlined in AC43.13-1B, chapter 5, section 5-18, sub-paragraph h. Repair in accordance with AC 43.13-1B, chapter 3, by removing the damaged area and reinforcing with fiberglass cloth, 7781 weave and polyester resin. Sand out irregularities and apply paint and reinstall. For paint, prepare the surface by roughing the surface with a fine scotch-brite pad and ensure the surface is free of waxes and apply paint. For questions regarding damage limit guidance and repair, you may contact Stene Aviation, Inc. (406) 883-6244.

The ICA is provided to all split strut cuff STC holders upon receipt of order or request. Copies can be obtained by mail, phone, or e-mail by contacting Stene Aviation, Inc. For parts, placards, or information contact Stene Aviation, Inc. at (406) 883-6244.