

**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.
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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.