U.S. Department of Transportation

Federal Aviation
Administration

Seattle ACO Branch
$2200 \mathrm{~S} .216^{\text {th }}$ Street
Des Moines, WA 98198

NOV 262018

## In Reply

Refer To: 785-18-12715
Mr. Gary Hanson
Rosen Sunvisor Systems, LLC
86365 College View Road
Eugene, OR 97405
Dear Mr. Hanson:
We have completed our evaluation of your request for a supplemental type certificate (STC), Project Number ST13013SE-A, for the installation of the accessory rail provision system, per your application, dated November 8, 2016. We find that you have satisfactorily demonstrated compliance with the applicable certification regulations. Accordingly, we have enclosed STC SA02628SE, dated November 26, 2018, for the installation in accordance with Drawing List 2051000-DL, Revision B, dated June 29, 2018, or later Federal Aviation Administration (FAA) approved revision.

This STC is official FAA approval for your installation and may be used to authorize identical installations on other aircraft of the same model. It may be transferred or otherwise made available to another party by means of a licensee arrangement in accordance with Title 14 Code of Federal Regulations (CFR) section (§) 21.47. You are required to advise this office prior to the transfer, when you transfer or grant licensee rights to the STC, in order that we may take the necessary recording or reissuance action.

If you agree to permit another person to use this STC to alter the product, it is your responsibility to give the other person written evidence of that permission in the form of a "permission statement." This permission statement should contain the agreement specifying the product to be altered, the STC number, and the person who is being given the consent to use the STC.

As recipient of this approval, except as provided in § $21.3(\mathrm{~d})$, you are required to report any failure, malfunction, or defect in any product or article manufactured by you that you have determined has resulted or could result in any of the occurrences listed in § 21.3(c). The report should be communicated initially by telephone to the Manager, Cabin Safety and Environmental Control Systems Section, AIR-785, telephone number (206) 231-3500, within 24 hours after it has been determined that the failure has occurred. In addition, written notification to the Manager, Seattle ACO Branch, AIR-780, at the above address is required. FAA Form 8010-4 (Malfunction or Defect Report) or any other appropriate format is acceptable in transmitting the required details.

If you plan to manufacture replacement or modification articles for sale in conformance with approved data listed on the certificate, a parts manufacturer approval (PMA) may be applied for under the provisions of § 21.303 and issued after establishing compliance with § 21.307 and § 21.308. The identification requirements for articles produced under a PMA are in $\S 45.15$. Your application may be in letter form, with reference to the STC number, and should be addressed to the Federal Aviation Administration, Northwest Mountain Region, Attention: Manager, Seattle MIDO Section AIR-872, 2200 S. $216^{\text {th }}$ St. Des Moines, Washington 98198

Since I am very much interested in the service we provide to the aviation community and the general public, it would be helpful if you would provide your thoughts and comments regarding how the approval process went. To gather this information, we have provided this letter and its enclosures electronically and also attached a short survey that I hope you will fill out and return via e-mail as indicated on the survey. Please make the subject line of the return e-mail read "Survey" to ensure proper receipt. You may rest assured that your comments will receive my full attention and that I will hold your comments in strict confidence, should you request I do so. Please note that this stakeholder survey is common to all Aircraft Certification offices within the FAA's Aircraft Certification Service and is aimed at enabling the Aircraft Certification Service to deliver the best services to each of our stakeholders.

Sincerely,

Gic/srown
for Ross Landes
Aviation Safety
Manager, Seattle ACO Branch
Compliance \& Airworthiness Division
Aircraft Certification Service

[^0]
# Supplemental ©upk Untifitate 

## Number SA02628SE

This certificate, issued to

Rosen Sunvisor Systems, LLC 86365 College View Road Eugene, OR 97405

centifies that the change in the tyre design for the following product with the limitations and conditions therefore as specified hereorn meets the cirvorthiness requirements of Propt * of the * TRegulations.

Original Product-Tyne Bextificate Number:
Mlake:
Model.

* See attached Federal Aviation Administration (FAA) Approved Model List (AML) SA02628SE for approved aircraft models and applicable airworthiness regulations

Desomintion of the Type Design Change: Installation of the Accessory Rail Provision system in accordance with the Drawing List as listed on the AML. Maintained in accordance with the Instructions for Continued Airworthiness (ICA) as listed on the AML.

Simitations and Conditions: Approval of this change in type design applies to the aircraft listed on AML SA02628SE only. This approval should not be extended to other aircraft of these models 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, AML SA02628SE, and Drawing List and ICA, must be maintained as part of the permanent records for the modified aircraft.

If the hoider 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 supparting data which is the basis for approval shabl vemain in effect until survendered, suspended, vevoked, ar a termination date is atherwise established by the Aldministrator of the Frederal Sluiation Sldministration.

Date of application: November 8, 2016
Date of issuance. November 26, 2018


Date veissued:
Date amended:

By divection of the \&ddministrator

for $\qquad$

[^1]U.S. Department of Transportation

DEC 182018
In Reply
Refer To: 785-18-13432
Mr. Gary Hanson
86365 College View Road
Eugene, OR 97405
Dear Mr. Hanson:
We have completed our evaluation of the request to reissue Approved Model List (AML) Supplemental Type Certificate (STC) SA02628SE, to clarify the models of the various series of Textron Aviation (Cessna) aircraft on the AML. We find that you have satisfactorily demonstrated compliance with the applicable certification regulations. Accordingly, we have enclosed STC AML SA02628SE, reissued on December 13, 2018, for the installation in accordance with Drawing List 2051000-DL, Revision B, and maintained in accordance with Product Maintenance Manual/Instructions for Continued Airworthiness 9100-2050-001, Revision B, dated November 30, 2018, as listed on the AML, or later Federal Aviation Administration (FAA) approved revision.

Sincerely,
for Ross Landes
Aviation Safety
Manager, Seattle ACO Branch
Compliance \& Airworthiness Division
Aircraft Certification Service
1 Enclosure

FEDERAL AVIATION ADMINISTRATION (FAA) APPROVED MODEL LIST (AML) SA02628SE FOR
Accessory Rail Provision System
ISSUE DATE: November 26, 2018

| ITEM | AIRCRAFT MAKE | AIRCRAFT MODEL | ORIGINAL TC NUMBER | CERTIFICATION BASIS/AMENDMENT | FAA APPROVED INSTRUCTIONS FOR CONTINUED AIRWORTHINESS |  | FAA APPROVED MASTER DRAWING LIST |  | AML REV DATE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Number | Revision* | Drawing | Revision* |  |
| 1. | Textron Aviation Inc. (Cessna) | $\begin{aligned} & 170,170 \mathrm{~A}, \\ & 170 \mathrm{~B} \end{aligned}$ | A-799 | 23-1 through 23-62 | $\begin{aligned} & \text { 9100-2050- } \\ & 001 \end{aligned}$ | $\begin{aligned} & \hline \operatorname{Rev} B, \\ & 11 / 30 / 18 \end{aligned}$ | $\begin{aligned} & 2051000- \\ & \text { DL } \end{aligned}$ | $\begin{aligned} & \text { Rev B, } \\ & 6 / 29 / 18 \end{aligned}$ | 12/13/18 |
| 2. | Textron <br> Aviation Inc. (Cessna) | $\begin{aligned} & \text { 172, 172A, } \\ & \text { 172B, 172C, } \\ & \text { 172D, 172E, } \\ & \text { 172F (USAF T- } \\ & \text { 41A), 172G, } \\ & \text { 172H (USAF T- } \\ & \text { 41A), 172I, } \\ & \text { 172K, 172L, } \\ & \text { 172M, 172N, } \\ & \text { 172P, 172a, } \\ & \text { 172R, 172S } \\ & \hline \end{aligned}$ | 3A12 | 23-1 through 23-62 | $\begin{aligned} & \hline 9100-2050- \\ & 001 \end{aligned}$ | $\begin{aligned} & \text { Rev B, } \\ & 11 / 30 / 18 \end{aligned}$ | $\begin{aligned} & \text { 2051000- } \\ & \text { DL } \end{aligned}$ | $\begin{aligned} & \text { Rev B, } \\ & 6 / 29 / 18 \end{aligned}$ | 12/13/18 |
| 3. | Textron <br> Aviation Inc. (Cessna) | 175, 175A, <br> 175B, P172D, <br> R172E (USAF T- <br> 41B) (USAF T- <br> 41C or D), <br> R172F (USAFT- <br> 41D), R172G <br> (USAF T-41C or <br> D), R172H <br> (USAF T-41D), <br> R172J, R172K, <br> 172RG | 3A17 | 23-1 through 23-62 | $\begin{aligned} & \hline 9100-2050- \\ & 001 \end{aligned}$ | $\begin{aligned} & \text { Rev B, } \\ & 11 / 30 / 18 \end{aligned}$ | $\begin{array}{\|l} \hline 2051000- \\ \text { DL } \end{array}$ | Rev B, 6/29/18 | 12/13/18 |

FEDERAL AVIATION ADMINISTRATION (FAA) APPROVED MODEL LIST (AML) SA02628SE FOR
Accessory Rail Provision System
ISSUE DATE: November 26, 2018

| 4. | Textron Aviation Inc. (Cessna) | $\begin{aligned} & 180,180 \mathrm{~A}, \\ & \text { 180B, 180C, } \\ & \text { 180D, 180E, } \\ & \text { 180F, 180G, } \\ & 180 \mathrm{H}, 180 \mathrm{~J}, \\ & 180 \mathrm{~K} \end{aligned}$ | 5A6 | 23-1 through 23-62 | $\begin{aligned} & 9100-2050- \\ & 001 \end{aligned}$ | $\begin{aligned} & \text { Rev B, } \\ & 11 / 30 / 18 \end{aligned}$ | $\begin{aligned} & \text { 2051000- } \\ & \text { DL } \end{aligned}$ | $\begin{aligned} & \text { Rev B, } \\ & 6 / 29 / 18 \end{aligned}$ | 12/13/18 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5. | Textron <br> Aviation Inc. (Cessna) | $\begin{aligned} & \text { 182, 182A, } \\ & \text { 182B, 182C, } \\ & \text { 182D, 182E, } \\ & \text { 182F, 182G, } \\ & \text { 182H, 182J, } \\ & \text { 182K, 182L, } \\ & \text { 182M, 182N, } \\ & \text { 182P, 182Q, } \\ & \text { 182R, 182S, } \\ & \text { 182T, R182, } \\ & \text { T182, TR182, } \\ & \text { T182T } \end{aligned}$ | 3 A 13 | 23-1 through 23-62 | $\begin{aligned} & 9100-2050- \\ & 001 \end{aligned}$ | $\begin{aligned} & \text { Rev B, } \\ & 11 / 30 / 18 \end{aligned}$ | $\begin{aligned} & \text { 2051000- } \\ & \text { DL } \end{aligned}$ | $\begin{aligned} & \text { Rev B, } \\ & 6 / 29 / 18 \end{aligned}$ | 12/13/18 |
| 6. | Textron <br> Aviation Inc. (Cessna) | $\begin{aligned} & \text { 185, 185A, } \\ & \text { 185B, 185C, } \\ & \text { 185D, 185E, } \\ & \text { A185E, A185F } \end{aligned}$ | 3 A24 | 23-1 through 23-62 | $\begin{aligned} & 9100-2050- \\ & 001 \end{aligned}$ | $\begin{aligned} & \text { Rev B, } \\ & 11 / 30 / 18 \end{aligned}$ | $\begin{aligned} & 2051000- \\ & \text { DL } \end{aligned}$ | $\begin{aligned} & \text { Rev B, } \\ & 6 / 29 / 18 \end{aligned}$ | 12/13/18 |
| 7. | Textron <br> Aviation Inc. (Cessna) | $\begin{aligned} & \text { 206, P206, } \\ & \text { P206A, P206B, } \\ & \text { P206C, P206D, } \\ & \text { P206E, U206, } \\ & \text { U206A, U206B, } \\ & \text { U206C, U206D, } \\ & \text { U206E, U206F, } \\ & \text { U206G, } \\ & \text { TP206A, } \\ & \text { TP206B, } \\ & \text { TP206C, } \end{aligned}$ | A4CE | 23-1 through 23-62 | $\begin{aligned} & 9100-2050- \\ & 001 \end{aligned}$ | $\begin{aligned} & \text { Rev B, } \\ & 11 / 30 / 18 \end{aligned}$ | $\begin{aligned} & \text { 2051000- } \\ & \text { DL } \end{aligned}$ | $\begin{aligned} & \text { Rev B, } \\ & 6 / 29 / 18 \end{aligned}$ | 12/13/18 |

FEDERAL AVIATION ADMINISTRATION (FAA) APPROVED MODEL LIST (AML) SA02628SE FOR
Accessory Rail Provision System

|  |  | TP206D, TP206E, TU206A, TU206B, TU206C, TU206D, TU206E, TU206F, TU206G, 206H, T206H |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8. | Textron Aviation Inc. (Cessna) | $\begin{aligned} & \text { 207, 207A, } \\ & \text { T207, T207A } \end{aligned}$ | A16CE | 23-1 through 23-62 | $\begin{aligned} & 9100-2050- \\ & 001 \end{aligned}$ | $\begin{aligned} & \text { Rev B, } \\ & 11 / 30 / 18 \end{aligned}$ | $\begin{aligned} & \text { 2051000- } \\ & \text { DL } \end{aligned}$ | $\begin{aligned} & \text { Rev B, } \\ & 6 / 29 / 18 \end{aligned}$ | 12/13/18 |

*Or later FAA Approved Revision
FAA Approved: Eie Broun
for Manager, Seattle ACO Branch
AMENDED:
REISSUED: December 13, 2018

## Cessna Singles

 Accessory Rail| Rev | Date | Approved |
| :---: | :---: | :---: |
| C | $2 / 18 / 22$ | SYS |

Drawing List 2051000-DL

Doc. \# 9040-2050-001

| Drawing | Replaces | Description | Rev. |
| :---: | :---: | :---: | :---: |
| 2051100 |  | Rail Assembly | F |
| 2051102 |  | Rail | D |
| 2051103 |  | Bracket, Obtuse (Open) | D |
| 2051104 |  | Bracket, Acute (Closed) | C |



## CESSNA Accessory Provision Rail

Rosen Kit Number R2051100

## Product Maintenance Manual With Illustrated Parts List

Manual Number
Rosen 9100-2050-001
Revision B


November 30, 2018

This ICA must be followed when the R2051100 rail system is installed in accordance with Supplemental Type Certificate, (STC) No. SA02628SE, dated November 26, 2018.
The information contained in this document supplements or supersedes the basic manual only in those areas listed herein. For limitations, procedures, and performance information not contained in this manual, consult the basic aircraft ICA or Mainteriance Manual.

## STATEMENT OF Rev B CERTIFICATION

This manual complies with Federal Aviation Association (FAA) Airworthiness Requirements Part 23
FAA Acceptance:
 Date: 1216118
The above certification does not apply to revisions or amendments made after the date of initial certification by other Approved Organizations. Revisions or amendments made by other Approved Organizations must be separately certified and recorded on separate record sheets

Record of Revisions

| Rev | Description | Date | Approved |
| :---: | :--- | :---: | :---: |
| A | Preliminary Release from numeric revision <br> 12 without change. | $6 / 14 / 2018$ | SYS |
| B | Remove reference to SA00872SE, add all <br> applicable aircraft models. | $11 / 30 / 18$ | SYS |

## Table of Contents

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## Introduction

## 1. General

a. This Rosen Product Maintenance Manual provides use, maintenance and continued airworthiness instructions for the cockpit Accessory Rail Cessna single engine models listed below.
b. Rosen reserves the right to revise this document for changed procedures, improved parts or changes to the system or components.
c. All technical support, spare part sales, repairs or modifications are to be directed directly to Rosen Sunvisor Systems LLC. RSS must be contacted for future revision of this document as it is possible this does not contain the latest revisions.

## 1a. Application Information

These systems are designed to fit into Cessna aircraft models as follows delivered with factory installed visors:

170, 170A, 170B, 172, 172A, 172B, 172C, 172D, 172E, 172F (USAF T-41A), 172G, 172H (USAF T-41A), 172I, 172K, 172L, 172M, 172N, 172P, 172Q, 172R, 172S, 175, 175A, 175B, P172D, R172E (USAF T-41B) (USAF T-41C or D), R172F (USAF T-41D), R172G (USAF T-41C or D), R172H (USAF T-41D), R172J, R172K, 172RG, 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, 182S, 182T, R182, T182, TR182, T182T, 185, 185A, 185B, 185C, 185D, 185E, 206, P206, P206A, P206B, P206C, P206D, P206E, U206, U206A, U206B, U206C, U206D, U206E, U206F, U206G, TP206A, TP206B, TP206C, TP206D, TP206E, TU206A, TU206B, TU206C, TU206D, TU206E, TU206F, TU206G, 206H, T206H, 207, 207A, T207, T207A

Reference Information:
2051XXX - Chromed Brass
-1 - Pre-1980 Corner mounted Visors
-2 - Post 1980 Center Mounted Visors

## 2. Revision Service

Current revision status and revisions to this document may be obtained from Rosen Sunvisor Systems' website: www.rosenvisor.com. We recommend that you periodically check to make sure you are using the most current version.

## Fault Isolation

## 1. General

a. This section identifies Probable Causes and Corrections for possible faults.

| Problem | Probable Cause | Corrective Action |
| :--- | :--- | :--- |
| Accessory does not <br> clamp properly on rail | Oils on rail | Wipe rail and clamp <br> surface with non-residual <br> cleaner. |
| Rail is loose in aircraft | Rail not attached <br> properly | Check rail attachment <br> and tighten fasteners. |

## Rosen Sunvisor Systems PMM / IPC for CSAR Assembly (p/n R2051100)

## Product Description

## General

a. The Cessna Singles Accessory Rail is a Rosen Sunvisor rail segment designed to attach to the aircraft using the same mounting points provided for the factory Sunvisor installation.
b. The Accessory rail can be installed in conjunction with the Rosen Sunvisor Systems Visor for the designated aircraft or with the factory visors.
c. The Accessory Rail provides a mounting location for various devices developed to improve the comfort and function of the aircraft. These devices include but are not limited to:

1. Rosen iPad mount (R1061000, R1063000)
2. CrewSharp Pencil Sharpener (R9000200)
3. Crew View Overhead Convex Mirror (R9000300)

## Product Limitation

The Cessna Singles Accessory Rail has a load limit of 5lb mounted at any location or orientation on the rail.

## Installation Instructions

## Please read all instructions before starting installation.

For this installation, it is required that there is factory installed nut inserts in the forwardfacing face of the center section spar.
This is an FAA STC'd Installation requiring a log book entry with an FAA Form 337 upon completion.

NOTE: If this installation causes interference with any Placard information it is the installers' responsibility to relocate the Placard information appropriately.

## Tools and materials required:

Appropriate tools to remove the existing fasteners are required.
Four \#10-32 screw fasteners (MS16996-14B) and washers (AS10) are provided in the kit as an optional replacement for the removed screws.

5/32 Hex Key

## 1. Rail installation

For '-1' installation (pre-1980 aircraft):
a. If Factory Visors are installed:
i. Remove the factory visors by removing the two (2) screws per side.
ii. On either side, position the accessory rail against the aircraft with the rail on the low side and the arch going forward. Reposition the visor mounts and reuse or replace the screw fasteners through the visor mounts and slotted holes in the accessory rail bracket into the factory mount locations.
iii. Re-Install but do not tighten both screws.
iv. Repeat for the other side.
v. Tighten all four screws to full closure plus $1 / 8$ turn.
b. If Rosen Visor are installed:

NOTE: For both Rosen visor installations it is easier to remove the visor arm from the bracket before installation and re-attaching them afterwards.
i. Remove the Rosen visors by removing the two (2) screws per side.
ii. On either side, position the accessory rail against the forward face of the Rosen bracket with the rail on the low side and the arch going forward. Place the screws through both the accessory rail and visor mount into the aircraft mount positions.
iii. Re-Install but do not tighten both screws.

## Rosen Sunvisor Systems PMM / IPC for CSAR Assembly (p/n R2051100)

iv. Repeat for the other side.
v. Tighten all four screws to full closure plus 1/8 turn.


Proper Installation of 2051100-1

For ' ${ }^{-2}$ ' installation (post 1980 aircraft):
NOTE: For both Rosen visor installations it is easier to remove the visor arm from the bracket before installation and re-attaching them afterwards.
For this installation, it is required that the factory visor is removed and replaced by a Rosen Visor. The rail assembly is mounted forward of the Rosen Visor installation.
a. Remove visor mounting screws.
b. Locate rail assembly on same mounting locations as existing visor mounts with the rail assembly forward of the visor bracket.
c. Install all screws, but do not tighten.
d. Tighten all four screws to full closure plus $1 / 8$ turn.


Proper installation of copilot side.


Proper installation of 2051100-2

## Removal

1. Rail
a. Reverse installation instructions

## Weight and Balance

This complete system adds 1.1 lbs . at the windscreen frame location.
Repair

## General

a. All components that do not meet the requirements for continued use must be replaced.

## Instructions for Continued Airworthiness (ICA)

- (On the ground only)

Periodically clean system with a non-residue alcohol based cleaner and inspect for wear and damage.

## Airworthiness Limitations

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

There is no airworthiness limitation associated with this installation.

## Illustrated Parts Listing (IPC) - See parts listing (Page 11)



Fig 2
Rail Assembly 16"
Chrome Plated
(2)


Fig 5

Fig 6


## Part List

| Fig. <br> No | Fig. <br> Item | Part Number | Description | Reference | Eff | QTY <br> Isys |
| :---: | :---: | :--- | :--- | :--- | :---: | :---: |
| 1 | 1 | R2051100-1 | Cessna 205 Rail Assembly <br> $28.25 "$ <br> Chrome Plated |  | 1 |  |
| 2 | 2 | R2051100-2 | Cessna 205 Rail Assembly <br> $16 "$ <br> Chrome Plated | Rail Brass | 1 |  |
| 5,6 | 5 | 2051102 | Bracket Left, Opened, <br> Brass | Not available <br> soparately <br> separatable |  | 1 |
| 5 | 6 | $2051103-1$ | Bracket Left, Closed, Brass | Not available <br> separately |  | 1 |
| 6 | 7 | $2051103-2$ | Bracket Right, Opened <br> Brass | Not available <br> separately |  | 1 |
| 5 | 8 | $2051103-3$ | Bracket Right, Closed, <br> Brass | Not available <br> separately |  | 1 |
| 6 | 9 | $2051103-4$ |  |  |  |  |

NOTE: Figures 3 and 4 reserved for future use.


[^0]:    2 Enclosures

[^1]:    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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).This certificate may be transferred in accordance with FAR 21.47.

