

# Supplemental Type Certificate

*Number* SA00730DE

*This certificate issued to:*

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

*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 23\* of the Federal Aviation Regulations. \*Certification basis established in TCDS.*

*Original Product - Type Certificate Number :* A00014WI

*Make :* Cessna

*Model :* 510

*Description of Type Design Change:*

Installation of a monorail sunvisor system in accordance with Drawing List 1970000-DL, Revision D, dated April 8, 2011, FAA approved May 24, 2011, or later FAA approved revision.

*Limitations and Conditions:*

1. Mustang Monorail Sunvisor System Installation Instructions, Document No. 9041-0197-001, Revision C, dated April 5, 2011, FAA accepted May 24, 2011, or later FAA accepted revision must be made available to the operator at the time of installation.
2. A copy of this must be maintained as part of the permanent records for the modified aircraft.
3. The installer must determine whether this design change is compatible with previously approved modifications.
4. If the holder agrees to permit another person to use this certificate to alter a product, the holder must 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:* January 6, 2010

*Date reissued:*

*Date of issuance:* May 24, 2011

*Date amended:*



*By direction of the Administrator*

  
(Signature)

Todd Dixon  
Manager, Denver Aircraft Certification Office  
(Title)



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

Transport Airplane Directorate  
Aircraft Certification Service  
Denver Aircraft Certification Office  
26805 East 68<sup>th</sup> Avenue, Room 214  
Denver, Colorado 80249

May 24, 2011

Mr. Gary Hanson  
Rosen Sunvisor Systems LLC  
86365 College View Road  
Eugene, OR 97405

Dear Mr. Hanson:

This is in response to your January 6, 2010 application for a Supplemental Type Certificate (STC), for the purpose of installing a monorail sunvisor system on Cessna 510 series aircraft. Our review of the data submitted indicates that the requirements of Title 14 Code of Federal Regulations (14 CFR) have been satisfied. STC ST00730DE dated May 24, 2011 is enclosed.

In support of this STC, this office also accepts Rosen's Instructions for Continued Airworthiness, document number 9041-0197-001, revision C, dated 4/5/11.

In accordance with Title 14 Code of Federal Regulations, 14 CFR 21.3, and as a recipient of this certificate, you are required to report any failure, malfunction, or defect, except as provided in 14 CFR 21.3(d), in any product or part manufactured by you or your contracted suppliers, and which you have determined has resulted or could result in any occurrences listed in 14 CFR 21.3(c). The report should be communicated initially by telephone to the Manager, Denver Aircraft Certification Office: (303) 342-1081, within 24 hours after it has been determined a failure has occurred and followed up with a written notice to the address shown above. FAA form 8010-4, Malfunction or Defect Report or other appropriate format is acceptable in transmitting the required details.

You, as the STC holder, are responsible for any design changes necessary to correct unsafe conditions as well as for submitting those design changes to this office for approval. This requirement is contained in 14 CFR 21.99. In addition, you are required to advise this office of any change of address or ownership.

Also, 14 CFR 21.50 requires that maintenance procedures for continued airworthiness, as applicable to this change in type design, be made available to the operator at the time the aircraft is returned to service.

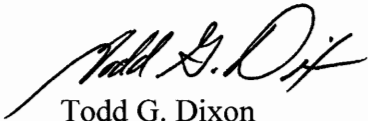
By accepting this certificate, you acknowledge that you have read and understand your responsibilities as an STC holder.

If you plan to manufacture replacement or modification parts for sale in conformance with approved data listed on the Certificate, you are required to comply with 14 CFR 21.303. A Parts Manufacturer Approval (PMA) may be issued under the provisions of 14 CFR 21.303(d) when you submit a statement certifying you have established the fabrication inspection system as required by 14 CFR 21.303(h). The identification requirements for parts produced under a PMA are in 14 CFR 45.15. Your statement may be in letter form, with reference to STC ST00730DE, and should be addressed to the Federal Aviation Administration, Northwest Mountain Region, Attention: Manager, Seattle Manufacturing Inspection District Office, at the address indicated below:

Federal Aviation Administration  
Seattle Manufacturing Inspection District Office, ANM-108S  
1801 Lind Ave. SW  
Renton, WA 98057

If you have any questions, please contact Ms. Melissa Sandow at (303) 342-1084.

Sincerely,



Todd G. Dixon  
Manager, Denver  
Aircraft Certification Office

Enclosure



**Monorail Sunvisor System  
for Cessna Mustang**

Date	Revision	Approved
8/2/19	K	SYS

Drawing List  
**1970000-DL**

**Doc. #9040-0197-001**

Drawing	Reference	Description	Rev
<b>1970000</b>		<b>Complete Assembly</b>	<b>D</b>
1970100		Rail Assembly	B
1970101		Rail	A
1970102		Bracket, Front	B
1970103		Bracket, Mid	A
1970104		Bracket, Aft	A
1230108		Plug	E
1970210		Nut Plate Assembly	A
1970201		Tab	A
<b>1970430</b>		<b>Visor Assembly</b>	<b>B</b>
1120000-003	R1120000-003	Clamping Block Complete Assembly 3 <sup>rd</sup> Axis	K
1120101-001	RCBS-100-7A, R1120101-001	Nut Plate, Standard	L
1120102-001	RCBS-100-8AB, R1120102-001	Clamping Block Body	L
1120104	RCBS-300-11M	Thumb Knob, Standard	M
1120200		3 <sup>rd</sup> Axis Assembly	D
1120220		Swivel Assembly	D
1120207		Sleeve, Body	C
1120208		Sleeve Leg	C
1970431		Lens – 3 <sup>rd</sup> Axis	B
1260202		Swivel Nut Plate	D
	<b>KITS</b>		
<b>RCBS-300-11M</b>		<b>Kit. Standard Thumb Knob</b>	<b>D</b>
<b>R1970431</b>		<b>Lens Kit</b>	<b>B</b>
9041-0197-001		Installation Instructions	D

## Cessna Mustang Monorail Sunvisor System Installation Instructions

Kit R1970000

This is an FAA STC'd installation requiring a log book entry and FAA Form 337 for completion.

Doc: 9041-0197-001

Rev	Date	Approved
D	6/20/2011	GH

*Please read through these instructions completely before beginning.*

### Installation Hardware (included):

2	1970210	Nut Plate Assembly
2	MS24694-C53	#10-32 x 23/32 FPHS 100°

1. Prepare center handgrip by removing both upper and lower plugs and the upper hex head fastener and washer. Save this hardware for use in Step 5. Loosen the lower fastener no more than 6 complete turns. Rotate the hand grip 30 to 90° in either direction on the lower fastener.

**NOTE: DO NOT REMOVE LOWER FASTENER.**

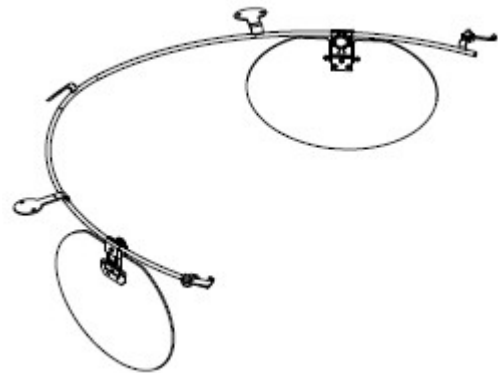
2. Remove both original equipment visor assemblies by removing the two Phillips head screws on the long axis of the mounts. Save the fasteners for installation

**Note: The mount has to be manipulated to be removed from the hole in the headliner.**

3. With an assistant to support the rail and fasten one screw in one of the oval brackets into the original mount location.
4. Fasten the other oval bracket. The rail may have to be flexed slightly to align the holes. Do not tighten at this point.
5. Install the remaining two fasteners to the oval brackets. Re-attach the handgrip passing the MS24694-C53 #10-32 x 23/32 flat head screw and washer saved from Step 1 through the handgrip and forward rail bracket. Once the rail is in place tighten all fasteners to full closure plus 1/8 turn. Replace both plugs.
6. Follow the natural curvature of the rail to locate and mark the location for the rear brackets stabilization point. **Using a light and a mirror access the space behind the rear mount point through the seat belt access hole to determine there is no wiring or equipment behind the mount point.**

**NOTE: If there is wiring or materials within ~3 inches of the rear mounting position the headliner will need to be removed to properly restrain the materials before proceeding.**

7. Using a 7/32 drill equipped with a drill stop set to ¼ inch drill a clearance hole through the Trim Panel only. Do not penetrate more than 1/4 inch.
8. Place the #10-32 x 23/32 screw through the bracket and hole just placed in the Trim panel. Capture the fastener with the nut plate supplied. Hold the nut plate while tightening the fastener. Repeat on other side. The monorail system is now installed.



9. Loosen the clamp on the visor, and turn the visor on the clamp to allow the visor assembly to be placed on the rail. The clamp screw must be on the inside for use.

**Continued Airworthiness Instructions:**

- **(On the ground only)**
  - Periodically clean the lenses with a soft cloth and Rosen Plastic Cleaner, Polisher and Protectant, or mild soap and water. Do not use abrasives on the lens.
  - Periodically adjust the pivot tensions on the visor assemblies.
  - Periodically check all fasteners for correct tightening
- Updates to this continued airworthiness section are available on the Rosen Website. ([www.rosenvisor.com](http://www.rosenvisor.com))

The most up to date version of this document is available on the Rosen Website ([www.rosenvisor.com](http://www.rosenvisor.com)).

We recommend that you periodically look to make sure you are using the most current version.

**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.

There are no airworthiness limitations associated with this installation.