

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

*Number* SH3533NM

*This certificate, issued to* **Rosen Sunvisor Systems  
86365 College View Road  
Eugene, OR 97405**

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 27 of the Federal Aviation Regulations.*

*Original Product—Type Certificate Number:* H7EU  
*Make:* Agusta  
*Model:* A109, A109A

*Description of the Type Design Change:* Cockpit Sun Visor installation in accordance with FAA approved Rosen Drawing List Number RA-109-00DL, dated May 21, 1986, or later FAA approved revisions.

*Limitations and Conditions:* Approval of this change in type design applies to the above model rotorcraft only. This approval should not be extended to other rotorcraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that rotorcraft. A copy of this Certificate and FAA approved Rosen Drawing List Number RA-109-00DL shall be maintained as part of the permanent records for the modified rotorcraft.

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:* May 21, 1986

*Date reissued:* March 24, 2003

*Date of issuance:* July 21, 1986

*Date amended:* March 24, 2003



*By direction of the Administrator*

*Jeffrey A. Mangell*  
(Signature)

for 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.



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

**Transport Airplane Directorate  
Aircraft Certification Service**

1601 Lind Avenue S.W.  
Renton, Washington 98055-4056

In Reply  
Refer To: 190S-03-200

Rosen Sunvisor Systems  
86365 College View Road  
Eugene, OR 97405

Gentlemen:

Per the transfer endorsements on the following Supplemental Type Certificates (STC), we have reissued these documents in your new name and address with a reissue date of March 24, 2003.

SA1637NM	SA3067NM	SA3650NM	SA4147NM	SR00014SE
SA2128NM	SA3068NM	SA3681NM	SA4148NM	
SA2151NM	SA3301NM	SA3687NM	SA4381NM	
SA2367NM	SA3302NM	SA3688NM	SA4391NM	
SA2383NM	SA3304NM	SA3689NM	SA4960NM	
SA2614NM	SA3305NM	SA3690NM	SA4962NM	
SA2650NM	SA3306NM	SA3691NM	SA4963NM	
SA2652NM	SA3335NM	SA3692NM	SA5136NM	
SA2672NM	SA3336NM	SA3693NM	SA5934NM	
SA2678NM	SA3342NM	SA3694NM	SH2695NM	
SA2917NM	SA3529NM	SA3695NM	SH3533NM	
SA2942NM	SA3597NM	SA3696NM	SH3817NM	
SA3066NM	SA3598NM	SA3850NM	SA00682SE	

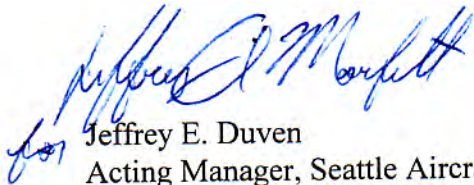
As recipient of this approval, please review your responsibilities under the requirements of Federal Aviation Regulation (FAR) 21.3, regarding the reporting of any failure, malfunction, or defect in any article manufactured under this STC. You are required to report such occurrences except as provided in FAR 21.3(d), to the Manager, Seattle Aircraft Certification Office, at 1601 Lind Ave. SW, Renton, WA 98055-4056. The report should be communicated initially by telephone to the Manager, (425) 917-6400, within 24 hours after it has been determined that the failure has occurred. In addition, written notification to the Manager, Seattle Aircraft Certification Office, ANM-100S, at the above address is required. Federal Aviation Administration (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 parts for sale in conformance with approved data listed on the STC, you are required to comply with FAR 21.303. A Parts Manufacturer Approval (PMA) may be issued under the provisions of FAR 21.303(d) when you submit a statement certifying you have established the fabrication inspection system as required by FAR 21.303(h). The identification requirements for parts produced under a PMA are in FAR 45.15. Your statement should 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 Manufacturing Inspection District Office, 2500 E. Valley Road, Suite C-2, Renton, WA 98055-4056.

You, as the STC holder, are responsible for any design changes necessary to correct unsafe conditions as well as for submitting those design changes for approval. This requirement is contained in FAR 21.99.

By acceptance of this certificate, you acknowledge that you have read and understand your responsibilities as an STC holder and are in effect certifying that you have received and hold all the available data from the previous holder.

Sincerely,



Jeffrey E. Duven  
Acting Manager, Seattle Aircraft  
Certification Office

Enclosures



**ROSEN PRODUCT  
DEVELOPMENT INC.**

P.O. BOX 5386, EUGENE, OR 97405 (503) 342-3802

AGUSTA 109  
MONORAIL SUNVISOR SYSTEM

DRAWING LIST

RA-109-00 DL

Drawing #	Description	Sheet #	Rev. Level	DCN #'s
RA-109-100	Monorail & Brackets	1	--	--
RA-109-100 PL	Parts List	1	--	--
RA-109-200 PL 1	Visor Lens	1	--	--
RA-109-200 PL 2	Parts List	1	--	--
RA-109-300	Assembly Drawing	1	--	--
RA-109-300 PL	Parts List	1	--	--

May 21, 1986



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DEVELOPMENT INC.**

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PARTS LIST

Drawing No. RA-109-100 PL

Agusta 109

No.	Required		P/N	Description	Material
		1	RA-109-100-1	Left Side Monorail	330 Brass Tubing 5/16" OD Brass .065 Wall
		1	RA-109-100-2	Right Side Monorail	330 Brass Tubing 5/16" OD Brass .065 Wall
		2	RA-109-100-3	Rear Brackets	260 HH Brass .090 Thick
		2	RA-109-100-4	Mid Brackets	↓
		1	RA-109-100-6	Front Bracket (Left Side)	
		1	RA-109-100-7	Front Bracket (Right Side)	



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**PARTS LIST**

Drawing No. RA-109-200 PL (Sheet 1)

Agusta 109

No.	Required		P/N	Description	Material
		2	RA-109-200-1	Visor Lenses --Dark Gray	1/8" Acrylite Acrylic
	2		RA-109-200-2	<u>Optional Colors:</u> --Light Gray	↓
	2		RA-109-200-3	--Bronze	
	2		RA-109-200-4	--Green	
		2	RA-109-200-5A	Thumb Tension Knob	1 3/16" $\phi$ Brass



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**PARTS LIST**

Drawing No. RA-109-200 PL (Sheet 2)

Agusta 109

No.	Required		P/N	Description	Material
		2	RA-109-200-5A	Tension Thumb Knob	Brass
		2	RA-109-200-7A	Clamping Block- Nut Plate	6061-T6 Aluminum
		2	RA-109-200-8A	Clamping Block Body	↓
		2	RA-109-200-8AA	Swivel	
		2	RA-109-200-8AB	Swivel Nut Plate	↓
		2	RA-109-200-9	Spring	Steel
		2	RA-109-200-10	7/32 Ball Bearings	Steel
		2	RA-109-200-11	Rubber Plugs	Rubber
		2	RA-109-200-12	1/4 x 28 x 3/8 Set Screw	Steel
		2	RA-109-200-13	Retainer Clips	Steel



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PARTS LIST

Drawing No. RA-109-300 PL

Agusta 109

No.	Required		P/N	Description	Material
1		1	RA-109-300-1	Complete Monorail System	
3		2	RA-109-300-3	Complete Visor Assembly	
4		1	RA-109-100-1	Left Side Monorail	330 Brass Tubing with 260 HH Brass Brackets Silver Soldered and Chrome Plated
5		1	RA-109-100-2	Right Side Monorail	330 Brass Tubing with 260 HH Brass Brackets Silver Soldered and Chrome Plated
6		6	AN526C-8/32R12	Machine Screws	Stainless Steel
7		6	A8K75	Rivnut	Aluminum
8		6	NAS42DD5-16	1/4" Spacer	Aluminum

May 21, 1986



INSTALLATION INSTRUCTIONS

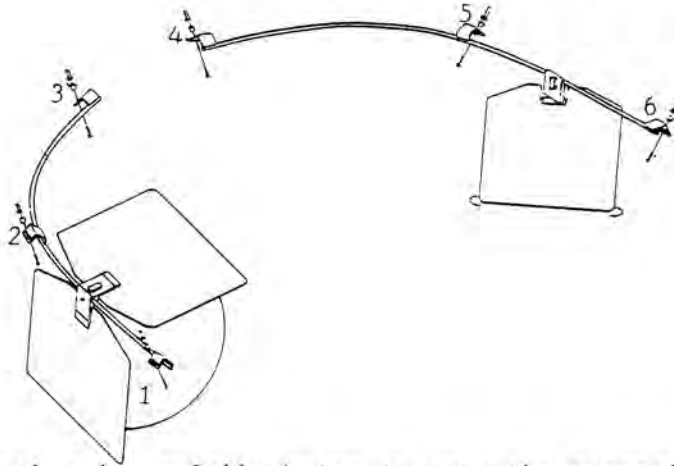
for

AGUSTA 109 MONORAIL SUNVISOR SYSTEM

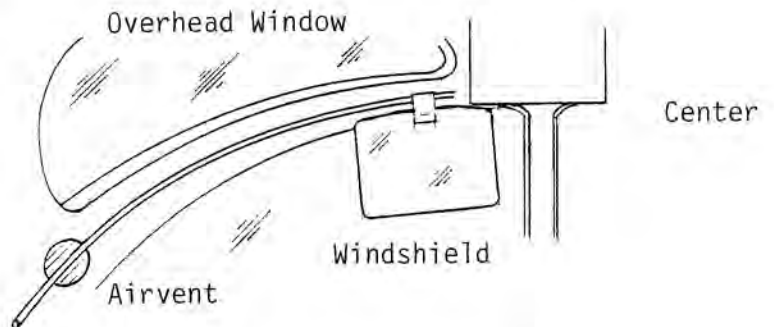
Drawing #RA-109-400

The Agusta 109 joins many other fine corporate aircraft that have the "Rosen Monorail Sunvisor System<sup>T.M.</sup>". Because of the cockpit layout this system was designed in two pieces and provides side and front coverage as well as coverage of the overhead area.

- o During the installation, the instructions will refer to Diagram #1.



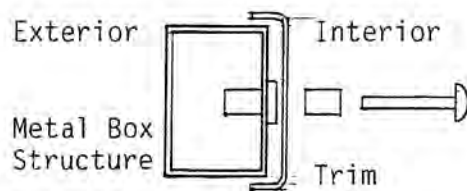
- o Unpack the left side rail and carefully bring it into the aircraft.
- o Align the rail so that it splits the round air vent on the side and the front bracket is near the bottom of the metal box frame that divides the windshield and upper window.



Take one of the visor assemblies and slip it over the rail by bracket #3. You want to be sure that bracket #3 is low enough so the lense will slip underneath the panel in the center but high enough so light will not come over the top of the visor. When the correct location is determined, mark the center of the slots on the brackets.

- o Some aircraft may have this box channel covered, some may be bare. For the aircraft that do not use a decorative trim of leather or Royalite, simply drill a hole for the installation of an A8K75 rivnut. For those aircraft having a trim piece, drill a small centering hole and then drill or cut the trim material for the diameter of the A8K75 rivnut. A 23/64 drill or sharp hole saw would be sufficient. (This size is for rivnut head clearance only and should be drilled in trim only not in the sheet metal.)

c o n t i n u e d . . . . .

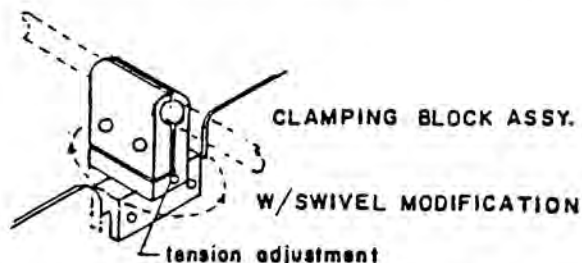
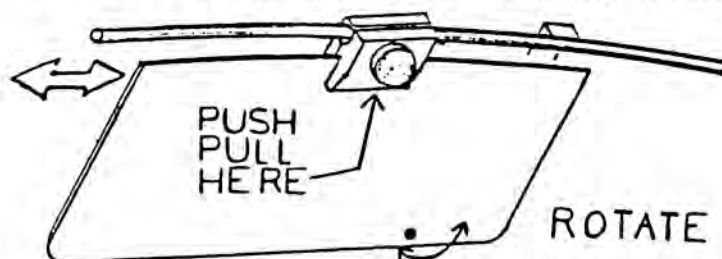


- o Install rivnuts as marked.
- o If trim is installed, use the NASDD 42DD5-16 spacer between the rivnut and bracket so that the trim is not squeezed during bracket tightening.
- o Install the left rail using AN526C-8/32R10 machine screws provided.
- o Repeat the positioning, marking, and installation steps for the right rail.

#### OPERATING INSTRUCTIONS

Your Rosen Monorail Sunvisor System was designed for easy use and maintenance and is the most functional unit on the market.

- o To use either visor, rotate down if stowed by using the lens as a lever.
- o Loosen the thumb tension knob and while still holding the knob, slide the visor smoothly along the monorail. (DO NOT SLIDE THE VISOR BY HOLDING THE LENS.)
- o To use anywhere on the system, tighten the thumb tension knob as desired. To swivel just rotate the lens in the vertical axis. Swivel tension can be adjusted with the set screw on the side of the clamping block.



- o To have additional room when the visor is used on the side windows, rotate the visor into the window recess.
- o To stow, tighten the thumb tension knob and, using the visor as a lever, rotate to the overhead. This will also offer extra sun protection for the overhead windows.
- o Periodic cleaning of the rail with rubbing alcohol will insure a positive clamp.
- o We welcome any comments on how we might improve our system or for other product ideas you might have to enhance your aircraft.