

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

*Number* SA5934NM

*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 23 of the Federal Aviation Regulations.*

*Original Product—Type Certificate Number:* A16EA, A11EA  
*Make:* American General  
*Model:* AA-1, AA-1A, AA-1B, AA-1C, AA-5, AA-5A, AA-5B, AG-5B

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

*Limitations and Conditions:* Approval of this change in type design applies to the above model aircraft 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 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 aircraft. A copy of this Certificate and FAA approved Rosen Drawing List Number RGT-00DL shall 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:* February 12, 1993

*Date reissued:* March 24, 2003

*Date of issuance:* March 23, 1993

*Date amended:* August 31, 1995; March 24, 2003



*By direction of the Administrator*

*[Signature]*  
(Signature)  
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.*



**Grumman Tiger NSA**  
**Sunvisor System**

Date	Revision	Aprv
2/20/24	K	SYS

**Drawing List**  
**RGT-00DL**  
 Kit No.: RGT-300-1

FAA STC SA5934NM

RGT-300-2

Doc. #9050-0165-001

System		Drawing	Reference	Description	Rev.
-1	-2				
1	1	R1650000		Sunvisor System	A
2	2	1650200		Lens Assembly	B
2		1650101		Swivel	E
2		1650102	RGT-200-2	Bracket	B
	2	1650103	RGT-200-3	Bracket	C
	2	1650104	RGT-300-0	Mounting Template	A
2	2	1650201	RGT-200-1	Lens	D
2	2	1010003		Lens Strip	H
2	2	1010000-5		Complete Slide Assembly	G
2	2	1010001-5		Female Slide	M
2	2	1010002-3		Male Slide	U
2	2	1020100-001		NSA Modified Block Assembly	F
2	2	1020002-001		Modified 'A' Block – Standard	P
2	2	1020003-001		Modified 'B' Block – Standard	V
		<b>R1010000-KIT-5</b>	<b>Kits</b>	<b>Universal Slide with Lens Strip Kit</b>	<b>A</b>
1	1	1010000-5		Complete Slide Assembly	G
1	1	1010003		Lens Strip	H
3	3	MS24693-C48BP		#8-32 X .375 Flat Head Phillips SS Black Patch Screw	



		<b>R1650201</b>		<b>Lens Kit</b>	D
1	1	9051-0165-001		Installation Instructions for Grumman Tiger Aircraft	C



## Installation Instructions for Grumman Tiger Aircraft Sunvisor System (Kit RGT-300-1, -2)

This is an FAA STC'd installation requiring a logbook entry upon completion.

Doc: 9051-0165-001

Rev	Date	Approved
C	6/16/09	GH

Installing your Rosen Sunvisor System is easily performed and should take approximately 1 hour.

Please read these short instructions **COMPLETELY** before starting.

### Installation Hardware (included)

Qty: (4) #8-32 × 7/16 100° Flat Head Phillips Screw  
(1) 5/32 Allen Key for #10-32 Cap Screw  
(1) 9/64 Allen Key

If your aircraft does not have visors, use **Installation Option A** for canopy mount type visors, or **Installation Option B** for windshield mount type visors.

If your aircraft has the original automotive-type visors please remove the visors and brackets (two machine screws beneath the canopy seal) from your aircraft with a Phillips screwdriver.

Carefully lift the rubber seal that covers the screws to provide access.

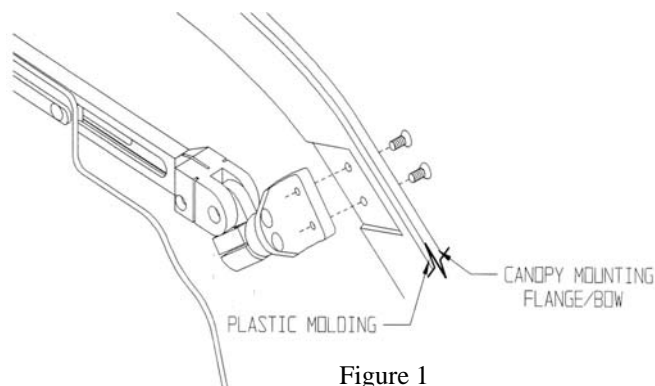


Figure 1

Using the #8-32 × 7/16 Flat head Phillips Screws included in your hardware packet, install the new **Rosen NSA Visors**. Install each visor, marked either pilot or co-pilot, in the same location as your old visors, using the same mounting points as shown in **Figure 1**.

### Installation Option A:

RGT-300-1 (Canopy Mount)

Loosen the front rubber canopy seal at the location shown in **Figure 2**. If the two factory holes are present, use a #18 drill bit (0.170" diameter) and drill clear through to the plastic molding using the factory holes as guides. If the factory holes are missing, use the information in **Figure 2** to create the mounting locations.

Drill through the metal flange/bow clear through the plastic molding. After the holes have been drilled, a 100° countersink will need to be added to the outside under the flange/bow rubber seal for the screws.

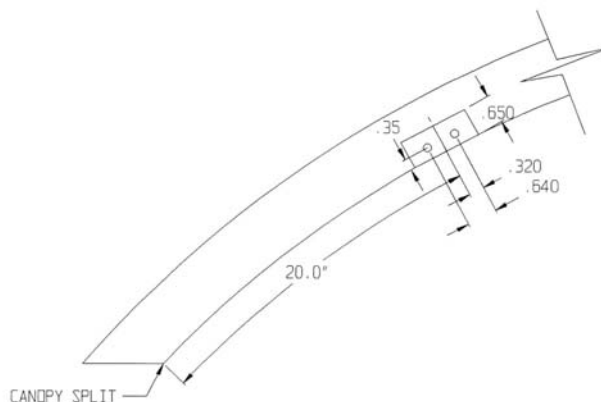


Figure 2

Locate the drilled holes that have penetrated through the plastic molding, and position the mounting bracket against the inside molding, aligning the holes. When everything is lined up, trace the outline of the bracket onto the molding by scoring the plastic.

After the outline has been transferred over, cut out the area inside the marks. **Note:** Only remove the top layer of the plastic molding. See **Figure 3**.

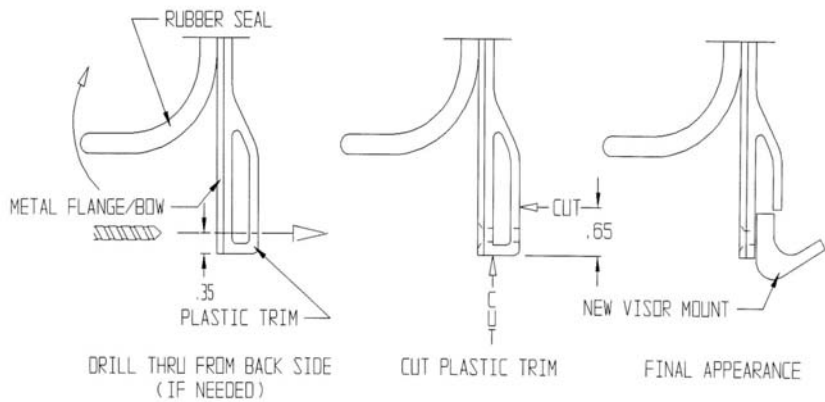


Figure 3

Using the #8-32 × 7/16 Flat head Phillips Screws included in your hardware packet, install the new **Rosen NSA Visors**. Install each visor, marked either pilot or co-pilot, in the cut out area that you have just completed.

Reseal the rubber canopy seal over the mounting screws. The installation is now complete for **Installation Option A**. Please refer to the **General Information** section on page 3.

**Installation Option B:**

RGT-300-2 (Windshield Mount)

Carefully lift up the rubber seal at the bottom of the location illustrated in **Figure 2**. If there are existing screws or holes in the flange/bow at the location, utilize one of them as a guide for mounting your new **Rosen NSA Visors**.

With the rubber seal removed to reveal the metal frame, locate the mounting hole positions under the bow seal using the information in **Figure 2** (viewed from the outside). Use a #18 drill bit (0.170" diameter) to drill through the metal flange/bow clear through the windshield mounting flange. After the holes have been drilled a 100° countersink will need to be added on the outside under the flange/bow rubber seal for the #8-32 × 7/16 Flat head Phillips Screws.

Using the #8-32 × 7/16 Flat head Phillips Screws install the new **Rosen NSA Visors**. Install each visor, marked either pilot or co-pilot, using the mounting points you have just completed. See **Figure 4**.

Reseal the rubber windshield bow seal over the mounting screws. The installation is now complete for **Installation Option B**. Please refer to the **General Information** section on page 3.

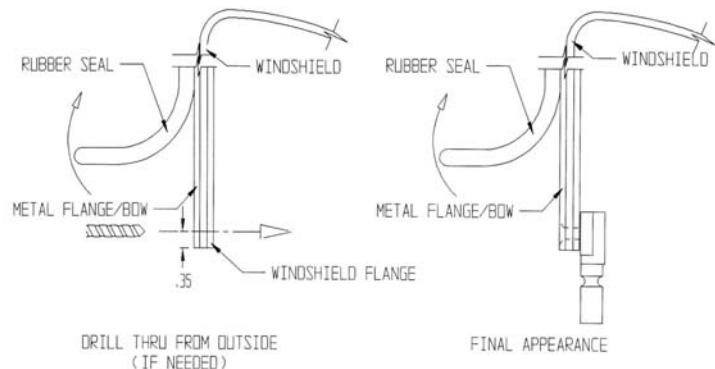


Figure 4

## **General Information**

The visor slides, or extends, towards the rear of the aircraft by holding the thumb extension screw which is spring loaded to ensure it does not move even when the aircraft is climbing or descending. See **Figure 5**. When the visor has been moved to the side window, simply slide it to the position most desirable and rotate it into the window area for more clearance.

Tension in the rotating axis can be adjusted to give the desired stiffness of movement. An Allen wrench of appropriate size is included for adjustments as desired. The tension has been pre-adjusted at our factory, but any drooping can be eliminated by tightening the appropriate clamping screw. The locations of the appropriate tensioning screws are identified in **Figure 5**.

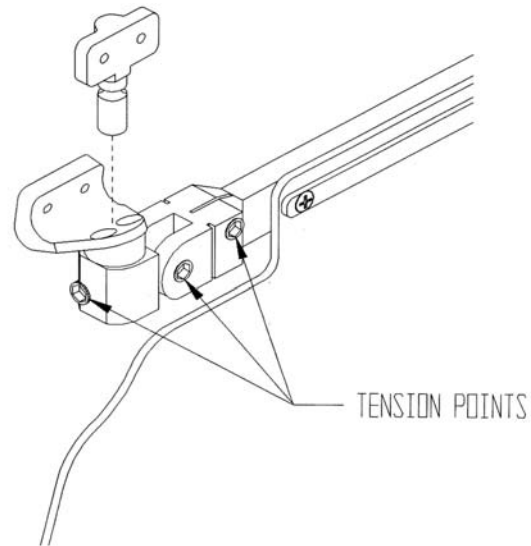


Figure 5

Stow the visor in the front forward or side operating position during take-off and landing to clear the canopy release handle. See **Figure 6**.

**IMPORTANT** (Canopy mount only): Visor must be stowed correctly during operation of the canopy (exit) to avoid hitting the rear cabin roof frame when the canopy is slid to the rear optimal open position.

## **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.

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.

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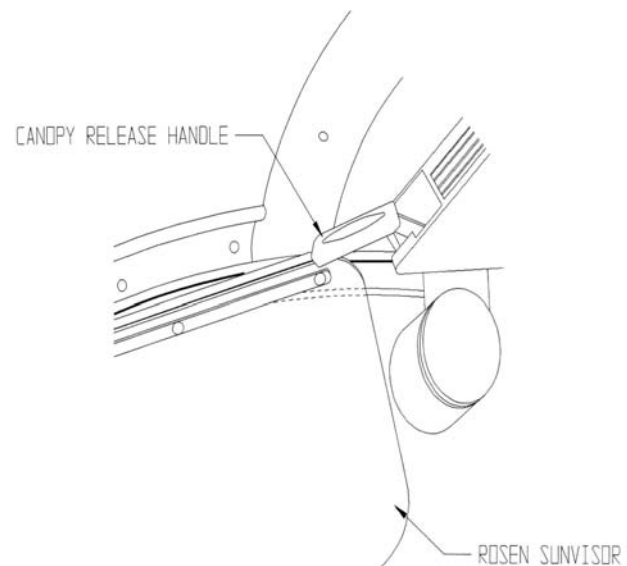


Figure 6

## **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.