

Department of Transportation Federal Aviation Administration

Supplemental Type Certificate

Number SA3066NM

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 3 of the Civil Air Regulations.

Original Product—Type Certificate Number: 3A20
Make: Raytheon
Model: 65 (L-23F), A65, A-65-8200, 65-80, 65-A80, 65-A80-8800, 65-B80, 65-88, 65-90, 65-A90, 70, B90, C90, C90A, E90, H90 (T-44A), 65-A90-1 (JU-21A, U-21A, RU-21A, RU-21D, U-21G, RU-21H), 65-A90-2 (RU-21B), 65-A90-3 (RU-21C), 65-A90-4 (RU-21E, RU-21H)

Description of the Type Design Change: Installation of monorail sun visor system in accordance with FAA approved Rosen Sunvisor Systems, Drawing List RBKA-00DL, Revision N/C, or later FAA approved revision.

Limitations and Conditions: The approval of this change in type design applies basically to the above model aircraft only. This approval should not be extended to aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of the aircraft. The resulting interior arrangement, along with the required placarding has not been evaluated and is not part of this STC. A copy of this Certificate and FAA approved Rosen Sunvisor Systems, Drawing List Number RBKA-00DL, shall be maintained as part of the permanent records of 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: May 20, 1985

Date reissued: March 24, 2003

Date of issuance: July 16, 1985

Date amended: March 24, 2003, July 15, 2004



By direction of the Administrator

 (Signature)

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.



**King Air Series Monorail
Sunvisor System for 200, A90,
B90, C90, E90, F90, 100**

Date	Revision	Approved
2/18/22	H	SYS

Drawing List
RBKA-00DL

Doc.#9040-0150-001

200	90 Series					100	PART NUMBER		DESCRIPTION	REV
	A	B	E	C	F			Replaces		
1A	1B	1F	1D	1C	1E	1G				
1							1500000	R15000000 RBKA-300-1A	Complete System	B
1							1500200	R1500200 RBKA-200-100	King Air 200 Monorail Assembly	E
1							1500201	RBKA-100-1A	King Air 200 Monorail	D
1							1500202	RBKA-200-100-3	King Air 200 Center Bracket	C
1							1500203-001	RBKA-200-100-2	Corner Bracket, Pilot	D
1							1500203-002	RBKA-200-100-4	Corner Bracket, Co-Pilot	D
					1		1560000	R15600000 RBKA-300-1E	Complete System	B
					1		1560200	RBKA-100-50 R1560200	King Air F90 Monorail Assembly	E
					1		1560201	RBKA-100-1E	King Air F90 Monorail	D
					1		1560202	RBKA-100-53	King Air F90 Center Bracket	E
					1		1560203-001	RBKA-100-52	King Air F90 Corner Bracket – Pilot	D
					1		1560203-002	RBKA-100-54	King Air F90 Corner Bracket – Co-Pilot	D
				1			1561000		Complete System King Air C-90	B
		1				1	1562000		Complete System A,B,E-90 & 100	B
		1		1		1	1562100	RBKA-100-*	Rail Assembly	B
		1		1		1	1562101		Rail, King Air Series	B
		2		2		2	1562102		Bracket - Forward	B
		2		2		2	1562103		Bracket - Mid	C
1		1		1	1	1	1560100-1	RBKA-100-1	End Bracket Assembly (Pilot side)	G
1		1		1	1	1	1560100-2	RBKA-100-5	End Bracket Assembly (Co-Pilot side)	G
2		2		2	2	2	1560101		End Bracket Tube	E
2		2		2	2	2	1560102		End Bracket Mounting Plate	D

Drawing List
RBKA-00DL
Continued from Page 1

200	90 Series					100	PART NUMBER	DESCRIPTION	REV	
	A	B	E	C	F					
1A	1B	1F	1D	1C	1E	1G	Replaces			
		2		2	1	2	1560103		Square Washer	D
2		2		2	2	2	1560104	RBKA-100-38	Clamping Washer	D
2		2			2	2	1500400-1	R1500400-1 RBKA-300-3-1	Visor Assembly (Includes parts listed below)	C
				2			1500400-2	R1500400-2 RBKA-300-3	Visor Assembly (Includes parts listed below)	C
									Clamp Block Assembly	
2		2		2	2	2	1120000-001		Complete Assembly	K
2		2		2	2	2	1120101-001		Nut Plate, Standard	L
2		2		2	2	2	1120102-001		Clamping Block Body	L
2		2		2	2	2	1120104-002	R1120104-002	Thumb Knob – Original (Powder Coat)	M
2		2		2	2	2	1120104-001	R1120104-001	Thumb Knob – Standard	M
2		2		2	2	2	1120203		Swivel, Clamping Block	P
									Lens Components	
2		2		2	2	2	1110202	R1110202	Swivel Nut Plate	E
2		2			2	2	1500401	R1500401 RBKA-200-1	King Air Sunvisor System Lens	G
				2			1500402	R1500402 RBKA-200-1A	King Air C-90 Lens	D
									KITS	
							RCBS-100		Complete Clamping Block Assembly	E
							RCBS-300-11M		Kit, Standard, Thumb Knob	D
							R1500401		King Air Sunvisor System Lens	G
							R1500402		King Air C-90 Lens	D
									Installation Instructions	
1							9041-0156-001		King Air Monorail Sunvisor System for 200, 300 and 1900	D
		1		1		1	9041-0156-003		King Air Monorail Sunvisor System for A90, C90, E90	E
					1		9041-0156-004		King Air Monorail Sunvisor System for F90	D

* Construction of RBKA-100 Monorails for 90 Series A, B, C, and E are customized for individual airframes.

Installation Instructions for King Air Monorail Sunvisor System for A-90, B-90, C-90, E-90 and 100 (Ref. RBKA-300-1B, -1C, -1D & 1G)

This is a FAA STC installation and requires an Aircraft Maintenance log entry.

Doc: 9041-0156-003

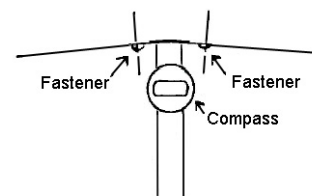
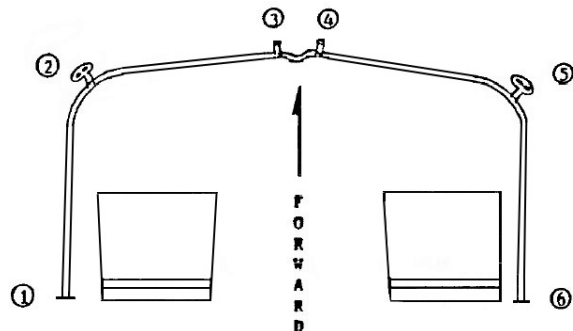
Rev	Date	Approved
D	2/11/08	GH

Please read through these instructions completely before beginning.

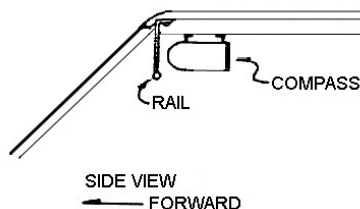
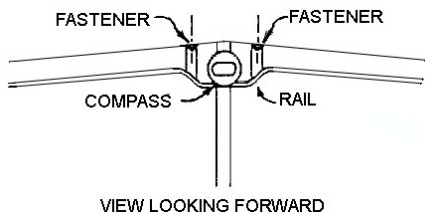
Hardware:

6	AN526C832R10	#8-32 x 5/8 Screws
4	AN526C832R5	#8-32 x 5/16 Screws
6	AN960D9	#8 Aluminum Washers
4	A8K75	#8-32 Rivnuts
2	PCS-1000-14STZO	E-Clips
2	1560103	Square Washers
1	3/32 Hex Key	
1	7/64 Hex Key	

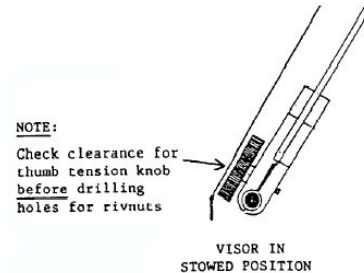
- During the installation of your new monorail sun visor system we will refer to the attach brackets #1 through #6 as diagrammed here:
- This monorail system has been designed for ease of installation and uses the original visor nut plates as the main fastening points for Brackets #2 through #5. Brackets #1 and #6 will be secured to the rear bulkhead using appropriate fastening devices. #8-32 screws and Rivnuts are supplied for this purpose.
- Remove the original swing arm visors.
- Remove the trim fasteners on either side of the compass (above and to the rear, left and right).
- Carefully bring the monorail into the cockpit and install brackets #2 and #5 to the original visor nut plates using AN526C832R10 #8-32 X 5/8 Philips Head Screw and AN960D9 washers. Snug fasteners but do not tighten.
- Loosely install AN526C832R10 fasteners using the square washers (1560103) provided.



View Looking Forward

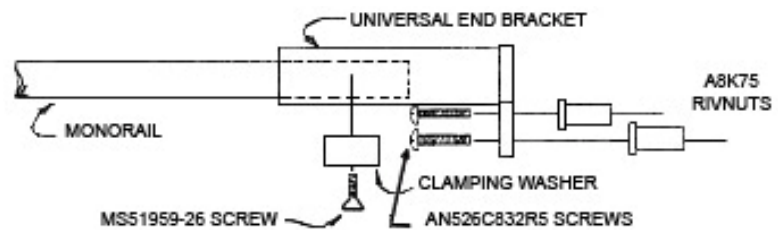


- The wide slot in Brackets #3 and #4 provide fore and aft travel to insure adequate clearance between the compass and center post. The clearance is needed when the visor assembly slides past the compass (clearance between compass and thumb tension knob).
- On both Pilot's and Co-Pilot's side the aft portion should roughly follow the headliner seam which is horizontal. The end Brackets #1 and #6 will extend to the bulkhead behind the seats.
- Holding the monorail place a visor in the stow position to determine the location of the rear bracket. Position the rear bracket and mark the mounting screw locations on the bulkhead.



Note: Be certain there is adequate clearance between the thumb tension knob and the headliner when the visor is in the stow position.

- Because of variances in cockpits the rear brackets are fitted with an extending feature to provide for a good fit.
- Because of the various interior materials used in the construction of the bulkhead determine the desired method of attachment and prepare the mounting locations in the bulkhead. Construction varies between covered sheet metal to Formica covered honeycomb material. AN826C832R5 screws and A8K75 Rivnuts are provided if needed.

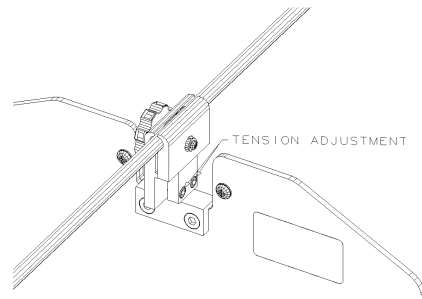


- Install all the fasteners and tighten in place.
- If, due to irregularity between aircraft, brackets do not align perfectly prior to tightening fasteners the brass substructure of the rail and brackets will conform slightly to the aircraft contour.
- Install the visor assemblies by loosening the thumb knob until the clamp blocks can be slipped over the rail. Tighten the thumb tension knobs until the snap ring groove is visible on the thread of the thumb knob in back. Install the snap rings provided. These are provided to limit the opening of the clamping block and prevent accidental disengagement of the visor assembly from the rail.

NOTE: When the visor is on the rail the tensioning knob should face the pilots.

- Check the clearance for the clamp block as it passes behind the compass. If more clearance is required loosen brackets #3 and #4 and move the rail towards the windshield.
- To move the visors, loosen the thumb tensioning knob until the clamp is loose enough to slide along the monorail while holding the thumb knob. To move past the mounting brackets the visor must be positioned so the clamps pass over the brackets.

- Your monorail system is equipped with a swivel design that allows rotation about the axis of the lens. Rotational tension can be adjusted by adjusting one or both of the hex socket head cap screws on the back side of the clamp block and below the thumb knob screw.
- The visor should be aligned with the clamp block before sliding along the monorail.
- Place the FAA STC and AML (if appropriate) in the Aircraft Maintenance Log and make as installation entry.



Continued Airworthiness Instructions:

- **(On the ground only)**
 - Periodically clean the lenses with a soft cloth, mild soap and water or an approved aviation grade windscreen cleaner. 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)

The most up to date version of this document is available on the Rosen Website. (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.