

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

*Number* SA3598NM

*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 therefor as specified herein meets the airworthiness requirements of Part 3 of the Civil Air Regulations.*

*Original Product—Type Certificate Number:*

See attached FAA Approved Model List (AML), Document No. SA3598NM issued July 25, 2006 or later FAA approved amendments for the list of approved airplane models, applicable installation data requirements and specific limitations.

*Make:*

*Model:*

*Description of the Type Design Change:*

Installation of cockpit sunvisor assemblies in accordance with Rosen Sunvisor Systems, LLC Master Drawing List (MDL) referenced on the attached AML, or later FAA-approved amendments.

*Limitations and Conditions:*

Approval of this change in type design applies to the aircraft models listed on the attached AML. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined that the relationship 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 that aircraft. A copy of this certificate and Rosen Sunvisor Systems, LLC FAA approved MDL must 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:* August 25, 1986

*Date reissued:* March 24, 2003

*Date of issuance:* September 22, 1986

*Date amended:* March 24, 2003; July 7, 2004;  
July 25, 2006; November 21, 2006;  
September 6, 2013



*By direction of the Administrator*

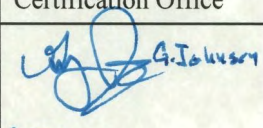
*TDD*  G. Johnson  
(Signature)  
Northwest Mountain Regional Manager  
Denver Aircraft Certification Office  
(Title)

**Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.**

United States of America  
 Department of Transportation - Federal Aviation Administration  
 Approved Model List (AML)

**FOR**  
**SUNVISOR ASSEMBLY PART NUMBERS 1160004, 1160005 and 1162000**  
**ROSEN SUNVISOR SYSTEMS, LLC**  
**STC SA3598NM**

**1. AML Revision Log**

Date	Pages	Description	FAA Approval
July 25, 2006	ALL	Initial Release	Victor Wicklund Manager, Seattle Aircraft Certification Office
September 6, 2013	ALL	1. Added new sections: AML Revision Log, Introduction and Certification Basis. 2. Reformatted section 4 Approved Model List 3. Aircraft Make was Raytheon (Beech) "Bonanza"	 Podd Dixon Manager, Denver Aircraft Certification Office

**2. Introduction**

This document is the FAA Approved Model List for STC No. SA3598NM for installing the 1160004, 1160005 or 1162000 Cockpit Sunvisor Assemblies into eligible aircraft.

Revisions to the AML must be coordinated between the STC holder and the responsible ACO, and require FAA approval.

**3. Certification Basis**

Aircraft Make	Aircraft Model	Type Data Sheet	Certification Basis
Beechcraft Corporation "Bonanza / Debonair"	35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33C, F33, F33A, F33C, G33, H35, G36, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC	3A15	CAR 3

United States of America  
 Department of Transportation - Federal Aviation Administration  
 Approved Model List (AML)  
 FOR  
**SUNVISOR ASSEMBLY PART NUMBERS 1160004, 1160005 and 1162000**  
**ROSEN SUNVISOR SYSTEMS, LLC**  
**STC SA3598NM**

**4. Approved Model List**

Aircraft Make	Aircraft Model	Required Approved Data and Added Model Specific Limitations	AML Amendment Date
Beechcraft Corporation "Bonanza / Travel Air"	35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33C, F33, F33A, F33C, G33, H35, G36, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC	<p><b>Master Drawing List:</b> RBB-00DL, Revision NC, dated August 26, 1986 or later FAA approved revision</p> <p><b>Installation Instructions:</b> Included in Master Drawing List</p> <p><b>Instructions for Continued Airworthiness:</b> Included in Master Drawing List as part of the Installation Instructions.</p> <p><b>Additional Limitations:</b> None</p>	09/06/2013

PRE/GGSA/GCO/2406 -2019

Caracas, 25 ABR. 2019

Ciudadano  
**LUÍS RAMÍREZ**  
Gerente de Operaciones  
Aviaservice  
OMAC N° 116  
Su Despacho.-

Con alto sentido revolucionario y elevado espíritu patriótico, me es grato dirigirme a usted, en la oportunidad de extenderle un cordial saludo y a la vez, dar respuesta a su comunicación, donde solicita la aceptación del Certificado Tipo Suplementario STC N° SA3598NM, de fecha de emisión el 22 de septiembre de 1986 y enmendado el 06 de septiembre de 2013, emitido por la Administración Federal de Aviación (FAA) de los Estados Unidos, referente a la Modificación por Instalación de cockpit sunvisor assemblies, aplicable a las aeronaves listadas en la lista maestra de modelos (AML). A tal efecto, le informo que una vez evaluada y analizada la documentación consignada, este Instituto **acepta** el Certificado Tipo Suplementario mencionado anteriormente para las aeronaves especificadas en la Lista Maestra de Modelos (AML) aprobada para este STC, en conformidad con lo establecido en la Regulación Aeronáutica Venezolana 21 (RAV 21) vigente.

Esta aprobación es válida sólo para el Certificado Tipo Suplementario arriba indicado y no podrá ser extendida a otro, ni puede ser utilizada como aprobación alguna para la realización de cualquier alteración en las aeronaves, motores o hélices inscritos en el Registro Aeronáutico Nacional.

Sin otro particular a que hacer referencia, reciba usted mi más alta estima y consideración.

Atentamente,



**ALM. CARLOS JOSÉ VIEIRA ACEVEDO**  
Presidente (E) del Instituto Nacional de Aeronáutica Civil (INAC)

Decreto N° 3.771 de fecha 19/02/2019

Publicado en Gaceta Oficial N° 41.589 del 19/02/2019

*"No podemos optar entre vencer o morir. Necesario es vencer"*

CM/VZ/MG/mh

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

*Number* SA3599NM

*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 therefor as specified hereon meets the airworthiness requirements of either Part 3 of the Civil Air Regulations or Part 23 Title 14 of the Code of Federal Regulations.*

*Original Product—Type Certificate Number:*

See attached FAA Approved Model List (AML), Document No. SA3599NM issued April 4, 1994 or later FAA approved amendments for the list of approved airplane models, applicable installation data requirements and specific limitations.

*Make:*

*Model:*

*Description of the Type Design Change:*

Installation of cockpit sunvisor assemblies in accordance with Rosen Sunvisor Systems, LLC Master Drawing List (MDL) referenced on the attached AML, or later FAA-approved amendments.

*Limitations and Conditions:*

Approval of this change in type design applies to the aircraft models listed on the attached AML. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined that the relationship 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 that aircraft. A copy of this certificate and Rosen Sunvisor Systems, LLC FAA approved MDL must 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:* May 1, 1986

*Date reissued:* March 24, 2003

*Date of issuance:* July 11, 1986

*Date amended:* April 8, 1994; March 24, 2003;  
July 7, 2004; March 3, 2008;  
September 6, 2013



*By direction of the Administrator*

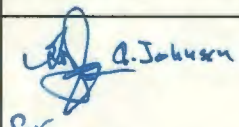
*Todd Dixon*  
Todd Dixon (Signature)  
Northwest Mountain Regional Manager  
Denver Aircraft Certification Office

(Title)

**Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.**

United States of America  
 Department of Transportation - Federal Aviation Administration  
 Approved Model List (AML)  
 FOR  
 SUNVISOR ASSEMBLY PART NUMBERS 1160004, 1160005 and 1162000  
 ROSEN SUNVISOR SYSTEMS, LLC  
 STC SA3599NM

**1. AML Revision Log**

Date	Pages	Description	FAA Approval
April 4, 1994	ALL	Initial Release	Dan Bui Acting Manager, Seattle Aircraft Certification Office
March 24, 2003	ALL	Added AML amendment date 03/24/03 to correspond with STC amended same date. No other changes.	Richard Simonson Acting Manager, Seattle Aircraft Certification Office
July 7, 2004	ALL	<ol style="list-style-type: none"> <li>1. Aircraft Make was Beech Baron</li> <li>2. Removed Baron Model 3A16</li> <li>3. Baron Models 58P, 58PA, 58TC, 58TCA Certification Basis was CAR 3</li> <li>4. Added Baron Models 95-55, 95-A55, 95-B55, 95-B55A, 95-B55B (T-42A), 95-C55, 95-C55A, D55, D55A, E55, E55A, 56TC, A56TC, 58, 58A</li> <li>5 Added Travel Air Models B95A, D95A, E95, 95, B95</li> </ol>	James Rehr Acting Manager, Seattle Aircraft Certification Office
March 3, 2008	ALL	<ol style="list-style-type: none"> <li>1. Added Baron Model G58</li> <li>2. MDL Revision/date was NC/August 26, 1986</li> </ol>	Donald Eiford for Acting Manager, Seattle Aircraft Certification Office
September 6, 2013	ALL	<ol style="list-style-type: none"> <li>1. Added new sections: AML Revision Log, Introduction and Certification Basis.</li> <li>2. Reformatted section 4 Approved Model List</li> <li>3. Aircraft Make was Raytheon (Beech)</li> </ol>	 Todd Dixon Manager, Denver Aircraft Certification Office

**2. Introduction**

This document is the FAA Approved Model List for STC No. SA3599NM for installing the 1160004, 1160005 or 1162000 Cockpit Sunvisor Assemblies into eligible aircraft.

Revisions to the AML must be coordinated between the STC holder and the responsible ACO, and require FAA approval.

United States of America  
 Department of Transportation - Federal Aviation Administration  
 Approved Model List (AML)

**FOR**  
**SUNVISOR ASSEMBLY PART NUMBERS 1160004, 1160005 and 1162000**  
**ROSEN SUNVISOR SYSTEMS, LLC**  
**STC SA3599NM**

**3. Certification Basis**

Aircraft Make	Aircraft Model	Type Data Sheet	Certification Basis
BEECH "Baron"	58P, 58PA, 58TC, 58TCA	A23CE	14 CFR 23
Beechcraft Corporation "Baron"	95-55, 95-A55, 95-B55, 95-B55A, 95-B55B (T-42A), 95-C55, 95-C55A, D55, D55A, E55, E55A, 56TC, A56TC, 58, 58A, G58	3A16	CAR 3
Beechcraft Corporation "Travel Air"	B95A, D95A, E95, 95, B95	3A16	CAR 3

**4. Approved Model List**

Aircraft Make	Aircraft Model	Required Approved Data and Added Model Specific Limitations	AML Amendment Date
BEECH "Baron"	58P, 58PA, 58TC, 58TCA	<p><b>Master Drawing List:</b> RBB-00DL, Revision E, dated January 16, 2008 or later FAA approved revision</p> <p><b>Installation Instructions:</b> Included in Master Drawing List</p> <p><b>Instructions for Continued Airworthiness:</b> Included in Master Drawing List as part of the Installation Instructions.</p> <p><b>Additional Limitations:</b> None</p>	03/24/03 07/07/04 03/03/08 09/06/13

United States of America  
 Department of Transportation - Federal Aviation Administration  
 Approved Model List (AML)

**FOR**  
**SUNVISOR ASSEMBLY PART NUMBERS 1160004, 1160005 and 1162000**  
**ROSEN SUNVISOR SYSTEMS, LLC**  
**STC SA3599NM**

Aircraft Make	Aircraft Model	Required Approved Data and Added Model Specific Limitations	AML Amendment Date
Beechcraft Corporation "Baron"	95-55, 95-A55, 95-B55, 95-B55A, 95-B55B (T-42A), 95-C55, 95-C55A, D55, D55A, E55, E55A, 56TC, A56TC, 58, 58A, G58	<p><b>Master Drawing List:</b> RBB-00DL, Revision E, dated January 16, 2008 or later FAA approved revision</p> <p><b>Installation Instructions:</b> Included in Master Drawing List</p> <p><b>Instructions for Continued Airworthiness:</b> Included in Master Drawing List as part of the Installation Instructions.</p> <p><b>Additional Limitations:</b> None</p>	07/07/04 03/03/08 09/06/13
Beechcraft Corporation "Travel Air"	B95A, D95A, E95, 95, B95	<p><b>Master Drawing List:</b> RBB-00DL, Revision E, dated January 16, 2008 or later FAA approved revision</p> <p><b>Installation Instructions:</b> Included in Master Drawing List</p> <p><b>Instructions for Continued Airworthiness:</b> Included in Master Drawing List as part of the Installation Instructions.</p> <p><b>Additional Limitations:</b> None</p>	07/07/04 03/03/08 09/06/13



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

*Number* SA3650NM

*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:* A-777  
*Make:* Raytheon  
*Model:* 35, A35, B35, C35, D35, E35, F35, G35, 35R

*Description of the Type Design Change:* Cockpit Sun Visor installation in accordance with FAA approved Rosen Sunvisor Systems Drawing List Number RBB-00DL, dated August 26, 1986, or later FAA approved revisions.

*Limitations and Conditions:* Approval of this change in type design applies to only those aircraft models listed above. 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 Sunvisor Systems Drawing List Number RBB-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:* August 25, 1986  
*Date of issuance:* September 22, 1986

*Date reissued:* March 24, 2003  
*Date amended:* March 24, 2003, July 7, 2004



*By direction of the Administrator*

*Jan A. Rehl*  
\_\_\_\_\_  
(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.



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

September 11, 2013

Sharon Skidmore  
Quality Administrator  
Rosen Sunvisor Systems, LLC  
86365 College View Road  
Eugene, Oregon 97405

Dear Ms. Skidmore:

In response to your letter dated July 7, 2013, we have reviewed your request to add a Short Arm, Cockpit, Sunvisor System to the Master Drawing List (MDL) for Supplemental Type Certificates (STC) SA3597NM, SA3598NM, SA3599NM and SA3650NM. The Short Arm System was developed to accommodate the addition of cockpit air management ducting being added to the center overhead of Beechcraft Corporation model G36 (S/N E-3957, E-3981 and up) and G58 (S/N TH-2310, TH-2340 and up) aircraft. It can also be installed in Beechcraft Corporation model 36, A36, 58 and 58A aircraft. Our review of the data submitted indicates this major change continues to meet the requirements of Part 3 of the Civil Aviation Regulations. The approved MDL RBB-00DL, Revision L, dated August 20, 2013, FAA approved on September 5, 2013, is enclosed.

Also enclosed, in support of this change, please find:

1. STC SA3598NM, issued September 22, 1986 and amended September 6, 2013. The STC was amended to remove data duplicated on its Approved Model List (AML).
2. AML SA3598NM, issued July 25, 2006 and amended September 6, 2013. The AML was amended to update its format.
3. STC SA3599NM, issued September 22, 1986 and amended September 6, 2013. The STC was amended to remove data duplicated on its Approved Model List (AML).
4. AML SA3599NM, issued April 4, 1994 and amended September 6, 2013. The AML was amended to update its format.

Note that STC SA3597NM and SA3650NM were not revised as they do not have AML.

The Instructions for Continued Airworthiness for the Short Arm Sunvisor System, 9100-1162-000, Revision A, dated June 21, 2013, was FAA accepted on August 29, 2013 and is listed in the FAA approved MDL.

In accordance with Title 14 Code of Federal Regulations, 14 CFR Part 21.3, and as a recipient of these amended certificates, you are required to report any failure, malfunction, or defect, except as provided in 14 CFR Part 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 Part 21.3(c). The report should be communicated initially by telephone to the Manager, Denver Aircraft Certification Office, at (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.

Per 14 CFR Part 21.50 the STC holder must furnish maintenance procedures for continued airworthiness, as applicable to this change in type design, to the operator at the time the aircraft is returned to service. Thereafter, the holder of a design approval must make those instructions available to any other person required by this chapter to comply with any of the terms of those instructions. In addition, changes to the Instructions for Continued Airworthiness must be made available to any person required by this chapter to comply with any of those instructions.

By accepting these certificates, 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, those parts must be produced under an FAA production approval per 14 CFR 21.9. Although the holder of an STC may apply for a production certificate in accordance with 14 CFR Part 21 Subpart G, for STC parts it is recommended you apply for a Parts Manufacturer Approval (PMA) in accordance with 14 CFR Part 21 Subpart K. Guidance for obtaining PMA for an STC part is included in FAA Order 8110.42. The identification requirements for parts produced under a PMA are in 14 CFR Part 45.15. Your application may be in letter form, with reference to STC SA3598NM and SA3599NM, and should be addressed to the Federal Aviation Administration, Northwest Mountain Region, at the address indicated below:

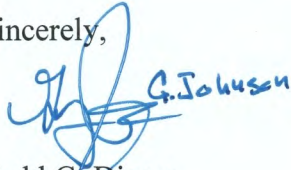
Federal Aviation Administration  
Seattle Manufacturing Inspection District Office, ANM-108S  
1801 Lind Ave. SW  
Renton, WA 98057

Attention: Manager, Seattle Manufacturing Inspection District Office

This effort was accomplished as part of Federal Aviation Administration (FAA) Project Numbers SA5663DE-A and SA5664DE-A which are now closed per this letter. If you have

any questions, please contact Mr. Richard Thomas at (303) 342-1085 or richard.r.thomas@faa.gov.

Sincerely,



*For* Todd G. Dixon  
Manager, Denver Aircraft Certification Office

5 Enclosures



**Beech Bonanza/Baron/ Duke**  
**NSA Sunvisor System**

Date	Revision	Approved
9/5/23	V	SYS

Drawing List  
**RBB-00DL**

**Doc. #9050-0116-001**

Bon/Bar Std	Bon/Bar 3 <sup>rd</sup> Axis	Duke Std	Duke 3 <sup>rd</sup> Axis	36, A36, G36* 58, 58A, G58**	* S/N E-3957, E-3981 and up ** S/N TH-2310, TH-2340 and up	Kit RBB-300	R1162000	Drawing	Replaces	Description	Rev
1	-1A	-2	-2a								
		1						1160001	R1160001	Complete Assembly Duke Standard	C
			1					1160002	R1160002	Complete Assembly Duke 3 <sup>rd</sup> Axis	D
1								1160004	R1160004	Complete Assembly Bonanza/Baron Standard	C
	1							1160005	R1160005	Complete Assembly Bonanza/Baron 3 <sup>rd</sup> Axis	F
				1				1162000		Complete Assembly, Short Arm	B
2	2	2	2					1010000-5		Complete Slide Assembly	F
								1010001-5		Female Slide	M
								1010002-3		Male Slide	T
2	2	2	2					1010003		NSA Lens Strip	G
				2				1013000		Slide Assembly	A
								1013001		Slide, Female	D
								1013002		Slide, Male	B
				2				1013003		Lens Strip	B
2		2		2				1020001	R1020001	Original Block	P
	2		2					1020100-001		NSA Modified Block Assembly	F
								1020002-001		Modified 'A' Block	P
								1020003-001		Modified 'B' Block	V
2	2			2				1160101-1		Mounting Plate	F
2	2			2				1160102-1		Bonanza Style Swivel	H
		2	2					1160201		Duke Bracket	D
		2	2					1160202		Duke Style Swivel	J

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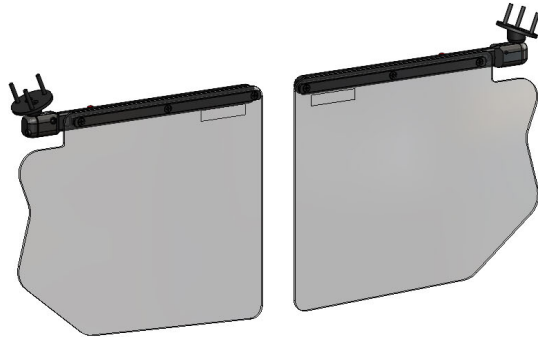
# Rosen®

## SUNVISOR SYSTEMS

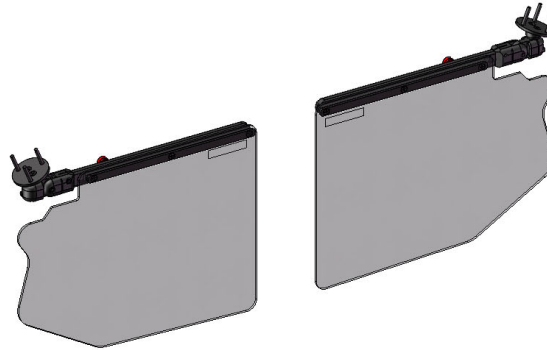
2					1160401-001	Bonanza/Baron Standard Lens ( <i>Sales Ref: RBB-200-1</i> )	L
	2				1160401-002	Bonanza/Baron Modified Lens ( <i>Sales Ref: RBB-200-1A</i> )	L
		2			1160402-1	Duke Standard Lens ( <i>Sales Ref: RBB-200-2</i> )	E
			2		1160402-2	Duke 3 <sup>rd</sup> Axis Lens ( <i>Sales Ref: RBB-200-2A</i> )	E
				2	1160404	Lens	B
1	1			1	<b>KITS</b> <b>R1160102-1</b> 1160102-1	<b>Bonanza Style Swivel Kit</b> Bonanza Style Swivel Magnalube	H
1	1	1	1		<b>R1010000-KIT-5</b> 1010000-5	<b>Universal Slide with Lens Strip Kit</b> Complete Slide Assembly	A F
1	1	1	1		1010003	Lens Strip	G
3	3	3	3		MS24693-C48BP	#8-32 X .375 Flat Head Phillips SS Black Patch Screw Magnalube	
1 or 20	1 or 20	1 or 20	1 or 20		<b>2816-KIT</b> 2816-1011-000	<b>Black Knob Kit</b> Knob, 8-32X.5 SHC SS Black	
				1 or 20	<b>99-701-KIT</b> 99-701	<b>Red Knob Kit</b> Knurled Knob 8-32 X .75	
1	1				<b>Lens Kits</b> <b>R1160401-001</b>	<b>Bonanza/Baron Standard Lens</b>	L
1	1				<b>R1160401-002</b>	<b>Bonanza/Baron Modified Lens</b>	L
		1			<b>R1160402-1</b>	<b>Duke Standard Lens</b>	E
			1		<b>R1160402-2</b>	<b>Duke 3<sup>rd</sup> Axis Lens</b>	E
				1	<b>R1160404</b>	<b>Lens</b>	B
1	1	1	1		9100-1160-001	Product Maintenance Manual, Beech Duke Kit RBB-300-2, RBB-300-2A	A
					9100-1160-002	Product Maintenance Manual, Beech Bonanza/Baron Kit RBB-300-1, RBB-300-1A	A
				1	9100-1162-000	Component Maintenance Manual (includes Installation Instructions, ICA, IPC)	A



**Rosen Sunvisor Systems for Beech Bonanza/Baron  
Kit Numbers R1160004-0 (RBB-300-1)  
and R1160005-0 (RBB-300-1A)**



**R1160004-0**



**R1160005-0**

**Product Maintenance Manual  
with Illustrated Parts List  
and Instructions for Continued Airworthiness**

**Manual Number  
Rosen 9100-1160-002  
Revision A**

Sept 21, 2022

Rosen Sunvisor Systems LLC  
86365 College View Road  
Eugene, Oregon 97405 USA  
1-800-284-7677

This ICA must be followed when the R1160004-0 and R1160005-0 Sunvisor systems are installed in accordance with Supplemental Type Certificate(s) (STC) No. SA3598NM, dated September 22, 1986, amended September 6, 2013, SA3599NM issued July 11, 1986, amended September 6, 2013, and SA3650NM, Issued September 22, 1986, amended July 7, 2004.

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 Maintenance Manual.

**STATEMENT OF Rev A CERTIFICATION**

This manual complies with Federal Aviation Association (FAA) Airworthiness Requirements Part 23.

FAA Acceptance: General Aviation AED Date: 9/9/22

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	Updated and replaces 9051-0116-001 Rev D, and 9051-0116-002 Rev E in PMM format.	9/21/2022	SYS



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## **Introduction**

### **1. General**

- a. This Rosen Product Maintenance Manual provides use, maintenance, and supplemental airworthiness instructions for the cockpit Sunvisor system used on all Beechcraft aircraft models listed on FAA Approved Model List (AML) for FAA STCs SA3598NM, SA3599NM, and SA3650NM.
- 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 sales, repairs, or modifications are to be directed directly to Rosen Sunvisor Systems LLC. RSS must be contacted for future revisions of this document.

### **2. Revision Service**

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

## **Product Description**

### **General**

The Rosen Sunvisor System consists of two visor assemblies which have been designed to improve pilot comfort during standard cockpit operations. In this installation the visor assemblies are fastened to the airframe in the same mounting positions as the factory installed visors. The R1160005 system incorporates an additional pivot that allows the visor to tilt down about 30°. This is not provided on the R1160004 system.

### **Installation Instructions**

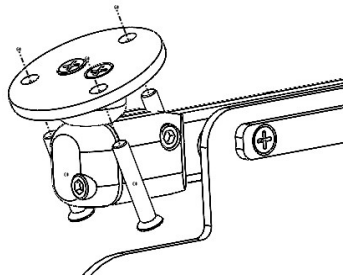
**Please read these short instructions COMPLETELY before starting.**

#### **Installation Hardware (included):**

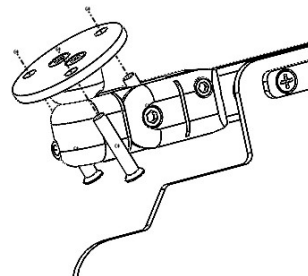
Qty: (1) 5/32 Allen Key for #10-32 Cap Screw  
(1) 9/64 Allen Key for #8-32 Cap Screws  
(6) MS24693C54B, #8-32 x 1 FHP Screw

Installing your Rosen Sunvisor System is easily performed and should take approximately ½ to 1 hour.

- The Rosen NSA (New Sliding Arm) Sunvisor for the Beech Bonanza/Baron replaces the original equipment, so the first step is to remove those units from the aircraft with a #2 Philips screwdriver.
- Completely remove the #8-32 Socket Head Cap Screw and lock washer from the end of the arm assembly and separate the Arm Assembly from the mounting post assembly.
- Using the machine screws provided, install the new Rosen Mount Assembly on the pilot's side first. The new visor will use the same mounting points as the old unit. Orient the mounting assembly to find the most vertical position for the swivel. When installed the swivel post should be nearly vertical with respect to the aircraft.



R1160004 Pilot Side Mount



R1160005 Pilot Side Mount

NOTE: Holding the visor so that it covers the front windscreen in front of the pilot, the red thumb tensioning knob should be towards the windscreen.

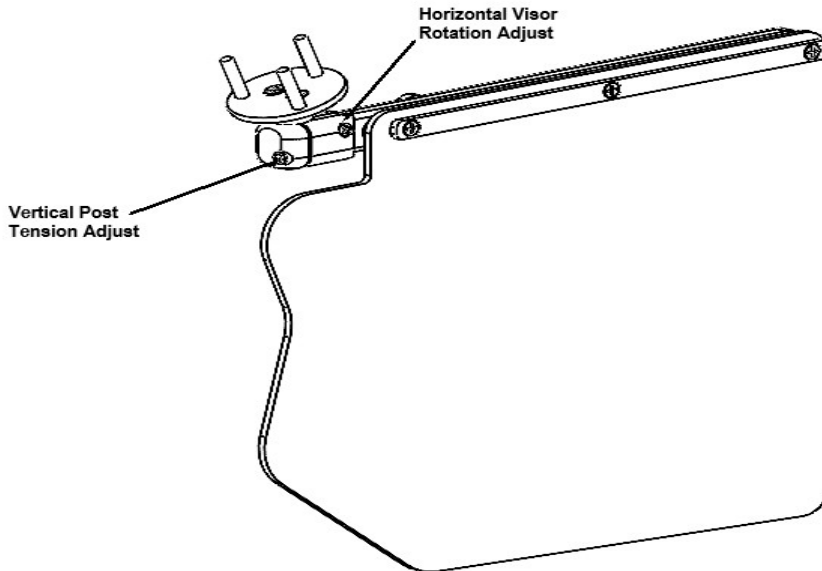
- After securing the mount assembly replace the visor assembly on the post to check the next steps.
- For the R1160004 after installation, the top of the visor should be fairly level. If it is not, check to see that the orientation of the mount is correct. Otherwise, place a #8 washer (not included) over one or more of the screws between the mount and the aircraft.
- When R1160005 visors are installed, there may be a slight overlap at the center.
- Replace the #8-32 screw and lock washer. Tighten just so the arm swings freely but not loosely.
- Repeat the same procedure for the co-pilot's side.
- Every movement of the Rosen NSA System is adjustable and is based on the clevis or slide principle, and Hex Keys are provided for that purpose. Adjust tension to your preference now. All motions should be smooth, but not loose.
- To stow, the unit can be rotated up to the overhead while in front or moved to the side of the aircraft and rotated overhead. While in the forward position the NSA visor stows nicely overhead.
- Place the FAA STC and AML (if appropriate) in the Aircraft Maintenance Log and make an installation entry.

## Operating Instructions

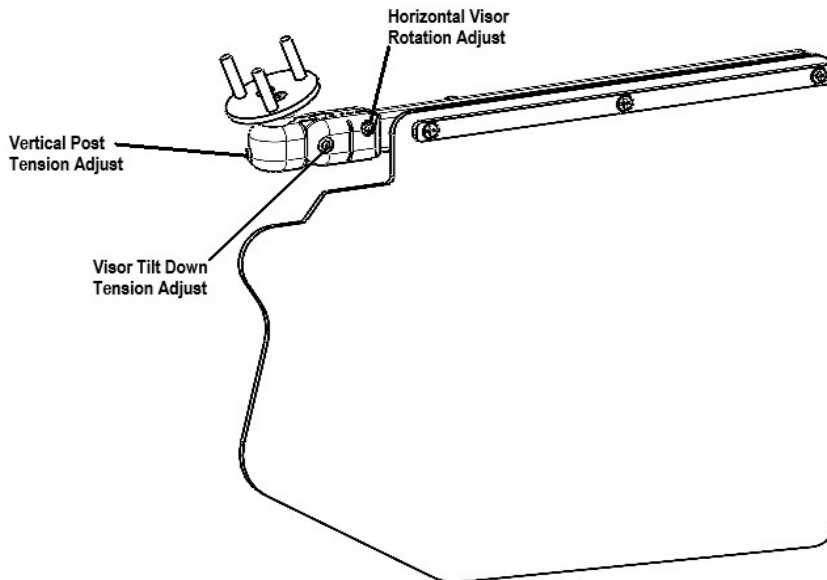
**NOTE:** The operating instructions are similar for both the R1160004-0 and R1160005-0 systems. Only the R1160005-0 system has the tilt down feature.

The visor lens can be extended by slightly loosening the Red Knob and sliding the lens out.

Rotational tensions can be adjusted by small adjustments to the socket head cap screws in the side or front of the main swivel block as shown:



R1160004 Tension Adjustments



R1160005 Tension Adjustments

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When installed correctly, the red slide tension knob is located inboard when the visors are rotated to either side window of the aircraft. Tension can be adjusted on the slide with small ( $\frac{1}{4}$  -  $\frac{1}{2}$ ) turns to make it easier or more difficult to operate. The red knob should not be removed. Once the tension is set the visor can be moved by just gripping the visor material.

*Note: Do not use your Rosen Sunvisors for heat protection or to hold reflective shields against the windscreen when parked on the ramp for extended periods. This may cause lenses to warp with excessive heat load. The visors should be left hanging vertically when not in use.*

## **Fault Isolation**

### **1. General**

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

<b>Problem</b>	<b>Probable Cause</b>	<b>Corrective Action</b>
Visor does not extend on arm	Tension Red Thumb knob too tight	Loosen knob and slide using knob
Lens does not rotate smoothly on vertical axis	Vertical pivot tension incorrectly set	Re-tension vertical pivot
Lens does not rotate smoothly on horizontal axis	Horizontal pivot tension incorrectly set	Re-tension horizontal pivot

## **Removal**

a. Reverse installation procedure.

## **Weight and Balance**

Because operators calculate Weight and Balance differently the actual station number must be determined by the installer's calculations.

For weight and balance the following weights are used:

R1160004-0	1.92 Lbs.
R1160005-0	2.07 Lbs.

With the visor located in the stow position (in forward position and folded up) the weight is located at the mount point datum of the visor. When the original visors are removed, they must be weighed and removed from the calculation.

## **Repair**

### **General**

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

## **Instructions for Continued Airworthiness**

- **(On the ground only)**
  - Periodically clean the lenses with a soft cloth, mild soap and water or Rosen Cleaner. 70% Isopropyl alcohol can also be used for sanitization. Do not use abrasives on the lens.
  - Periodically adjust the pivot tensions on the visor assemblies.
  - Periodically clean and lightly re-lubricate slide.

## **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.

**Illustrations and IPC for R1160004-0**

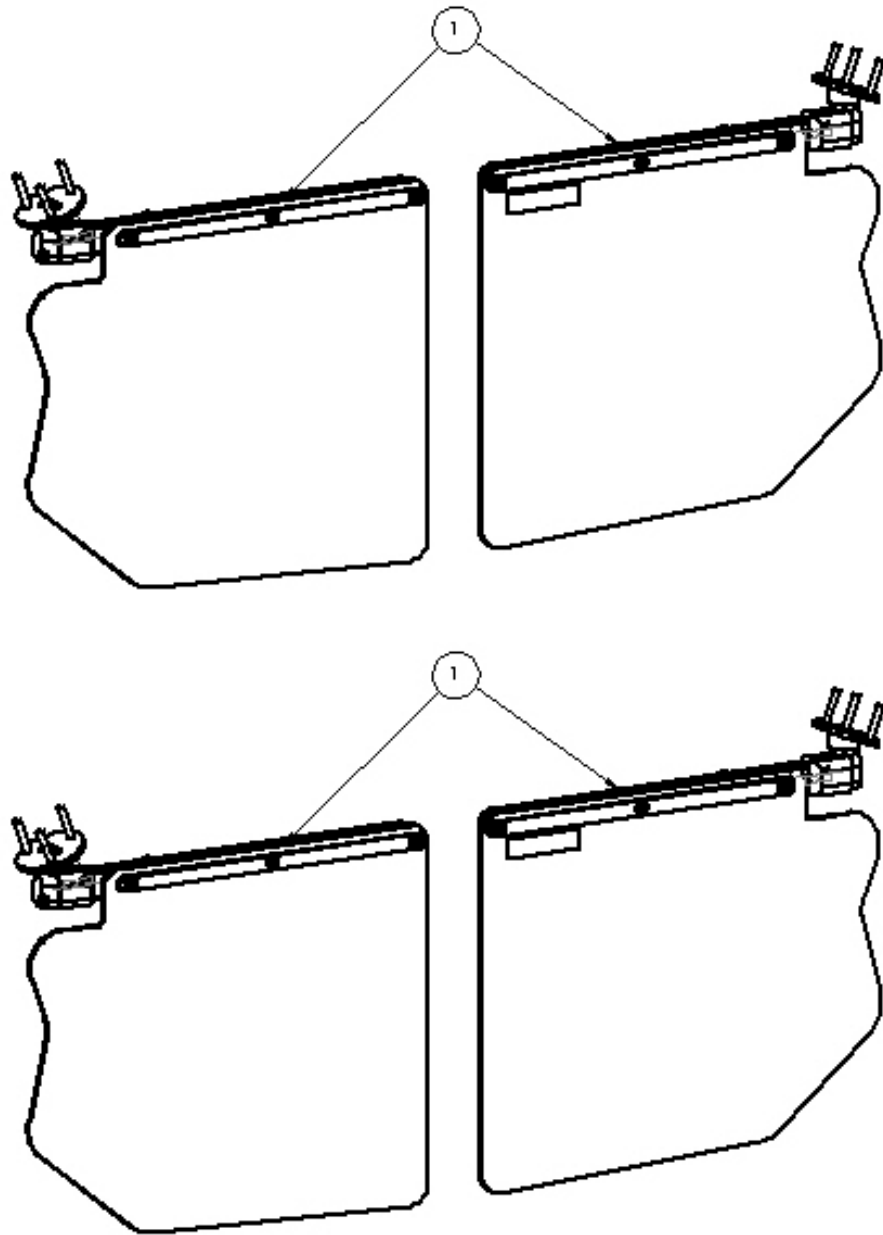


Fig 1



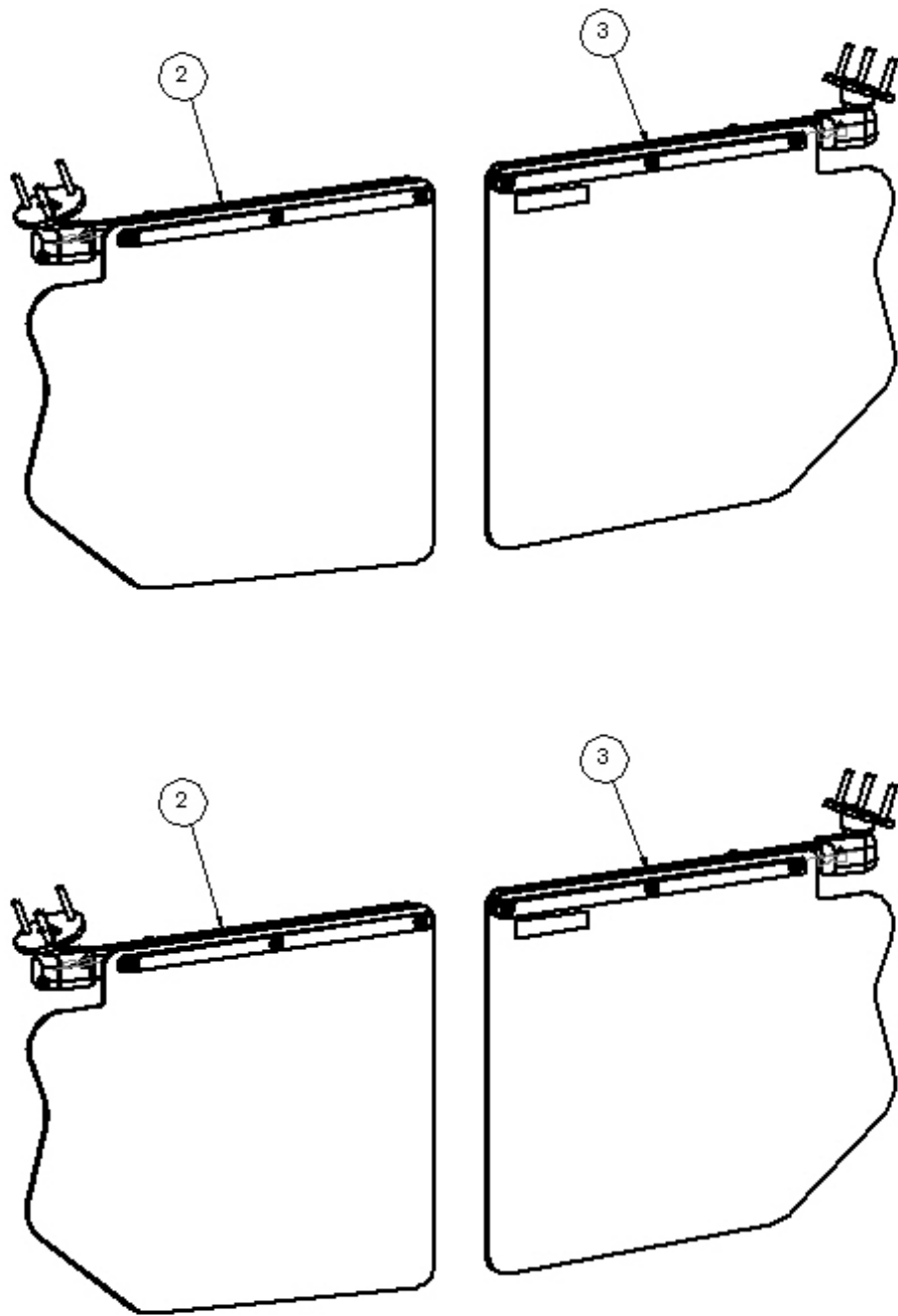


Fig 2

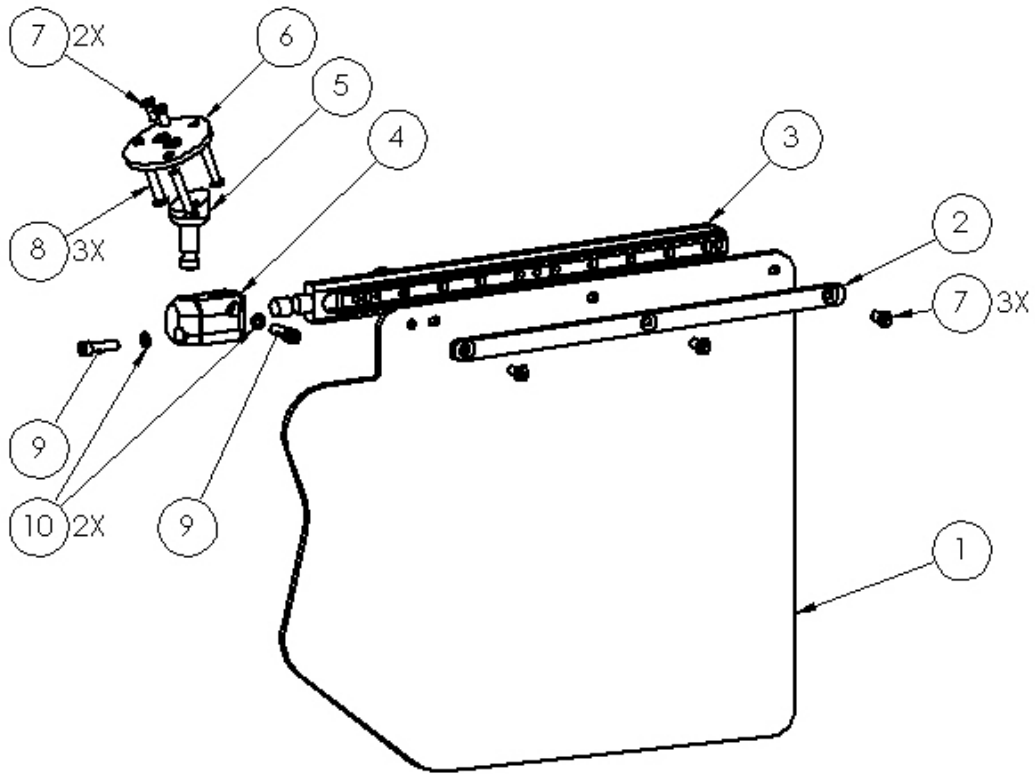


Fig 3

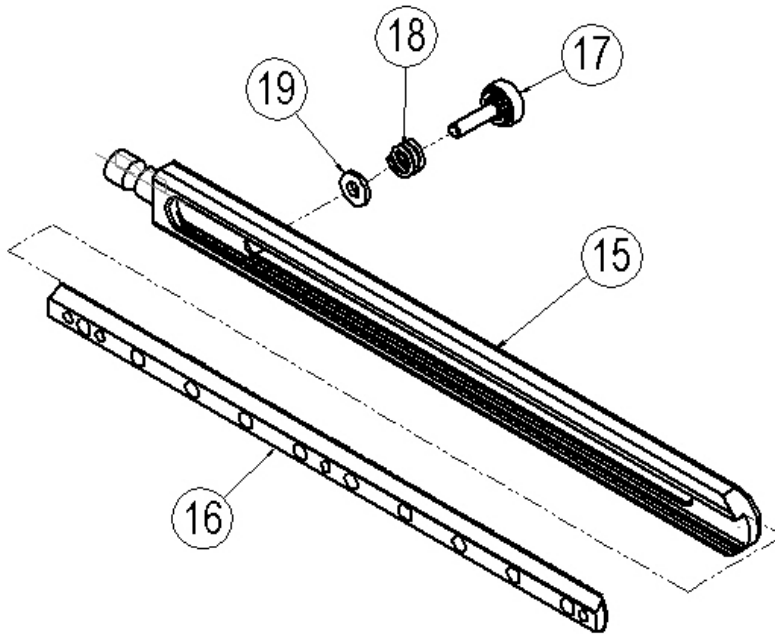


Fig 4

**Part List R1160004-0**

Fig. No	Fig. Item	Part Number	Description	Reference	Eff	QTY
1	1	R1160004-0	Complete Assembly	RBB-300-1		System
2	2	R1160004-1	Pilot Side Assembly	RBB-300-1P	NAS	1
2	3	R1160004-2	Copilot Side Assembly	RBB-300-1C	NAS	1
3	1	1160401-001	Lens			2
3	2	1010003	Lens Strip			2
3	3	1010000-5	Slide Assembly-Universal (Red Knob)			2
3	4	1020001	Original Block			2
3	5	1160102	Bonanza Style Swivel			2
3	6	1160101-1	Mounting Plate			2
3	7	MS24693-C48BP	SCR, FLH PHILLIPS MACH, 8-32 X .375, 100 DEG, CRES, BLK OXD, PATCH			10
3	8	MS24693-C54B	SCR #8-32 X 1.00 PHIL FLTHD 100 SST BLK			6
3	9	MS16995-27B	SCR #8-32 X .625 HEX SHCS SST BLK			4
3	10	8HCLW	Washer #8 Lock High Collar STL Blk			4
4	15	1010001-5	Female Slide		NAS	2
4	16	1010002-3	Male Slide		NAS	2
4	17	99-701	Knob .5 Dia KNRLD Red			2
4	18	B-19679	Compression Spring			2
4	19	90295A110	WSHR #8 FLT NYL (.175 X .405 X .06)			2

**Illustrations and IPC for R1160005-0**

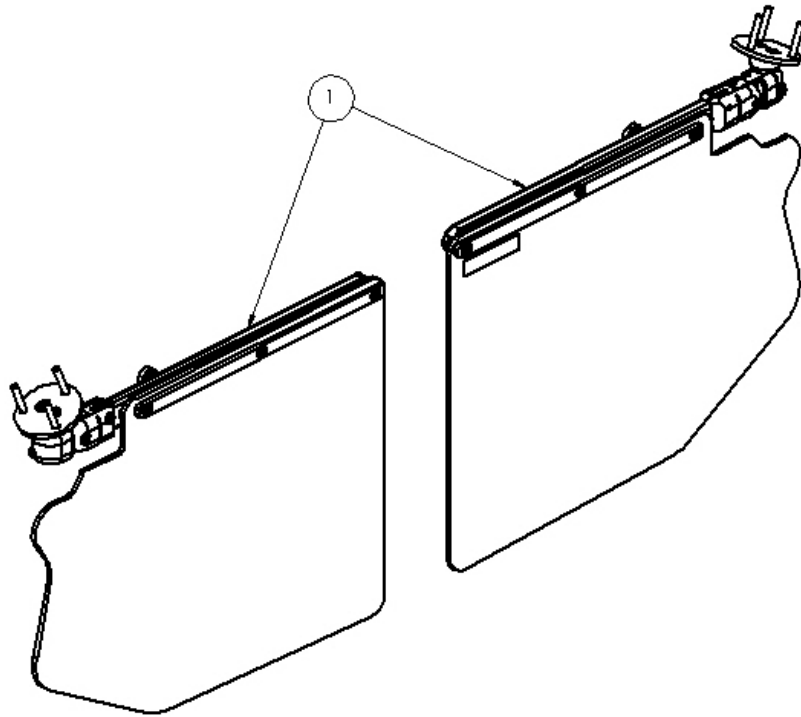


Fig 5

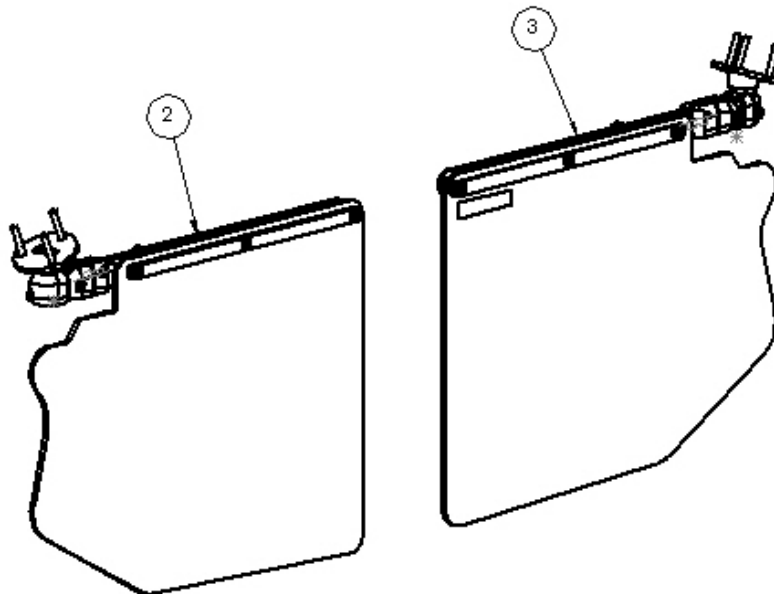


Fig 6

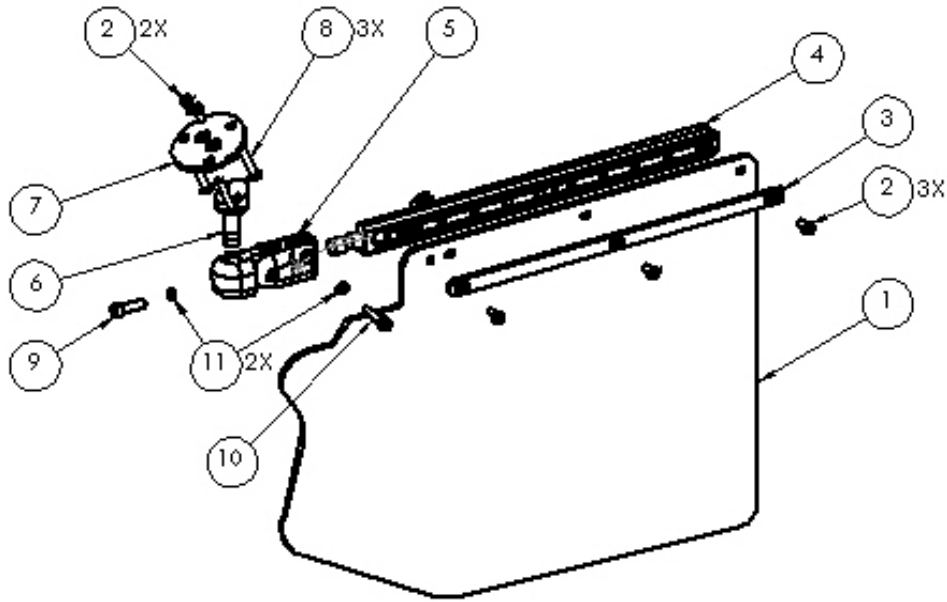


Fig 7

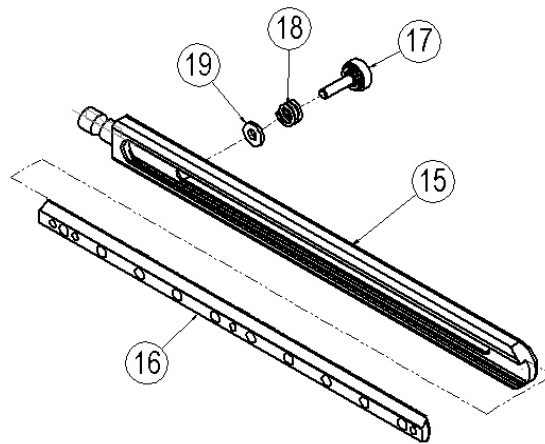


Fig 8

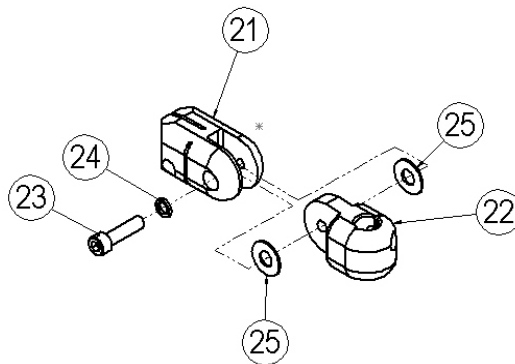


Fig 9

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**Part List R1160005-0**

<b>Fig. No</b>	<b>Fig. Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Reference</b>	<b>Eff</b>	<b>QTY</b>
5	1	1160005-0	Complete System	RBB-300-1A		System
6	2	1160005-1	Complete Assembly, Pilot	RBB-300-1AP	NAS	1
6	3	1160005-2	Complete Assembly, Copilot	RBB-300-1AC	NAS	1
7	1	1160401-002	Lens			2
7	2	MS24693-C48BP	SCR, FLH Phillips Mach, 8-32 X .375, 100 DEG, CRES, BLK OXD, Patch			6
7	3	1010003	Lens Strip			2
7	4	1010000-5	Slide Assembly-Universal			2
7	5	1020100-001	NSA Mod Block Assembly			2
7	6	1160102	Bonanza Style Swivel			2
7	7	1160101-1	Mounting Plate			2
7	8	MS24693-C54B	SCR #8-32 X 1.00 PHIL FLTHD 100 SST BLK			6
7	9	MS16995-27B	SCR #8-32 X .625 HEX SHCS SST BLK			2
7	10	MS16995-28B	SCR, HexSoch Cap, 8-32 X .750, Cres, BLK OXD			2
7	11	8HCLW	WSHR #8 Lock High Collar SST BLK			4
8	15	1010001-5	Female Slide		NAS	2
8	16	1010002-3	Male Slide		NAS	2
8	17	99-701	.5 Dia Red Knurled Red Knob			2
8	18	B-19679	Compression Spring			2
8	19	90295A110	WSHR #8 FLT NYL (.175 X .405 X .06)			2
9	21	1020002-001	Mod Block A		NAS	2
9	22	1020003-001	Modified "B" Block		NAS	2
9	23	MS16996-12B	SCR, HEXSOCH CAP, 10-32 X .750, CRES, BLK OXD			2
9	24	10HCLW	LKWASH, HLCL SPR, ASME B18.21.1, #10, High Collar, CS, BLK OXD			2
9	25	2801-0010	WSHR, FLAT, 1/4, .255 ID X .566 OD X .030, SST (Seastrom 5710-61-30)			4

NAS: not available separately