


Aircraft Design Certification GmbH Reichensteinstr.48 69151 Neckargemünd		Bristell B23	Doc-Nr: ADxC-73-SB-032 Issue: A Date: 24.02.2023 ChangeNr.: ADxC-73-DC-094
Service Bulletin: Beringer brake, caliper piston seals replacement			

Bristell B23

SERVICE BULLETIN: BERINGER BRAKE, CALIPER PISTON SEALS REPLACEMENT

Office of Airworthiness release

Date:

Name: Rammos

Signature:

Verification Engineer

I hereby declare that the technical content of this document is correct and can be used to fulfil the obligations of the type design holder per 21.A.265(h)

Date:

Name: Rammos

Signature:

Author

Date:

Name: Marcus Basien

Signature:

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Amendments

Issue	Reason	Date
A	First Issue	24.02.2023

<p style="text-align: center;">Bristell B23</p> <p style="text-align: center;">Beringer brake, caliper piston seals replacement</p>
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STANDARD

0 General
0.1 ATA Code ATA 32 LANDING GEAR – Brakes
0.2 Effectivity All serial numbers of Bristell B23 TCDS EASA.A.642, all variants.

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1 Planning information

1.1 Reason

Issuance of Service bulletin by ETSO component manufacturer

1.2 Safety Intent

The safety intent is to prevent the unsafe condition.

The potential unsafe condition is reduction or loss of brake performance leading to increased landing distance or deterioration in ground operation.

1.3 Configuration Description

All B23 aircraft are equipped with Beringer brake calipers and need to be inspected if the installed caliper serial numbers are affected.

Affected serial numbers are listed in Beringer Service Bulletin SB-027.

1.4 Compliance

If criteria in Section 0 is met

- Service bulletin must be accomplished
 - This SB could be made mandatory by an EASA AD.
 - This SB is mandatory as per EASA AD no. _____
- Service bulletin recommended to be accomplished to prevent significant operational disruptions
- Service bulletin to introduce improvements
- Service bulletin for convenience or option

Compliance time is

- within 10h of operation
 - within 10 flights
- whichever comes first.

1.5 Approval statement


The technical content of this document is approved under the authority of the DOA ref. EASA. 21J.411.

1.6 Concurrent publications

Beringer Service Bulletin SB-027 issued February 24th 2023. See Appendix A

Beringer Maintenance Manual MM-01-006 issued November 3rd 2021, ref:

https://www.beringer-aero.com/sites/beringer-aero.com/files/mm-01-006_-_brake_pistons_removal_installation.pdf

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1.7 Manpower

Approx. 0.5 hour is required to accomplish this SB for inspection, 2h for piston seal replacement (if needed)

1.8 Weight and Balance N/A

1.9 Electrical load data N/A

1.10 Software modification N/A

1.11 Referenced documentation N/A

1.12 Other publications effected N/A

2 Material information

2.1 Material- cost – availability

Ref: Beringer Service Bulletin SB-027.

2.2 Company support information

	Europe	USA
Contact:	BERINGER AERO 30, rue Pierre-Georges LATECOERE 05130 TALLARD – FRANCE	BERINGER AERO USA 18 Woods Lake Rd., Suite 102, Greenville SC 29607
Technical Support:	+33 492 201 619 support@beringer-aero.com	(864)-214-4274 support@beringer-aero.us

2.3 Material requirements per aircraft

Ref: Beringer Service Bulletin SB-027.


Ref: Beringer MM-01-006

2.4 Rework parts N/A

2.5 Special tooling

Ref: Beringer Service Bulletin SB-027.

Ref: Beringer MM-01-006

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3 Accomplishment/Instructions

- Remove wheel pants according ADxC-73-001-AMM section 32-40-01
- Identify brake caliper serial number
- If serial number is affected
 - Drain brake system
 - Remove brake caliper(s)
 - replace piston seal as per Beringer Service Bulletin SB-027 / MM-01-006,
 - Reinstall brake caliper(s)
 - Bleed system
 - Perform ground run and check brakes to hold at maximum engine power
- Reinstall wheel pants

Make appropriate entry of accomplishment in aircraft logbook and life cycle documentation.

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4 Appendix

	SERVICE BULLETIN	SB-027
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Caliper piston seals replacement

Revision	Description	Date	Approval
0	Creation	24 Feb 2023	

	Europe	USA
Contact:	BERINGER AERO 30, rue Pierre-Georges LATECOERE 05130 TALLARD – FRANCE	BERINGER AERO USA 18 Woods Lake Rd., Suite 102, Greenville SC 29607
Technical Support:	+33 492 201 619 support@beringer-aero.com	(864)-214-4274 support@beringer-aero.us

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	SERVICE BULLETIN	SB-027
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1. GENERAL

The purpose of this service bulletin is to provide information regarding replacement of defective piston seals on calipers.

2. COMPLIANCE

This service bulletin is mandatory and must be applied immediately to all aircrafts concerned.

3. BACKGROUND

Some piston seals may show defects after some time of use, creating leaks on the caliper.
The calipers concerned by this problem are the following:

Caliper P/N	Caliper S/N
EA-002E	38-21
	04-22
	04-22.2
	04-22.3
	18-22
	26-22
	26-22.5
EA-002.2E	21-22
	21-22.2
EA-003E	11-22
EA-003.2E	24-22
	24-22.2
EA-007E	001
EA-007.1E	001
EA-009.1E	17-22
	17-22.2
	17-22.3

4. OPERATING

BERINGER provide free repairing kits with Piston seals, copper seals and mounting grease for caliper pistons.

Refer to [MM-01-006](#) to replace piston seals.

Pistons don't need to be replaced.