



Aircraft Design Certification GmbH Reichensteinstr.48 69151 Neckargemünd		Bristell B23 - Installation of CO- sensor DC-023	Doc-Nr: ADxC-73-SB-007 Issue: A1 Date: 23.02.2023 Change-no.: ADxC-73-DC-023
Service Bulletin			

Bristell B23 - Installation of Carbon Monoxide sensor DC-023
SERVICE BULLETIN

<p>Office of Airworthiness release</p> <p>Date:</p> <p>Name: Kölmel</p> <p>Signature:</p>
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<p>Verification Engineer</p> <p>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)</p> <p>Date:</p> <p>Name: Kölmel</p> <p>Signature:</p>

<p>Author</p> <p>Date:</p> <p>Name: M. Basien</p> <p>Signature:</p>
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Amendments

Issue	Reason	Date
A	Initial issue	19.07.2021
A1	DC-095 applicability to all B23 models/variants	23.02.2023

Bristell B23 - Installation of CO-sensor DC-023

This SB implements the design change DC-023:

- Installation of Carbon Monoxide sensor
- Installation of AFM and AMM supplements

STANDARD


0 General

0.1 ATA Code

ATA 31 INDICATING / RECORDING SYSTEM – 31-30 – Recorder/Warning system

0.2 Effectivity

Applicable to all serial numbers of Bristell B23 - TCDS EASA.A.642

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1 Planning information

1.1 Reason

Addition of a Carbon Monoxide sensor to the aircraft and connection to the Garmin system (GEA24) according to ADxC-73-DC-023.

1.2 Safety Intent

No safety intent.

1.3 Configuration Description

The mentioned equipment is optional and can be added to the a/c if compatibility with other changes is provided.

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

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

ADxC-73-023-AMM supplement issue 1.0 issue date 19.07.2021
ADxC-73-023-AFM supplement revision A issue date 16.07.2021

1.7 Manpower

Approx. 3 hours are required to accomplish this SB.

1.8 Weight and Balance

The weight of the CO-sensor installation is: 30g

1.9 Electrical load data

Neglectable effect on the electrical load by the added Carbon Monoxide sensor.


1.10 Software modification

The software as such is not modified, however the additional sensor input requires that software settings are changed accordingly. Configuration of the Garmin system is as follows:

GEA 24 Inputs


Pos 6/ GP 6/
Misc Temp 1 → edit input

configure input as defined below:



Calibrate as defined below:



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1.11 Referenced documentation

depending on model/variant:

ADxC-73-001-AFM; issue B2; dated 23.02.2023

ADxC-73-003-AFM; issue B2; dated 23.02.2023

ADxC-73-049-AFM; issue B1; dated 23.02.2023


ADxC-73-070-AFM; issue A1; dated 23.02.2023

ADxC-73-001-AMM; edition 2.0; dated 23.02.2023

...or later approved versions, refer to ADxC-73-SB-021

1.12 Other publications affected

Refer to the drawings appended to the AMM supplement (see chapter 1.6) for installation position and wiring connection.

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2 Material information

2.1 Material- cost – availability

Refer to aircraft manufacturer BRM Aero s.r.o.

2.2 Company support information

Refer to aircraft manufacturer BRM Aero s.r.o.

2.3 Material requirements per aircraft N/A


ADxC-73-DDP-3133 CO sensor

2.4 Rework parts

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2.5 Special tooling N/A

Locking / Unlocking file for Garmin G3X system (*refer to aircraft manufacturer BRM Aero s.r.o.*)

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3 Accomplishment/Instructions

- 1) Connect the wires of the sensor to the GEA24 and ground as defined on drawing 34B220025N
- 2) Mount the Carbon Monoxide sensor as defined on the drawing 34B200000N
- 3) Unlock the Garmin system using the corresponding unlock-SD-card to be able to configure the G3X-system accordingly.
- 4) Add CO-sensor configuration as defined in chapter 1.10 Software modification
- 5) Lock the Garmin system using the corresponding lock-SD-card.
- 6) Make a log book entry and add note to aircraft CAW documentation that this Service bulletin has been incorporated.

4 Appendix

Appended are following drawings and manuals:

- 34B220025N CARBON MONOXIDE DETECTOR (issue A or newer)
- 34B200000N AVIONICS INSTALLATION ASSY (issue D or newer) FOR B23
- 34B500000N AVIONICS INSTALLATION ASSY (issue D or newer) FOR B23-915
- 34B600000N AVIONICS INSTALLATION ASSY (issue A or newer) FOR B23-912-G500
- 34B900000N AVIONICS INSTALLATION ASSY (issue A or newer) FOR B23-915-G500
- ADxC-73-023-AFM AFM supplement (latest approved version)
- ADxC-73-023-AMM AMM supplement (latest approved version)