

<b>Aircraft Design Certification GmbH</b> Reichensteinstr.48 69151 Neckargemünd		<b>Bristell B23</b>	Doc-Nr: ADxC-73-SB-024 Issue: C Date: 23.07.2024 TCDS.: EASA.A.642
<b>Service Bulletin: Approved Software</b>			

**Bristell B23**  
**SERVICE BULLETIN: APPROVED SOFTWARE**

<b>Office of Airworthiness release</b>
Date:
Name: Deputy HoA M. Basien
Signature:

<b>Verification Engineer</b>
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: E. v.d. Snoek
Signature:

<b>Author</b>
Date:
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Signature:

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## Amendments

Issue	Reason	Date
A	DC-071 Initial issue	10.01.2023
A1	DC-095, Inclusion AudioPanel, Garmin SL-22108B,	23.02.2023
B	DC-101, Update of Software versions	20.06.2023
C	DC-118, Update of Software versions	23.07.2024

### Bristell B23

This service bulletin informs operators and maintenance organizations with respect to the approved software versions for the B23 aircraft.

B23 uses a mix of TSO'd and the non-TSO'd Avionic Systems.

Avionic system manufacturers software updates

- for TSO'd units are approved by the manufacturer.
- for non- TSO'd units are only acceptable to be implemented if approved by this airplane specific Service Bulletin.

**STANDARD**

## 0 General

### 0.1 ATA Code

ATA 22 AUTO FLIGHT  
 ATA 23 COMMUNICATIONS  
 ATA 31 INDICATING / RECORDING SYSTEM  
 ATA 34 NAVIGATION

### 0.2 Effectivity

All B23 aircraft, EASA TCDS.A.642.

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## 1 Planning information

### 1.1 Reason

Software update by avionic system manufacturer

### 1.2 Safety Intent

The safety intent is N/A.

Use of up-to-date software is generally recommended. In case of Garmin G3X system the manufacturer does not approve any combination other than “latest for all units”.

### 1.3 Configuration Description

Variant →	B23	B23-915	B23-912-G500	B23-915-G500
System Unit				
EFIS	L3-ESI500 OR Garmin GI 275		Garmin GI-275, feeding - GMC 507 AP - GSA 28 (2ea) - GMU 44B	
PFD	Garmin G3X touch system: - GDU 460 (2ea)		Garmin G500 system - GDU 1060 - GMU 44	
MFD/EIS Engine Interface	- GEA 24 - GSU 25 - GPS 20A with AP: - GMC 307 OR GMC 507 - GSA 28 (2ea)		Garmin G3X touch system: - GDU 460 - GEA 24 - GSU 25 - GPS 20A - GMU 11	
GPS				
COM I	Garmin GNC 255 NAV/COM		Garmin GTN 650Xi	
NAV I				
COM II	n/a		Garmin GNC 255 NAV/COM	
NAV II				
Transponder	GTX 345 (with Alt encoder GEA 12)		GTX 354R	
Audio Panel	-		GMA 345	
Options:				
Traffic	FLARM AT-1		-	
NAV/COM/GPS	-	GTN 650	-	
Transponder	-	GNX 375	-	

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## 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. xyxyx
- 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 at each next annual inspection/100h inspection whatever 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

- Garmin Service Bulletin No 22112 Rev B (Note: Mandatory SB for G3X Touch with SW versions 9.10 and previous, these are updated to software version 9.12 or later. Current newest available is 9.41)
- Garmin Service Bulletin No. 1919 Rev. A
- Garmin Service Bulletin No. 23065 Rev. A
- Garmin Service Bulletin No. 23109 Rev. A
- Garmin Service Bulletin No. 24037 Rev. A
- Garmin Service Bulletin No. 24042 Rev. A
- Garmin Service Bulletin No. 24047 Rev. A
- Garmin Service Bulletin No. 24052 Rev. A

AD Number	AD effective date	ATA	Subject
N/A			

## 1.7 Manpower

Approx. 1 hour is required to accomplish this SB.

## 1.8 Weight and Balance N/A

## 1.9 Electrical load data N/A

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## 1.10 Software modification

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Load approved software following respective avionic system manufacturer procedure as follows:

**CAUTION:**  
Do not install Garmin G3X Touch GDU 460 software version 9.01 or earlier<sup>1</sup>, or GI 275 software version 2.59 or earlier.

Unit	TSO approval	Approved Software Version
L3-ESI500	YES	Latest manufacturer approved
Garmin GI 275	YES	3.20 Or latest manufacturer approved
Garmin G3X touch system	NO	G3X Touch unit software to 9.41 Software package includes updates for: <ul style="list-style-type: none"> <li>• GEA24(B) software version 4.00</li> <li>• GEA24B boot block software version 2.00</li> <li>• GEA24 boot block software version 2.20</li> <li>• GMC 507 software version 5.00</li> <li>• GMC 507 boot block software version 2.30</li> </ul> <u>NOTE:</u> when updating G3x software on installations with GI260 AoA indicator the AoA saved settings are lost. Therefore prior G3x update extract the AOA data, and re-enter the same AOA values afterwards. Alternative is to re-calibrate AoA in flight according Garmin prescribed procedure.
Garmin G500 system	YES	3.62 Or latest manufacturer approved
Garmin GTN 650Xi	YES	Main 20.33, Touch 2.01, COM 2.10, NAV 2.04, WAAS(GPS) 8.2 Or latest manufacturer approved <u>NOTE:</u> Negative COM carrier squelch settings require Main Software Version 20.42 and later and COM Software Version 2.11 and later. The COM carrier squelch setting must be set between 0 and 100 before installing older software versions.
Garmin GNC 255 NAV/COM	YES	Display 3.02, COM 2.30, Nav. 6.03 Or latest manufacturer approved
Garmin GTX 345 Garmin GTX 345R	YES	Main Software 2.85 ADS-B Software 3.51

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		Or latest manufacturer approved
Garmin GMA 345	YES	2.20 Latest manufacturer approved
Flarm AT-1	NO	Latest manufacturer approved Note: this in Non TSO equipment seizing operation with outdated software, upon SW update a thorough functional check is recommended.
Garmin GTN 650	YES	6.73 Or latest manufacturer approved
Garmin GNX 375	YES	Main Software 3.22 Transponder Software 2.80 Or latest manufacturer approved
Garmin GMU 44B	YES	2.01 Or latest manufacturer approved

1.11 Referenced documentation N/A

1.12 Other publications effected N/A

<sup>1</sup> From [https://www8.garmin.com/support/download\\_details.jsp?id=7129](https://www8.garmin.com/support/download_details.jsp?id=7129), Changes made from version 9.00 to 9.01; Date 22.07.2024

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## 2 Material information

- 2.1 Material- cost – availability N/A
- 2.2 Company support information N/A
- 2.3 Material requirements per aircraft N/A
- 2.4 Rework parts N/A
- 2.5 Special tooling N/A

## 3 Accomplishment/Instructions

- 1) Check current SW Status
- 2) If needed load approved software as defined in listing under chapter 1.10
- 3) **NOTE:** For the Garmin system: each equipment must be updated if newer software version is available. Garmin did not demonstrate backward compatibility.
- 4) Make appropriate entry in aircraft logbook and life cycle document

## 4 Appendix N/A