

# SERVICE BULLETIN

**Beechcraft**

**Kit 58-3400**

**TITLE: NAVIGATION - INTRODUCTION OF GARMIN G1000 UPGRADE KIT 58-3400**

## 1. Planning Information

### A. Effectivity

- (1) Airplanes

Model G58 Baron, Serials TH-2125 through TH-2227, TH-2229, TH-2231, and TH-2232.

If you are no longer in possession of the airplane, please forward this information to the present owner.

- (2) Spares

None.

### B. Reason

This Service Bulletin is being issued to provide owners / operators of the Model G58 Baron airplanes that utilize the Garmin G1000 Avionics suite the ability to implement either Garmin software enhancements alone, or Garmin software enhancements and hardware upgrades that will provide Wide Area Augmentation System (WAAS) capabilities. WAAS capabilities may or may not include autopilot-coupled Vertical Navigation (VNAV) dependent on owner / operator option.

### C. Description

This Service Bulletin will introduce Kits 58-3400-0001 / -0003 / -0005, which provide instructions to implement one of the three options.

The export of these commodities, technology or software are subject to the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited. For guidance on export control requirements, contact the Commerce Department's Bureau of Export Administration at <http://www.bis.doc.gov>.

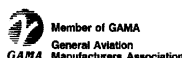
Hawker Beechcraft Corporation (HBC) issues Service Information for the benefit of owners and fixed base operators in the form of two classes of Service Bulletins. The first class, Mandatory Service Bulletins (red border) includes changes, inspection and modifications that could affect safety or crashworthiness. HBC also issues Service Bulletins with no red border which are designated as either recommended or optional in the compliance section within the bulletin. In the case of recommended Service Bulletins, HBC feels the changes, modifications, improvements or inspections will benefit the owner/operator and although highly recommended, Recommended Service Bulletins are not considered mandatory at the time of issuance. In the case of Optional Service Bulletins, compliance with the changes, modifications, improvements or inspections is at the owner/operator's discretion.

Both classes are available on the web at <http://pubs.hawkerbeechcraft.com> and mailed to:

- (a) Owners of record on the FAA Aircraft Registration Branch List and the HBC Safety of Flight Information (SOFI) List.
- (b) Those having a publications subscription.

Information on Safety of Flight Information (SOFI) or subscription can be obtained through the Hawker Beechcraft Corporation Technical Manual Distribution Center (TMDC). As Mandatory Service Bulletins and Service Bulletins are issued, the Service Bulletin Master Index will be updated and available online at <http://pubs.hawkerbeechcraft.com>. Warranty will be allowed only when specifically defined in the Service Bulletin and in accordance with HBC Warranty Policy.

Unless otherwise designated, HBC Mandatory Service Bulletins, Service Bulletins and HBC Kits are approved for installation on HBC airplanes in original or HBC modified configurations only. HBC Mandatory Service Bulletins, Service Bulletins and Kits may not be compatible with airplanes modified by STC installations or modifications other than HBC approved kits.



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**Option 1:** Install NON-WAAS software enhancements that will provide various improvements to the G1000 Avionics operational features listed below.

- Enhanced ARINC 424 leg-type support to guide autopilot through procedure turns and published holds.
- ChartView and FliteChart capability.
- Safe Taxi.
- TAWS enhanced and fast inhibit capability.
- Alternate transponder code entry method using the Flight Management System (FMS) knob.
- Victor and Jet Airways support.
- Modified software upload page to further simplify software loads.

**Option 2:** Kit 58-3400-0003 (WAAS WITHOUT VNAV). Installs software enhancement included in Option 1, along with WAAS software enhancements and hardware upgrades that will add WAAS capability.

**Option 3:** Kit 58-3400-0005 (WAAS WITH COUPLED VNAV). Installs software enhancement and hardware upgrades included in Options 1 and 2, along with autopilot-coupled VNAV feature for en route operations.

## D. Compliance

Hawker Beechcraft Corporation (HBC) considers compliance to be at the owners / operator's option.

## E. Approval

The engineering data contained in this Service Bulletin is FAA approved.

This modification is classified FAA Level 1 Major per FAA Order 8110.52.

Prior to accomplishment, owners / operators of airplanes registered in countries other than the United States shall consult with their local Aviation Regulatory Authority.

## F. Manpower

The following information is for planning purposes only:

Estimated man-hours:

Option 1: 3 hours;

Option 2 or 3: 48 hours;

Suggested number of men: 1 man.

The above is an estimate based on experienced, properly-equipped personnel complying with this Service Bulletin. Occasionally, after work has started, conditions may be found that could result in additional man-hours.

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## **G. Weight and Balance**

Negligible.

## **H. Electrical Load Data**

Not changed.

## **I. Software Accomplishment Summary**

Refer to Field Service Kit 58-3400 for software accomplishment instructions.

## **J. References**

Field Service Kit 58-3400.

Garmin Service Bulletin 0736

Baron Maintenance Manual (MM), P/N 55-590000-13F2 or subsequent revision.

Baron (Model G58) MM Supplement (MMS), P/N 58-590001-1C or subsequent revision.

## **K. Publications Affected**

Model G58 Baron Pilot's Operating Handbook (POH) and FAA Approved Airplane Flight Manual (AFM)  
P/N 58-590000-67A4 or subsequent revision.

Garmin G1000 Baron Pilot's Guide P/N 190-00629-01.

## **L. Interchangeability of Parts**

Not applicable.

## **M. Warranty Credit**

None.

## **2. Material Information**

### **A. Materials - Price and Availability**

Contact a Hawker Beechcraft Authorized Service Center for information.

### **B. Industry Support**

Not applicable.

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## C. Airplanes

The following parts required for this modification may be ordered through a Hawker Beechcraft Authorized Service Center or RAPID:

Part Number	Description	Quantity Per Airplane
58-3400-0001	Option 1 - Garmin G1000 Upgrade Kit - NON-WAAS	1
58-3400-0003	Option 2 - Garmin G1000 Upgrade Kit - WAAS W/O VNAV	1
58-3400-0005	Option 3 - Garmin G1000 Upgrade Kit - WAAS W/VNAV	1

This kit may be ordered through a Hawker Beechcraft Authorized Service Center. HBC expressly reserves the right to supersede, cancel and / or declare obsolete, without prior notice, any kits, parts, or publications that may be referenced in this Service Bulletin.

<b>CAUTION</b>
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*All HBC-approved kits, unless otherwise designated, are approved for installation on HBC airplanes in original or HBC-approved modified configurations only. HBC-approved kits may not be compatible with airplanes modified by Supplemental Type Certificate (STC) installations or modifications other than HBC-approved kits.*

- Kit 58-3400-0001 requires no additional parts to complete this service bulletin.
- Kit 58-3400-0003 requires an additional part not supplied by HBC. This item can be obtained from an authorized Garmin dealer:

Part Number	Description	Quantity Per Airplane
011-01105-01	Garmin Integrated Avionics Unit GIA63W	2

- Kit 58-3400-0005 requires additional parts not supplied by HBC. These items can be obtained from an authorized Garmin dealer:

Part Number	Description	Quantity Per Airplane
011-01105-01	Garmin Integrated Avionics Unit GIA63W	2
011-00819-04	Garmin Display Unit GDU 1045	1

## D. Spares

Not applicable.

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## E. Reidentified Parts

None.

## F. Tooling - Price and Availability

Not applicable.

## 3. Accomplishment Instructions

This Service Bulletin shall be accomplished as follows:

### NOTE

Should any difficulty be encountered in accomplishing this Service Bulletin, contact Hawker Beechcraft Corporation at 1-800-429-5372 or 316-676-3140.

## A. Airplane

<b>WARNING</b>
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**Observe all Warnings and Cautions contained in the airplane manuals referenced in this Service Bulletin.**

**Whenever any part of this system is dismantled, adjusted, repaired or renewed, detailed investigation must be made on completion to make sure that distortion, tools, rags or any other loose articles or foreign matter that could impede the free movement and safe operation of the system are not present, and that the systems and installations in the work area are clean.**

- (1) Review all kit INSTALLATION INSTRUCTIONS in their entirety before making modifications to the airplane.
- (2) Ensure airplane is configured for the work scope required by this Field Service Kit.
- (3) Accomplish installation of HBC Field Service Kit 58-3400, Garmin G1000 Upgrade.
- (4) Ensure all work areas are clean and clear of tools and miscellaneous items of equipment.
- (5) Return airplane to service.

## B. Spares

Not applicable.

## C. Record of Compliance

Upon completion of this Service Bulletin, make an appropriate maintenance record entry specifying the kit identification number and the kit serial number. It is recommended that the parts list contained in the kit be filed for future reference.