

## *European Aviation Safety Agency*

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### **EASA TYPE-CERTIFICATE DATA SHEET**

#### **Model G36 (Bonanza)**

#### **Type Certificate Holder:**

**HAWKER BEECHCRAFT CORPORATION**  
9709 East Central  
Wichita, KS 67201  
USA

#### **Manufacturer:**

**HAWKER BEECHCRAFT CORPORATION**  
9709 East Central  
Wichita, KS 67201  
USA

For models: G36

Issue 1: 20 May 2009

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### CHANGE RECORD

Issue 1	Initial issue Model G36
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**SECTION 1: GENERAL Model G36 Bonanza Type Design**

Data Sheet No.:	IM.A.279	Issue 1
a) Model:		G36
b) Variant:		N/A
1. Airworthiness Category:		FAR-23 and CAR 3 Utility Category
2. Type Certificate Holder:		Hawker Beechcraft Corporation 9709 E. Central Wichita, KS 67201 USA
3. Manufacturer		Hawker Beechcraft Corporation 9709 East Central Wichita, KS 67201 USA
4. EASA Certificate Application Date:		16 January 2007 (G36)
5. FAA Type Certificate Date:		02 November 2005 (G36)
6. EASA Type Certificate Issue Date:		20 May 2009 (G36)

**II. Certification Basis**

1. Reference Date for determining Applicable requirements		Model G36 Application to EASA: 16 January 2007
2. (Reserved)		
3. (Reserved)		
4. Certification Basis		As defined in FAA TCDS 3A15  CAR 3/FAR 23 as defined in FAA TCDS 3A15, and JAR-23, Change 1, plus Special Conditions as defined in Garmin G-1000 EASA CRI A-01, Issue 3, dated 19 May 2009.
5. Special Conditions:		Special Conditions as defined in Garmin G-1000 EASA CRI A-01, Issue 3, dated 19 May 2009.
6. Exemptions:		None
7. Equivalent Level of Safety Findings:		As defined in FAA TCDS 3A15
8. EASA Environmental Standards:		ICAO Annex 16, Volume 1 see EASA Type Certificate Data Sheet Noise ref TCDSN IM.A.279.

**III. Technical Characteristics and Operational Limitations MODEL G36**

- 1. Type Design Definition: Aircraft General Assembly, Model G36, Bonanza, Drawing No. 36-000008, latest FAA revision.
- 2. Description: Aircraft with a single engine, retractable tricycle landing gear and conventional tail.
- 3. Equipment: Equipment list according AFM, P/N 36-590002-71, or later approved revision.
- 4. Dimensions:
  - Span 10.2 m (33 ft. 6 in)
  - Length 8.4 m (27 ft. 6 in)
  - Height 2.63 m (8 ft. 7 in)
  - Wing Area 16.82 sq. m (181 sq. ft.)
- 5. Engines
  - 1 Teledyne Continental Motors, Inc., (Mobile, Alabama), IO-550-B.
  - Engine Limits: For all operations 2700 rpm (300hp)
  - Propellers: 3 bladed Hartzell constant speed propeller PHC-C3YF-1RF/F8468A(B,K)-6R in accordance with STC SA00719LA
  - High: 36.0 ± 1.0 degrees
  - Low: 13.0 ± 0.2 degrees
  - Measured at 30 inch station
  - Maximum Diameter: 2.03 m (80 inches)
  - Minimum Diameter: 1.98 m (78 inches)
- 6. (Reserved)
- 7. Fluids
  - 7.1. Fuel: Aviation gasoline Grade 100LL or 100 minimum.
  - Oil: Use MIL-L-22851 Ashless Dispersant Oils meeting the requirements of the latest revision of Teledyne Continental Motors Corporation Specification MHS-24B or current applicable Teledyne Continental Service Bulletin.
  - Approved Engine Oils:  
Refer to Section 8, HANDLING, SERVICING AND MAINTENANCE for a list of approved oils.
  - 7.2. Coolant: N/A

8. Capacities:

8.1. Fuel

Tank	Capacity. U.S Gal.	Usable U.S.Gal.	ARM
Standard Fuel System Left and Right Main	40 gallons each (151.4 litres each)	37 gallons each (140.1 litres each)	1.91 m (+75 inches)

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See Note 1 for data on unusable fuel.

- 8.2. Oil: 11.36 litres (+0.381 m)  
or 12 qt (+15 in.)  
See Note 1 for data on system oil.

9. Airplane Limit Speeds (KCAS)

Maneuvering	139 knots
Maximum structural cruising	165 knots
Never exceed	203 knots
Flaps extended (12°)	152 knots
Flaps extended (normal)	122 knots
Landing gear extended (normal)	152 knots

See Pilots Operating Handbook and FAA Approved Airplane Flight Manual, P/N 36-590002-71 for airplane limit speeds under Section II, Limitations.

10. Maximum Operating Altitude: 5640 m (18,500 ft.) pressure altitude  
11. Operational Capacity: VFR Day and Night  
IFR Day and Night  
Flight into icing conditions prohibited.

12. Maximum Certified Weights

Ramp	Takeoff	Landing
1662 kg 3,663 lb	1666 kg 3,650 lb	1666 kg 3,650 lb

See Pilots Operating Handbook, and FAA Approved Airplane Flight Manual, P/N 36-590002-71 for weight limits under Section II, Limitations.

13. Centre of Gravity Range See Pilots Operating Handbook and FAA Approved Airplane Flight Manual, P/N 36-590002-71 or latest revision for airplane centre of gravity under Section II, Limitations.

14. Datum: The reference datum is located 211 cm (83.1 inches) forward of jack pads on front spars.

15. Leveling means: Two external screws in bulkhead aft of baggage compartment on left side. (Use plumb bob.)
16. Minimum Flight Crew: 1 Pilot
17. Max. Passenger Seating Capacity: Six (6) (including pilot).
18. Baggage/Cargo Compartment (Structural Limit):  
Rear compartment (aft to Sta. 170) with 5th and 6th seat removed  
181.4 kg (+150) or 400 lbs. (+150)  
Rear compartment (aft of Sta. 170) with only 5th or 6th seat removed  
90.7 kg (+150) or 200 lbs. (+150)  
Between spar carry thrus with aft facing or center seats removed  
90.7 kg (+108) or 200 lbs. (+108)  
Aft baggage compartment (Sta. 170 to Sta. 190)  
31.8 kg (+180) or 70 lbs. (+180)
19. Wheels and Tires: Main Landing Gear (MLG) 2, 7.00 x 6, 6 ply rated  
Nose Landing Gear (NLG) 5.00 x 5, 4 ply rated
20. Serial Numbers eligible: E-3888 & After. See Notes 6 and 8.  
**Serials E-3630, and E-3636 through E-3887 are not eligible to be placed on an EU Register until HBC develops an EASA approved kit to install the G1000 Connector Shield Ground termination.**

#### IV. Operation and Service Instructions

Airplane Flight Manual (AFM)

Model G36 Bonanza POH/AFM, P/N 36-590002-71, or later approved version.

Airplane Maintenance Manual

Bonanza 36 Interactive Maintenance Library, P/N IML-36/58 (Includes Wiring Diagram Manual, Illustrated Parts Catalogue, Maintenance Manual, Component Maintenance Manual, Structural Repair Manual, Printed Circuit Board Manual)

#### V. Notes

- Note 1. Current weight and balance report including list of equipment included in certificated basic empty weight and loading instructions when necessary must be provided for each aircraft at the time of original certification.

The certificated basic empty weight and corresponding center of gravity locations must include system (undrainable) oil (not included in oil capacity) and unusable fuel (not included in usable fuel) as follows:

System oil of 3 lb. at +11 in., with two standard wing fuel tanks unusable fuel of 36 lb. at +79 in.

- Note 2. Placards required in Approved Airplane Flight Manual for Model G36 serials E-3630, E-3636 and after must be displayed as noted therein.

In full view of pilot:

"Utility category airplane. Operate in accordance with FAA Approved Airplane Flight Manual. Intentional spins prohibited. No acrobatic maneuvers approved except those listed in the Airplane Flight Manual."

For serials E3700, E3755 and on

In full view of the pilot: NO SMOKING

- Note 3. Reserved.

- Note 4. Fuel filler opening may be marked in accordance with FAR 23.1557(c) with the word "fuel" and minimum grade, or CAR 3.757 with word "fuel," minimum octane rating, and usable quantity.

- Note 5. Left intentionally blank.

- Note 6. Company name change effective April 15, 1996. The following serial numbers are manufactured under the name of Raytheon Aircraft Company: G36: E-3630, E-3636 to E-3768.

- Note 7. Left Intentionally Blank.

- Note 8. Company name change effective March 26, 2007. The following serial numbers are manufactured under the name of Hawker Beechcraft Corporation: G36: E-3769 and after.

Contact Hawker Beechcraft Corporation as necessary to obtain availability information concerning the drawings and kits which are referenced by this publication.

