

D'Shannon Products, LTD
1309 County Road 134
Buffalo, MN 55313

Document No: FMS-DP-36L TT
Hawker Beechcraft A36, G36

FAA APPROVED

PILOT'S OPERATING HANDBOOK AND

FAA APPROVED AIRPLANE FLIGHT MANUAL SUPPLEMENT

FOR

HAWKER BEECHCRAFT MODEL A36, G36
(s/n E-1946, E-2104, E2111 and after)

NORMAL CATEGORY
(Operation in excess of 3650 lb. Max. Gross Weight or with Fuel in Tip Tanks)

Utility Category
(Operation at 3650 lb. Max. Gross Weight or Less – Tip Tanks Empty)

REG. NO. _____

SER. NO. _____

This supplement must be attached to the Pilot's Operating Handbook and FAA Approved Airplane Flight Manual when two 20 gallon auxiliary wing tip fuel tanks are installed in accordance with STC SA02722CH. The information contained herein supplements or supersedes the basic handbook only in those areas listed herein. For limitations, procedures, and performance information not contained in this supplement, consult the basic Pilot's Operating Handbook and FAA Approved Airplane Flight Manual.

Permission is hereby given for the following aircraft and only valid when the signature in the approval by is signed by Scott Erickson and the return of the registration slip is validated.

Call # _____ Serial # _____ Date _____

FAA APPROVED:


Charles L. Smalley, Manager
Chicago Aircraft Certification Office

Date: MAY 26 2003

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LOG OF REVISIONS

Revision	Description	Model	Call #	Serial #	FAA Approved
IR	Original Issue				Mark Anderson May , 2009

Permission is hereby given for the following aircraft and only valid when the signature in the approval by is signed by Scott Erickson and the return of the registration slip is validated.

Approved By _____ Date _____

Date: AT 2 6 2009

SECTION I GENERAL

This supplement contains revised information for the basic airplane when modified by the addition of two auxiliary wing tip fuel tanks and is to be operated in accordance with STC SA02722CH. The information contained herein supplements or supersedes the basic handbook only in those areas listed herein. Consult the Pilot's Operating Handbook and FAA Approved Flight Manual for limitations, procedures, and performance information not contained herein.

Added tip tank fuel capacity

Total capacity 40 gal.

Total usable 40 gal.

MAXIMUM CERTIFIED WEIGHT

Maximum Ramp Weight 3846 lb.

Maximum Take-off Weight 3833 lb.

Maximum Landing Weight 3833 lb.

Maximum Zero Fuel Weight No Structural Limitation

SECTION II LIMITATIONS

GENERAL

The Airplane Flight Manual for this airplane lists information for operation in the UTILITY category. Since the tip tank installation is approved contingent on operation of the airplane in the NORMAL category when operated in excess of 3650 lb. or with fuel in Tip Tanks, the following Limitations supersede those of the basic Airplane Flight Manual.

This airplane is eligible for operation in accordance with STC SA02722CH and this airplane flight manual supplement only when equipped with the following modifications:

- a) Wing Tip Fuel Tanks (STC SA02722CH)

AIRSPEED LIMITATIONS

Maneuvering Speed (VA) CAS 132 KCAS
IAS 134 KIAS

WEIGHT LIMITS

Maximum Ramp Weight 3846 lb.

Maximum Take-off Weight 3833 lb.

Maximum Landing Weight 3833 lb.

Maximum Zero Fuel Weight No Structural Limitation

CENTER OF GRAVITY LIMITS (Landing Gear Extended)

FORWARD LIMITS

74.0 inches aft of datum to 3100 lbs. with straight line variation to 83.4 at 3833 pounds.

AFT LIMITS

87.7 inches aft of datum at all weights.

MANEUVER LIMITS

This is a NORMAL CATEGORY airplane when operated in excess of 3650 lb. or with fuel in Tip Tanks. Spins and acrobatic maneuvers are prohibited. Normal category airplanes are limited to Non-acrobatic operation.

Non-acrobatic operation includes:

1. Any maneuver incident to normal flying.
2. Stalls (except whip stalls)
3. Lazy eights, chandelles, and steep turns, in which the angle of bank is not more than 60°.

Spins are prohibited.

No inverted maneuvers are approved.

FLIGHT LOAD FACTORS

Positive Maneuvering Load Factors

Flaps Up	3.8G
Flaps Down	2.0G

FUEL

In addition to the basic airplane fuel system, two auxiliary wing tip fuel transfer tanks are installed with a capacity of 20 gallons each, all of which is usable.

Take-offs are prohibited with more than 1/4 difference in tip tank fuel quantity. During flight if tip tank fuel quantity gauges indicate more than 1/2 tank difference the landing should be made with flaps up.

G36: The tip tank fuel system installed is to be managed independently from the Garmin G1000 unit installed.

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PLACARDS

In Full View of Pilot:

FUEL CONSUMPTION MAY EXCEED TIP TANK TRANSFER RATE. INITIATE TRANSFER WITH BOTH MAINS AT LEAST ½ FULL. MONITOR MAIN TANK GAUGES TO PREVENT OVERFLOW.

On Left Side Panel (Airspeed values are IAS)

NORMAL CATEGORY AIRPLANE
(WHEN OPERATED IN EXCESS OF 3650 LB. MAX. GROSS WEIGHT,
OR WITH FUEL IN TIP TANKS)

AIRSPPEED LIMITATION (NORMAL CAT. OPERATIONS)

MAXIMUM DESIGN MANEUVERING SPEED 134 KNOTS

OPERATE IN ACCORDANCE WITH FAA APPROVED
FLIGHT MANUAL / PILOT'S OPERATING HANDBOOK. INTENTIONAL
SPINS ARE PROHIBITED. NO ACROBATIC MANEUVERS APPROVED..

SECTION III EMERGENCY PROCEDURES

If for any reason it is necessary to land with more than 1/2 tank difference in tip tank quantities, the landing should be made with wing flaps in the "up" position.

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SECTION IV NORMAL PROCEDURES

AIRSPEEDS FOR SAFE OPERATION

Maximum Turbulent Air Penetration.....

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CAS 132 KCAS
IAS 134 KIAS

PREFLIGHT INSPECTION

Fuel drains are located on the lower surface of each tip tank. Drain these points daily before the first flight to purge any water from the system.

Check security of flush mounted tip tank filler caps during preflight inspection. A special opening key is required to remove and secure the filler cap.

Before flight, check the tip tanks for unsymmetrical fuel loading. If fuel tank capacities differ more than 1/4 tank, relocate fuel prior to take-off.

See Section 7, Systems for additional information.

SECTION V PERFORMANCE

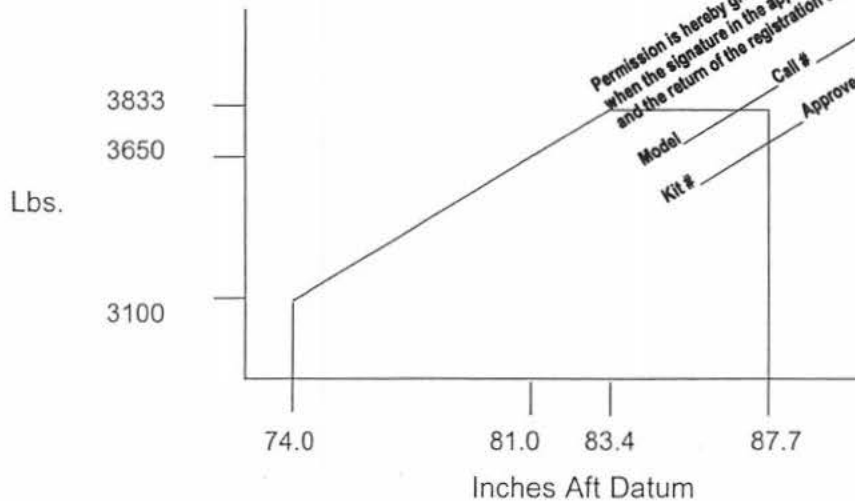
The performance of this airplane operated according to STC SA02722CH is equal to or better than the performance listed in the original Airplane Flight Manual (AFM) except that take-off and landing distance, and rate-of-climb charts originally presented for this model do not apply to this STC modification. [REDACTED]

In addition, range and endurance information in the original Airplane Flight Manual (AFM) does not apply to this STC modification. When operating at maximum gross weight with no tip tank fuel, decrease AFM/POH range data by 5%, and endurance information by 8%. These percentages do not account for additional range and endurance allowed by tip tank fuel.

SECTION VI WEIGHT AND BALANCE

Weight Condition	Forward CG Limit	Aft CG Limit
3833 lb. (Max. take-off)	83.4	87.7
3650 lb.	81.0	87.7
3100 lb. or less	74.0	87.7

CG Limitations (wheels down)



Note:
CG of Tip Tank Fuel
Is 87" Aft of Datum

Following is a table of moment limits versus weight for gross weights between 3650 and 3833 lb.

Weight (lb.)	Minimum Moment/100	Maximum Moment/100
3650	2957	3201
3675	2989	3223
3700	3021	3245
3725	3053	3267
3750	3086	3289
3775	3118	3311
3833	3197	3362

Weight and Balance Loading Form

Model _____ Date: _____

Serial No: D- _____ Reg. No.: _____

Item	Weight	Mom./100
1. Basic Empty Weight		
2. Front Seat Occupants		
3. 3 rd and 4 th Seat Occupants		
4. 5 th and 6 th Seat Occupants		
5. Baggage		
6. Cargo		
7. Sub Total Zero Fuel Condition		
8. Basic Fuel Loading		
9. Tip Tank Fuel Loading		
10. Sub Total Ramp Condition		
11. Less Fuel for Start, Taxi, and Take-off *		
12. Sub Total Take-off Condition		
13. Less Fuel to Destination		
14. Landing Condition		

* Fuel for start, taxi, and take-off is normally 13 lb. at an average Mom. /100 of 9.

Usable tip tank fuel is located at an average arm of 87 inches aft of datum.

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Date: MAY 26 2000

SECTION VII SYSTEMS DESCRIPTION

FUEL

In addition to the basic airplane fuel system, two auxiliary wing tip fuel transfer tanks are installed with a capacity of 20 gallons each, all of which is usable. Take-offs are prohibited with more than 1/4 difference in tip tank fuel quantity. During flight if tip tank fuel quantity gauges indicate more than 1/2 tank difference the landing should be made with flaps up.

Tip tank fuel is transferred into its respective main tank by an electric pump at a rate of approximately 15 gallons per hour. The transfer pump and a solenoid valve are mounted inside the wheel well of each wing on the rib at wing station 66. At higher power settings, fuel consumption may exceed the fuel transfer rate to the main tank selected.

Tip tank transfer pump switches are located either on the face of the instrument panel or between the front seats on the partition assembly forward of the main spar truss. The pump and solenoid valve circuit breaker is installed adjacent to the pump switches.

A fuel drain is provided on the lower surface of each tip tank.

Fuel quantity is measured by observing the fuel level on a sight gauge located on the inboard side of each tip tank.

Normal tip tank fuel transfer should be accomplished simultaneously to maintain symmetrical wing tip tank fuel loading. Initiate transfer with the left main at 1/2 full and feeding the engine. During the transfer, monitor fuel gauges for both main tanks and stop transfer if gauge indicates full to prevent overflow of fuel through the main tank vent tubes.

SECTION VIII HANDLING, SERVICING AND MAINTENANCE

No Change.

SECTION IX SUPPLEMENTS

No Change.

SECTION X SAFETY INFORMATION

No Change.

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