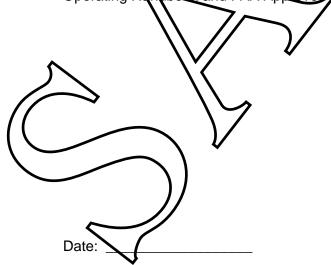
D'Shannon Products, LTD Document No: FMS-DP-AB35 TT 1309 County Road 134 Hawker Beechcraft 35, B35 Buffalo, MN 55313 sion A **FAA APPROVED** PILOT'S OPERATING HANDBOOK AND FAA APPROVED AIRPLANE FLIGHT MANUAL SUPPLEMENT FOR HAWKER BEECHCRAFT MODEL A3 **B**35 (s/n D-1501 through D-2008) NORMAL CATEGORY (Operation in excess of 2650 lb. Max. Gross Weight, or with Fue in Tip Tanks) UTILITY CATEGORY (Operation at 2650 lb. Max. Gross Weight or I – Tip Tanks Empty) REG. NČ SER. NO.

This supplement must be attached to the Pilot's Operating Handbook and FAA Approved Airplane Flight Manual when two 20 galon auxiliary wing tip fuel tanks are installed in accordance with STC(s) SA153EA or 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.



FAA APPROVED:

Charles L. Smalley, Manager Chicago Aircraft Certification Office Federal Aviation Administration Department of Transportation Federal Aviation Administration Des Plaines, IL 60018

D'Shannon Products, LTD 1309 County Road 134 Buffalo, MN 55313		Document No: FMS-DP-AB35 TT Hawker Beechcrat A35, B35 Revision A
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Revision	Description	FAA Approved
IR	Original Issue	Mark Anderson May 26, 2009
A	Add STC SA153EA as an Add Utility Category eligib	applicable STC
Date:		Page 2 of 8

2850 lb.

2850 lb.

SECTION I GENERAL

This supplement contains revised information for the basic airplane when operated in accordance with STC(S) SA153EA or 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 t	p tank	fuel c	apacity
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Total capacity		🗛0 gal	/
Total usable	/ `		,

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MAXIMUM CERTIFIED WEIGHT

Maximum Ramp Weight..... Maximum Take-off Weight Maximum Landing Weight

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 2650 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(9) SA153EA or SA02722CH and this airplane flight manual supplement only when equipped with the following modifications:

a) Wing Tip Fuel Tanks (STC(S) SA153EA or SA0272CH)

AIRSPEED LIMITATIONS

Maneuvering Speed (VA)	CAS 109 knots CAS 125 mph
WEIGHT LIMITS	6/16/120 mph
Maximum Ramp Weight Maximum Take off W eig ht	2860 lb. 2850 lb.
Maximum Landing Weight	2850 lb.
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Date:	Page 3 of 8

CENTER OF GRAVITY LIMITS (Landing Gear Extended)

FORWARD LIMITS

75.9 inches aft of datum to 2140 lbs. with straight line variation to 83.7 at 2850 pounds.

AFT LIMITS

84.4 inches aft of datum at all weights.

MANEUVER LIMITS

This is a NORMAL CATEGORY airplane when operated in excess of 2650 b. or with free 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

Date:

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 7/4 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.

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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. TRANSFER TIP TANK FUEL IN LEVEL FLIGHT ONLY.

In Full View of Pilot (Airspeed values are CAS)

NORMAL CATEGORY AIRPLANE (WHEN OPERATED IN EXCESS OF 2650 LB. MAX. GROSS WEIGHT, OR WITH FUEL IN TIP TANKS) AIRSPEED LIMITATION (NORMAL SAT. OPERATIONS) MAXIMUM DESIGN MANEUVERING SPEED 125 MPH (109 KNOTS) OPERATE IN ACCORDANCE WITH FAMAPPROVED FLIGHT MANUAL / PILOTS OPERATING HANDBOOK. INTENTIONAL SPINS ARE PROHIBITED. NO ACROBATIC MANEUVERS APPROVED.

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 laps in the "up" position.

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SECTION IV NORMAL PROCEDURES

AIRSPEEDS FOR SAFE OPERATION

Maximum Turbulent Air Penetration

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.

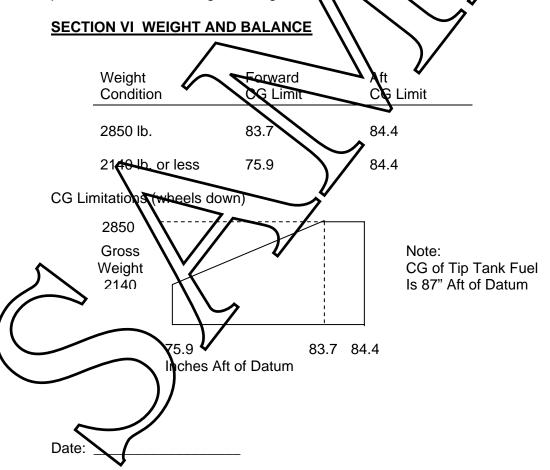
Check security of flush mounted tip tank filler caps during preflight inspection.

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 listed in the basic Airplane Flight Manual is applicable to this airplane with the tip tank installation at the gross weight listed in the basic Airplane Flight Manual. Since the certification basis of the tip tank installation does not include a requirement that performance be made available in the AIM, and since the medifier sid not choose to supply this information, no performance is listed at gross weights above that of the basic airplane.



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Weight	and	Balance	I oading	Form
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erial No: D		1		
Item		Weight	Mom./100	
1. Basic Empty Weight			1	
2. Front Seat Occupants				
3. 3 rd and 4 th Seat Occupants		4		
4. 5 th and 6 th Seat Occupants			\checkmark \land $)$	
5. Baggage		$\langle \rangle$	$\langle \rangle$	$\overline{)}$
6. Cargo		$\left \right\rangle$)/)/
7. Sub Total Zero Fuel Condition		$\overline{)}$	//	•
8. Basic Fuel Loading				
9. Tip Tank Fuel Loading			\checkmark	
10. Sub Total Ramp Condition	M	\mathbf{N}	γ	
11. Less Fuel for Start, Taxi, and	Take-off		1	
12. Sub Total Take-off Condition	/			
13. Less Fuel to Destination				
14. Landing Condition		7		
Fuel for start, taxi, and take-off is r		Ъ		
\sim	$\langle \rangle$			
Isable tip tank fuel is located at an	average arm	n of 87 inche	s aft datum.	
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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 solehoid value 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 solected.

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.	\checkmark
SECTION X SAFETY INFORMATION	
No Change.	
Date:	