



US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

OMB No. 2120-0020
Exp: 01/31/2023

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N27FB	Serial No. E-3727	
	Make Raytheon	Model G36	Series Bonanza
2. Owner	Name (As shown on registration certificate) T2 Aviation LLC		Address (As shown on registration certificate)
			Address 2050 N HWY 160 #200 City Pahrump State Nevada Zip 89060 Country United States

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	<u>Raytheon</u>	(As described in Item 1 above)	<u>E-3727</u>
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency		A&P 4484732
Name <u>Gold Strike Aviation</u>		<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer	
Address <u>2705 Airport Drive</u>		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.	
City <u>Las Vegas</u> State <u>Nevada</u>		<input type="checkbox"/> Certificated Repair Station		
Zip <u>89032</u> Country <u>United States</u>		<input type="checkbox"/> Certificated Maintenance Organization		

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual 05-18-2021
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7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is Approved Rejected

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station <input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)

Certificate or Designation No. A&P 3012686IA	Signature/Date of Authorized Individual 05-18-2021
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NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N27FB

05-18-2021

Nationality and Registration Mark

Date

Installed STC SA1176SO Aileron and Wing Flap Gap Seals. Updated weight and balance in POH. Test flown aircraft, operational check good. All work done in accordance with D'Shannon Products Installation Manual B6300 Rev.F

Additional Sheets Are Attached

United States of America
Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate

Number SA1176SO

This certificate issued to D'Shannon Products Ltd.
1309 County Road 134
Buffalo, MN 55313

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations.)

Original Product - Type Certificate Number: A-777 and 3A15
Make: Hawker Beechcraft Corporation
Model: See Continuation Sheet

Description of Type Design Change:

Installation of Aileron and Wing Flap Gap Seals in accordance with D'Shannon Products Drawing B6300, Revision A, dated October 8, 1980, or later FAA approved revision.

Limitations and Conditions:

- 1) Compatibility of this design change with previously approved modifications must be determined by the installer.
- 2) This approval should not be extended to other specific airplanes of this model on which previously approved modifications are incorporated, unless it is determined that the interrelationship between this change and any other of those previously approved modifications will introduce no adverse effect upon the airworthiness of that airplane.
- 3) If the holder agrees to permit another person to use this certificate to alter a product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination of approval is established by the Administrator of the Federal Aviation Administration.

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.
Model B330 Call # 277B Serial # E-3727
KH # 08027 Approved By SE Date 11/11/17

Date of application: August 1, 1980

Date reissued: June 4, 2009; July 7, 2009

Date of issuance: October 10, 1980

Date amended: January 6, 2010

By direction of the Administrator

Mary Ellen A. Schutt
(Signature)

Mary Ellen A. Schutt
Manager, Airframe and Administrative Branch
Chicago Aircraft Certification Office

(Title)



Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

United States of America
 Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate
 (Continuation Sheet)

Number SA1176SO
 Date of Issuance: October 10, 1980
 Date Amended: January 6, 2010

Eligible Models	
Type Certificate	Models
A-777	35 A35 B35 C35 35R D35 E35 F35 G35
3A15	H35 J35 K35 M35 35-33 N35 35-A33 35-B33 P-35 S35 35-C33 E33 F33 V35 V35A V35B 35-C33A E33A 36 A36 F33A G33 A36TC G36

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.
 Model G-35 Call # 274B Serial # E-3727
 KK # 08527 Approved By SE Date 11/21/17

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D' Shannon Products, LTD

Aileron & Flap Gap Seal Kit

Drawing List DLB-6300

Issued: 3/24/2009

Page 1 of 1

Revision : IR

Drawing Number	Drawing Title	Remarks	Next Assy.	E.C.O.'s				Revisions			Super Codes		
				1	2	3	4	A	B	C		D	
	Manufacturing Drawings												
B6301	Wing Bolt Fairing Extension. Plate.	2 pgs.						10/08/80	06/24/95	01/22/96	03/24/09		
B6302	Bottom Flap Root Seal	3 pgs.						10/08/80	06/28/95	01/22/96	03/24/09		
B6303	Inboard Top Gap Seal Flap.	3 pgs.						10/08/80	06/24/95	01/22/96	03/24/09		
B6304	Aileron Gap Seal.	3 pgs.						10/08/80	06/24/95	01/22/96	03/24/09		
B6305	Flap Gap Seal.	3 pgs.						10/08/80	06/24/95	01/22/96	03/24/09		

Permission is hereby given for the following aircraft to be used for flight testing only with the return of the registration to the FAA. This permission is not valid for other aircraft. Call 800-338-3387 for more information.

FAA APPROVED

CHICAGO OFFICE
 CENTRAL REGION
 6-10-09



U S Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No 2120-0020
2/28/2011

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation (49 U.S.C. §46301(a)).

1. Aircraft	Nationality and Registration Mark N27FB	Serial No. E-3727
	Make Raytheon	Model G36
2. Owner	Name (As shown on registration certificate) Boudwin Daniel B	Address (As shown on registration certificate) Address 111 Yorktown RD City Woolwich State New Jersey Zip 08085 Country Gloucester

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name	Everitt Burns duPont	<input checked="" type="checkbox"/>	U.S. Certificated Mechanic
Address	PO Box 481		Foreign Certificated Mechanic
City	Toughkenamon State PA		Certificated Repair Station
Zip	19374-0481 Country Chester		Certificated Maintenance Organization
			C. Certificate No. A&P 3341870 IA

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual	03/09/2018
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7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED

BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)

Certificate or Designation No. IA 3341870 IA	Signature/Date of Authorized Individual <i>Everitt B duPont</i>	03/09/2018
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United States of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number SA04165CH

This certificate issued to

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

certifies that the change in the type design for the following product with the limitations and conditions thereof as specified herein meets the airworthiness requirements of Part 3 of the Civil Aviation Regulations.

Original Product - Type Certificate Number: 3A15, A-777

Make: Beechcraft Corporation

Model: 35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33C, F33, F33A, F33C, G33, 35, A35, B35, C35, D35, E35, F35, G35, 35R, H35 J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, G36

Description of Type Design Change: Installation of an Enhanced Exhaust System, D'Shannon Products, Ltd. kit DSP-KIT-15-009. Installation Instructions as listed on DSP-IM-15-009, revision IR, dated January 12, 2016, and drawing list DSP-DL-15-009, revision 1, dated January 6, 2016, or later FAA approved revision.

Limitations and Conditions:

1. Compatibility of this design change with previously approved modifications must be determined by the installer.
2. A copy of this Certificate must be maintained as part of the permanent records for the modified aircraft.
3. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: July 21, 2012

Date of issuance: January 13, 2017

Date received: January 17, 2017

Date amended:



By direction of the Administrator

Roy E. Boffo
(Signature)

Roy E. Boffo
Manager, Propulsion and
Project Management Branch
Chicago Aircraft Certification Office

Permitted to be used for the purpose stated above only if the return of the certificate is required by the regulations.
Model G316 - Call # 27783 - Serial # E-3727
Kit # DB027 - Approved by SE - Date 11/21/17

United States of America
Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SA368CH

This certificate issued to D'Shannon Products, Ltd.
1309 County Road 134
Buffalo, MN 55313

certifies that the change in the type design for the following product with which such holder has for the following aircraft and only with the following conditions as specified herein meets the airworthiness requirements of the Federal Aviation Regulations.
(See Aircraft Specification No. 3A15 for complete certification basis)

Original Product - Type Certificate Number: 3A15

Make: Hawker Beechcraft Corporation

Model: S35, V35, V35A, V35B, 35-C33A, E33A, F33A, E33C, F33C, 36, A36, A36TC, B36TC, G36

Description of Type Design Change:

Installation of cooling air baffles in accordance with D'Shannon Products Installation Manual No. DSP-IM95-2, revision 6, dated April 16, 2002 or later FAA approved revision.

Limitations and Conditions:

- 1) Compatibility of this design change with previously approved modifications must be determined by the installer.
- 2) Aircraft Specifications are the same as listed on Aircraft Specifications Number 3A15.
- 3) If the holder agrees to permit another person to use this certificate to alter a product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

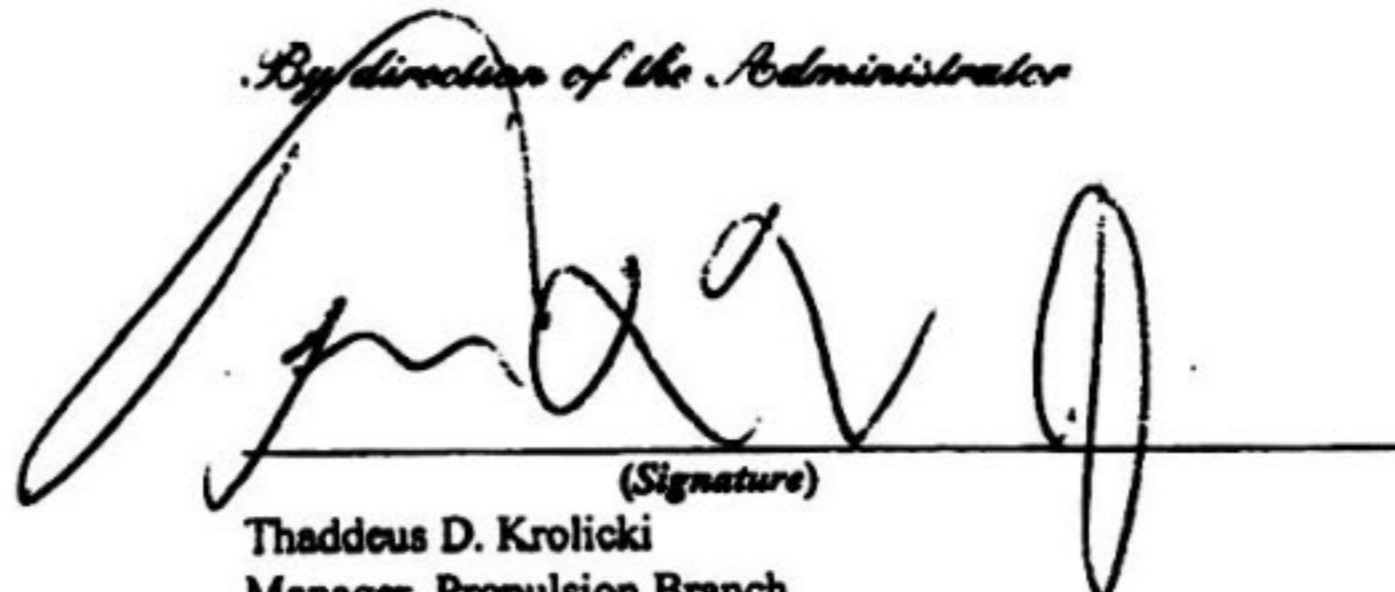
Date of application: April 1, 1995

Date of issuance: June 23, 1995

Date reissued: April 12, 1996, August 5, 2002,
March 18, 2008, February 23, 2009, February 24, 2009

Date amended: April 9, 2003, March 27, 2008

By direction of the Administrator



(Signature)

Thaddeus D. Krolicki
Manager, Propulsion Branch
Chicago Aircraft Certification Office



Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.



US Department of Transportation
Federal Aviation Administration

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

OMB No. 2120-0020 Electronic Tracking Number
Exp: 01/31/2023

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N27FB	Serial No. E-3727	
	Make Raytheon	Model G36	Series Bonanza
2. Owner	Name (As shown on registration certificate) T2 Aviation LLC		Address (As shown on registration certificate)
			Address 2050 N HWY 160 #200
			City Pahrump State Nevada
			Zip 89060 Country United States

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	<u>Raytheon</u>	<i>(As described in Item 1 above)</i>	<u>E-3727</u>
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address Name <u>Mark Blackwood</u> Address <u>2705 Airport Drive</u> City <u>Las Vegas</u> State <u>Nevada</u> Zip <u>89032</u> Country <u>United States</u>		B. Kind of Agency <input checked="" type="checkbox"/> U. S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Certificated Maintenance Organization		C. Certificate No. <div style="font-size: 24pt; text-align: center; font-weight: bold;">A&P4484732</div>
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D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual <div style="font-size: 24pt; text-align: center;"> 08-19-2021 </div>
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7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is Approved Rejected

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station <input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)

Certificate or Designation No. <div style="font-size: 24pt; text-align: center;">1807305</div>	Signature/Date of Authorized Individual <div style="font-size: 24pt; text-align: center;"> 08-19-2021 </div>
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NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

_____	_____
N27FB	08/19/2021
Nationality and Registration Mark	Date

Installed D' Shannon Products Engine Baffle STC No.SA2200SW. Weight and balance is negligible and there are no airworthiness limitations associated with this type design change. All work done IAW Installation Manual DSP-IM95-1 and AC43.13-1A.

Additional Sheets Are Attached



U.S. Department of Transportation
Federal Aviation Administration

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020
11/30/2007

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act 1958)

1. Aircraft	Nationality and Registration Mark N27FB	Serial No. E-3727	
	Make Beechcraft	Model G-36	Series Bonanza
2. Owner	Name (As shown on registration certificate) Boudwin Danial B	Address (As shown on registration certificate) 111 Yorktown Rd	
		City Woolwich State NJ Zip 08085 Country USA	

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address Name Joe Schlosser Address 6210 Mechanic Street City Rockford State MN Zip 55373 Country USA	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Certificated Maintenance Organization <input type="checkbox"/> Manufacturer C. Certificate No. A&P3491579 IA
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D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual February 27, 2017 <i>Joe Schlosser</i>
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7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED

BY	FAA Fit Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)

Certificate or Designation No. A&P3491579 IA	Signature/Date of Authorized Individual February 27, 2017 <i>Joe Schlosser</i>
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United States of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number SA02723CH

This certificate issued to D'Shannon Products, Ltd.
1309 County Road 134
Buffalo, MN 55313

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

Call # 27FB Serial # E-3727
Approved By SE Date 11/11/17
Model 3619
MR # 0521

certifies that the change in the type design for the following product with the limitations approved conditions therefor as specified hereon meets the airworthiness requirements of Part 301 of the Federal Aviation Regulations.

Original Product-Type Certificate Number : 3A15
Make : Hawker Beechcraft Corporation
Model : 36, A36, A36TC, G36

Description of Type Design Change:

Install D'Shannon Products, Ltd. 20-gallon fiberglass auxiliary wing-tip fuel tanks DLB1400, Rev. B dated May 14, 2009, in accordance with Installation Manual KB-1401-1, Rev. A, dated May 14, 2009, or later FAA Approved revision for 4010-lb gross weight normal category operation.

Limitations and Conditions:

1. The installer must determine whether this design change is compatible with previously approved modifications.
2. A copy of this Certificate and Flight Manual Supplement for individual aircraft must be maintained as part of the permanent records for the modified aircraft.
3. Airplanes modified pursuant to this STC must be maintained in accordance with D'Shannon Products, Ltd. Instructions for Continued Airworthiness (ICA) Document No. DP-ICA-1400, Rev. IR., dated 4/10/09 or later FAA accepted revision. Airworthiness Limitations, FAA Approved 7/1/09 are contained within the ICA.
4. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

(See Continuation Sheet 3)

This certificate and the supporting data, which is the basis for approval, shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: April 13, 2009

Date reissued:

Date of issuance: July 1, 2009

Date amended: September 23, 2011

By direction of the Administrator



Michael Davis
(Signature)

for Timothy Smyth
Manager, Propulsion Branch
Chicago Aircraft Certification Office

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

United States of America
Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number SA02723CH

Limitations and Conditions: (Continued from Page 1 of 3)

5. D'Shannon Products, Ltd. FAA Approved Flight Manual Supplement (FMS), Document No. FMS-DP-36E, Rev. IR dated May 26, 2009 or later FAA approved revision is required for Model 36 and Model A36, S/N E-1 through E-2110 except E-1946 and E-2104.
6. D'Shannon Products, Ltd. FAA Approved Flight Manual Supplement (FMS), Document No. FMS-DP-36L, Rev., IR dated May 26, 2009 or later FAA approved revision, is required for Model A36 and G36, S/N E-1946, E-2104, E-2111 and after.
7. D'Shannon Products, Ltd. FAA Approved Flight Manual Supplement (FMS), Document No. FMS-DP-36TC, Rev., IR dated May 26, 2009 or later FAA approved revision, is required for Model A36TC, S/N EA1 through EA-241, and EA-243 through EA-272.
8. Models 36 and A36, S/N E-1 through E-2110 except E-1946 and E-2104, modified pursuant to this STC must be equipped with the following installations:
 - A. Continental IO-550-B engine per STC SA2200SW
 - B. Cooling Air Baffles per STC SA2200SW or STC SA368CH
 - C. Lower Cowling Access Panels per STC SA414CH
 - D. Gap Seals per STC SA1176SO or SA1416CE
9. Models A36 S/N E-1946, E-2104, and E-2111 & Subsequent; and Models G36 & A36 TC modified pursuant to this STC must be equipped with the following installations:
 - A. Cooling Air Baffles per STC SA368CH
 - B. Gap Seals per STC SA1176SO or STC SA1416CE

...END...

Permission is hereby given for the following aircraft and only valid when the signature in the approval is signed by Scott Erickson and the return of the registration slip is validated.
Model G36 Call # 21FB Serial # E-2111
Kit # 08027 Approved By SE Date 11/11/17

United States of America
Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate

Number SA02722CH

This certificate issued to D'Shannon Products, Ltd.
1309 County Road 134
Buffalo, MN 55313

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part * of the * Regulations.*

Original Product - Type Certificate Number: * * See attached FAA Approved Model
Make: * List (AML) No. SA02722CH for list of
Model: * approved airplane models and applicable airworthiness regulations

Description of Type Design Change:

Install D'Shannon Products, Ltd. 20-gallon fiberglass auxiliary wing-tip fuel tanks DLB1400, Rev. B dated May 14, 2009, in accordance with Installation Manual KB-1401-1, Rev. A, dated May 14, 2009, or later FAA approved revision.

Limitations and Conditions:

1. Compatibility of this design change with previous modifications must be determined by the installer.
2. A copy of this Certificate and FAA Approved Model List (AML) No. SA02722CH, and Flight Manual Supplement for individual aircraft, must be maintained as part of the permanent records for the modified aircraft.
3. Airplanes modified pursuant to this STC must be maintained in accordance with D'Shannon Products, Ltd. Instructions for Continued Airworthiness (ICA) Document No. DP-ICA-1400, Rev. IR., dated 4/10/09 or later FAA-accepted revision. Airworthiness Limitations FAA Approved 7/1/09, are contained within the ICA.
4. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: April 13, 2009

Date of issuance: July 1, 2009

Date reissued:

Date amended:

By direction of the Administrator



Permission is hereby given for the following aircraft and only valid when the signature in the approval is signed by Scott Erickson and the return of the registration slip is validated.
Model: G-370
KIT # 04748
Approved By: SE
Serial # E-3727
Date: 2/14/17


(Signature)
Thaddeus D. Krolicki Jr.
Manager, Propulsion Branch
Chicago Aircraft Certification Office

(Title)

FAA APPROVED MODEL LIST (AML)
 NUMBER SA02722CH
 D'Shannon Products, LTD

Issue Date: July 1, 2009

AIRPLANE MAKE	AIRPLANE MODELS	MAXIMUM GROSS WEIGHT LBS	REQUIRED FLIGHT		ELIGIBLE SERIAL NUMBERS	INSTALLATION		TYPE CERTIFICATE NUMBER	CERTIFICATE BASIS	AML AMENDMENT DATE
			MANUAL SUPPLEMENT DOCUMENT NUMBER	REV.* DATE*		MANUAL DOCUMENT REV. DATE*	NUMBER			
Hawker Beechcraft	35	2550	FMS-DP-35 TT	IR	5/26/2009	Permission is hereby given for the use of this aircraft and only valid when the sign-off is returned to the sign-off station. Model G-360 Serial # 27FB Serial # G-3727 Kit # DH748 Approved By SE Date 2/14/17 KB-1401-01 Rev. A 05/14/09	A-777	CAR 03 Dated 11/13/1945		
	A35, B35	2850	FMS-DP-AB35 TT	IR	5/26/2009					
	C35	2900	FMS-DP-C35 TT	IR	5/26/2009					
	D35	2925	FMS-DP-D35 TT	IR	5/26/2009					
	E35	2950	FMS-DP-E35 TT	IR	5/26/2009					
	F35	2975	FMS-DP-FG35 TT	IR	5/26/2009					
	G35	3100	FMS-DP-HJ35 TT	IR	5/26/2009					
	H35, J35	3150	FMS-DP-KM35 TT	IR	5/26/2009					
	K35, M35	3325	FMS-DP-NP35 TT	IR	5/26/2009					
	N35, P35	3202	FMS-DP-AF33 TT	IR	5/26/2009					
	35-33, 35-A33	3465	FMS-DP-G33 TT	IR	5/26/2009					
	35-B33, 35-C33	3600	FMS-DP-S35 TT	IR	5/26/2009					
	E33, F33		FMS-DP-E33C TT	IR	5/26/2009					
	G33		FMS-DP-V35AB TT	IR	5/26/2009					
	S35	3780	F33A, F33C	FMS-DP-F33C TT	IR					5/26/2009
	35-C33A, E33A, E33C		FMS-DP-36E TT	IR	5/26/2009					
	V35, V35A, V35B	3833	36, A36	FMS-DP-36L TT	IR					5/26/2009
	F33A, F33C		FMS-DP-36TC TT	IR	5/26/2009					
A36, G36	Except EA-242									


 Thaddeus D. Kroligki Jr.
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* or later FAA approved revision

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

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

20-GALLON TIP TANKS

INSTALLED ON

HAWKER BEECHCRAFT MODELS 33/35/36

STC SA02722CH

STC SA02723CH

STC SA153EA

RECORD OF REVISIONS

Revision Letter	Issue Date	Date Issued	By
IR (Initial Release)	04/10/2009	04/10/2009	J.H. McGarvey
A	10/09/2009	10/09/2009	David Braun, P.E. Removed requirement to replace fuel pumps at five year intervals. Added requirement to inspect fuel pump operation prior to each flight with fuel in tip tanks.
B	08/19/2011	08/19/2011	David Braun, P.E. Moved Inspection Procedures and Time Limitations from Chapter 4 to Chapter 5. Added aileron overbalance requirements to Chapter 1 and Chapter 5.
C	12/12/12	01/17/13	David Braun, P.E. Added STC SA153EA as an eligible STC to cover the approval of the 20 Gallon tank. Added information on trouble shooting, access, wiring. Moved time / life limited items to Airworthiness Limitations Section. Added statement that the 20 Gallon Tip Tanks are identical, except for interior volume, to the 15 Gallon Tip Tanks previously offered on STC SA153EA.

LIST OF REVISIONS:	Revision IR (Initial Release)	April 10, 2009
	Revision A	October 9, 2009
	Revision B	August 19, 2011
	Revision C	January 17, 2013

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CHAPTER 1 INTRODUCTION

- 1. Type Design Change:** This type design change consists of the installation of the D'Shannon Products, LTD 20 Gallon Fuel Tip Tanks on the wing tips of Hawker Beechcraft Bonanza Model 33/35/36 pursuant to STC SA02722CH, SA02723CH or SA153EA. The 20 Gallon Fuel Tip Tank differs from the 15 Gallon Fuel Tip Tank approved on STC SA153EA only in its interior volume, accomplished by increasing its diameter and length. All other aspects of the 20 Gallon Fuel Tip Tank are essentially identical.

Some models require changes to the aileron overbalance. Reference D'Shannon Products, LTD installation manual KB1401-1 Revision H or later FAA Approved Revision, and §5.3 of this document for information.
- 2. Scope:** The scope of this Instruction for Continued Airworthiness (ICA) focuses exclusively on Maintenance, Inspection & Airworthiness Limitations of this FAA-approved type design change.
- 3. Purpose:** The purposes of this ICA are to apprise Owner/Operators who have modified their airplane pursuant to this type design change: (1) When, where & how to inspect; and (2) When to replace this type design to assure continued operational safety.
- 4. Arrangement:** This ICA is a single document comprised of six (3) Chapters:
Chapter 1, Introduction;
Chapter 4, Airworthiness Limitations;
Chapter 5, Inspection Requirements, Overhaul Schedule & Troubleshooting.
- 5. Superseded Documents:** This ICA supersedes the Hawker Beechcraft Bonanza Model 33/35/36 Maintenance documents only in the areas relating to aviation fuel management, maintenance of fuel components added by the modification, and aileron overbalance.
- 6. Applicability:** This ICA is applicable to all eligible Serial Numbered Hawker Beechcraft Models 33/35/36 aircraft.
- 7. Precautions:** Tip tank fuel is transferred into its respective main tank by an electric pump at a rate of approximately 15 gallons per hour. At higher power settings, fuel consumption may exceed the transfer rate to the main tank selected.

If for any reason it is necessary to land with more than ½ tank difference in tip tank quantities, the landing should be made with flaps in the up position.

Fuel consumption may exceed tip tank transfer rate. Initiate transfer with both mains at least ½ full. Monitor main tank gauges to prevent overflow.

Before flight, check the tip tanks for asymmetrical loading. If fuel tank capacities differ more than 1/4 tank, relocate fuel prior to takeoff.

8. Reference Documents D'Shannon Products, LTD installation manual KB1401-1 Revision H or later FAA Approved
FAA Advisory Circular 43.13-1B
FAA Advisory Circular 43.13-2A
9. Distribution: D'Shannon Products, LTD. will maintain a list of all Hawker Beechcraft /Operators that have purchased our 20 Gallon Fuel Tip Tanks, and should the need arise to modify this ICA, The AEG- accepted revision will be sent directly to all Owner/Operators. For Owner/Operators having internet access, the latest AEG- accepted revision to this ICA will be available for downloading from the D'Shannon Products, LTD. website: <http://d-shannon-aviation.com/>

CHAPTER 4 AIRWORTHINESS LIMITATIONS

TIME LIMITATIONS: Replace 5-years after installation, and every 5 years thereafter the following components:

- Drain Valve O-Ring
- Fuel Cap O-ring
- Tip Tank Fuel Connection Hoses

See 5.1 for more information regarding servicing these items.

The information contained herein supplements the basic Maintenance Manuals only in those areas listed, when the aircraft is modified in accordance with D'Shannon Products, LTD Installation Manual KB-1401-01, Rev NC, dated 04/04/09 or later FAA-approved revision.

The Airworthiness Limitations section is FAA approved and specifies maintenance required under §§43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

FAA Approved:


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

Date:

2/7/2013

CHAPTER 5 INSPECTION REQUIREMENTS, OVERHAUL SCHEDULE & TROUBLESHOOTING

1. INSPECTION REQUIREMENTS

At Annual:

Drain Valve	Drain tank fully at annual to check for dirt and other contaminants. Access to the drain valve is in the lower portion of the tip tank. The drain time can be decreased by removing the drain valve body from the drain valve fitting by unscrewing it. Visually Inspect & Replace O-Rings found to have cracks, deformation, or embrittlement. The large O-Ring is M83248/1-110 which seals the drain valve body. The smaller O-Ring is M83248/1-007 which seals the plug for the drain valve may only be accessed by driving out the small spring pin and removing the spring and drain plug from the subassembly. Additional required maintenance, service and adjustments must be made to comply with FAA Advisory Circular 43.13-1B Chapter 8 §2 dealing with fuel systems.
Fuel Transfer Pumps	The fuel pumps are installed in the wheel wells of the aircraft. Visually inspect for leaks through fuel pump connections with pump on. Additional required maintenance, service and adjustments must be made to comply with FAA Advisory Circular 43.13-1B Chapter 8 §2 dealing with fuel systems.
Fuel Transfer Solenoid Valve	The fuel transfer solenoid valves are located on the fuel pump bracket adjacent to the fuel pumps. Visually inspect for leaks through valve connections with pump on. Additional required maintenance, service and adjustments must be made to comply with FAA Advisory Circular 43.13-1B Chapter 8 §2 dealing with fuel systems.
Tip Tank Fuel Connection Hoses	The fuel tip tank connection hoses are between the wing and the tip tank. Remove the 28 screws and washers that secure the tip tank cuff to the wing and slide the tip tank outboard clean of the wing. Support the tip tank with a stand or other means. Visually Inspect & Replace any hoses found to have cracks, deformation, or embrittlement. The hose assembly is 350-4-0140 Additional required maintenance, service and adjustments must be made to comply with FAA Advisory Circular 43.13-1B Chapter 8 §2 dealing with fuel systems.
Tip Tank Vent	The fuel vent connector is a blade like device on the bottom outer surface of the tip tank. Check vent hole and pin hole on vent connector for any obstructions. Although removal of the vent connector is unlikely to be required for maintenance, the vent connector may be unscrewed from the vent fitting. Reinstall with sealant CS3204 class A. Additional required maintenance, service and adjustments must be made to comply with FAA Advisory Circular 43.13-1B Chapter 8 §2 dealing with fuel systems.
Tip Tank Surface	Check for cracks or deformation of the tip tank surface at annual. Additional required maintenance, service and adjustments must be made to comply with FAA Advisory Circular 43.13-1B Chapter 3.

Tip Tank Sight Strip

Inspect for clarity. The tip tank sight strip for fuel quantity gauging may cloud over time due to UV exposure. The sight strip clarity may be renewed by applying Armor-Dillo TS-1 per the package instructions. If this does not clear the sight strip, sand the affected area with 180 grit paper being careful not to penetrate the glass fibers in the underlaying mat. Apply a coat of such as Evercoat Premium Marine Resin if the glass fibers are exposed. Ref. FAA Advisory Circular 43.13-1B Chapter 3. Next, apply a coat of automotive clear coat to the affected area. The clear coat will protect the surface from the UV rays as well as smoothing the surface to make the sight strip translucent. Be sure to follow the manufacturer's recommendations for the clear coat, including any surface preparation (clean, wax and silicon free, and roughened with the proper grit paper) and mixing instructions for the two part catalyzed system you are using.

Tip Tank Caps

The tip tank fuel caps can be found on the top surface of the tip tank. Visually inspect & replace O-Ring MS29513-138 in the fuel cap base if found to have cracks, deformation, or embrittlement. A pair of O-Rings seal the rod assembly through the center of the cap. Remove the stainless steel cotter pin, remove the castellated nut keeping track of the number of turns, and the order of assembly of the washers, lock and spring. The two O-Rings nested in the cap are M83248/1-011. Reassemble and install a new stainless steel cotter pin. Additional required maintenance, service and adjustments must be made to comply with FAA Advisory Circular 43.13-1B Chapter 8 §2 dealing with fuel systems.

Electrical Components

Check that all bulbs and strobes are functioning correctly. The bulbs and strobes are accessed under the acrylic radome and fixed to an aluminum bracket which is accessible from both sides once the radome is removed by removing the four screws securing the radome to the tip tank forward bulkhead. The radome is handed and must be reinstalled to its original Tip Tank. Wiring connections are made via pin connections, and the wires may be fished through the conveying aluminum tubing to the mounting cuff area of the tip tank. Remove the 28 screws and washers that secure the tip tank cuff to the wing and slide the tip tank outboard clean of the wing. Support the tip tank with a stand or other means to gain access to this area. Wiring diagrams and information may be found in the installation manual KB-1401-1 Rev H or later FAA Approved Revisions. Additional required maintenance, service and adjustments must be made to comply with FAA Advisory Circular 43.13-2A.

Pre-Flight:

- Tip Tank Fuel Load** Before flight, check the tip tanks for asymmetrical loading. If fuel tank capacities differ more than 1/4 tank, relocate fuel prior to takeoff.
- Tip Tank Vent Fitting** Check vent hole and pin hole on vent fitting for any obstructions as part of the pre-flight check.
- Tip Tank Surface** Check for cracks or deformation of the tip tank surface at Pre-Flight Inspection.
- Tip Tank Caps** Make sure that the fuel caps are on and secure at Pre-Flight Inspection.
- Tip Tank Fuel Pumps** During preflight with fuel in Tip Tanks, switch on Tip Tank fuel pumps and assure they are operating. Inspect connections for signs of leaks. After this check, turn Tip Tank fuel pump switch to the off position. If Tip Tanks do not contain fuel this preflight item may be disregarded.

2. OVERHAUL SCHEDULE

No overhaul required for this type design change.

3. FLIGHT CONTROLS

Aileron Overbalance Requirements

Use the procedure in the Hawker Beechcraft Bonanza Model 33/35/36 Maintenance documents for aileron balance, except the aileron overbalance to be achieved is:

All 33 Models – 6.5 in-lb or greater

35 through P35 – Use overbalance in Hawker Beechcraft Maintenance Documents

S35 and After – 6.5 in-lb or greater

All 36 Models – 4.1 in-lb or greater

Additional overbalance information can be found in the installation manual KB-1401-1 Rev H or later FAA Approved Revisions.

4. TROUBLESHOOTING

The tip tank fuel transfer system is equipped with a solenoid shutoff system which is energized by the same circuit as the fuel pump itself. Monitor fuel transfer in flight and adhere to the asymmetrical fuel load precautions outlined in the applicable Airplane Flight Manual Supplement, if needed. If fuel transfer is observed not to occur, the system can be tested on the ground. Fuel gauging is provided by a sight strip on the side of the tip tank and visible to the cockpit; and by the optional fuel quantity gauging system. See the installation manual KB-1401-1 Rev H or later FAA Approved Revisions for information of the wiring and plumbing of the fuel transfer and optional gauging system.

Assure that there is fuel in the tip tank and space in the main tank to accept the fuel that will be transferred.

4. TROUBLESHOOTING (cont) Turn on the fuel transfer pump and observe that the pumps start the transfer process. Transfer is approximately 15 gallons per hour, so 10 minutes of transfer is plenty to observe. If the fuel does not transfer, check to make sure the fuel solenoid valve adjacent to the fuel pump is functioning. The fuel solenoid valve and the fuel pump may be tested individually in place by utilizing temporary hose connections and fuel supplies. Replace any components found to be defective.

If it is determined that the failure of the pump or solenoid is electrical in nature, and if the problem is found to be a lack of power at the device, trace the circuit back using the installation manual KB-1401-1 Rev H or later FAA Approved Revision for guidance.

If it is determined the pump and solenoid are functioning correctly, but the fuel does not transfer, open the fuel cap to eliminate a vacuum condition in the tank. If this solves the problem, clean the fuel vent system as described in this chapter. There is also a fuel pickup strainer in the tank, this item is not serviceable. However, 10 psi maximum air can be fed from the fuel outlet port located in the cuff of the tip tank with the fuel cap removed. If air is observed in the tank, the fuel pickup strainer is not obstructed, and the condition of the other fuel lines will have to be ascertained.

The fuel pump does not require fuel for cooling or lubrication and may be run indefinitely without damage with or without fuel present.

Leakage from the tip tank fuel cap in flight or on unlevel parking surfaces can be caused by a perished O-Ring, a loose fitting cap, or other misalignment. If replacing the O-Ring or adjusting the tension in the cap by adjusting the locking nut at the bottom of the rod connection does not eliminate the leakage, contact D'Shannon Products, LTD. for additional information. Do not overfill the tip tanks as fuel can expand with temperature and leak from the fuel vent.