



United States of America  
Department of Transportation  
Federal Aviation Administration

# Supplemental Type Certificate

Number: ST01384NY

This certificate issued to: PATS Aircraft, LLC  
21652 Nanticoke Avenue  
Georgetown, DE 19947

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 25 of the Federal Aviation Regulations.

Original Product – Type Certificate Number: A16WE  
Mcnrg: The Boeing Company  
Mqf gn 737-800 Series

Description of Type Design Change:

1. Configuration 1-A: Installation of a Three Cell Auxiliary Fuel System in the forward and aft cargo compartments in accordance with PATS, Inc. Kit Installation Drawing BBJ2-101200 as listed on Master Drawing List BBJ2-0001, Rev. C dated 8/23/01, or later FAA approved revision is required.
2. Configuration 1-B: Installation of a Four Cell Auxiliary Fuel System in the forward and aft cargo compartments in accordance with PATS, Inc. Kit Installation Drawing BBJ2-101300 as listed on Master Drawing List BBJ2-0001, Rev. C dated 8/23/01, or later FAA approved revision is required.

(See continuation sheets 3 & 4)

Limitations and Conditions:

(See continuation sheet 6)

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

Date of application: September 1, 2000

Date reissued: May 28, 2015

Date of issuance: August 30, 2001

Date amended: April 14, 2015

*By direction of the Administrator*

Signature \_\_\_\_\_

Title David E. Warner  
STC ODA administrator  
ODA-955292-NE

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# *Supplemental Type Certificate*

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Aircraft Certification Office of the transfer of this Supplemental Type Certificate. The FAA will reissue the certificate in the name of the transferee and forward it to him.

## *Transfer Endorsement*

*Transfer the ownership of Supplemental Type Certificate Number: ST01384NY*

**To** (Name and address of transferee)

**From** (Name and address of grantor)

Extent of Authority (if licensing agreement):

*Date of transfer:*

*Signature of grantor:* \_\_\_\_\_

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# Supplemental Type Certificate

(Continuation Sheet)

Number: ST01384NY

Effective Date: May 28, 2015

Additional Date Reissued: May 14, 2004, April 20, 2015

Additional Date Amended: June 7, 2002, July 26, 2005, January 3, 2006, November 16, 2011  
December 13, 2013

Description of Type Design Change: (continued):

3. Configuration 1-C: Installation of a Five Cell Auxiliary Fuel System in the forward and aft cargo compartments in accordance with PATS, Inc. Kit Installation Drawing BBJ2-101400 as listed on Master Drawing List BBJ2-0001, Rev. C dated 8/23/01, or later FAA approved revision is required.
4. Configuration 1-D: Installation of a Six Cell Auxiliary Fuel System in the forward and aft cargo compartments in accordance with PATS, Inc. Kit Installation Drawing BBJ2-101500 as listed on Master Drawing List BBJ2-0001, Rev. C dated 8/23/01, or later FAA approved revision is required.
5. Configuration 1-E: Installation of a Five Cell Auxiliary Fuel System in the forward and aft cargo compartments in accordance with PATS, Inc. Kit Installation Drawing BBJ2-102300 as listed on Master Drawing List BBJ2-0001, Rev. C dated 8/23/01, or later FAA approved revision is required.
6. Configuration 1-F: Installation of a Six Cell Auxiliary Fuel System in the forward and aft cargo compartments in accordance with PATS, Inc. Kit Installation Drawing BBJ2-102400 as listed on Master Drawing List BBJ2-0001, Rev. C dated 8/23/01, or later FAA approved revision is required.
7. Configuration 1-G: Installation of Seven Cell Auxiliary Fuel System in the forward and aft cargo compartments in accordance with PATS, Inc. Kit Installation Drawing BBJ2-102500 as listed on Master Drawing List BBJ2-0001, Rev. C dated 8/23/01, or later FAA approved revision is required.
8. Configuration 1-H: Installation of a Seven Cell Auxiliary Fuel System in the forward and aft cargo compartments in accordance with PATS, Inc. Kit Installation Drawing BBJ2-103400 as listed on Master Drawing List BBJ2-0001, Rev. C dated 8/23/01, or later FAA approved revision is required.
9. Configuration 2-A: Installation of a Three Cell Auxiliary Fuel System in the forward and aft cargo compartment in accordance with PATS, Inc. Kit Installation Drawing BBJ2-101200 as listed on Master Drawing List BBJ2-0001, Rev. E, dated 5/31/02, or later FAA approved revision is required.
10. Configuration 2-B: Installation of a Four Cell Auxiliary Fuel System in the forward and aft cargo compartments in accordance with PATS, Inc. Kit Installation Drawing BBJ2-101300 as listed on Master Drawing List BBJ2-0001, Rev. E, dated 5/31/02, or later FAA approved revision is required.
11. Configuration 2-C: Installation of a Five Cell Auxiliary Fuel System in the forward and aft cargo compartments in accordance with PATS, Inc. Kit Installation Drawing BBJ2-101400 as listed on Master Drawing List BBJ2-0001, Rev. E, dated 5/31/02, or later FAA approved revision is required.
12. Configuration 2-D: Installation of a Six Cell Auxiliary Fuel System in the forward and aft cargo compartments in accordance with PATS, Inc. Kit Installation Drawing BBJ2-101500 as listed on Master Drawing List BBJ2-0001, Rev. E, dated 5/31/02, or later FAA approved revision is required.
13. Configuration 2-E: Installation of a Five Cell Auxiliary Fuel System in the forward and aft cargo compartments in accordance with PATS, Inc. Kit Installation Drawing BBJ2-102300 as listed on Master Drawing List BBJ2-0001, Rev. E, dated 5/31/02 Configuration 2-E for aircraft serial number 30295 ONLY requires incorporation of Service Bulletin ST01384NY-D-28-SB-005, or later FAA approved revision is required.
14. Configuration 2-F: Installation of a Six Cell Auxiliary Fuel System in the forward and aft cargo compartments in accordance with PATS, Inc. Kit Installation Drawing BBJ2-102400 as listed on Master Drawing List BBJ2-0001, Rev. E, dated 5/31/02, or later FAA approved revision is required.
15. Configuration 2-G: Installation of Seven Cell Auxiliary Fuel System in the forward and aft cargo compartments in accordance with PATS, Inc. Kit Installation Drawing BBJ2-102500 as listed on Master Drawing List BBJ2-0001, Rev. E, dated 5/31/02, or later FAA approved revision is required.

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# Supplemental Type Certificate

(Continuation Sheet)

Number: ST01384NY

Effective Date: May 28, 2015

Description of Type Design Change: (continued):

16. Configuration 2-H: Installation of a Seven Cell Auxiliary Fuel System in the forward and aft cargo compartments in accordance with PATS, Inc. Kit Installation Drawing BBJ2-103400 as listed on Master Drawing List BBJ2-0001, Rev. E, dated 5/31/02, or later FAA approved revision is required.
17. Configuration 3: Installation of double walled metal tubes, per PATS Aircraft, LLC Master Drawing List No. 6920-0001-MDL, Rev. A, dated 11/11/11, Service Bulletin ST01384NY-D-28-SB-013\_IR dated November 4, 2011 or later FAA approved revision is required and converts an aircraft that has been previously modified by installation of Configuration 1 or 2 (i.e. the installation of an auxiliary fuel system with hoses) of this STC to Configuration 3 of this STC (i.e. installation with double walled tube assemblies) respectively. There is no change to configuration AFMS.
18. Configuration 4: Installation of a Two Cell Auxiliary Fuel System in the aft cargo compartment with Zero Fuel Cells installed in the forward cargo compartment in accordance with PATS, Aircraft LLC. Drawing 7036-2800-201 Top Kit Modification from 2/3 tanks to 0/2 tanks as listed on Master Drawing List 7115-0001-MDL, Rev. A, dated 11/12/13, or later FAA approved revision is required.

Aircraft Flight Manual Supplements applicable to Configurations 1-A, 1-B, 1-C, 1-D, 1-E, 1-F, 1-G, 1-H

1. PATS, Inc. Airplane Flight Manual Supplement No. 101 For A Three - Cell Auxiliary Fuel System FAA approved August 30, 2001, is required for Configuration 1-A.
2. PATS, Inc. Airplane Flight Manual Supplement No. 102 For A Four - Cell Auxiliary Fuel System FAA approved August 30, 2001, is required for Configuration 1-B.
3. PATS, Inc. Airplane Flight Manual Supplement No. 103 For A Five - Cell Auxiliary Fuel System FAA approved August 30, 2001, is required for Configuration 1-C.
4. PATS, Inc. Airplane Flight Manual Supplement No. 104 For A Six - Cell Auxiliary Fuel System FAA approved August 30, 2001, is required for Configuration 1-D.
5. PATS, Inc. Airplane Flight Manual Supplement No. 105 For A Five - Cell Auxiliary Fuel System FAA approved August 30, 2001, is required for Configuration 1-E.
6. PATS, Inc. Airplane Flight Manual Supplement No. 106 For A Six - Cell Auxiliary Fuel System FAA approved August 30, 2001, is required for Configuration 1-F.
7. PATS, Inc. Airplane Flight Manual Supplement No. 107 For A Seven - Cell Auxiliary Fuel System FAA approved August 30, 2001, is required for Configuration 1-G.
8. PATS, Inc. Airplane Flight Manual Supplement No. 108 For A Seven - Cell Auxiliary Fuel System FAA approved August 30, 2001, is required for Configuration 1-H.

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# Supplemental Type Certificate

(Continuation Sheet)

Number: ST01384NY

Effective Date: May 28, 2015

Description of Type Design Change: (continued):

Aircraft Flight Manual Supplements applicable to Configurations 2-A, 2-B, 2-C, 2-D, 2-E, 2-F, 2-G, 2-H

1. PATS, Inc. Airplane Flight Manual Supplement No. 101, Rev. A, for a Three Cell Auxiliary Fuel System, FAA approved June 07, 2002 is required for Configuration 2-A.
2. PATS, Inc. Airplane Flight Manual Supplement No. 102, Rev. A, for a Four Cell Auxiliary Fuel System, FAA approved June 07, 2002 is required for Configuration 2-B.
3. PATS, Inc. Airplane Flight Manual Supplement No. 103, Rev. A, for a Five Cell Auxiliary Fuel System, FAA approved June 07, 2002 is required for Configuration 2-C.
4. PATS, Inc. Airplane Flight Manual Supplement No. 104, Rev. A, for a Six Cell Auxiliary Fuel System, FAA approved June 07, 2002, is required for Configuration 2-D
5. PATS, Inc. Airplane Flight Manual Supplement No. 105, Rev. A, for a Five Cell Auxiliary Fuel System, FAA approved June 07, 2002, is required for Configuration 2-E. PATS Aircraft, LLC. Flight Manual Supplement No. 105, revision B, FAA approved July 26, 2005, is required for Aircraft Serial Number 30295 ONLY.
6. PATS, Inc. Airplane Flight Manual Supplement No. 106, Rev. A, for a Six Cell Auxiliary Fuel System, FAA approved June 07, 2002, is required for Configuration 2-F.
7. PATS, Inc. Airplane Flight Manual Supplement No. 107, Rev. A, for a Seven Cell Auxiliary Fuel System, FAA approved June 07, 2002, is required for Configuration 2-G.
8. PATS, Inc. Airplane Flight Manual Supplement No. 108, Rev. A, for a Seven Cell Auxiliary Fuel System, FAA approved June 07, 2002, is required for Configuration 2-H.

Aircraft Flight Manual Supplements applicable to Configurations 3

1. No change to AFMS after Configuration Upgrade.

Aircraft Flight Manual Supplements applicable to Configurations 4

1. PATS Aircraft, LLC. Airplane Flight Manual Supplement AFMS-ST01384NY-F-02P, for a Zero Fwd/ Two Aft Cell Auxiliary Fuel System, FAA approved December 10, 2013 is required for Configuration 4.

Instructions for Continued Airworthiness

1. PATS Aircraft, LLC. document TM-0667-ICAW, Instructions For Continued Airworthiness, revision K, dated January 14, 2015 or later FAA accepted revision, is required for Continued Airworthiness for all configurations. FAA Approved Airworthiness Limitations and Certification Maintenance Requirements are documented in the Maintenance Planning Document Supplement (MPDS) Number TO-1771, revision M, dated October 25, 2014 or later FAA accepted revision.

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Effective Date: May 28, 2015

Limitations and Conditions (Continued from sheet 1):

1. Configuration 1-A through 1-H are limited to one year from date of issue. Incorporation of PATS, Inc. Service Bulletin Number BBJ2-28-08A, Revision A. dated June 5, 2002, removes this limitation on affected aircraft.
2. Configuration 1-A through 1-H are limited to the Aircraft Serial Number 32438, 32450, 32451, 32777, 32806, 32915, 32971, 33079 and 33361 only.
3. Installation of configuration 2-E is pre-requisite for Configuration 4.

All Configurations:

1. This modification affects the aircraft air distribution system.
2. The installation of the auxiliary fuel tank system, installed per this supplemental type certificate, has been evaluated in accordance with AC 120-42B. This installation has no adverse effect on the previously approved ETOPS capability of the type-certificated aircraft.
3. The installer must determine whether this design is compatible with previously approved modifications.
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.
5. The PATS Aircraft LLC Smoke Detection and Fire Suppression STC ST01184LA must be installed in aircraft equipped with this STC.
6. This STC does not require a revised Electrical Wiring Interconnection System (EWIS) Instructions for Continued Airworthiness (ICA).
7. Comply with FAA approved Airworthiness Limitations Section 4 and 4a, dated April 10, 2015, found in the Maintenance Planning Document Supplement (MPDS) Number TO-1771.

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Certification Basis:

Based on 14 CFR § 21.115 and § 21.101, and the FAA policy for changes that are not significant in FAA Order 8110.48, the certification basis for the Boeing Model 737-800 aircraft with a PATS Aircraft Auxiliary Fuel System is as follows.

14CFR Part 25 regulations

a. The type certification basis for Boeing Model 737-800 airplanes is shown on TCDS A16WE, revision 53 dated June 19, 2014, for parts not changed or not affected by the change.

b. The following Sections of 14 CFR Part 25 were complying with Amendment Levels greater than those listed in the TCDS:

- 25.561 Amendment 25-64
- 25.571 Amendment 25-86
- 25.855 Amendment 25-93
- 25.857 Amendment 25-93 \*
- 25.981 Amendment 25-125 SFAR 88 Compliant \*
- 25.1353 Amendment 25-113
- 25.1431 Amendment 25-113 \*

\* = Latest Amendment

c. 14CFR part 26 regulations:

- 26.11 Amendment 26-0\*
- 26.35 Amendment 26-3\*
- 26.47 Amendment 26-1\*

\* = Latest Amendment

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