





United States of America  
Department of Transportation  
Federal Aviation Administration  
*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: ST01725NY*

**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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Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).

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# Supplemental Type Certificate

(Continuation Sheet)

Number: ST01725NY

Effective Date: March 1, 2016

Additional Date Reissued: February 19, 2009

Additional Date Amended: October 29, 2009, August 25, 2010, May 20, 2011, November 17, 2011, July 2, 2013, May 16, 2014, September 3, 2015

*Description of Type Design Change (Continued):*

Configuration 2: Installation of an Eight-Cell Auxiliary Fuel System in the forward and aft cargo compartment in accordance with PATS Aircraft, LLC. Kit Installation Drawing 5942-2811-100 (Kit No. -103) as listed on Master Drawing List 5942-0001-MDL, revision G dated May 17, 2011 or later FAA approved revision.

Configuration 3: Installation of a Four-Cell Auxiliary Fuel System in the forward and aft cargo compartments in accordance with PATS Aircraft, LLC. Kit Installation Drawing 5942-2811-100 (Kit No. -105) as listed on Master Drawing List 5942-0001-MDL, revision G dated May 17, 2011 or later FAA approved revision.

Configuration 4: Installation of a Four-Cell Auxiliary Fuel System in the aft cargo compartment in accordance with PATS Aircraft, LLC. Kit Installation Drawing 5942-2811-100 (Kit No. -107) as listed on Master Drawing List 5942-0001-MDL, revision G dated May 17, 2011 or later FAA approved revision.

Configuration 5: Installation of a Five-Cell Auxiliary Fuel System in the forward and aft cargo compartments in accordance with PATS Aircraft, LLC. Kit Installation Drawing 6642-2811-100 Kit No. -101) as listed on Master Drawing List 5942-0001-MDL, revision G dated May 17, 2011 or later FAA approved revision.

Configuration 6: Installation of an Eight-Cell Auxiliary Fuel System in the forward and aft cargo compartment in accordance with PATS Aircraft, LLC. Kit Installation Drawing 6642-2811-100 (Kit No. -103) as listed on Master Drawing List 5942-0001-MDL, revision G dated May 17, 2011 or later FAA approved revision.

Configuration 7: Installation of a Four-Cell Auxiliary Fuel System in the forward and aft cargo compartments in accordance with PATS Aircraft, LLC. Kit Installation Drawing 6642-2811-100 (Kit No. -105) as listed on Master Drawing List 5942-0001-MDL, revision J dated June 25, 2013 or later FAA approved revision.

Configuration 8: Installation of a Four-Cell Auxiliary Fuel System in the aft cargo compartment in accordance with PATS Aircraft, LLC. Kit Installation Drawing 6642-2811-100 (Kit No. -107) as listed on Master Drawing List 5942-0001-MDL, revision G dated May 17, 2011 or later FAA approved revision.

Configuration 9: Conversion Service Bulletin ST01725NY-D-28-SB-005\_IR dated May 20, 2011 or later FAA approved revision, converts an aircraft that has been previously modified by installation of Configurations 1 through 4 (i.e. the installation of an auxiliary fuel system with fuel hoses) of this STC to Configurations 5 through 8 of this STC (installation with double walled tube assemblies) respectively.

Configuration 10: Installation of a Two-Cell Auxiliary Fuel System in the aft cargo compartment in accordance with PATS Aircraft, LLC. Kit Installation Drawing 6777-2811-100 (Kit No. -101) as listed on Master Drawing List 6777-0001-MDL, revision B dated November 15, 2011 or later FAA approved revision.

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*Supplemental Type Certificate*  
(Continuation Sheet)  
Number: ST01725NY

Effective Date: March 1, 2016

*Description of Type Design Change (Continued):*

Configuration 11: Installation of a Six-Cell Auxiliary Fuel System in the forward and aft cargo compartments (2F / 4A) in accordance with PATS Aircraft, LLC. Kit Installation Drawing 6642-2811-100 (Kit No. -109) as listed in Master Drawing List 5942-0001-MDL, revision L dated February 15, 2016 or later FAA approved revision.

Aircraft Flight Manual Supplements for Configurations 1 through 11

Configurations 1 & 5: PATS Aircraft, LLC. Airplane Flight Manual Supplement No. 221 for a Five-Cell (1 Fwd / 4 Aft) Auxiliary Fuel System, FAA approved revision A dated July 2, 2013 or later FAA approved revision is required. Approved for aircraft with NGS.

Configurations 2 & 6: PATS Aircraft, LLC. Airplane Flight Manual Supplement No. 222 for a Eight-Cell (3 Fwd / 5 Aft) Auxiliary Fuel System, FAA approved revision A dated July 2, 2013 or later FAA approved revision is required. Approved for aircraft with NGS.

Configurations 3 & 7: PATS Aircraft, LLC. Airplane Flight Manual Supplement No. 228 for a Four-Cell (1 Fwd / 3 Aft) Auxiliary Fuel System, FAA approved revision A dated July 2, 2013 or later FAA approved revision is required. Approved for aircraft with NGS.

Configurations 4 & 8: PATS Aircraft, LLC. Airplane flight Manual Supplement No. 229 for a Four-Cell (0 Fwd / 4 Aft) Auxiliary Fuel System, FAA approved revision A dated July 2, 2013 or later FAA approved revision is required. Approved for aircraft with NGS.

Configuration 9: No Airplane Flight Manual Supplement required.

Configuration 10: PATS Aircraft, LLC. Airplane Flight Manual Supplement No. 207 for a Two-Cell (0 Fwd / 2 Aft) Auxiliary Fuel System, FAA approved revision A dated July 2, 2013 or later FAA approved revision is required. Approved for aircraft with NGS.

Configuration 11: PATS Aircraft, LLC. Airplane Flight Manual Supplement No. AFMS-ST01725NY-F-24 for a Six-Cell (2 Fwd / 4 Aft) Auxiliary Fuel System, revision IR dated March 1, 2016 or later FAA approved revision is required. Approved for aircraft with NGS.

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*Supplemental Type Certificate*  
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Effective Date: March 1, 2016

*Description of Type Design Change (Continued):*

Instructions for Continued Airworthiness

Configurations 1 through 9 and 11:

PATS Aircraft, LLC, document TM-4191-ICAW, revision D dated December 15, 2015 or later FAA accepted revision is required for Continued Airworthiness for all configurations. The aircraft must be inspected in accordance with the FAA Airworthiness Limitations and Certification Maintenance Requirements that are documented in the Maintenance Planning Data Supplement (MPDS) TO-4194, revision F dated December 15, 2015 or later FAA accepted revision along with FAA approved Airworthiness Limitations Section 4 dated September 03, 2015.

Configuration 10:

PATS Aircraft, LLC, document TM-6777-ICAW, revision B dated May 31, 2013 or later FAA accepted revision is required for Continued Airworthiness for all configurations. The aircraft must be inspected in accordance with the FAA Airworthiness Limitations that are documented in the Maintenance Planning Data Supplement (MPDS) TM-6777-MPDS, revision B dated May 31, 2013 or later accepted revision along with FAA approved Airworthiness Limitations Section 4 dated November 17, 2011.

All Configurations: This STC does not require a revised Electrical Wiring Interconnection System (EWIS) Instructions for Continued Airworthiness (ICA).

*Limitations and Conditions (Continued):*

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 14 CFR 25.1535, ETOPS Approval. This installation has no adverse effect on the previously approved ETOPS capability of the type-certificated aircraft.
3. The installation of the auxiliary fuel tank system, installed per this supplemental type certificate, has been evaluated in accordance with Lower Cabin Altitude (LCA) decompression data from Boeing Report D214A019. The installation is in compliance with LCA requirements.
4. The installer must determine whether this design is compatible with previously approved modifications.
5. 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.

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(Continuation Sheet)

Number: ST01725NY

Effective Date: March 1, 2016

*Limitations and Conditions (Continued):*

6. This STC has been shown compliant to 14 CFR Part 25.981 Amdt. 25-125, and 14 CFR 26.35(b) with FAA acceptance of TO-4384 titled "737-700IGW, -800, -900ER Flammability Exposure Analysis", along with TO-4739 titled "14 CFR 25.981 Amendment 25-125 Compliance Report", and FAA approved TO-4718 titled "Impact Assessment, 14 CFR 26.35".

*Certification Basis:*

Based on 14 CFR § 21.115 and § 21.101, and the FAA policy for changes that are non-significant in FAA Order 8110.48, the certification basis for the Boeing Model 737-900ER aircraft with a PATS Aircraft Auxiliary Fuel System is as follows:

14CFR Part 25 and Part 26 regulations

- a. The type certification basis for Boeing Model 737-900ER airplanes is shown on TCDS A16WE Revision 55 dated September 11, 2015 for parts not changed or not affected by the change.
- b. The certification basis for parts changed or affected by the change since the reference date of application, June 20, 2008 is based upon part 25 as as listed in the TCDS. and part 26, as listed in the TCDS.
- c. Regulations at the amendment levels of the TCDS:

25.301, 25.303, 25.305, 25.307, 25.341, 25.365, 25.561, 25.571, 25.581, 25.601, 25.603, 25.605, 25.607, 25.609, 25.611, 25.613, 25.619, 25.623, 25.625, 25.671, 25.685, 25.831, 25.851, 25.855, 25.857, 58.858, 25.863, 25.869, 25.901, 25.903, 25.951, 25.952, 25.953, 25.954, 25.955, 25.957, 25.959, 25.963, 25.965, 25.967, 25.969, 25.971, 25.973, 25.975, 25.977, 25.979, 25.993, 25.994, 25.995, 25.997, 25.999, 25.1183, 25.1185, 25.1305, 25.1301, 25.1309, 25.1316, 25.1321, 25.1322, 25.1337, 25.1351, 25.1353, 25.1355, 25.1357, 25.1363, 25.1381, 25.1501, 25.1529, 25.1541, 25.1543, 25.1553, 25.1555, 25.1557, 25.1581, 25.1583, 25.1585, 25.1587, 26.11, 26.35, 26.47.

Regulations above TCDS: (\* = Latest)

25.981 Amdt. 25-125\*  
25.1431 Amdt. 25-113

..END...

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