



United States of America  
Department of Transportation  
Federal Aviation Administration

# Supplemental Type Certificate

Number: ST02440LA

This certificate issued to: TIMCO Aerosystems LLC  
8010 Piedmont Triad Parkway  
Greensboro, NC 27409

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.

\*Certification Basis is set forth on continuation sheet 3.

Original Product – Type Certificate Number: A20WE                      Make: Boeing  
Model: 747-400 Series

Description of Type Design Change:  
Upper deck reconfiguration in accordance with Strong Aero Engineering Master Document List TASA1-1-02 Rev. A, dated December 28, 2012, or later FAA approved revision.

Limitations and Conditions:  
The installer must determine whether this design change is compatible with previously approved modifications. 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. A copy of this STC must be included in the permanent record of the modified aircraft.

Instructions for Continued Airworthiness (ICA), Strong Aero Report No. TASA 1-8-02, Revision N/C, dated July 23, 2012, or later FAA accepted revision must be made available to the operator at the time of installation.

Certification Basis:  
(See continuation sheet 3 of 3)

*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: February 10, 2012                      Date Reissued: 1/15/14; 5/6/14; 10/13/14; 8/2/16  
Date of Issuance: January 10, 2013                      Date Amended:

*By Direction of the Administrator*

Signature \_\_\_\_\_

Title John Hardie  
Acting Manager, Fort Worth Aircraft Certification Office,  
Southwest Region

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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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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: ST02440LA*

**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: ST02440LA

Date of Issuance: January 10, 2013

Date of Reissuance: August 2, 2016

**Certification Basis (Continued):**

Based on 14 CFR §§ 21.101 and 21.115 for non-significant changes to type design, the certification basis elected by the STC holder for the modification and installations to Boeing 747-400 Series airplane modified by this change is as follows:

- a. The type certification basis for Boeing 747-400 Series airplanes is shown in TCDS A20WE for parts not changed or not affected by the change.
- b. The certification basis for parts changed or affected by this changes as of the reference date of application, February 10, 2012 is based on 14 CFR Part 25 as amended by Amendment 25-136 and 14 CFR Part 26. Based on 14 CFR §§ 21.101 and 21.115, the certification basis for this modification was determined to be:

**Regulations at the latest amendment 25-0 through 25-136**

25.307; 25.561(a),(b),(c),(d); 25.613(a), (b), (c); 25.785(a), (b), (c)(i), (f)(1), (f)(3); 25.813(a), (e); 25.853(a), (c); 25.1411(a), (b); 25.1423(c); 25.1557(a).

**Regulations at the intermediate amendment**

25.869(a)(4) Amendment 25-72.

**Regulations at the amendment level in TCDS A20WE**

25.23(a), (b); 25.301(a), (b); 25.303; 25.305(a); 25.601; 25.603(a), (b), (c); 25.605(a); 25.607(a), (b), (c); 25.609(a), (b); 25.611; 25.625(a), (b), (c), (d); 25.789(a); 25.791; 25.815; 25.1301; 25.1309(a), (b); 25.1351(a); 25.1353(a), (b); 25.1431(c); 25.1541; 25.1561(a), (b), (c), (d), (e).

**14 CFR Part 26 regulations**

Based on 14 CFR § 21.101(g), applicable provisions of 14 CFR Part 26 are included in the certification basis. For any future 14 CFR Part 26 amendments, the holder of this STC must demonstrate compliance with the applicable sections. As of the issuance date of this STC, compliance has been found for the following regulations 14 CFR § 26.11(c) (Amdt 26-0).

-END-

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# *Supplemental Type Certificate*

*(Continuation Sheet)*

*Number: ST02440LA*

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