

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

Number ST02159CH

This certificate issued to Electronic Cable Specialists
5300 W. Franklin Drive
Franklin, WI 53132

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 25 of the Federal Aviation Regulations. (See Page 3 of 3 for complete certification basis.)

Original Product -- Type Certificate Number : A20WE
Make : Boeing
Model : 747-200B Series; 747-200F Series; 747-400 Series

Description of Type Design Change:

Installation of an AirSat™ II Satellite Communication System wiring and antenna provisions with option(s) for system activation in accordance with Electronic Cable Specialists, Master Data List ECS-203584, Revision AD, dated October 22, 2010, 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) The Airplane Flight Manual Supplement as listed in Appendix A of Electronic Cable Specialists Master Data List ECS-203584, Revision AD, dated October 22, 2010, or later FAA approved revision, is required on board the modified aircraft.
- 3) Instructions for Continued Airworthiness, Electronic Cable Specialists Doc. No. ECS-203588, Revision F, Section 4 Airworthiness Limitations, approved December 30, 2009, or later FAA approved revision, is required for this modification.
- 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 : January 30, 2005

Date reissued :

Date of issuance : May 27, 2005

Date amended : August 19, 2005; December 21, 2007;
November 10, 2010



By direction of the Administrator

(Signature)

Steven L. Lardinois
Manager, Systems and Flight Test Branch
Chicago Aircraft Certification Office

(Title)

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

Number ST02159CH

Date of issuance : May 27, 2005

Date amended : August 19, 2005; December 21, 2007; November 10, 2010

Certification Basis:

Electronic Cable Specialists Master Data List ECS-203584, at the revision listed on page 1 of this STC, Configurations 1 & 3:

Based on 14 CFR §§ 21.115 and 21.101, and FAA Order 8110.48, the type certification basis for the Boeing 747-200B Series, 747-200F Series, and 747-400 Series is as shown on the TCDS A20WE for parts changed or affected by the change.

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 §§ 26.47(b), (c) (Amdt No. 26-0 through 26-3).

Electronic Cable Specialists Master Data List ECS-203584, at the revision listed on page 1 of this STC, Configurations 2, 4, & 5:

Based on 14 CFR §§ 21.115 and 21.101, and FAA Order 8110.48, the type certification basis for the Boeing 747-200B Series, 747-200F Series, and 747-400 Series is as shown on the TCDS A20WE for parts changed or affected by the change.

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); 26.47(b), (c) (Amdt No. 26-0 through 26-3).

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