

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

*Number* ST02182CH

*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 Type Certificate Data Sheet A20WE for complete certification basis.)

*Original Product -- Type Certificate Number :* A20WE

*Make :* Boeing

*Model :* 747-100 Series; 747-100B Series; 747-200B Series;  
747-200C Series; 747-200F Series; 747-300 Series; 747SR Series;  
747SP Series; 747-400 Series; 747-400D Series; 747-400F Series

*Description of Type Design Change:*

Installation of elementary or enhanced surveillance Mode S transponders in accordance with Electronic Cable Specialists Master Data List ECS-202128, Revision J, dated February 27, 2006, 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-202128, Revision J, dated February 27, 2006, or later FAA approved revision, is required on board 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 2, 2004

*Date reissued :*

*Date of issuance :* August 31, 2005

*Date amended :* March 9, 2006



*By direction of the Administrator*

(Signature)

Charles L. Smalley  
Manager, Systems and Flight Test 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.