

ST01858CH

FAA Supplemental Type Certificate



Installation of GPS Antenna Provisions on Boeing 767 Series Aircraft (FAA STC ST01858CH)

OVERVIEW

- » FAA STC ST01858CH.
- » European Aviation Safety Agency (EASA) STC 00067
- » Transport Canada Acceptance of FAA STC ST01858CH
- » Irish Aviation Authority Approval Number IAA-976

INTRODUCTION

The STCs govern the installation of GPS antenna provisions in accordance with Electronic Cable Specialists (ECS) Master Data List ECS-201716.

YOUR NEEDS

Provides GPS antenna mounting provisions for Boeing 767 series aircraft.

YOUR BENEFITS

The complete system installation, which requires both the antenna provisions and activation packages, will provide precise GPS signals to any Flight Management System.

STC AIRCRAFT EFFECTIVITY

- » Boeing 767-200/-300 series aircraft

STC LIMITATIONS

- » Configurations 1 and 2: These configurations are only applicable to 767-200 aircraft with skin configuration 143T3111-1 or 767-300 aircraft with skin configuration 143T3111-2 at frame stations 600 and 622, BL 0, as defined by Boeing drawing 143T3111, Skin – Machined, Sta. 434 to Sta. 785.9, S-8L to S-2R.
- » Configurations 3 & 4: These configurations are only applicable to 767-200 aircraft with skin configuration 143T3111-3 or 767-300 aircraft with skin configuration 143T3111-4 at frame stations 600 and 622, BL 0, as defined by Boeing drawing 143T3111, Skin – Machined, Sta. 434 to Sta. 785.9, S-8L to S-2R.
- » Configurations 5 - 8: There are no limitations associated with these configurations.

STC CONFIGURATIONS

- » Configuration 1: GPS antenna structural provision Installation at frame station 600 with GPS antenna coverplates. This configuration is only applicable to 767-200 aircraft with skin configuration 143T3111-1 or 767-300 aircraft with skin configuration 143T3111-2 at frame station 600, BL 0, as defined by Boeing drawing 143T3111, Skin – Machined, Sta 434 to Sta. 785.9, S-8L to S-2R. (No existing structural accommodation.)

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STC CONFIGURATIONS

- » Configuration 2: GPS antenna structural provision Installation at frame station 622 with GPS antenna cover plates. This configuration is only applicable to 767-200 aircraft with skin configuration 143T3111-1 or 767-300 aircraft with skin configuration 143T3111-2 at frame station 622, BL 0, as defined by Boeing drawing 143T3111, Skin – Machined, Sta. 434 to Sta. 785.9, S-8L to S-2R. (No existing structural accommodation.)
- » Configuration 3: GPS antenna structural provision Installation at frame station 600 with GPS antenna cover plates. This configuration is only applicable to 767-200 aircraft with skin configuration 143T3111-3 or 767-300 aircraft with skin configuration 143T3111-4 at frame station 600, BL 0, as defined by Boeing drawing 143T3111, Skin – Machined, Sta. 434 to Sta. 785.9, S-8L to S-2R. (Existing structural accommodation.)
- » Configuration 4: GPS antenna structural provision Installation at frame station 622 with GPS antenna coverplates. This configuration is only applicable to 767-200 aircraft with skin configuration 143T3111-3 or 767-300 aircraft with skin configuration 143T3111-4 at frame station 622, BL 0, as defined by Boeing drawing 143T3111, “Skin – Machined, Sta 434 to Sta. 785.9, S-8L to S-2R.” (Existing Structural Accommodation)
- » Configuration 5: GPS antenna Coax Cable Installation. This configuration is applicable to 767-200 and -300 aircraft with GPS antenna provisions installed at Sta 600, BL 0. Total GPS antenna Coaxial Cable loss is 8.0 dB. antenna side connector is 90 degree TNC. LRU side connector is ARINC 600, size 5
- » Configuration 6: GPS antenna Coax Cable Installation. This configuration is applicable to 767-200 and -300 aircraft with GPS antenna provisions installed at Sta 622, BL 0. Total GPS antenna Coaxial Cable loss is 8.0 dB. Antenna side connector is 90 degree TNC. LRU side connector is ARINC 600, size 5
- » Configuration 7: GPS antenna structural provision Installation at frame station 644 with GPS antenna coverplates
- » Configuration 8: GPS antenna Coax Cable Installation. This configuration is applicable to 767-200 and -300 aircraft with GPS antenna provisions installed at Sta 644, BL 0. Total GPS antenna Coaxial Cable loss is 8.0 dB. Antenna side connector is 90 degree TNC. LRU side connector is ARINC 600, size 5.

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PRODUCT DESCRIPTION

Depending upon the configuration installed, this modification consists of structural provisions installed on the upper fuselage for mounting a GPS antenna and coax cables installed and routed from the upper fuselage to the electronics bay. The possible Configurations for this modification are in the STC Configuration Section.

MECHANICAL CHANGES

- » Configurations 1, 2, & 7: Install GPS antenna structural provisions.

ELECTRICAL CHANGES

- » Configurations 5, 6, & 8: Antenna coax cables are run from the GPS antenna to the E&E Compartment.

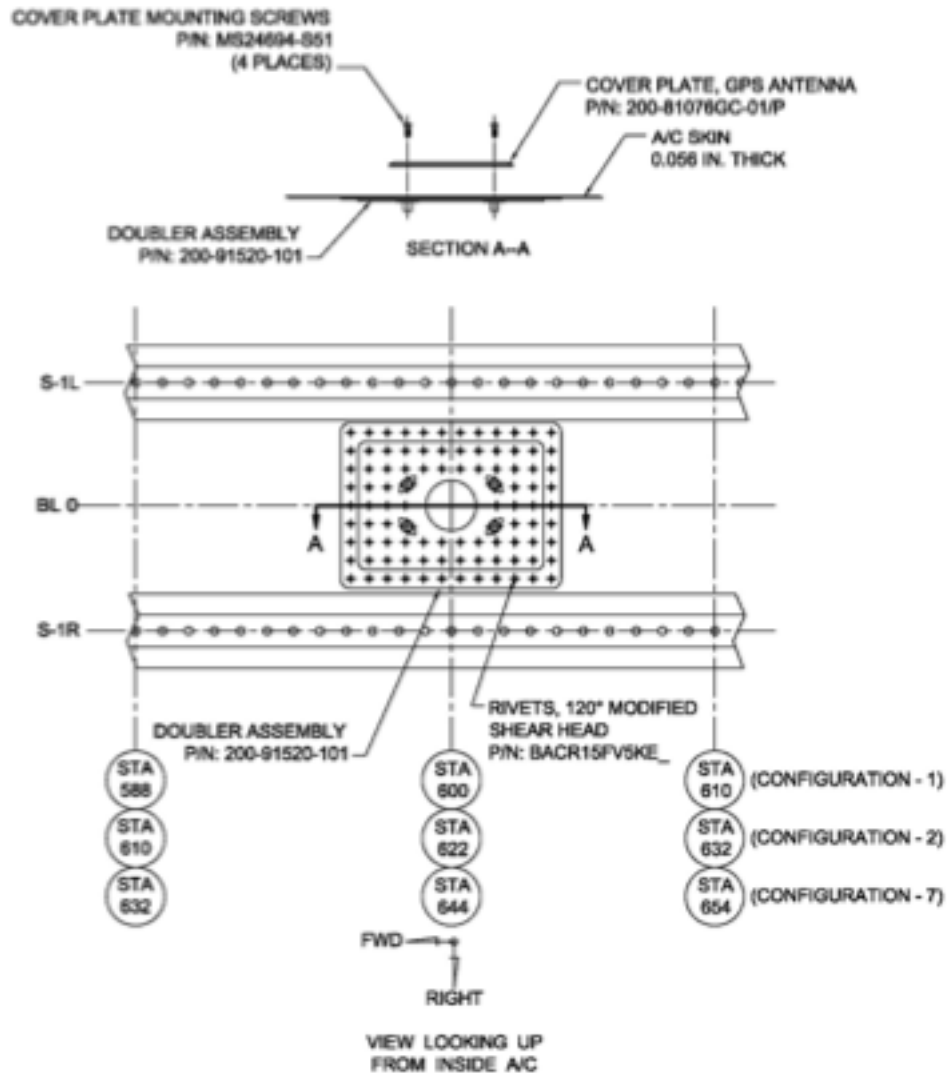


FIGURE 1 - GPS ANTENNA STRUCTURAL PROVISIONS

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» Configurations 3 & 4: GPS antenna structural provisions installation.

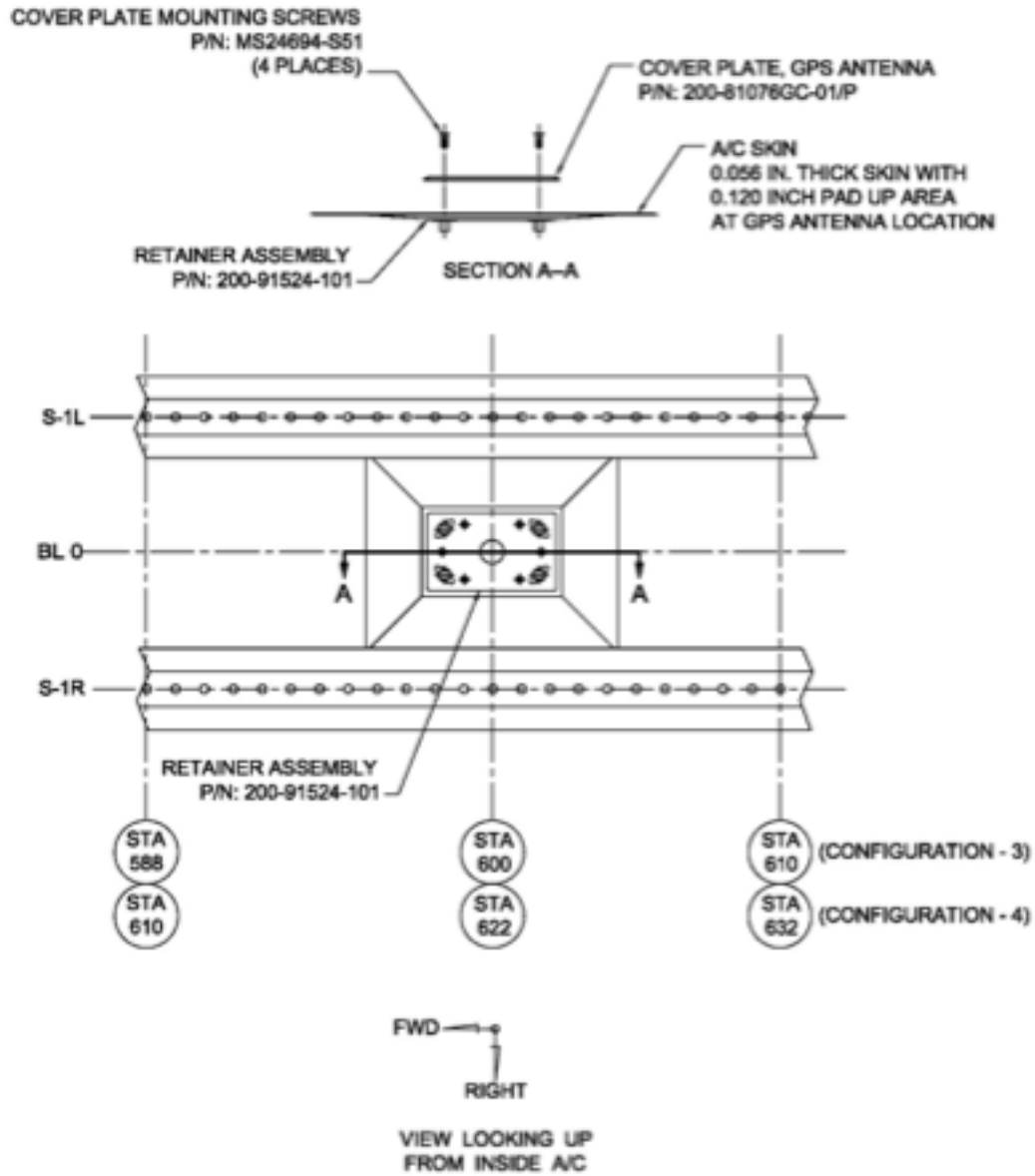


FIGURE 2 - GPS ANTENNA STRUCTURAL PROVISIONS

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