

ST01841CH

FAA Supplemental Type Certificate



Installation of GPS Antenna Provisions on Boeing 747 Series Aircraft
(FAA STC ST01841CH)

OVERVIEW

- » FAA STC ST01841CH.
- » European Aviation Safety Agency (EASA) STC 01660.

INTRODUCTION

The STCs govern the installation of GPS antenna provisions in accordance with Electronic Cable Specialists (ECS) Master Data List ECS-201551.

YOUR NEEDS

Provides GPS antenna mounting provisions for Boeing 747 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 747-100/-100B/-200B/-200C/-200F/-300/-SR/-SP series aircraft.

STC LIMITATIONS

- » None.

STC CONFIGURATIONS

- » Configuration 1: 747-100/-100B/-200B/-200C/-200F/-300/-SR/-SP series aircraft. Left side GPS antenna structural provisions.
- » Configuration 2: 747-100/-100B/-200B/-200C/-200F/-300/-SR/-SP series aircraft. Right side GPS antenna structural provisions.
- » Configuration 3: 747-100/-100B/-200B/-200C/-200F/-300/-SR/-SP series aircraft. Left side GPS antenna coax cable routing (antenna side coax cable with right angle TNC connector; LRU side coax cable with 180 degree BMA plug; total coax cable system loss of approximately 6 dB).

Contact CarlisleIT for usage rights,
derivative configurations, and installation lead time
(800) 327-9473 • sales@carlisleit.com

- » Configuration 4: 747-100/-100B/-200B/-200C/-200F/-300/-SR/-SP series aircraft. Right side GPS antenna coax cable routing (antenna side coax cable with right angle TNC connector; LRU side coax cable with 180 degree BMA plug; total coax cable system loss of approximately 6 dB).
- » Configuration 5: 747-100/-100B/-200B/-200C/-200F/-300/-SR/-SP series aircraft. Left side GPS antenna coax cable routing (antenna side coax cable with right angle TNC connector; LRU side coax cable with ARINC 600 Size 5 socket; total coax cable system loss of approximately 11.2 dB).
- » Configuration 6: 747-100/-100B/-200B/-200C/-200F/-300/-SR/-SP series aircraft. Right side GPS antenna coax cable routing (antenna side coax cable with right angle TNC connector; LRU side coax cable with ARINC 600 Size 5 socket; total coax cable system loss of approximately 11.2 dB).
- » Configuration 7: 747-200B/-200C/-200F/-300 series aircraft. GPS antenna structural provisions installation at frame station 1383.
- » Configuration 8: 747-200B/-200C/-200F/-300 series aircraft. GPS antenna structural provisions Installation at frame station 1405.

PRODUCT DESCRIPTION

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

ELECTRICAL CHANGES

- » Configurations 3 – 6: Antenna coaxial cables are run from the GPS antennas to the E&E compartment.

ST01841CH

FAA Supplemental Type Certificate

MECHANICAL CHANGES

» Configuration 1: Install left GPS antenna structural provisions.

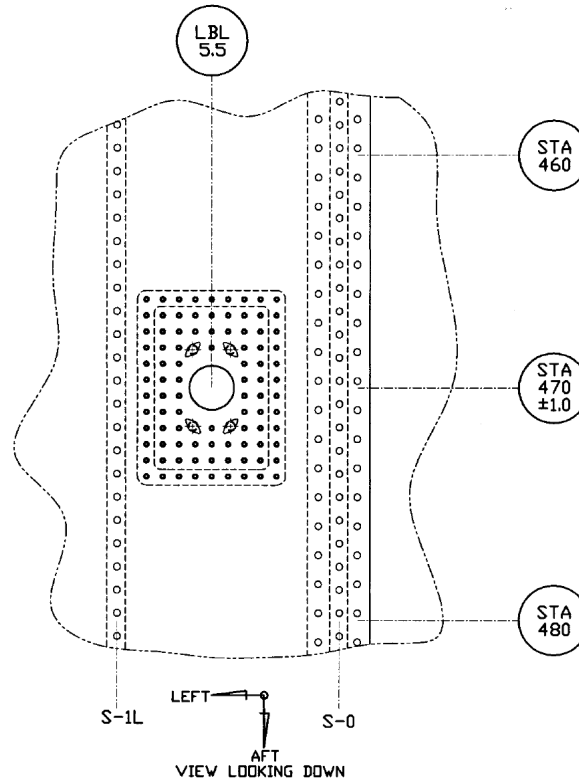


FIGURE 1 - LEFT GPS ANTENNA STRUCTURAL PROVISIONS

ST01841CH

FAA Supplemental Type Certificate

» Configuration 2: Install right GPS antenna structural provisions.

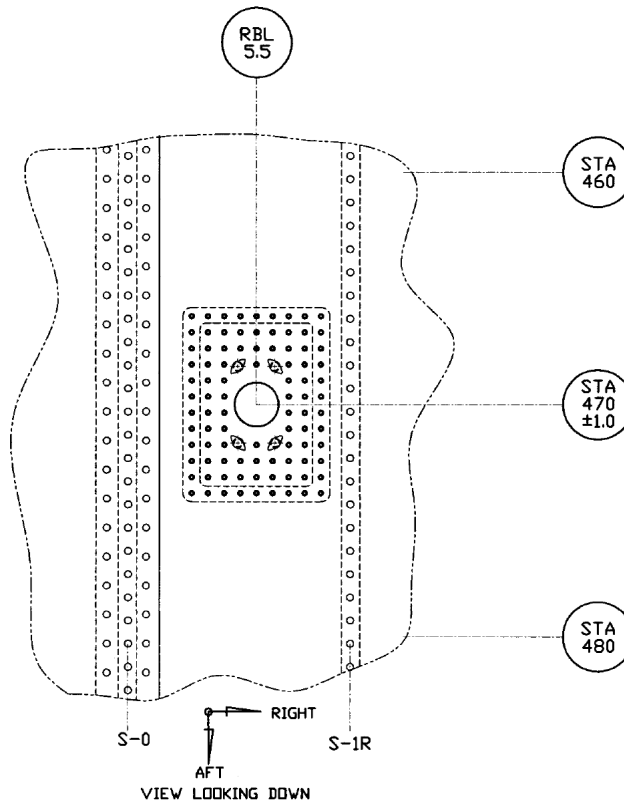


FIGURE 2 - RIGHT GPS ANTENNA STRUCTURAL PROVISIONS

ST01841CH

FAA Supplemental Type Certificate

» Configuration 7: GPS antenna structural provisions installation at frame station 1383.

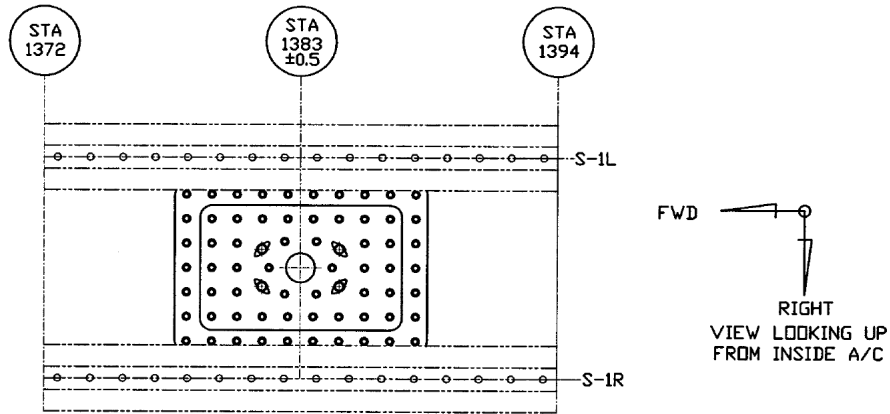


FIGURE 3 - GPS ANTENNA STRUCTURAL PROVISIONS - STA 1383

» Configuration 8: GPS antenna structural provisions installation at frame station 1405.

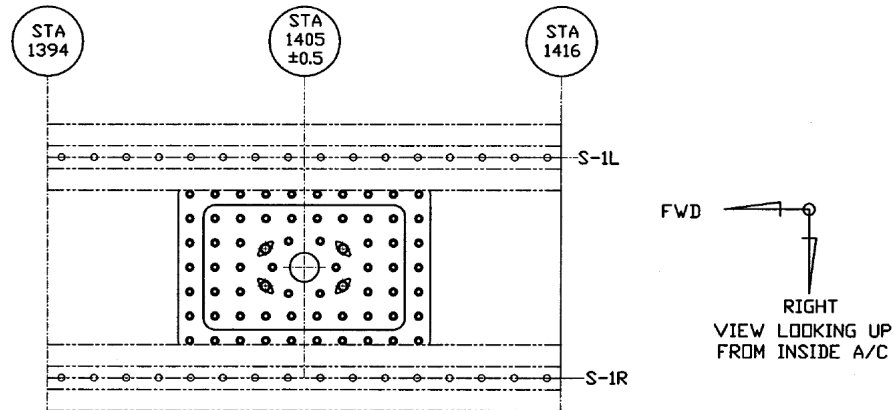


FIGURE 4 - GPS ANTENNA STRUCTURAL PROVISIONS - STA 1405

CONNECT WITH US TODAY

See CarlisleIT's line of **Certification Services** at:
CarlisleIT.com/services/certification-stc-engineering

(+1) 904-494-0549
Sales@CarlisleIT.com