

FAA STC ST02161CH

Installation of GPS Wiring & Antenna Provisions on Airbus A300 & A310 Series Aircraft

OVERVIEW

- » FAA STC ST02161CH

Governs the installation of GPS wiring and antenna provisions in accordance with Electronic Cable Specialists (ECS) master data list ECS-202227.

YOUR NEEDS

Provides GPS antenna coax cables and antenna structural provisions for Airbus A300 and A310 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

- » Airbus A300 B2-1A, B2-1C, B4-2C, B2K-3C, B4-103, B2-203, B4-203, B4-601, B4-603, B4-620, B4-605R, B4-622R, F4-605R, F4-622R series aircraft.
- » Airbus A310 203, 204, 221, 222, 304, 322, 324, 325 series aircraft.

STC CONFIGURATIONS & LIMITATIONS

- » **Configuration 1 (Airbus A300 series aircraft):**
Installation of GPS antenna structural provisions and cover plate between Frames 37 and 38 at station 2372.
- » **Configuration 2 (Airbus A300 series aircraft):**
Installation of GPS antenna structural provisions and cover plate between frames 38 and 38.1 at station 2425.
- » **Configuration 3 (Airbus A310 series aircraft):**
Installation of GPS antenna structural provisions and cover plate between frames 37 and 38 at station 2054.
- » **Configuration 4 (Airbus A310 series aircraft):**
Installation of GPS antenna structural provisions and cover plate between frames 38 and 38.1 at station 2107.

- » **Configuration 5 (Airbus A300 series aircraft):**

Installation of GPS antenna coaxial cable(s) routed from the 80VU avionics rack to the GPS structural provisions installed between frames 37 and 38.1 at station 2372.

- » **Configuration 6 (Airbus A310 series aircraft):**

Installation of GPS Antenna coaxial cable(s) routed from the 80VU avionics rack to the GPS structural provisions installed between Frames 37 and 38.1 at station 2054 or station 2107.

STC Limitations: None

PRODUCT DESCRIPTION

- » This installation consists of installing ADS-B system provisions, including wire harnesses, coaxial cables, equipment trays, antenna structural provisions, and antennas on Boeing 757 aircraft. Additionally, the existing ATRBS transponders are replaced with either Collins Mode-S transponders or Honeywell Mode-S transponders.

ELECTRICAL CHANGES

- » **Configurations 5 & 6:** Antenna coaxial cables are run from the GPS Antenna to the 80VU Electronics Rack.

MECHANICAL CHANGES

- » 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.

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» Configurations 1 & 2:
GPS antenna structural provisions installation

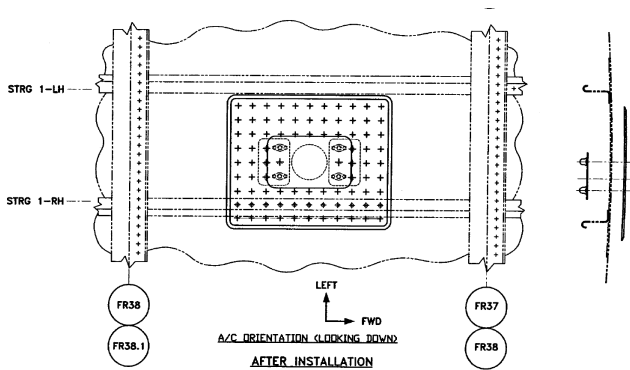


FIGURE 1:
GPS Antenna Structural Provisions

» Configurations 3 & 4:
GPS antenna structural provisions installation

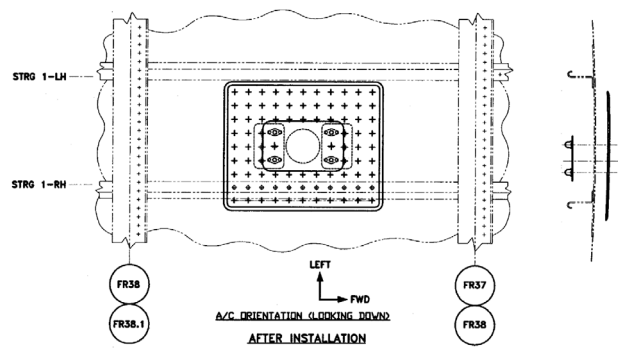


FIGURE 2:
GPS Antenna Structural Provisions