

# ST02161CH

## FAA Supplemental Type Certificate



Installation of GPS Wiring and Antenna Provisions on Airbus A300 and A310 Series Aircraft (FAA STC ST02161CH)

### OVERVIEW

- » FAA STC ST02161CH.

### INTRODUCTION

STC ST02162CH 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 LIMITATIONS

- » None.

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### STC CONFIGURATIONS

- » 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.

### 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.

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### MECHANICAL CHANGES

» Configurations 1 & 2: Install GPS antenna structural provisions

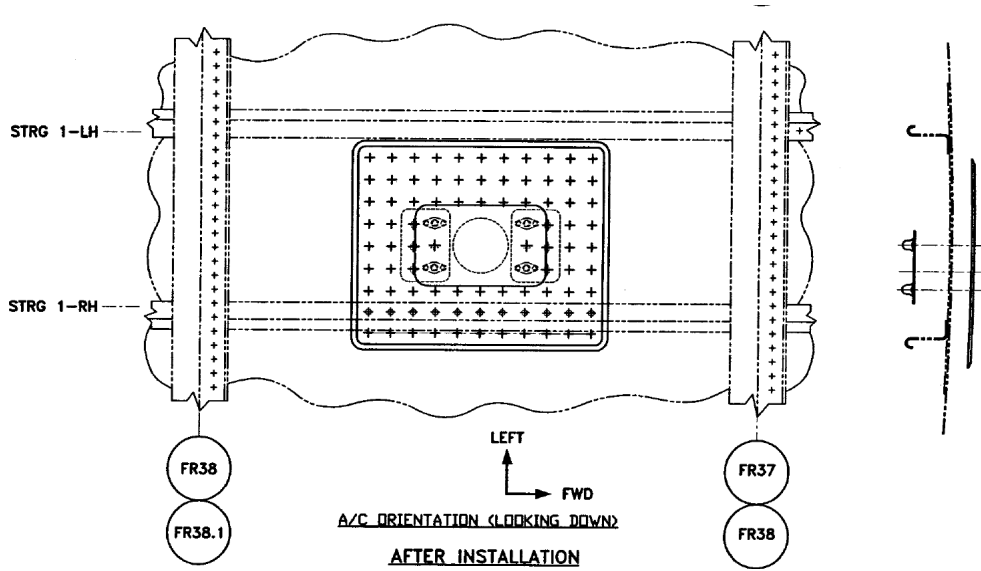


FIGURE 1 - GPS ANTENNA STRUCTURAL PROVISIONS

» Configurations 3 & 4: GPS antenna structural provisions installation

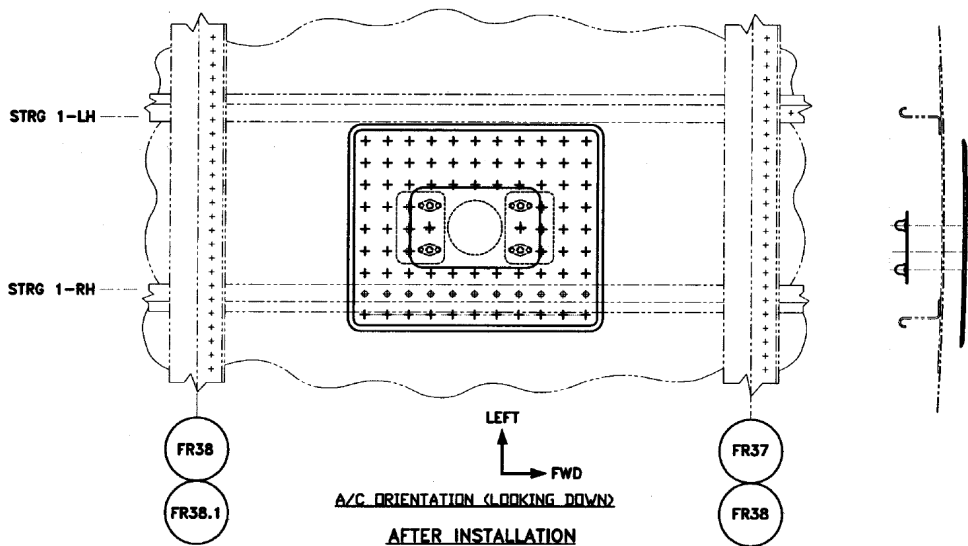


FIGURE 2 - GPS ANTENNA STRUCTURAL PROVISIONS

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