

ST01449CH

FAA Supplemental Type Certificate



Installation of GPS Antenna Provisions on Boeing 757 Series Aircraft (FAA STC ST01449CH)

OVERVIEW

- » FAA STC ST01449CH
- » European Aviation Safety Agency (EASA) STC 00360

INTRODUCTION

The STCs govern the installation of GPS antenna provisions in accordance with Electronic Cable Specialists (ECS) Master Data List ECS-200555.

YOUR NEEDS

Provides GPS antenna mounting provisions for Boeing 757 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 757-200 series aircraft

STC LIMITATIONS

- » Configurations 1 - 4: Installation limited to aircraft with skin panel P/N: 143N3121-1, -2, or -3 at frame station 690, LBL 5.0 to RBL 5.0, as defined by Boeing drawing 143N3121.
- » Configurations 5 & 6: Boeing GPS antenna structural provisions or GPS structural provisions per Configuration 7 and/or 8 of MDL ECS-200555 must be previously installed.
- » Configurations 7 & 8: Installation limited to aircraft with skin panel P/N: 143N3121-4 at frame station 690, LBL 5.0 to RBL 5.0, as defined by Boeing drawing 143N3121.

STC CONFIGURATIONS

- » Configuration 1: Dual GPS antenna structural provision with single coax cable and dual GPS antenna coverplates. This configuration is only applicable to B757-200 aircraft with skin panel P/N: 143N3121-1, -2, or -3 at frame station 690, LBL 5.0 to RBL 5.0, as defined by Boeing drawing 143N3121, Skin - Sta. 661-900 STGR 4L - 4R.

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- » Configuration 2: Dual GPS antenna structural provisions with dual coax cables and dual GPS antenna coverplates. This configuration is only applicable to B757-200 aircraft with skin panel P/N: 143N3121-1, -2, or -3 at frame station 690, LBL 5.0 to RBL 5.0, as defined by Boeing drawing 143N3121, Skin - Sta. 661-900 STGR 4L - 4R.
- » Configuration 3: Dual GPS antenna structural provisions with single coax cable, single GPS antenna and single GPS antenna cover plate. This configuration is only applicable to B757-200 aircraft with skin panel P/N: 143N3121-1, -2, or -3 at frame station 690, LBL 5.0 to RBL 5.0, as defined by Boeing drawing 134N3121, Skin - Sta. 661-900 STGR 4L - 4R.
- » Configuration 4: Dual GPS antenna structural provisions with dual coax cables and dual GPS antennas. This configuration is only applicable to B757-200 aircraft with skin panel P/N: 143N3121-1, -2, or -3 at frame station 690, LBL 5.0 to RBL 5.0, as defined by Boeing drawing 134N3121, Skin - Sta. 661-900 STGR 4L - 4R.
- » Configuration 5: Utilizing existing Boeing GPS antenna structural provisions, install single GPS antenna and coax cable. This configuration is also applicable to B757-200 aircraft with Configuration 7 and/or 8, as defined in Master Data List ECS-200555, previously installed.
- » Configuration 6: Utilizing existing Boeing GPS antenna structural provisions, install dual GPS antenna and coax cables. This configuration is also applicable to B757-200 aircraft with Configuration 7 and 8, as defined in Master Data List ECS-200555, previously installed.
- » Configuration 7: Left side GPS antenna structural provision with GPS antenna coverplate. This configuration is only applicable to B757-200 aircraft with skin panel P/N: 143N3121-4 at frame station 690, LBL 5.0 as defined by Boeing drawing 143N3121, Skin - Sta. 661-900 STGR 4L - 4R.
- » Configuration 8: Right side GPS antenna structural provision with GPS antenna coverplate. This configuration is only applicable to B757-200 aircraft with skin panel P/N: 143N3121-4 at frame station 690, RBL 5.0, as defined by Boeing drawing 143N3121, Skin - Sta. 661-900 STGR 4L - 4R.

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PRODUCT DESCRIPTION

This project installs GPS antennas or cover plates and GPS antenna structural provisions.

ELECTRICAL CHANGES

Antenna coaxial cables are run from the GPS antennas to the E2 shelf in the E&E compartment.

MECHANICAL CHANGES

- » Configuration 1: Dual GPS antenna structural provision with single coax cable and dual GPS antenna cover plates at frame station 690, LBL 5.0 to RBL 5.0.
- » Configuration 2: Dual GPS antenna structural provisions with dual coax cables and dual GPS antenna cover plates at frame station 690, LBL 5.0 to RBL 5.0.
- » Configuration 3: Dual GPS antenna structural provisions with single coax cable, single GPS antenna and single GPS antenna cover plate at frame station 690, LBL 5.0 to RBL 5.0.
- » Configuration 4: Dual GPS antenna structural provisions with dual coax cables, and dual GPS antennas at frame station 690, LBL 5.0 to RBL 5.0.
- » Configuration 5: Utilizing existing Boeing GPS antenna structural provisions, install single GPS antenna and coax cable.
- » Configuration 6: Utilizing existing Boeing GPS antenna structural provisions, install dual GPS antenna and coax cables.
- » Configuration 7: Left side GPS antenna structural provision with GPS antenna cover plate at frame station 690, LBL 5.0.
- » Configuration 8: Right side GPS antenna structural provision with GPS antenna coverplate at frame station 690, RBL 5.0.

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