

uAvionix QI skyBeacon Installation Training Guide

1. Getting Ready... before you start the installation:

Download, study and print as necessary ...

- FAR 91.225, 91.227 and Part 43 as applicable to avionics installations/modifications
- skyBeacon Installation Manuals and other data (available on uAvionix website)
 - TSO
 - STC
 - AML
 - skyBeacon Installation Template
 - Documents required for FAA and Aircraft records
- skyBeacon FMS (multiple copies required as must be present in each aircraft with the POM)
- Sample 337 to be used for reference to complete each installation 337
- ADSB Rule airspace definitions (critical for rebate flights and flight certification)
- PAPR Users Guide
- Understanding PAPR failures

2. Required Tools for Installation:

- Mobile device with WI-FI (Android or Apple)
- skyBeacon application downloaded from appropriate "App Store" to mobile device
- Voltmeter
- Heat gun
- Appropriate wire strippingtool
- Standard hand tool assortment

3. Performing the Installation:

- Validate skyBeacon applicability to aircraft via AML and physical characteristics of wingtip and existing position light assembly
- Validate the transponder and encoder are operational

NOTE: skyBeacon will not operate correctly without a 100% functional mode C or S transponder and altitude encoder

- IFR Certification Test report or ATC validation really helps
- Access FAA registry website and obtain N number specific 6-character (hex) ICAO (Mode S) code and record

NOTE: Aircraft Registration does not contain the 6-character hex ICAO code

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- Remove existing wingtip position light assembly
- Install skyBeacon unit as per the TSO and STC manuals as well as Part 43

NOTE: Validate aircraft wiring prior to connecting the skyBeacon to the aircraft wiring

- Apply power to skyBeacon
 - Verify LED illumination on skyBeacon unit as per installation manuals
 - Validate Position light (always on with unit powered) and strobe function as applicable
 - Using Mobile device, connect to skyBeacon Wi-Fi using password provided with unit
 - Configure skyBeacon using application running on mobile device as per the installation manuals using parameters obtained from POM, FAA Registry and aircraft specific data as required
 - Ensure the aircraft is outside, and verify LED sequences as per Operations Manual (Validates GPS functionality)

4. Complete Installation Documentation:

- Position light placard must be placed on instrument panel
- Complete Log Book entries

NOTE: Compliance entry cannot be completed until certification process (below) is accomplished:

- 337
- FMS in aircraft with POM

5. Test to comply with ADSB Certification-Part 91.227:

- Two methods to test and validate installation
 - ADSB test set
 - Report serves Certification documentation
 - Flight Test
 - PAPR report
 - Must have radar coverage to obtain a "clean" report
 - PAPR becomes part of Certification documentation
- Complete Logbook entries as per FAR guidance after completing Certification

6. Aircraft now legal for operation in "Rule Airspace":

- Rebate Flights
- Operations Requiring ATC Services