

Appendix 3:

Example Instructions for Continued Airworthiness document based on compliance with CS-23.1529 Appendix G

Important note: this example is for illustrative purposes only – more complex changes may require further detail (as applicable) as required by the applicable certification requirement.

ICA123 Issue 1 Instructions for Continued Airworthiness Anybody Aviation Services minor change 12345 Installation of Bloggs Avionics ELS123 Transponder on Piper PA28-800X
1. Description <i>Anybody Aviation Services minor change 12345 installs a Bloggs Avionics Mode S Transponder to comply with the requirements for Elementary Mode S carriage. The Transponder is installed in the instrument panel radio stack to replace the Mode A/C Transponder. It interfaces with the existing blind altitude encoder and uses the existing antenna on the upper fuselage at Frame 25.</i> <i>This document describes the necessary maintenance requirements and instructions necessary to ensure the continued airworthiness of this aircraft following embodiment of Aviation Services minor change 12345.</i> <i>This ICA document is prepared i.a.w. Anybody Aviation Services minor change 12345. Any change to this ICA will require further approval.</i> EASA Airworthiness Directive 2006-0625 remains applicable to this aircraft post installation of Aviation Services minor change 12345. Section 4a of this document refers.
2. Operation <i>Operating instructions for the Bloggs Avionics Mode S Transponder are detailed in the following documents:</i> <i>Bloggs Avionics ELS123 Pilots Operating Guide, ELS123-001 Rev A</i> <i>Section B of Bloggs Avionics ELS123 Installation Manual, ELS123-002 Rev B</i>
3. Servicing <i>No servicing or consumables parts/materials required.</i> <i>No special access requirements.</i>
4. Maintenance Instructions 4a. Scheduled Maintenance Every 12 Months: <i>Using a field test set, check the Mode S Transponder is responding to interrogations properly and operating within the design limits i.a.w. Section C of Bloggs Avionics ELS123 Installation Manual, ELS123-002 Rev B:</i> <i>frequency tolerance</i> <i>side lobe suppression</i> <i>Mode A,C and S response including confirmation that the assigned aircraft address (24-bit address) is correctly configured.</i> <i>Note: For UK-registered aircraft maintained i.a.w. LAMP (CAP 766 CAA/LAMP/A/2007 Issue 1), item 106 of the Annual Check completely satisfies this requirement.</i> Every 24 Months (MANDATORY): Check the altitude encoder – transponder Gillham Code interface i.a.w. EASA AD 2006-0265.

4b. Installation and Removal Instructions

Removal

- Remove aircraft power and Trip 'XPDR' c/b.
- Using ¼ inch Allen Key, loosen two holding screws and withdraw transponder from stack.
- Disconnect and secure wafer connector and antenna connector.

Installation

- Reverse removal instructions (above)
- Test i.a.w. Section C of Bloggs Avionics ELS123 Installation Manual, ELS123-002 Rev B. Note only steps 1 through 3 of Section C are required. It is not necessary to complete Section C.

4c. Trouble-shooting

Trouble-shooting for the Bloggs Avionics Mode S Transponder is detailed in Section E of Bloggs Avionics ELS123 Installation Manual, ELS123-002 Rev B.

For reference to aircraft installation specific aspects of trouble-shooting, refer to the following drawings of Anybody Aviation Services minor change 12345:

- Wiring Diagram 12345-1
- Installation Drawing 12345-2

4d. Required Tools and Test Equipment

- Test Box 123 L-Band Test Set (or equivalent)
- Test Box 456 Pitot-Static Test Set (or equivalent)

5. Airworthiness Limitations

The airworthiness limitations section is approved and variations must also be approved.

There are no Airworthiness Limitations applicable to Anybody Aviation Services minor change 12345.