

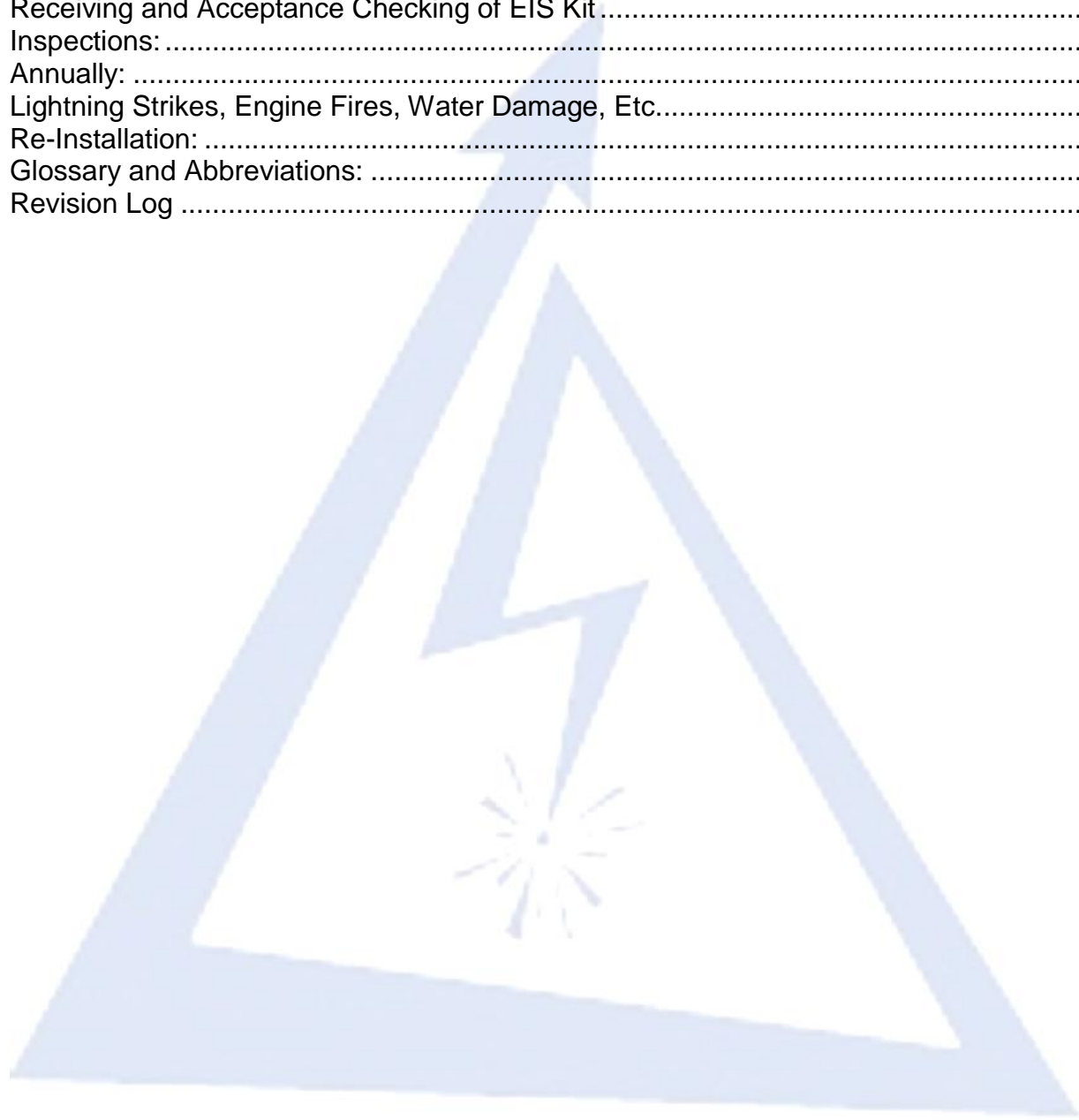
electroair
ELECTRONIC IGNITION SYSTEMS

EA-13000
Instructions for Continued
Airworthiness

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General:

This Instruction for Continued Airworthiness contains the necessary information required for the operation of an Ignition/Starter Switch Panel (EA-13000) as installed on aircraft that formerly used a rotary style ignition switch, with the Electroair EIS installed.

A. FUNCTIONAL OVERVIEW

The Electroair EA-13000 is an Ignition/Starter Switch Panel for use on aircraft with Electroair EIS systems.

The EA-13000 an Ignition/Starter Switch Panel shall only be used in conjunction with the EIS-41000 or the EIS-61000 series of Electronic Ignition System. The EA-13000 assists in the performance of the EIS-41000 or the EIS-61000 by eliminating the need for the rotary key switch by replacing it with two rocker switches and one push button starter switch.

B. SYSTEM OPERATION

Under normal operating conditions, the EA-13000 Electronic Ignition System will be controlled by the flight crew in the same manner as a magneto. An AFMS has **NOT** been created to reflect the change to the aircraft ignition system. Use AFMS EIS-61000 or AFMS EIS-61000 for correct operation.

Precautionary Statements:

- Read this entire document before starting any processes listed within this document. If there are any questions or concerns please contact Electroair before starting. (517-552-9390 or sales@electroair.net)
- If a switch panel is improperly installed; the EIS, the aircraft, or the installer could be seriously damaged.
- Always use appropriate work and safety practices.
- For the latest up to date information refer to www.electroair.net (ICA, AML, Installation Manual, AFMS, etc.)
- For abnormal operation, for ignition systems that have a suspected failure, refer to the Electroair Trouble Shooting Instructions at http://electroair.net/pdfs/troubleshooting_the_EIS.pdf

Eligibility:

See approved model list (AML) for exact model numbers

Manual Reference:

Electroair Kit Part Number	Installation Manual Number
EA-13000	IM EA-13000

(See approved model list (AML) for kit part number applicability)

Airworthiness Limitations Section (ALS):

The Airworthiness Limitations section is FAA approved and specifies maintenance required under §§43.16 and 91.403 of Title 14 of the Code of Federal Regulations unless an alternative program has been FAA approved. There are no FAA mandated inspection or replacement intervals for this STC.

Receiving and Acceptance Checking of EIS Kit

1. Review the packaging before acceptance from the freight carrier. If the packaging is damaged, refuse the shipment.
2. Open the package; and, review the contents of the package to the content listing on the package.
3. Are all of the materials there?
 - a. Yes, proceed to step 4.
 - b. No, contact the factory. Have the serial number of the kit available when contacting. (517-552-9390 or sales@electroair.com)
4. Review the EA-13000 ignition/starter switch panel.
5. Are all materials acceptable?
 - a. Yes, proceed with installation.
 - b. No, contact the factory. Have the serial number of the kit available when contacting. (517-552-9390 or sales@electroair.com)

If possible, store parts in original packaging when not in use. If not possible, wrap parts in cushioning material and place in one location. Review as above prior to reinstallation.

Inspections:

Refer to the installation manual for required tooling. The installation manual has been provided as a part of this kit, if another copy is required refer to www.electroair.net.

Note: Installation of the EIS system does NOT eliminate the requirement to comply with applicable airworthiness directives (ADs).

Annually:

1. N/A

Lightning Strikes, Engine Fires, Water Damage, Etc.

1. Inspect the EA-13000 wiring and components.
2. If there is obvious damage, replace the damaged components.
3. If there is no obvious damage, perform a ground run-up. If no problems are found, continue with the standard procedures as stated in the AFMS.
4. If unsure, contact factory (517-552-9390 or sales@electroair.net).

Re-Installation:

1. For removal follow the EA-13000 Installation Manual in reverse order.
2. For instructions on reinstalling individual EA-13000 components or the entire system, refer to the EA-13000 Installation Manual that was included with the EA-13000 kit. If the original installation manual is not with the system, contact the factory for an up to date replacement installation manual (517-552-9390 or sales@electroair.net) or retrieve from the factory's website www.electroair.net.
3. After re-installation follow the instructions for start-up in the AFMS to verify the operation of the EIS system.

Glossary and Abbreviations:

- AD(s) – airworthiness directive(s)
- AFM – aircraft flight manual
- AFMS – aircraft flight manual supplement
- ALS – aircraft limitations section
- AML – approved model list
- BTDC – before top dead center
- CFR – code of federal regulations
- CSTW – crankshaft trigger wheel
- EIS – electronic ignition system
- FAA – federal aviation administration
- MAG -- magneto
- MAP – manifold absolute pressure
- May/Should – an optional requirement
- MTH – mag timing housing
- Must/Shall – a mandatory requirement
- RPM – revolutions per minute
- STC – supplemental type certificate
- TDC – top dead center

Revision Log

Revision	Date of Revision	Description of Revision	Approved by	Date of Approval
00	08/25/2015	Initial Release	HP	08/25/2015