

EA-23000 Instructions for Continued Airworthiness

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Revision Log

Revision	Date of Revision	Description of Revision	Approved by	Date of Approval
00	05/12/2021	Initial Release	A8	

1.0 Introduction:

This Instruction for Continued Airworthiness contains the necessary information required for the operation of an Ignition/Starter Switch Panel For Two Electronic Ignition Systems (EA-23000) as installed on aircraft that formerly used a rotary style ignition switch.

2.0 System Description

The Electroair EA-23000 is an Ignition/Starter Switch Panel for use on aircraft with two Electronic Ignition Systems (EIS). The EA-23000 eliminates the need for the rotary key switch by replacing it with two rocker switches and one push button starter switch.

3.0 System Operating Information

Under normal operating conditions, the EA-23000 is controlled by the flight crew. An AFMS has been created to reflect how the EA-23000 Ignition/Starter switch panel operates instead of a rotary key switch.

4.0 Service Information

Refer to aircraft maintenance manual for access and locations of components. No servicing is required for the EA-23000.

5.0 Maintenance Instructions

5.1 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. (248-674-3433 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 <u>www.electroair.net</u> (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

5.2 Scheduled Maintenance

Annually:

1. Verify connections are still competent.

5.3 Installation and Removal Instructions

- 1. For removal follow the EA-23000 Installation Manual in reverse order.
- 2. For instructions on reinstalling individual EA-23000 components or the entire system, refer to the EA-23000 Installation Manual that was included with the EA-23000 kit. If the original installation manual is not with the system, contact the factory for an up to date replacement installation manual (248-674-3433 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.

5.4 Trouble-shooting

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

5.5 Special Inspection

5.5.1 Lightning Strikes, Engine Fires, Water Damage, Etc.

- 1. Inspect the EA-23000 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 (248-674-3433 or sales@electroair.net).

6.0 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. (248-674-3433 or sales@electroair.com)
- 4. Review the EA-23000 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. (248-674-3433 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.

7.0 Eligibility:

See approved model list (AML) for exact model numbers

8.0 Manual Reference:

Electroair Kit Part Number	Installation Manual Number	
EA-23000	IM EA-23000	
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(See approved model list (AML) for kit part number applicability)

9.0 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.

FAA Approved: Date:		
	FAA Approved:	Date:

10.0 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
- MEL Minimum Equipment List
- MTH mag timing housing
- Must/Shall a mandatory requirement
- RPM revolutions per minute
- STC supplemental type certificate
- TDC top dead center