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› [Aoleaby](#) /

› Aoleaby EBI4 M 052F4038 Electronic Ignition Transformer User Manual

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INTRODUCTION

This manual provides instructions for the safe and efficient use of the Aoleaby EBI4 M 052F4038 Electronic Ignition Transformer. This unit is designed for reliable ignition in various combustion systems, including boilers and kilns, offering a compact and stable solution for initiating the combustion process.

SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation and maintenance should only be performed by qualified personnel. Disconnect power before servicing.

- Ensure all local and national electrical codes are followed during installation and operation.
- Verify correct voltage and current ratings before connecting the transformer to the power supply.
- Do not operate the transformer if it shows any signs of damage, such as cracks, exposed wiring, or unusual odors.
- Avoid touching high-voltage terminals when power is applied.

PRODUCT OVERVIEW

The Aoleaby EBI4 M 052F4038 is a compact and durable electronic ignition transformer engineered for high stability and reliable performance in demanding environments.

Key Features:

- **Compact Design:** Small size facilitates easy installation in various applications.
- **High Stability:** Constructed from rugged materials to ensure stable operation even in harsh conditions.
- **Wide Application Range:** Suitable for use in boilers, kilns, and other combustion systems requiring reliable ignition.

Component Identification:



Figure 1: Front view of the Aoleaby EBI4 M 052F4038 Electronic Ignition Transformer, displaying the model number (EBI4 M No. 052F4038) and electrical ratings (Prim. 230V ac, 0.25A, 50-60Hz, 60VA; Sec. 2x7.5KV Ampl. 40mA). This view highlights the product's identification and primary electrical characteristics.



Figure 2: Rear view of the Aoleaby EB14 M 052F4038 Electronic Ignition Transformer, showing the two high-voltage output terminals for connection to ignition electrodes. This view illustrates the connection points for the high-voltage spark generation.

TECHNICAL SPECIFICATIONS

- **Model Number:** EB14 M 052F4038
- **Primary Voltage:** 230V AC
- **Primary Current:** 0.25A
- **Frequency:** 50-60Hz
- **Primary Power:** 60VA
- **Secondary Voltage:** 2 x 7.5KV
- **Secondary Current (Ampl.):** 40mA
- **Duty Cycle:** 33% ED in 3 min.
- **Approximate Package Dimensions:** 0.39 x 0.39 x 0.39 inches
- **Approximate Package Weight:** 14.11 ounces
- **Manufacturer:** Aoleaby

SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of the ignition transformer. This procedure should only be carried out by qualified personnel.

1. **Power Disconnection:** Before starting any installation work, ensure the main power supply to the appliance and the circuit where the transformer will be installed is completely disconnected and locked out.
2. **Mounting:** Securely mount the transformer in a location that is protected from excessive heat, moisture, vibration, and corrosive atmospheres. Follow the appliance manufacturer's specific mounting guidelines.
3. **Primary Wiring:** Connect the primary (input) terminals of the transformer to the appropriate 230V AC power supply. Ensure correct polarity and make all connections secure and tight. Use insulated wires rated for the voltage and current requirements.
4. **Secondary Wiring:** Connect the secondary (output) high-voltage terminals to the ignition electrodes of the burner. High-voltage cables must be properly insulated, routed away from other wiring and metal surfaces, and secured to prevent arcing or damage.
5. **Grounding:** Ensure the transformer casing and the appliance are properly grounded according to all applicable local and national electrical codes.
6. **Verification:** After all connections are made, double-check them for tightness, correct wiring, and proper insulation before restoring power.

Note: *Incorrect installation can lead to equipment damage, fire, or personal injury. If you are unsure about any step, consult a qualified electrician or service technician.*

OPERATING INSTRUCTIONS

The Aoleaby EBI4 M 052F4038 Electronic Ignition Transformer operates automatically as an integral part of a combustion control system. Manual intervention is generally not required during normal operation.

1. **Power On:** Once the transformer is correctly installed and wired, restore power to the appliance it serves.
2. **Ignition Sequence:** When the appliance's control system initiates a call for heat or a burner start-up, the transformer will receive power. It will then generate a high-voltage spark across the ignition electrodes.
3. **Flame Establishment:** The generated spark ignites the fuel, leading to the establishment of a flame. Once the flame is detected by the control system (e.g., via a flame sensor), the transformer's operation will typically cease, or it will continue to spark for a predetermined ignition trial period as configured by the burner control.
4. **Normal Operation:** The transformer remains dormant until another ignition cycle is required by the appliance's control system.

Important: *Do not attempt to manually activate or deactivate the transformer. Its operation is precisely controlled by the appliance's integrated control system to ensure safe and efficient combustion.*

MAINTENANCE

The Aoleaby EBI4 M 052F4038 is designed for minimal maintenance. However, periodic checks are recommended to ensure optimal performance, longevity, and safety.

- **Visual Inspection:** Regularly inspect the transformer for any signs of physical damage, such as cracks in the casing, discoloration, or loose connections.
- **Wiring Integrity:** Check all primary and secondary electrical connections for tightness and ensure that insulation is intact and free from fraying or damage.

- **Cleanliness:** Keep the transformer free from excessive dust, dirt, and debris, which can impede heat dissipation or potentially lead to electrical tracking. Use a dry, soft cloth for cleaning.
- **Electrode Condition:** Ensure the ignition electrodes connected to the transformer are clean, properly gapped, and free from excessive wear, carbon buildup, or corrosion. Refer to the appliance's specific manual for electrode maintenance procedures.

Caution: Always disconnect power to the appliance and the transformer before performing any maintenance or inspection to prevent electrical shock.

TROUBLESHOOTING

If the appliance fails to ignite or experiences intermittent ignition issues, consider the following common troubleshooting steps. Always ensure power is disconnected before inspecting or working on electrical components.

Problem	Possible Cause	Solution
No Spark	No power to transformer; Faulty primary wiring; Damaged transformer; Faulty appliance control board.	Check power supply to the transformer; Verify all primary connections; Test transformer for output (by qualified personnel); Consult appliance manual for control board diagnostics.
Weak or Inconsistent Spark	Low primary voltage; Loose primary or secondary connections; Contaminated or improperly gapped electrodes; Aging transformer.	Check input voltage; Tighten all electrical connections; Clean or replace ignition electrodes and verify gap; Replace transformer if it's nearing end of life.
Intermittent Spark	Loose wiring connections; Intermittent power supply; Overheating due to poor ventilation or duty cycle exceedance.	Secure all wiring connections; Check stability of the power source; Ensure proper ventilation around the transformer and verify duty cycle is not exceeded.

Note: For complex issues or if these troubleshooting steps do not resolve the problem, contact a qualified service technician. Do not attempt repairs beyond your technical capability, as this could lead to further damage or safety hazards.

WARRANTY AND SUPPORT

For warranty information or technical support regarding your Aoleaby EBI4 M 052F4038 Electronic Ignition Transformer, please refer to the documentation provided with your original purchase or contact your supplier directly.

Manufacturer: Aoleaby
ASIN: B0FC671VH9

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