

## Doyon ELM715

# Doyon ELM715 Solid State Timer Instruction Manual

Model: ELM715

## 1. INTRODUCTION AND OVERVIEW

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The Doyon ELM715 is a robust solid-state timer designed for precise control in oven applications, particularly those requiring a reversible motor. This timer offers both ON-delay and OFF-delay functionalities, allowing for flexible timing sequences. Its compact design and reliable performance make it an essential component for commercial kitchen equipment.

## 2. SAFETY INFORMATION

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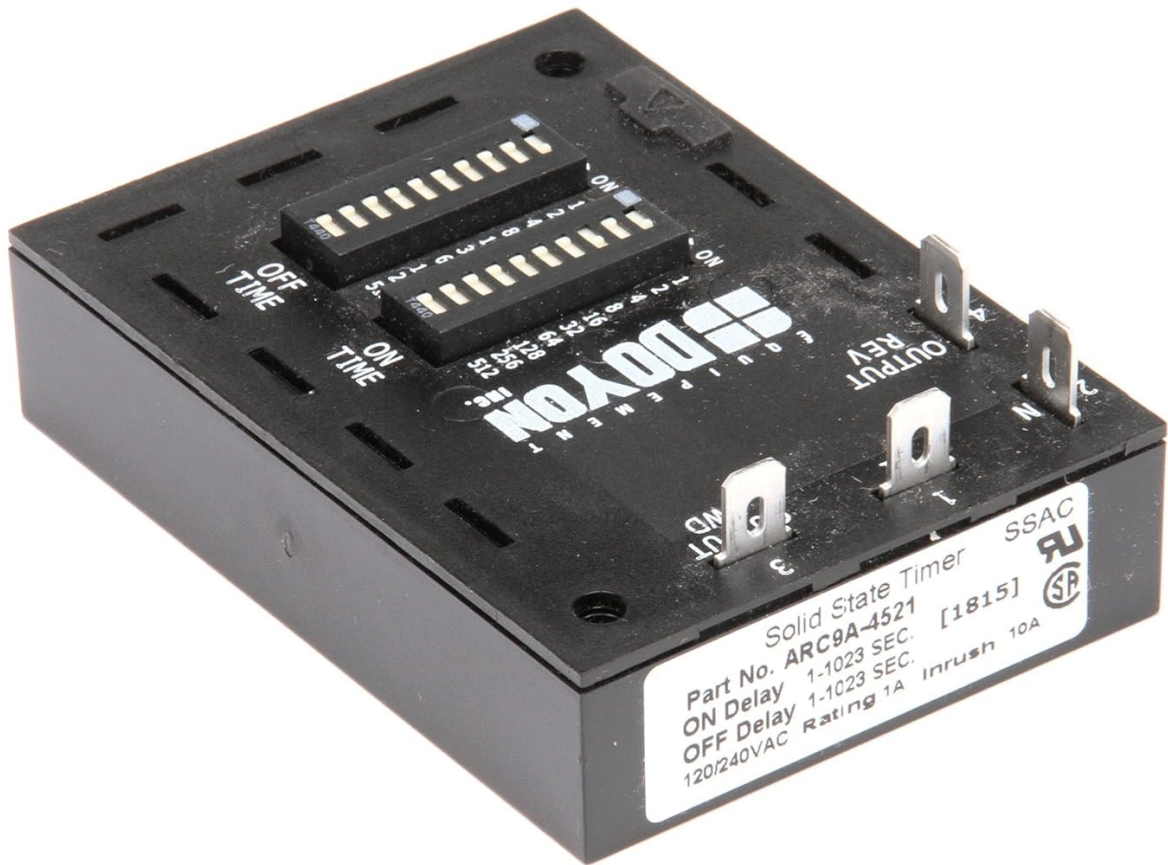
**WARNING: Risk of Electric Shock. Disconnect power before installation or servicing.**

- Ensure all electrical connections are made by a qualified electrician in accordance with local and national electrical codes.
- Verify that the power supply voltage matches the timer's specifications (120/240VAC).
- Do not operate the timer if it appears damaged.
- Keep the timer away from water and excessive moisture.

## 3. COMPONENTS AND FEATURES

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The ELM715 timer features clearly labeled components for easy configuration and connection.



This image displays the Doyon ELM715 Solid State Timer, showing its black casing, two sets of DIP switches labeled 'ON TIME' and 'OFF TIME', and terminal connectors for 'OUTPUT' and 'REV'. A label on the side provides specifications such as Part No. ARC9A-4521, ON Delay 1-1023 SEC., OFF Delay 1-1023 SEC., 120/240VAC, Rating 1A, and Inrush 10A.

- **DIP Switches:** Two sets of DIP switches are provided for setting the ON-delay and OFF-delay times. Each switch corresponds to a specific time increment, allowing for precise adjustment.
- **Terminal Connectors:** Clearly marked terminals for power input (120/240VAC), output, and reversible motor control.
- **Indicator Lights (if present):** Some models may include LED indicators for power or timing status.

## 4. SETUP AND INSTALLATION

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Follow these steps for proper installation and initial setup of the ELM715 timer.

### 4.1 Mounting

Mount the timer securely within the control panel or equipment enclosure using appropriate fasteners. Ensure adequate ventilation around the unit.

### 4.2 Wiring

Refer to the wiring diagram provided with your specific oven model or equipment. Connect the power supply (120/240VAC), load (oven components, reversible motor), and control inputs to the corresponding terminals on the ELM715 timer. Ensure all connections are tight and secure.

### 4.3 Setting ON/OFF Delay Times

The ELM715 timer allows for ON-delay and OFF-delay settings ranging from 1 to 1023 seconds. Use the DIP switches to configure the desired timing:

1. Identify the 'ON TIME' and 'OFF TIME' DIP switch banks.
2. Each switch corresponds to a specific time value (e.g., 1, 2, 4, 8, 16, 32, 64, 128, 256, 512 seconds).
3. To set a desired time, flip the switches corresponding to the values that sum up to your target time to the 'ON' position. For example, to set 10 seconds, flip switches for 2 and 8 to 'ON'.
4. Ensure all unused switches are in the 'OFF' position.

## 5. OPERATING INSTRUCTIONS

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Once installed and configured, the ELM715 timer operates automatically based on its programmed settings and external control signals.

- **Power On:** Upon applying power, the timer will initiate its internal sequence.
- **ON-Delay Function:** If configured for ON-delay, the output will activate only after the set ON-delay time has elapsed following the trigger signal.
- **OFF-Delay Function:** If configured for OFF-delay, the output will remain active for the set OFF-delay time after the trigger signal is removed.
- **Reversible Motor Control:** The timer's output and REV terminals are designed to control the direction of a reversible motor, typically found in oven applications for even heating or product movement. Consult your oven's specific wiring diagram for integration.

## 6. MAINTENANCE

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The Doyon ELM715 timer is designed for minimal maintenance. However, periodic checks can ensure optimal performance.

- **Cleaning:** Keep the timer free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.
- **Connection Check:** Periodically inspect all electrical connections to ensure they remain tight and free from corrosion.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges to prevent premature failure.

## 7. TROUBLESHOOTING

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If you encounter issues with your ELM715 timer, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Timer not activating	No power supply; Incorrect wiring; Faulty trigger signal.	Check power connections; Verify wiring against diagram; Test trigger signal source.
Incorrect timing	DIP switches set incorrectly.	Re-check DIP switch settings against desired time values.
Output not engaging/disengaging	Overload on output; Internal fault.	Verify load current does not exceed 1A rating; If problem persists, contact support.

If troubleshooting steps do not resolve the issue, contact Doyon customer support or a qualified service technician.

## 8. SPECIFICATIONS

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- **Model Number:** ELM715
- **Part Number (from label):** ARC9A-4521
- **Product Type:** Food Service Supply / Solid State Timer
- **ON Delay Range:** 1 - 1023 seconds
- **OFF Delay Range:** 1 - 1023 seconds
- **Input Voltage:** 120/240VAC
- **Output Rating:** 1A
- **Inrush Current:** 10A
- **Product Dimensions:** Approximately 5"D x 6"W x 9"H (Package dimensions: 5.0"L x 6.0"W x 9.0"H)
- **Item Weight:** 0.01 Ounces
- **UPC:** 046850126903
- **Manufacturer:** Doyon

## 9. WARRANTY AND SUPPORT

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For information regarding the warranty of your Doyon ELM715 Solid State Timer, please refer to the documentation provided at the time of purchase or contact Doyon directly through their official website or customer service channels. Keep your purchase receipt as proof of purchase.

For technical support, troubleshooting assistance beyond this manual, or spare parts inquiries, please contact Doyon customer service. When contacting support, have your model number (ELM715) and any relevant purchase details ready.