

## Intermatic MIL72ASTUZH-120

# Intermatic MIL72ASTUZH-120 24-Hour Electromechanical Time Control User Manual

Model: MIL72ASTUZH-120

## INTRODUCTION

The Intermatic MIL72ASTUZH-120 is a robust 24-hour electromechanical time control designed for precise scheduling of electrical circuits. This timer module is suitable for light-duty commercial applications, including lighting control, HVACR systems, pumps, motors, and general-purpose electrical circuits. It features a manual override function and can be mounted on a surface or DIN rail, making it versatile for various installations. This manual provides detailed instructions for the safe and effective use of your time control.

## SAFETY INFORMATION

**WARNING: Risk of Electric Shock. Disconnect power at the circuit breaker or fuse before installation or servicing. Installation must be performed by a qualified electrician in accordance with all local and national electrical codes.**

- Do not exceed the specified electrical ratings of the device.
- Ensure all wiring connections are secure and properly insulated.
- This device contains a non-replaceable Nickel Metal Hydride battery. Do not attempt to replace it.
- Keep the device away from moisture and extreme temperatures.

## PRODUCT OVERVIEW

The MIL72ASTUZH-120 timer features a 24-hour dial with adjustable ON/OFF trippers (pins) for setting precise schedules. The clear cover protects the dial and internal components while allowing visual inspection of the current time and program.



Figure 1: Front view of the Intermatic MIL72ASTUZH-120 timer. The image displays the white casing with a clear protective cover over the black 24-hour dial. The dial features white markings for hours (12, 6, 9) and smaller increments, along with 'am' and 'pm' indicators. The center of the dial shows the clock hands and the 'GRASSLIN' brand name at the bottom. The outer edge of the dial has numerous small white pins, which are used for setting the ON/OFF times.

### Key Components:

- **24-Hour Dial:** Displays the current time and allows for programming.

- **Time-Setting Hands:** Indicate the current time.
- **ON/OFF Trippers (Pins):** Small, movable pins around the dial used to set the desired ON and OFF times.
- **Manual Override Switch:** Allows temporary or permanent override of the programmed schedule.
- **Terminal Block:** For electrical connections (located internally, accessed during installation).

## SETUP AND INSTALLATION

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The MIL72ASTUZH-120 can be mounted on a surface or a DIN rail. Ensure the mounting location is dry, protected from direct sunlight, and within the specified operating temperature range.

### Installation Steps:

1. **Disconnect Power:** Before beginning any work, ensure that power to the circuit is completely disconnected at the main service panel (circuit breaker or fuse box). Verify with a voltage tester.
2. **Mounting:**
  - **Surface Mount:** Use appropriate screws to secure the timer to a flat, stable surface.
  - **DIN Rail Mount:** Snap the timer onto a standard 35mm DIN rail.
3. **Wiring:** Refer to the wiring diagram provided with the product packaging. Connect the 120 VAC power supply and the load wires to the appropriate terminals on the timer's terminal block. Ensure all connections are tight and secure.
4. **Close Cover:** Once wiring is complete and verified, securely close the protective cover of the timer.
5. **Restore Power:** Restore power to the circuit at the main service panel.

## OPERATING INSTRUCTIONS

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### 1. Setting the Current Time:

1. Rotate the 24-hour dial clockwise until the current time aligns with the small arrow or mark on the stationary part of the timer housing.
2. Ensure you distinguish between AM and PM hours (e.g., 3 PM is 15:00 on a 24-hour dial).

### 2. Programming ON/OFF Times:

The dial has small, movable trippers (pins) around its circumference. Each tripper represents a specific time interval.

- **To set an ON time:** Push an 'ON' tripper (typically a darker or larger pin) towards the center of the dial at the desired ON time.
- **To set an OFF time:** Push an 'OFF' tripper (typically a lighter or smaller pin) away from the center of the dial at the desired OFF time.
- Multiple ON/OFF cycles can be programmed within the 24-hour period.

### 3. Manual Override:

The timer includes a manual override switch, typically a small lever or button, that allows you to temporarily or permanently override the programmed schedule.

- Consult the specific markings on your timer for the override positions (e.g., 'ON', 'OFF', 'AUTO').
- Moving the switch to 'ON' will keep the load continuously on, regardless of the program.
- Moving the switch to 'OFF' will keep the load continuously off.
- Moving the switch to 'AUTO' or a similar position will return control to the programmed schedule.

## MAINTENANCE

The MIL72ASTUZH-120 is designed for minimal maintenance. Regular cleaning and periodic checks are recommended.

- **Cleaning:** Wipe the exterior of the timer with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure no liquids enter the device.
- **Inspection:** Periodically check the wiring connections for tightness and signs of wear or damage. Ensure the protective cover is securely closed.
- **Battery:** The internal Nickel Metal Hydride battery is non-replaceable and designed for the life of the unit. No user maintenance is required for the battery.

## TROUBLESHOOTING

If you experience issues with your MIL72ASTUZH-120 timer, consult the following table:

Problem	Possible Cause	Solution
Timer does not operate / Load does not turn ON/OFF	No power to the timer; Incorrect wiring; Manual override engaged; Trippers not set correctly.	Check circuit breaker/fuse; Verify wiring connections; Ensure manual override is in 'AUTO' position; Re-check ON/OFF tripper placement.
Timer runs but load does not activate	Load wiring issue; Load device malfunction; Manual override engaged.	Check load wiring; Test load device independently; Ensure manual override is in 'AUTO' position.
Timer makes unusual noise	Internal mechanical issue.	Disconnect power immediately. Contact a qualified electrician or Intermatic customer support. Do not attempt to repair.

## SPECIFICATIONS

Attribute	Detail
Model Number	MIL72ASTUZH-120
Voltage	120 VAC
Frequency	60 Hz
Timer Type	24-Hour Electromechanical
Mounting	Surface / DIN Rail
Material	Metal
Color	Nickel
Item Weight	8 ounces
Product Dimensions	5.75 x 3.25 x 3.25 inches
Internal Battery	Nickel Metal Hydride (Non-replaceable)

## WARRANTY AND SUPPORT

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For specific warranty information and technical support, please refer to the documentation included with your product at the time of purchase or visit the official Intermatic website. Keep your purchase receipt as proof of purchase for warranty claims.

For further assistance, you may contact Intermatic customer service directly. Contact details are typically available on the manufacturer's website or product packaging.