

## Intermatic MIL72ESTUZH-120

# Intermatic MIL72ESTUZH-120 24-Hour 120V Flush Mount Electromechanical Time Control Instruction Manual

Model: MIL72ESTUZH-120



## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Intermatic MIL72ESTUZH-120 24-Hour 120V Flush Mount Electromechanical Time Control. Please read this manual thoroughly before attempting to install or operate the device to ensure safe and correct usage.

## 2. SAFETY INFORMATION

**WARNING: Risk of Electric Shock. Disconnect power at the circuit breaker or fuse box before installation or servicing.**

- All wiring must conform to local and national electrical codes.
- Installation should be performed by a qualified electrician.
- Do not exceed the maximum electrical ratings of the device.
- Ensure proper grounding to prevent electrical hazards.
- Keep children away from electrical devices.

## 3. PRODUCT OVERVIEW

The Intermatic MIL72ESTUZH-120 is a robust 24-hour electromechanical timer module designed for flush or panel mounting within a control panel. It is suitable for light-duty commercial applications requiring precise time control for 120 VAC single-phase circuits. Common uses include lighting, HVACR systems, pumps, motors, and general electrical circuit management.



Image: Front view of the Intermatic MIL72ESTUZH-120 timer. The device features a clear protective cover over a black dial. The dial displays a 24-hour format with AM/PM indicators and minute markings. A central clock mechanism with hour and minute hands indicates the current time. The outer edge of the dial contains captive trippers for setting ON/OFF periods. A manual override switch is visible on the right side of the dial.

Key Features:

- **21 A SPDT Switch:** Provides reliable switching for various loads.
- **Synchronous Drive with Self-Recharging Battery Backup:** Ensures accurate timekeeping and operation during power outages.
- **Captive Trippers:** Allows for easy setting of 15-minute ON/OFF intervals.
- **Manual Override:** Provides flexibility to temporarily bypass programmed settings.
- **Flush Mount Design:** Integrates seamlessly into control panels.

4. SPECIFICATIONS

Specification	Detail
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Model Number	MIL72ESTUZH-120
Brand	Intermatic
Voltage	120V
Switch Type	SPDT (Single Pole Double Throw)
Amperage	21 A
Cycle	24-Hour
Mounting Type	Flush/Panel Mount
Battery Backup	Self-recharging Nickel Metal Hydride (non-replaceable)
Minimum ON/OFF Time	15 minutes (using captive trippers)
Material	Metal
Product Dimensions	30"D x 8"W x 6"H (Note: These dimensions appear to be for packaging or a larger assembly, actual timer module dimensions will be smaller for flush mounting.)
Item Weight	4 ounces

## 5. INSTALLATION

### Before You Begin:

- Ensure power is OFF at the main circuit breaker.
- Verify that the supply voltage matches the timer's rating (120V AC).
- Have appropriate tools ready (screwdriver, wire strippers, etc.).

### Mounting:

1. Select a suitable location within a control panel for flush mounting.
2. Cut an appropriate opening in the panel according to the timer's dimensions.
3. Insert the timer into the opening and secure it using the provided mounting hardware.

### Wiring:

Refer to the wiring diagram provided with the product packaging for specific connections. General wiring steps include:

1. Connect the incoming 120V AC line wire to the designated terminal.
2. Connect the neutral wire to the neutral terminal.
3. Connect the load wire(s) (e.g., to lights, motor) to the appropriate switched terminals (normally open or normally closed, depending on desired operation).
4. Ensure all connections are secure and insulated.

After wiring, restore power and proceed to initial setup.

## 6. OPERATION

### Setting Current Time:

1. Rotate the entire dial clockwise until the current time aligns with the time indicator arrow (usually a small triangle or line on the stationary part of the timer housing).
2. Ensure you distinguish between AM and PM hours on the 24-hour dial.

### Setting ON/OFF Programs:

The timer uses captive trippers around the dial to set program times. Each tripper represents a 15-minute interval.

1. To set an ON period, push the trippers outwards for the desired duration.
2. To set an OFF period, leave the trippers in their inward position for the desired duration.
3. The timer will activate the connected load when the dial rotates past an outward-pushed tripper and deactivate it when it rotates past an inward-pushed tripper.

### Manual Override:

The MIL72ESTUZH-120 features a manual override switch, typically a small lever or button, located on the timer face. This allows you to temporarily switch the load ON or OFF, overriding the programmed schedule without affecting future cycles.

- Move the override switch to the desired position (ON or OFF).
- The timer will resume its programmed schedule at the next scheduled ON or OFF event.

## 7. MAINTENANCE

The Intermatic MIL72ESTUZH-120 is designed for minimal maintenance.

- **Cleaning:** Periodically wipe the exterior of the timer with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Battery:** The unit contains a non-replaceable, self-recharging Nickel Metal Hydride battery for power outage carry-over. No user maintenance is required for the battery.
- **Inspection:** Annually inspect the timer for any signs of damage, loose connections, or unusual operation. If any issues are found, disconnect power and consult a qualified electrician.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Timer not running	No power to the timer; Motor failure	Check circuit breaker/fuse; Verify wiring connections; Contact support if motor is faulty.
Load not turning ON/OFF at programmed times	Incorrect time setting; Trippers not set correctly; Manual override engaged	Adjust current time; Ensure trippers are pushed in/out as desired; Check manual override switch position.
Manual override not working	Switch mechanism faulty; Internal wiring issue	Ensure switch is fully engaged; Contact support if issue persists.

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Timer making unusual noises	Internal mechanical issue	Disconnect power immediately; Contact support.
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## 9. WARRANTY AND SUPPORT

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

### **Intermatic Customer Support:**

- Website: [www.intermatic.com](http://www.intermatic.com)
- Contact information can typically be found in the 'Support' or 'Contact Us' section of their website.

