

## Intermatic T7402BC

# Intermatic T7402BC 7-Day Mechanical Time Switch Instruction Manual

## INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Intermatic T7402BC 7-Day Mechanical Time Switch. Please read all instructions carefully before installation and use to ensure safe and proper operation.

## IMPORTANT SAFETY INFORMATION

### **WARNING: Risk of Electrical Shock.**

Turn power OFF at the main panel before servicing this switch or the equipment it controls. Do not connect aluminum wires to switch terminals. This device is intended for indoor installations only.

## PRODUCT OVERVIEW

The Intermatic T7402BC is a 4PST (Four Pole Single Throw) 7-day mechanical time switch designed for controlling electrical loads with precise scheduling. It features a carryover mechanism that maintains timekeeping during power outages.



Figure 1: Front view of the Intermatic T7402BC Time Switch with the cover open, revealing the 7-day dial and terminal block.

Your browser does not support the video tag.

Video 1: An overview of the Intermatic T7000 Series 7-Day Mechanical Time Switch, demonstrating its features and basic operation.

## SETUP AND INSTALLATION

### Mounting

The T7402BC is designed for wall mount installation. Ensure the mounting location is suitable for indoor use and provides adequate space for wiring and access.

### Wiring

Before beginning any wiring, ensure that power is turned OFF at the main electrical panel. The unit supports input ranges of 120 VAC or 208-277 VAC. The terminal block is clearly labeled for Clock, Line 1, Load 1, Line 2, Load 2,

Line 3, Load 3, Line 4, and Load 4 connections. Do not remove the insulator until wiring is complete. Lift and swing the insulator to access terminals, then replace it after wiring.

**Caution:** Do not connect aluminum wires to switch terminals.

## OPERATING INSTRUCTIONS

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### Setting Current Day and Time

1. Gently turn the dial clockwise until the current day and time align with the 'TIME' indicator arrow. The dial is marked with days of the week (Sunday through Saturday) and 24-hour time (AM/PM).
2. Ensure the dial is not forced, as this may damage the mechanism.

### Programming ON/OFF Times

The time switch uses 'ON' (silver) and 'OFF' (golden) trippers to set the desired operating schedule. The unit includes 7 'ON' and 7 'OFF' trippers.

1. To set an 'ON' time, locate a silver tripper. Place it on the dial at the desired 'ON' time, ensuring it is securely seated in the groove.
2. To set an 'OFF' time, locate a golden tripper. Place it on the dial at the desired 'OFF' time, ensuring it is securely seated in the groove.
3. Each tripper represents a minimum of 3.5 hours of ON or OFF time. Multiple trippers can be used for more complex schedules.

### Manual Override

The time switch features a manual override lever located near the terminal block. This lever allows for temporary manual control of the connected loads, overriding the programmed schedule.

- To manually turn the loads ON, slide the lever to the 'ON' position.
- To manually turn the loads OFF, slide the lever to the 'OFF' position.
- To return to automatic operation, slide the lever to the 'AUTO' position (typically indicated by the center position or by aligning with the 'ON' or 'OFF' arrow depending on the current state).

## MAINTENANCE

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The Intermatic T7402BC is designed for reliable, long-term operation with minimal maintenance. Periodically inspect the unit for any signs of damage or loose connections. Ensure the enclosure remains closed to protect internal components.

### Carryover Feature

This model includes a carryover feature that automatically rewinds the clock mechanism when power resumes after an outage. For every two hours of power outage, the unit provides one hour of rewinding time, ensuring the time switch remains accurate even after prolonged power interruptions.

## TROUBLESHOOTING

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- **Device not operating:** Check the main power supply and ensure the circuit breaker is ON. Verify all wiring

connections are secure and correct according to the wiring diagram.

- **Loads not switching at programmed times:** Ensure the 'ON' and 'OFF' trippers are correctly placed and securely fastened on the dial. Confirm the current day and time are accurately set on the dial. Check the manual override lever is in the 'AUTO' position.
- **Inaccurate timekeeping:** If the time switch consistently loses or gains time, ensure the power supply is stable. The carryover mechanism should compensate for power outages; if not, inspect for mechanical obstruction.

For further assistance, contact Intermatic customer support.

## SPECIFICATIONS

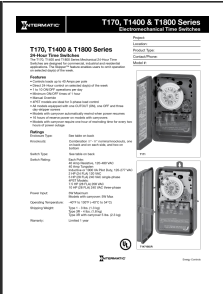
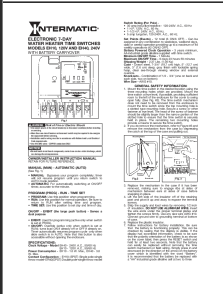
- **Model:** T7402BC
- **Switch Type:** 4PST (Four Pole Single Throw)
- **Voltage:** 208-277 VAC
- **Amperage:** 40 Amps
- **Minimum ON/OFF Time:** 3.5 hours
- **Material:** Steel
- **Product Dimensions:** 3.75"D x 9"W x 13.13"H
- **Item Weight:** 9.85 pounds
- **Enclosure:** Nema 1 Indoor Cover
- **Features:** 7-Day operation, Carryover mechanism
- **Certifications:** UL (Canada and US), CSA (Canada and US)
- **UPC:** 078275466227

## WARRANTY AND SUPPORT

For warranty details, please refer to the manufacturer's description or contact Intermatic directly. For technical support or inquiries, please visit the official Intermatic website or contact their customer service department.

**Manufacturer:** Intermatic Incorporated

### Related Documents - T7402BC

	<p><a href="#">Intermatic T170, T1400 &amp; T1800 Series Electromechanical Time Switches</a></p> <p>Comprehensive details on Intermatic T170, T1400, and T1800 Series 24-Hour Electromechanical Time Switches, covering features, specifications, ratings, model variations, and wiring diagrams for commercial, industrial, and residential applications.</p>
	<p><a href="#">Intermatic EH10/EH40 Electronic Water Heater Time Switch Manual</a></p> <p>This manual provides installation, programming, and safety information for the Intermatic EH10 (120V) and EH40 (240V) electronic 7-day water heater time switches with battery carryover.</p>

<div data-bbox="223 120 295 138" data-label="Image"></div> <div data-bbox="129 185 245 203" data-label="Text"><p>Instruction Manual</p></div> <div data-bbox="129 282 295 383" data-label="Image"></div> <div data-bbox="188 421 300 436" data-label="Caption"><p>50 memories time switch</p></div>	<div data-bbox="341 212 1054 239" data-label="Section-Header"><p><a href="#">Intermatic GMXFM1 Electronic Time Switch Instruction Manual</a></p></div> <div data-bbox="341 253 1455 360" data-label="Text"><p>Instruction manual for the Intermatic GMXFM1 electronic time switch, covering safety precautions, symbols, initial setup, programming, time settings, daylight saving adjustments, operating modes, and warranty information.</p></div>
<div data-bbox="129 528 300 734" data-label="Image"></div>	<div data-bbox="341 573 1469 600" data-label="Section-Header"><p><a href="#">Intermatic ET2745 Time Switch: Installation &amp; Setup Guide for 4-Circuit 365/7-Day Electronic Timer</a></p></div> <div data-bbox="341 613 1447 721" data-label="Text"><p>Detailed installation and setup instructions for the Intermatic ET2745 series 4-Circuit Electronic 365/7-Day Time Switch, covering configuration, programming, and troubleshooting for automated load control.</p></div>
<div data-bbox="129 819 300 1025" data-label="Image"></div>	<div data-bbox="341 864 1305 891" data-label="Section-Header"><p><a href="#">Intermatic ET2705 Series Electronic 7-Day Time Switch Installation and Setup Guide</a></p></div> <div data-bbox="341 904 1460 1012" data-label="Text"><p>Comprehensive installation, setup, and programming guide for the Intermatic ET2705, ET2705CR, and ET2705CP Electronic 1-Circuit 7-Day Time Switches. Covers wiring, initial setup, scheduling, DST configuration, USB data transfer, and troubleshooting.</p></div>
<div data-bbox="129 1111 300 1317" data-label="Image"></div>	<div data-bbox="341 1254 1469 1321" data-label="Section-Header"><p><a href="#">Intermatic ET2805C/CR/CP Electronic 1-Circuit Astronomic 7-Day Time Switch Installation &amp; Setup Guide</a></p></div> <div data-bbox="341 1335 1466 1442" data-label="Text"><p>Detailed installation and setup manual for Intermatic ET2805C, ET2805CR, ET2805CP astronomic 7-day time switches. Covers programming, scheduling, DST, and operational features for automated load control.</p></div>