

Intermatic T101P

Intermatic T101P Mechanical Timer Switch User Manual

Model: T101P

1. INTRODUCTION

The Intermatic T101P ON/Off T100 Series Mechanical Timer Switch is a dependable device designed to control electrical loads up to 40 Amperes. It allows for scheduled ON/OFF operations over a 24-hour period, offering convenience and energy management for various applications. This manual provides essential information for the safe installation, operation, and maintenance of your timer switch.

2. SAFETY INFORMATION

Please read and understand all instructions before installing or operating this device. Failure to follow these instructions may result in electrical shock, fire, or serious injury.

- **WARNING:** Disconnect power at the main circuit breaker or fuse box before installing or servicing the timer switch.
- Installation should be performed by a qualified electrician in accordance with all national and local electrical codes.
- Do not connect aluminum wires directly to the switch terminals. Use appropriate copper-to-aluminum connectors if necessary.
- Ensure the timer switch is installed in a suitable NEMA 3R enclosure for outdoor or damp locations.
- Verify that the voltage and current ratings of the timer switch match your application requirements.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Intermatic T101P Mechanical Timer Switch
- Instruction Manual (this document)
- Mounting hardware (if included with specific packaging)

4. PRODUCT FEATURES

- **24-Hour Operation:** Provides up to 12 ON/OFF operations per day.
- **High Capacity:** Handles electrical loads up to 40 Amperes per pole.
- **Manual Override:** Features a convenient manual lever for temporary ON/OFF control without affecting programmed settings.
- **Durable Enclosure:** NEMA 3R rated plastic enclosure suitable for indoor and outdoor use.
- **Versatile Applications:** Ideal for lighting, signs, filters, electric fences, fans, conveyors, pool heaters, blowers, and pumps.

5. INSTALLATION

Follow these steps for proper installation of the Intermatic T101P timer switch:

1. **Power Disconnection:** Turn OFF power at the main service panel before beginning any wiring. Ensure the circuit is de-energized using a voltage tester.
2. **Mounting:** Select a suitable location for the timer switch. Mount the enclosure securely using appropriate screws and anchors.
3. **Wiring:** Refer to the wiring diagram inside the timer switch enclosure and the image below. Connect the incoming power (LINE) and outgoing load (LOAD) wires to the designated terminals.



Figure 1: Internal view of the Intermatic T101P timer switch, showing the dial, manual lever, and wiring terminals. Note the 'OFF' and 'ON' positions for the manual lever, and the 'LINE' and 'LOAD' connections.

- **Important Wiring Notes:**

- Observe the warning: **DO NOT REMOVE THIS INSULATOR.** This component is crucial for safety and proper operation. Wire, lift, and swing the insulator as needed, then replace it after wiring.
- **DO NOT CONNECT ALUMINUM WIRES TO SWITCH TERMINALS.** Use only copper conductors or approved copper-to-aluminum connectors.

- **Close Enclosure:** Once wiring is complete and verified, securely close the timer switch enclosure.
- **Restore Power:** Restore power at the main service panel.

6. OPERATION

The T101P timer switch features a 24-hour dial for setting automatic ON/OFF times and a manual override lever.



Figure 2: Internal view of the Intermatic T101P timer switch, showing the yellow dial and the protective insulator covering the wiring terminals.

6.1 Setting Automatic ON/OFF Times

1. **Set Current Time:** Rotate the yellow dial clockwise until the current time of day aligns with the time arrow indicator.
2. **Install ON/OFF Trippers:** The timer comes with ON (green) and OFF (red) trippers. Slide these trippers onto the dial at the desired ON and OFF times. Ensure they are securely fastened. The minimum ON/OFF time is 1 hour.
3. **Verify Operation:** The timer will now automatically turn the connected device ON and OFF according to the set schedule.

6.2 Using the Manual Override Lever

The manual override lever allows you to temporarily switch the connected device ON or OFF without disturbing the programmed schedule.

- To manually turn the device ON, push the lever to the 'ON' position.
- To manually turn the device OFF, push the lever to the 'OFF' position.
- The timer will resume its programmed schedule at the next scheduled ON or OFF event.

7. MAINTENANCE

The Intermatic T101P is designed for minimal maintenance. Periodically inspect the unit for any signs of damage or loose connections. Ensure the enclosure is free from debris and moisture. No user-serviceable parts are inside; refer servicing to qualified personnel.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Timer does not operate.	No power to the unit. Incorrect wiring.	Check circuit breaker/fuse. Verify wiring connections are secure and correct.
Device does not turn ON/OFF at programmed times.	Trippers incorrectly set. Current time not set correctly. Manual override engaged.	Ensure trippers are firmly in place at desired times. Adjust the dial to the correct current time. Check if the manual override lever is in the neutral position.
Timer makes unusual noise.	Internal mechanical issue.	Disconnect power immediately. Contact a qualified electrician or Intermatic customer support. Do not attempt to repair.

9. SPECIFICATIONS

Specification	Value
Type	24 Hour Mechanical Timer
Maximum Number of Operations	12 per Day
Minimum ON/OFF Time	1 Hour
Switch Type	SPST (Single Pole Single Throw)
Current Rating (Resistive/Inductive/Tungsten)	40 Amp
Current Rating (Ballast)	16 Amp at 277 Volt AC
Current Rating (Motor, Full Load)	24 Amp at 120 Volt AC, 28 Amp at 240 Volt AC
Voltage Rating	120 Volt AC at 60 Hertz
Power Rating (Motor)	2 HP at 120 Volt AC, 5 HP at 240 Volt AC
Power Rating (Pilot Duty)	1000 Volt Amp
Power Rating (Input)	3 Watt
Operating Temperature	-40 to 130 Deg F
Enclosure	NEMA 3R
Material	Plastic
Dimensions (W x D x H)	6.5 Inch x 4 Inch x 10 Inch
Color	Beige
Item Weight	1.29 Pounds
Approvals	UL (Canada and US), CSA (Canada and US)

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the official Intermatic website or contact their customer service department. Keep your purchase receipt as proof of purchase.

Related Documents - T101P

	<p>Intermatic P1121 RAINLIGHT OUTDOOR TIMER - User Guide and Safety Instructions</p> <p>User guide and safety instructions for the Intermatic P1121 RAINLIGHT OUTDOOR TIMER. Learn how to set the timer, understand its features, and follow essential electrical safety precautions for outdoor use.</p>
	<p>Intermatic E-1010 24-Hour In-Wall Timer Installation and Operation Guide</p> <p>Detailed instructions for installing and operating the Intermatic E-1010 24-hour automatic in-wall timer. Covers wiring, manual operation, automatic settings, and warranty information for residential use.</p>
	<p>Intermatic HB31R RAINLIGHT OUTDOOR TIMER User Guide</p> <p>User guide and instructions for the Intermatic HB31R RAINLIGHT OUTDOOR TIMER. Learn how to set the timer, operate it for early on/off, and understand important safety warnings and specifications.</p>
	<p>Intermatic P1121 RAINLIGHT OUTDOOR TIMER - Setup and Safety Instructions</p> <p>Learn how to set up and safely operate the Intermatic P1121 RAINLIGHT OUTDOOR TIMER. This guide covers programming, early operation, power failure reset, and essential electrical safety warnings for outdoor use.</p>
	<p>How to Operate and Set Intermatic T100 Series Timers</p> <p>A comprehensive guide to operating and setting Intermatic T100 series mechanical timers, including models T101, T103, T104, T105, and T106. Learn about timer specifications, safety precautions, setting ON/OFF trippers, using manual override, and finding resources for troubleshooting and replacement parts.</p>
	<p>Intermatic E-1020 24-Hour Automatic In-Wall Timer: Installation and Operation Guide</p> <p>Comprehensive guide for installing and operating the Intermatic E-1020 24-hour automatic in-wall multiple program timer. Includes step-by-step instructions, wiring diagrams, and warranty details.</p>

