

Intermatic T101R201

Intermatic T101R201 Time Switch User Manual

Model: T101R201 | Brand: Intermatic

1. INTRODUCTION

The Intermatic T101R201 Time Switch is a heavy-duty mechanical timer designed for precise control of electrical loads in commercial, industrial, and residential applications. This robust device provides reliable scheduling with up to 12 ON/OFF operations per day, each with a minimum duration of 1 hour. It is equipped with both ON and OFF trippers for flexible programming and is housed in a durable enclosure suitable for indoor and outdoor use. This manual provides essential information for the safe installation, operation, and maintenance of your time switch.

2. SAFETY INFORMATION

WARNING: Risk of electrical shock. This device should be installed and serviced by a qualified electrician in accordance with all national and local electrical codes. Failure to follow these instructions could result in serious injury or death.

- Always disconnect power at the circuit breaker or fuse box before installing or servicing the time switch.
- Ensure all wiring connections are secure and properly insulated.
- Do not exceed the maximum electrical ratings of the device.
- Keep the enclosure door closed and secured to protect internal components from environmental factors.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

3. PRODUCT FEATURES

- Time switch in metal enclosure with heater protection.
- SPST (Single-Pole, Single-Throw) Switch configuration.
- 120V Clock Supply-Volt.
- Designed for commercial, industrial, and residential applications.
- Highest motor load ratings in the industry.
- Equipped with ON and OFF trippers for daily programming.

- Provides up to 12 ON/OFF operations each day.
- Minimum ON/OFF time of 1 hour.

4. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Intermatic T101R201 Time Switch Unit
- ON Trippers (pre-installed or included)
- OFF Trippers (pre-installed or included)
- Installation Hardware (screws, anchors, etc. - may vary)
- Instruction Manual (this document)



Figure 4.1: Time Switch with cover open, revealing the timer dial, electrical components, and internal wiring diagram on the inside of the cover.



Figure 4.2: Time Switch with its protective metal cover closed, ready for installation.



Figure 4.3: Example of common installation accessories that may be included or required, such as flexible conduit, cable ties, and mounting clips.

5. INSTALLATION AND WIRING

IMPORTANT: Installation must be performed by a qualified electrician. Refer to the wiring diagram located inside the time switch cover for specific connection details. Ensure all local and national electrical codes are strictly followed.

1. **Power Disconnection:** Turn OFF power to the circuit at the main service panel before beginning any work. Verify power is off using a voltage tester.
2. **Mounting:** Select a suitable location for the time switch, ensuring it is accessible for programming and maintenance, and protected from direct weather if not rated for outdoor exposure. Securely mount the enclosure using appropriate hardware.
3. **Wiring:**
 - Open the time switch enclosure.
 - Connect the incoming power supply wires to the designated terminals (typically LINE 1 and LINE 2 or L and N for 120V).
 - Connect the load wires (to the appliance or lighting fixture) to the LOAD terminals.
 - Ensure proper grounding by connecting the ground wire to the designated ground terminal.
 - Double-check all connections for tightness and correct polarity.
4. **Close Enclosure:** Once wiring is complete and verified, close and secure the enclosure door.
5. **Restore Power:** Turn ON power at the main service panel.

6. OPERATION AND PROGRAMMING

The T101R201 time switch uses a mechanical dial and trippers for programming ON/OFF cycles.

6.1 Setting the Current Time

1. Locate the small knob or arrow on the center of the dial.
2. Rotate the entire dial clockwise until the current time aligns with the time arrow indicator.

6.2 Programming ON/OFF Cycles

The time switch comes with ON (green) and OFF (red) trippers. Each tripper represents a 1-hour interval.

1. **To set an ON time:** Insert a green ON tripper into the desired time slot on the outer edge of the dial.
2. **To set an OFF time:** Insert a red OFF tripper into the desired time slot on the outer edge of the dial.
3. Ensure there is at least one hour between an ON and OFF tripper for proper operation.

4. You can program up to 12 ON/OFF cycles per 24-hour period.

6.3 Manual Override

A manual override lever or switch is typically present to temporarily turn the connected load ON or OFF without affecting the programmed schedule. Consult the specific markings on your unit for manual operation.

7. MAINTENANCE

The Intermatic T101R201 Time Switch is designed for minimal maintenance. However, periodic checks can ensure long-term reliable operation:

- **Cleaning:** Keep the exterior of the enclosure clean and free of dust and debris. Use a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the enclosure for any signs of damage, corrosion, or loose connections. Ensure the door seal is intact.
- **Tripper Check:** Verify that the ON and OFF trippers are securely in place and have not shifted.
- **Professional Service:** Any internal repairs or complex troubleshooting should only be performed by a qualified electrician.

8. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|---|--|--|
| Time switch not operating (no clock movement) | No power to the unit; internal motor failure. | Check circuit breaker/fuse. Verify wiring connections. If power is present, unit may require replacement. |
| Load not turning ON/OFF at programmed times | Incorrect tripper placement; trippers loose; manual override engaged; faulty load. | Verify tripper positions and ensure they are securely snapped in. Check manual override switch. Test the connected load independently. |
| Clock runs fast or slow | Internal mechanism issue. | The unit may require replacement. Contact a qualified electrician. |
| Enclosure door not closing properly | Obstruction; damaged hinge/latch. | Clear any obstructions. Inspect hinges and latches for damage. |

For issues not listed above or if solutions do not resolve the problem, contact a qualified electrician or Intermatic customer support.

9. SPECIFICATIONS

| | |
|--------------|----------------------------------|
| Model Number | T101R201 |
| Brand | Intermatic |
| Switch Type | SPST (Single-Pole, Single-Throw) |
| Voltage | 120 V (Clock Supply) |

| | |
|---------------------------------------|------------------------|
| Material | Metal Enclosure |
| Color | White (Enclosure) |
| Product Dimensions (D x W x H) | 11.02" x 2.36" x 2.36" |
| Item Weight | 3.4 Pounds |
| Max ON/OFF Operations per Day | 12 |
| Minimum ON/OFF Time | 1 Hour |
| Heater Protection Circuit | 10-Amps, 240-Volt max |
| UPC | 078275000063 |

10. WARRANTY AND SUPPORT

Intermatic products are manufactured to high quality standards. For specific warranty information, please refer to the warranty card included with your product or visit the official Intermatic website. Keep your proof of purchase for warranty claims.

For technical support or further assistance, please contact Intermatic Customer Service. Contact details can typically be found on the manufacturer's website or on the product packaging.

Online Resources: www.intermatic.com