

Intermatic T104R201

Intermatic T104R201 Heavy-Duty Time Switch

Instruction Manual

INTRODUCTION

The Intermatic T104R201 is a heavy-duty mechanical time switch designed for precise scheduling in commercial, industrial, and residential applications. This device offers robust performance with high motor load ratings, making it suitable for controlling pumps, lighting systems, heaters, and other electrical devices. It provides up to 12 ON/OFF operations daily, with a minimum ON/OFF time of 1 hour, and includes both ON and OFF trippers for customizable programming. This model operates at 208-277 Volts and features a Double-Pole, Single-Throw (DPST) configuration.

IMPORTANT SAFETY INFORMATION

WARNING: Risk of electric shock. This product must be installed by a qualified electrician in accordance with all national and local electrical codes. Disconnect power at the circuit breaker or fuse box before installing or servicing. Failure to follow these instructions could result in serious injury or death.

- Always ensure the power supply is disconnected before any installation, maintenance, or repair work.
- Verify that the voltage and current ratings of the time switch match the application requirements.
- Do not install in locations where flammable vapors or gases are present.
- Ensure proper grounding to prevent electrical hazards.
- Keep the enclosure door closed and secured after installation to protect internal components.

PRODUCT OVERVIEW

The Intermatic T104R201 time switch is designed for durability and ease of use. It features a robust mechanical mechanism for reliable daily scheduling. The unit is typically housed in a metal enclosure suitable for both indoor and outdoor installations, providing protection against environmental elements.



Image: The Intermatic T104R201 Heavy-Duty Time Switch, showing the complete unit within its protective metal enclosure.

Key Features:

- **Heavy-Duty Performance:** Engineered for high motor load ratings, ensuring reliability for various applications.
- **Precise Scheduling:** Offers up to 12 daily ON/OFF operations with a minimum 1-hour setting for versatile programming.
- **Easy Installation:** Equipped with teeter-type terminals for simplified multiple load connections.
- **Durable Enclosure:** Available in metal enclosures suitable for both indoor and outdoor environments.
- **Heater Protection Circuit:** Includes a 10-Amp, 240-Volt max heater protection circuit.

SETUP AND INSTALLATION

Installation of the Intermatic T104R201 time switch requires careful attention to electrical safety and local codes. It is strongly recommended that installation be performed by a licensed electrician.

Installation Steps:

1. **Power Disconnection:** Before beginning any work, ensure that power to the circuit where the time switch will be installed is completely disconnected at the main service panel. Use a voltage tester to confirm the circuit is de-energized.
2. **Mounting the Enclosure:** Select a suitable mounting location. The metal enclosure is designed for both indoor and outdoor use. Securely mount the enclosure to a rigid surface using appropriate fasteners.
3. **Wiring Connections:** Open the enclosure door. The T104R201 features teeter-type terminals for wiring. Refer to the wiring diagram provided inside the enclosure or on the product documentation for correct connections. Connect the incoming power supply (LINE) and the outgoing load wires (LOAD) to the designated terminals. Ensure all connections are tight and secure. This model is a 208-277V DPST switch, meaning it controls two separate hot lines.
4. **Grounding:** Connect the ground wire from the electrical system to the designated ground terminal within the enclosure.
5. **Close Enclosure:** Once all wiring is complete and verified, close and secure the enclosure door.
6. **Restore Power:** Restore power at the main service panel.



Image: Internal view of the T104R201 mechanism, highlighting the time dial and the ON/OFF trippers for setting schedules.

OPERATING INSTRUCTIONS

The T104R201 time switch is a mechanical device that uses a rotating dial and trippers to control ON/OFF cycles.

Setting the Time of Day:

1. Locate the time dial on the front of the mechanism.
2. Rotate the dial clockwise until the current time of day aligns with the stationary arrow or mark on the mechanism. Ensure to distinguish between AM and PM hours if applicable (often indicated by shading on the dial).

Setting ON/OFF Operations:

The time switch comes with ON (green) and OFF (red) trippers. These trippers are inserted into the slots around the perimeter of the time dial.

1. **Install Trippers:** Insert the desired number of ON and OFF trippers into the slots on the time dial corresponding to your desired schedule. The minimum ON/OFF time is 1 hour.
2. **Adjust Tripper Position:** Position the ON tripper at the time you want the connected device to turn ON, and the OFF tripper at the time you want it to turn OFF. Ensure the trippers are securely seated in their slots.
3. **Manual Override:** The time switch typically includes a manual override lever or button. This allows you to temporarily turn the connected device ON or OFF without affecting the programmed schedule. The timer will resume its normal schedule at the next programmed ON or OFF event.

MAINTENANCE

The Intermatic T104R201 time switch is designed for minimal maintenance. Regular inspection can help ensure its

longevity and proper function.

- **Periodic Inspection:** Annually inspect the time switch for any signs of physical damage, loose wiring connections, or corrosion.
- **Cleanliness:** Keep the enclosure clean and free from dust, dirt, and debris. Use a dry cloth for cleaning. Do not use liquid cleaners directly on the unit.
- **Tripper Check:** Ensure that the ON and OFF trippers are securely in place and not damaged. Replace any worn or broken trippers.
- **Professional Service:** If any internal components appear damaged or if the unit is not functioning correctly, contact a qualified electrician for service. Do not attempt to repair internal components yourself.

TROUBLESHOOTING

If your Intermatic T104R201 time switch is not operating as expected, refer to the following common issues and solutions:

| Problem | Possible Cause | Solution |
|--|---|--|
| Device does not turn ON/OFF at programmed times. | Incorrect time setting; Trippers not set correctly; Loose wiring; Power supply issue. | Verify current time is set accurately on the dial. Check that ON/OFF trippers are securely installed at the correct times. Inspect wiring connections for tightness (with power off). Check circuit breaker. |
| Time switch motor is not running. | No power to the unit; Faulty motor. | Ensure power is supplied to the time switch. If power is present and the motor is still not running, the motor may need replacement by a qualified technician. |
| Manual override does not work. | Damaged override mechanism. | Contact a qualified electrician for inspection and repair or replacement. |
| Enclosure door does not close properly. | Obstruction; Damaged hinges/latch. | Check for any obstructions. If hinges or latch are damaged, the enclosure may need repair or replacement to maintain weather protection. |

If troubleshooting steps do not resolve the issue, contact Intermatic customer support or a qualified electrician.

SPECIFICATIONS

| Specification | Detail |
|---------------------|------------------------------------|
| Model Number | T104R201 |
| Voltage | 208-277 V |
| Switch Type | DPST (Double-Pole, Single-Throw) |
| Operations | Up to 12 ON/OFF operations per day |
| Minimum ON/OFF Time | 1 hour |
| Enclosure Material | Metal |
| Item Weight | 3.5 Pounds |
| Included Components | Intermatic T104R201 Time Switch |

WARRANTY INFORMATION

The Intermatic T104R201 Time Switch comes with a **1-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. For specific terms and conditions, or to make a warranty claim, please refer to the official warranty documentation included with your product or visit the Intermatic website.

SUPPORT AND CONTACT INFORMATION

For technical assistance, product inquiries, or support, please contact Intermatic customer service. You can typically find contact details on the official Intermatic website or within the product packaging.

Online Resources: For additional information, FAQs, and updated documentation, visit the official [Intermatic Store on Amazon](#) or the main Intermatic corporate website.

