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Intermatic Intermatic - T101R

Intermatic T101R 24-Hour Mechanical Timer Switch User Manual

Model: T101R | Brand: Intermatic

PRODUCT OVERVIEW

The Intermatic T101R 24-Hour Mechanical Timer Switch is designed for industrial, commercial, and residential applications. It offers robust control for heavy-duty loads up to 40 amps at 120V, making it suitable for lights, pumps, fans, and HVAC systems. This mechanical timer provides reliable, analog-based 24-hour control with programmable ON/OFF operations.



Figure 1: Internal view of the Intermatic T101R timer switch, displaying the yellow 24-hour dial and the manual override lever.



Figure 2: External view of the Intermatic T101R timer switch, highlighting its durable gray metal enclosure.

Key Features:

- **Single Pole, Single Throw (SPST):** Built to control heavy-duty 40 Amp loads at 120V, including resistive, inductive, tungsten, and motor loads up to 2 HP.
- **24-Hour Mechanical Scheduling:** Provides consistent analog-based 24-hour control with up to 12 programmable ON/OFF operations per day.
- **Durable Indoor/Outdoor Enclosure:** Type 3R gray metal enclosure protects against weather and dust, suitable for various environments.
- **Programmable with Included Trippers:** Ships with one ON and one OFF tripper; expandable to 12 cycles/day with 1-hour minimum intervals.
- **Versatile Applications & Certified Safe:** Compatible with LED and HID lighting systems, approved for green energy setups; UL and CSA listed.

SETUP AND INSTALLATION

Installation of the Intermatic T101R timer switch should be performed by a qualified electrician or an individual with strong electrical skills. Ensure all power is turned off at the main panel before beginning any installation work to prevent electric shock.

Mounting the Enclosure:

1. Select a suitable indoor or outdoor location for mounting, ensuring it is protected from direct water exposure if possible, despite its Type 3R rating.
2. Securely mount the metal enclosure to a flat, stable surface using appropriate fasteners.

Wiring Instructions:

- **WARNING: Risk of Fire or Electric 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.
- Refer to the wiring diagram located inside the timer's cover for specific connections. The timer is designed for 120V SPST applications.
- Connect the incoming power (LINE) and outgoing load (LOAD) wires to the designated terminals. Ensure proper grounding.
- Ensure all connections are tight and secure.



Figure 3: The Intermatic T101R is certified by CSA and UL, and is compatible with LED lighting systems.

OPERATING INSTRUCTIONS

Setting the Time:

1. Open the timer enclosure door.
2. Gently pull the yellow 24-hour dial outwards. This disengages the dial from the clock mechanism, allowing it to be turned freely.
3. Rotate the dial clockwise until the current time aligns with the "TIME NOW" arrow located at the top of the dial.
4. Push the dial back in to re-engage the clock mechanism.

Programming ON/OFF Times:

- The timer comes with one green "ON" tripper and one red "OFF" tripper. These are small pins that attach to the outer edge of the yellow dial.
- To set an ON time, slide the green "ON" tripper onto the dial at the desired hour.
- To set an OFF time, slide the red "OFF" tripper onto the dial at the desired hour.
- Additional trippers can be purchased separately to program up to 12 ON/OFF cycles per day. The minimum interval between ON and OFF times is 1 hour.

Manual Override:

The timer features a manual override lever located below the yellow dial. This lever allows you to temporarily turn the connected equipment ON or OFF, bypassing the programmed schedule. Simply slide the lever to the "ON" or "OFF" position as needed. The timer will resume its programmed schedule at the next scheduled ON or OFF event.

MAINTENANCE

The Intermatic T101R is a robust mechanical timer designed for long-lasting operation with minimal maintenance. However, periodic checks can help ensure its continued reliability:

- **Regular Cleaning:** Periodically wipe down the exterior of the enclosure to remove dust and debris. Ensure the door seal is free of obstructions to maintain its weather-tight integrity.
- **Inspect Trippers:** Occasionally check that the ON and OFF trippers are securely in place on the dial and have not shifted.
- **Check Connections:** If the timer is exposed to vibrations or extreme conditions, it is advisable to periodically check the electrical connections inside the enclosure to ensure they remain tight. Always turn off power at the main panel before inspecting connections.
- **Environmental Considerations:** While the Type 3R enclosure offers protection, avoid mounting the timer in locations prone to excessive direct water spray or submersion.

TROUBLESHOOTING

If you encounter issues with your Intermatic T101R timer switch, consider the following common troubleshooting steps:

- **Timer Not Keeping Accurate Time:**
 - Verify that the yellow dial is fully pushed in after setting the time. If it's not engaged, the clock mechanism will not advance.
 - Check for power interruptions. Mechanical timers do not have battery backup and will stop during power outages. Reset the time after any power interruption.
 - Ensure the clock motor is functioning. If the dial is not moving at all, the motor may be faulty.
- **Equipment Not Turning ON/OFF at Programmed Times:**
 - Confirm that the ON and OFF trippers are correctly positioned on the dial at the desired times.
 - Check the manual override lever. Ensure it is not set to a position that overrides the programmed schedule.
 - Verify that the timer is receiving power and that the connected equipment is functioning correctly when manually operated.
- **No Power to Connected Equipment:**
 - Check the circuit breaker supplying power to the timer.
 - Ensure all wiring connections inside the timer enclosure are secure. **(WARNING: Turn off power before checking connections.)**

If issues persist after attempting these steps, it is recommended to consult a qualified electrician or contact Intermatic customer support.

SPECIFICATIONS

Attribute	Detail
Brand	Intermatic
Model Number	T101R
Voltage	120 V SPST
Amperage	40 Amp
Enclosure Type	Type 3R Indoor/Outdoor Metal Enclosure
Number of Settings	Up to 12 ON/OFF operations per day
Minimum ON/OFF Time	1 hour
Product Dimensions	3.62"D x 5.5"W x 9.38"H
Item Weight	3.38 pounds
Material	Plastic (internal components), Metal (enclosure)
Certifications	UL (Canada and US), CSA (Canada and US)
Compatible Bulb Type	LED

WARRANTY INFORMATION

The Intermatic T101R Mechanical Timer Switch comes with a **1-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service. For detailed warranty terms and conditions, please refer to the official Intermatic documentation or contact Intermatic customer support.

SUPPORT AND ADDITIONAL RESOURCES

For further assistance, detailed wiring diagrams, or specific technical questions, please refer to the official user manual provided by Intermatic.

- **Official User Manual (PDF):** [Download User Manual](#)
- **Instructions for Use (IFU) (PDF):** [Download IFU](#)
- **Intermatic Official Website:** Visit the [Intermatic Store on Amazon](#) for more products and information.

