

Intermatic T104R3

Intermatic T104R3 Metal Time Clock User Manual

Model: T104R3



INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Intermatic T104R3 Metal Time Clock. Please read this manual thoroughly before attempting to install or operate the device to ensure safe and efficient use.

The Intermatic T104R3 is a robust 24-hour, 230V, Double-Pole Single-Throw (DPST) time clock designed for various applications requiring scheduled ON/OFF control of electrical loads. It comes enclosed in a durable metal case for protection.

SAFETY INFORMATION

WARNING: Risk of Electric Shock. Disconnect power at the circuit breaker or fuse box before installation or servicing. Installation should be performed by a qualified electrician in accordance with all local and national electrical codes.

- Always ensure power is OFF before working on the timer or connected circuits.
- Do not exceed the electrical ratings of the timer.
- This device is intended for permanent installation.
- Ensure all connections are secure and properly insulated.
- Do not use this device in wet locations unless specifically rated for such use and installed in a weatherproof enclosure.

PACKAGE CONTENTS

- Intermatic T104R3 Metal Time Clock
- Instruction Manual (this document)
- Mounting hardware (screws, anchors - typically included)

SETUP AND INSTALLATION

The Intermatic T104R3 is designed for easy installation, but proper electrical knowledge is essential. If you are unsure, consult a qualified electrician.

1. Mounting the Time Clock

1. Choose a suitable location for mounting the time clock. It should be easily accessible, protected from direct weather (unless installed in a weatherproof enclosure), and close to the electrical circuit it will control.
2. Open the metal case by unlatching the cover.
3. Using the mounting holes on the back of the enclosure, mark the desired drilling locations on the wall or mounting surface.
4. Drill pilot holes and secure the enclosure using appropriate screws and anchors. Ensure the enclosure is level and securely fastened.

2. Wiring Instructions

IMPORTANT: Ensure power is OFF at the main circuit breaker before proceeding with any wiring.



Figure 1: Internal view of the Intermatic T104R3 showing the timer mechanism and wiring terminals. Note the "LINE" and "LOAD" connections, and the manual override switch.

1. Locate the wiring terminals inside the time clock. You will typically find terminals labeled "LINE" (for incoming power) and "LOAD" (for outgoing power to the device being controlled). For the T104R3, which is DPST, there will be two "LINE" terminals and two "LOAD" terminals.
2. Connect the incoming 230V power supply wires to the "LINE" terminals. Ensure proper polarity if applicable (L1 to L1, L2 to L2).
3. Connect the wires leading to the electrical load (e.g., pump, lighting) to the "LOAD" terminals.
4. Ensure all wire connections are tight and secure. Use appropriate wire gauges for the current draw.
5. After wiring, carefully close the metal case, ensuring no wires are pinched.

OPERATING INSTRUCTIONS

Once installed and wired, the Intermatic T104R3 is ready for programming.

1. Setting the Current Time

1. Restore power to the time clock at the circuit breaker.
2. Rotate the large yellow dial clockwise until the current time of day aligns with the "TIME" arrow or indicator on the timer mechanism. The dial represents a 24-hour cycle.

2. Programming ON/OFF Cycles

The T104R3 uses "trippers" or "pins" on the dial to set ON and OFF times. It has 3 settings, implying it can handle multiple ON/OFF cycles.

- **ON Trippers:** These are typically green or silver and are inserted into the dial at the desired time for the connected device to turn ON.
- **OFF Trippers:** These are typically red or black and are inserted into the dial at the desired time for the connected device to turn OFF.

1. Insert the ON tripper into the slot on the dial corresponding to the desired ON time.
2. Insert the OFF tripper into the slot on the dial corresponding to the desired OFF time.
3. You can set multiple ON/OFF cycles throughout the 24-hour period by adding more trippers. Ensure there is at least one ON and one OFF tripper for each cycle.

3. Manual Override

The T104R3 typically includes a manual override switch (often a lever or button) that allows you to temporarily turn the connected device ON or OFF without affecting the programmed schedule. Locate the "MANUAL" switch on the timer mechanism. Moving it to "ON" or "OFF" will override the current program until the next programmed event occurs.

MAINTENANCE

The Intermatic T104R3 is designed for long-term, reliable operation with minimal maintenance.

- **Periodic Inspection:** Annually inspect the time clock for any signs of wear, damage, or loose connections. Ensure the enclosure is free from dust, debris, or moisture.
- **Cleaning:** If necessary, gently wipe the exterior of the case with a dry, soft cloth. Do not use abrasive cleaners or solvents. Ensure the power is disconnected before cleaning.
- **Time Accuracy:** Periodically check if the time clock is keeping accurate time. Minor adjustments to the current time setting may be needed over long periods.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Time clock not operating / no power.	No power to the unit; tripped circuit breaker; loose wiring.	Check circuit breaker and reset if tripped. Verify power supply at the terminals with a multimeter (CAUTION: High Voltage). Ensure all wiring connections are secure.

Problem	Possible Cause	Solution
Device not turning ON/OFF at programmed times.	Incorrect tripper placement; manual override engaged; incorrect current time setting.	Verify ON/OFF trippers are correctly positioned on the dial. Check if the manual override switch is in the desired automatic position. Ensure the current time is accurately set.
Timer dial not rotating.	Motor failure; obstruction.	Ensure power is supplied to the unit. Check for any physical obstructions preventing the dial from rotating. If the motor is faulty, the unit may require professional servicing or replacement.

SPECIFICATIONS

- **Model:** T104R3
- **Brand:** Intermatic
- **Voltage:** 230V
- **Switch Type:** Double-Pole Single-Throw (DPST)
- **Cycle:** 24-hour
- **Material:** Metal (Case)
- **Product Dimensions:** 3.63"D x 6.5"W x 10.13"H
- **Number of Settings:** 3 (referring to tripper capacity)
- **Color:** Multicolor (referring to components, case is typically beige/grey)

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 purchase receipt as proof of purchase for warranty claims.

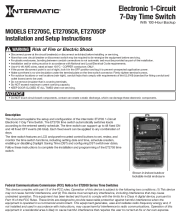


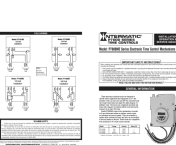
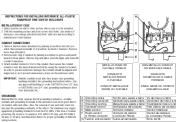

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact Intermatic Customer Service. Contact information can typically be found on the manufacturer's website or on the product packaging.

You can visit the official Intermatic Store on Amazon for more products and information:[Intermatic Amazon Store](#)



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Related Documents - T104R3

	<p>Intermatic ET2705 Series Electronic 7-Day Time Switch Installation and Setup Guide</p> <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>
	<p>Intermatic Digi 42 Series Electronic Time Switch Operating Instructions</p> <p>Operating instructions for the Intermatic Digi 42 Series electronic time switches, covering installation, programming, and troubleshooting for 24-hour and 7-day schedules.</p>
	<p>Intermatic ET1100 Series Electronic Time Switches: Features, Specifications, and Models</p> <p>Detailed information on the Intermatic ET1100 Series 24-Hour Electronic Time Switches, including features, technical specifications, contact ratings, enclosure options, and model variations for accurate load control.</p>
	<p>Intermatic P7000ME Series Electronic Time Controls Installation and Service Manual</p> <p>This manual provides detailed instructions for installing, operating, and servicing Intermatic P7000ME Series Electronic Time Controls, including models P7101ME, P7102ME, and P7103ME. It covers safety precautions, specifications, wiring diagrams, programming, and troubleshooting for reliable appliance and equipment control.</p>
	<p>Intermatic All-Plastic Rainproof Time Switch Enclosure Installation Instructions</p> <p>Detailed installation guide for the Intermatic all-plastic rainproof time switch enclosure, covering case mounting, conduit connections, and grounding requirements according to the National Electric Code.</p>
	<p>Intermatic PE20000 Series Pool/Spa Equipment Control Panel Installation, Operation & Service Manual</p> <p>Comprehensive guide for installing, operating, and servicing the Intermatic PE20000 Series Pool/Spa Equipment Control Panel, featuring the P1353ME Digital Time Clock. Includes safety instructions, wiring diagrams, operational procedures, and troubleshooting.</p>