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Intermatic T40000RT3

Intermatic T40000Rt3 Timer Control System User Manual

Model: T40000RT3

1. INTRODUCTION

The Intermatic T40000Rt3 is an outdoor Type 3R load center equipped with a 300W transformer. This system is designed to provide a centralized, cost-effective, and easy-to-wire electrical control solution for various pool and spa installations. It serves as an enclosure capable of housing additional Intermatic mechanisms and components, allowing for a complete and integrated electrical setup.

1.1 Safety Information

WARNING: Risk of electric shock. Installation and servicing of this product should only be performed by qualified personnel. Always disconnect power at the circuit breaker or fuse box before installing or servicing. Failure to do so may result in serious injury or death.

- Read all instructions carefully before installation and operation.
- Comply with all national and local electrical codes.
- Ensure the enclosure is properly grounded.
- Do not operate if any part of the unit is damaged.

2. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- One (1) Intermatic T40000Rt3 Timer Control System with 300W Transformer & Load Center

Note: Additional mechanisms or timers are sold separately and are not included with the base load center unit.

3. SPECIFICATIONS

Feature	Detail
Model Number	T40000RT3
Enclosure Type	Outdoor Type 3R
Transformer Wattage	300W

Feature	Detail
Number of Circuits	8
Phase Type	Single Phase
Material	Alloy Steel
Product Dimensions	7 x 7 x 7 inches
Product Weight	27.15 Pounds (approx. 12.315 kg)
Country of Origin	United States
UPC	078275125605

4. INSTALLATION AND SETUP

This section provides general guidelines for the installation of the T40000Rt3 load center. Always consult a qualified electrician and adhere to all local and national electrical codes.

4.1 Mounting the Enclosure

The T40000Rt3 is designed for outdoor use (Type 3R enclosure). Select a suitable, secure, and accessible location for mounting, away from direct water spray or excessive heat. Use appropriate hardware to securely fasten the enclosure to a sturdy surface. Ensure there is sufficient clearance around the unit for ventilation and access.



Figure 1: Front view of the Intermatic T4000Rt3 Load Center with the door open, revealing the internal layout, including the 300W transformer compartment at the top, the main breaker panel area with multiple slots for circuit breakers, and a lower compartment for wiring. A warning label regarding tripped breakers is visible on the inside panel.

4.2 Electrical Connections

IMPORTANT: Ensure all power is OFF at the main service panel before making any electrical connections.

- Power Input:** Connect the incoming single-phase power supply to the designated terminals within the load center. Refer to the wiring diagram inside the enclosure for specific terminal locations.
- Load Connections:** Connect the circuits for your pool/spa equipment (pumps, lights, heaters, etc.) to the appropriate circuit breaker slots. The unit supports up to 8 circuits.
- Transformer Wiring:** The integrated 300W transformer is pre-wired for low-voltage applications, typically for pool/spa lighting. Verify connections as per the internal wiring diagram.
- Grounding:** Ensure the load center is properly grounded according to electrical codes.
- Component Installation:** If installing additional Intermatic mechanisms (e.g., mechanical or digital timers), follow their specific installation instructions and integrate them into the load center as designed.

5. OPERATION

Once installed and wired, the Intermatic T40000Rt3 functions as a central control point for your pool or spa electrical system.

5.1 Circuit Breaker Operation

The load center houses circuit breakers that protect your equipment from overcurrents and short circuits.

- **Turning ON/OFF:** To turn a circuit ON, push the breaker handle firmly to the "ON" position. To turn it OFF, push the handle to the "OFF" position.
- **Tripped Breaker:** If a circuit breaker trips, its handle will typically be in a mid-position between "ON" and "OFF". This indicates an overload or fault on that circuit. To restore service after a trip:
 - a. First, move the breaker handle fully to the "OFF" position.
 - b. Then, push the handle firmly to the "ON" position.

If the breaker immediately trips again, there is still a fault on the circuit that needs to be addressed. Do not repeatedly reset a tripping breaker without investigating the cause.

5.2 Transformer Operation

The integrated 300W transformer provides low-voltage power for compatible devices, such as pool lights. Ensure that the total wattage of connected low-voltage devices does not exceed 300W.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and safe operation of your Intermatic T40000Rt3 load center.

- **Periodic Inspection:** Annually inspect the enclosure for any signs of damage, corrosion, or water ingress. Ensure the door latch is secure.
- **Cleanliness:** Keep the exterior of the enclosure clean and free of debris. If opening the enclosure for inspection, ensure power is off and carefully remove any dust or foreign material from inside using a dry cloth or vacuum.
- **Connection Check:** Periodically, with power disconnected, check all electrical connections for tightness. Loose connections can cause overheating and potential hazards. This should be performed by a qualified electrician.

7. TROUBLESHOOTING

This section provides solutions to common issues. For problems not listed here, or if issues persist, contact a qualified electrician or Intermatic customer support.

Problem	Possible Cause	Solution
Circuit breaker trips repeatedly.	Overload on the circuit, short circuit, or faulty appliance/wiring.	Disconnect some devices from the circuit to reduce load. Inspect wiring and connected appliances for damage or faults. Reset the breaker by moving it to "OFF" then "ON". If it trips again, consult an electrician.
No power to any circuits.	Main power supply issue, tripped main breaker (if installed), or loose main connections.	Check the main breaker in your home's service panel. Verify incoming power supply to the load center (requires a qualified electrician).

Problem	Possible Cause	Solution
Low voltage devices (e.g., pool lights) are not working.	Faulty low-voltage wiring, overloaded transformer, or transformer issue.	Check low-voltage wiring for damage. Ensure total wattage of connected devices does not exceed 300W. Consult an electrician to check the transformer's output.

8. WARRANTY AND SUPPORT

For information regarding the product warranty, please refer to the warranty card included with your purchase or visit the official Intermatic website.

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

