http://waterheatertimer.org/Outdoor-timers.html#P1161

IMPORTANT SAFETY INSTRUCTIONS

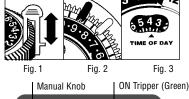
DANGER: To reduce the risk of injury:

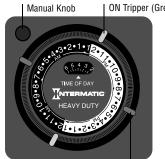
- Do not permit children to operate the timer or pool/spa unless they are closely supervised at all times.
- Test GROUND FAULT protection regularly. If it fails to reset, DO NOT USE the pool or spa! Contact a qualified service technician.
- Always disconnect electricity before servicing this timer or the equipment connected to it. THIS TIMER IS NOT TO BE USED AS A POWER DISCONNECT.
- Use timer only for its intended use as described in this manual.
- Install only on a GROUNDED 120VAC circuit protected by a fuse or circuit breaker.

SAVE THIS MANUAL

How to Set the Timer

- 1. Insert ON (green) and OFF (red) trippers into dial at desired ON and OFF times (Fig. 1). Be sure trippers are firmly pressed against dial surface and at least one space is left between ON and OFF trippers (Fig. 2).
- 2. Turn dial clockwise one or more revolutions until correct time of day is next to arrow in center of dial (Fig. 3).
- Plug pump into timer receptacle and plug timer cord into outlet.
 If timer is used outdoors, outlet must be suitable for wet locations.





OFF Tripper (Red)

Extra trippers may be stored on the dial by placing **same** color trippers next to each other.

For Early ON or OFF Operation

Turn manual knob counter-clockwise to desired ON or OFF position. Timer will follow next scheduled automatic operation.

WARRANTY

If within one (1) year from the date of installation this product fails due to a defect in material or workmanship, Intermatic Incorporated will repair or replace it free of charge.

This warranty does not cover labor for removal or reinstallation and does not apply to (a) damage caused by accident, abuse, mishandling or dropping (b) a unit which has been subject to unauthorized repair (c) units not used in accordance with directions (d) damages exceeding the cost of the product. Some states do not allow a limitation of damages, so the foregoing warranty may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Warranty service is available if the defective product is returned with proof of purchase and date of installation either (a) to the dealer from whom the unit was purchased or (b) by shipping prepaid to Intermatic Incorporated/After Sales Service, 7777 Winn Rd., Spring Grove, IL 60081-9698/815-675-7000 http://www.intermatic.com Please be sure to wrap the product securely to avoid shipping damage.

About Intermatic Incorporated

Intermatic Incorporated is the largest manufacturer of timers in the world. For more than 50 years, we have been committed to making quality timers, and it is our hope that this product will provide you with convenience, service and peace of mind for many years. If you have any questions about your Portable Pool and Spa Timer, or would like to receive information on our low voltage garden lighting or home automation and protection products, please call or write to us at . . .

INTERMATIC INCORPORATED

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Portable Safety Pool & Spa Timer with Built-In Ground Fault Protection

Model P1161

OWNER'S MANUAL



Electrical Rating

15 amp (1800 watt) 15 amp (1800 watt) 1 H.P. (15 FLA, 90 I 120V 60 Hz

Congratulations

You have made the right choice in purchasing a Pool and Spa Timer that provides not only convenience and energy savings, but which also will protect you and those around you from **ground fault currents**, one of the most common causes of electrical shock. This timer is designed for indoor and outdoor use and features a Ground Fault Circuit Interrupter (GFCI).

Why Ground Fault Protection is Important

Any electrical device is a potential shock hazard. When it becomes old or lacks proper maintenance, that danger increases. Such a device, if used in wet conditions or near water pipes, can be extremely hazardous or even fatal. *Because of this danger, most electrical codes now require ground fault protection* for locations in new residences such as pools, spas, outdoor outlets, bathrooms, kitchens, laundry rooms, workshops, basements and garages.

The GFCI in this timer operates on the principle that the current leaving the power source in one wire should always be equal to the current returning to the power source through the other wire. Thus, in a normal, safe circuit, the amount of current leaving the receptacle to the electrical device returns to the receptacle, and the GFCI circuitry sees a balance between these two currents.

Should a fault or shock situation exist, some of the current going from the power source to the electrical device passes to the ground through the person contacting that device. This current does not return through the GFCI to the power source. The GFCI senses the resulting imbalance and switches the interrupter mechanism to disconnect both wires of the electric circuit. When this happens, the indicator (RESET button) will pop out, exposing the word TRIP, and the receptacle will no longer supply power.

To determine if the GFCI is functioning properly, follow the testing procedure described later in this manual.

What a GFCI Can-and Cannot-Do

IT WILL

- protect people who are exposed to line-to-ground shock hazards that could be harmful or even fatal.
- trip out with a fault current as low as approx. 5 milliamperes, in an amount of time less than that likely to harm a person coming in contact with the shock.

IT WILL NOT

- prevent you from electric shock; it only limits the time duration so that it is usually safe for a normally healthy person.
- protect you if you touch both sides of the line (hot/black and neutral/white wires) or if you touch a line wire from another branch circuit.
- provide protection from overloads: the fuse or circuit breaker at the main panel serves this function.

Troubleshooting Guide

Symptom	Cause(s)	Corrective Action				
No power at	• No power to timer	Check circuit breaker in panel.				
timer's receptacle	Open GFCI	Reset and test GFCI.				
	• Timer contacts open	Turn timer to ON, check timer setting and operation.				
	• Defective timer*	Replace timer.				
Timer loses time	 Power to timer is not continuous Defective timer* 	Check branch circuit that timer is plugged in to. Replace timer.				
Timer's receptacle is "hot" (energized) at all times	• No OFF trippers in dial • Defective timer*	Check timer operation. Replace timer.				

^{*} Timer should not be used over its rated capacity. The protective cover should always be in place.

How to Test the GFCI

It is important to check the GFCI every month to make sure it is operating properly. Maintain a diary of your monthly test in the chart provided below.

- 1. Push the TEST button. The RESET button should pop out from the inner surface. This should result in power being OFF at the outlet protected by the GFCI. Verify by plugging a test lamp into the outlet. Be sure the timer is in the ON position.
- If the GFCI tests okay, restore power by pushing the RESET button back in. THE RESET BUTTON MUST BE PUSHED FIRMLY AND FULLY INTO PLACE UNTIL IT LOCKS AND REMAINS DEPRESSED AFTER PRESSURE HAS BEEN REMOVED.

DANGER: If the RESET button DOES NOT pop out, if the test lamp remains lit when the RESET button DOES pop out, or if the GFCI fails to reset properly, DO NOT USE THE TIMER! Contact a qualified service technician.

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