Wattstopper®

Time Switch – 7- Button Preset

No: 24211 – 09/25 rev. 2

Installation Instructions • Instructions d'Installation • Instrucciones de Instalación

Catalog Number • Numéro de Catalogue • Número de Catálogo: RT-50

Country of Origin: Made in China • Pays d'origine: Fabriqué en Chine • País de origen: Hecho en China

DESCRIPTION AND OPERATION

The RT-50 is a time switch that turns **OFF** the connected light or fan when the selected time expires. The light behind the **ON/OFF** button illuminates while the switch is **OFF**. One of the time button indicators is always lit to indicate the last used timer.

Manual ON

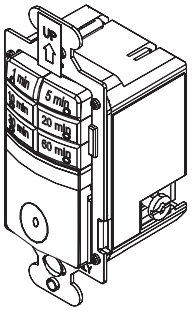
Turn **ON** the connected light or fan by pressing the desired time button, or the **ON/OFF** button. If you press the **ON/OFF** button, it activates the timer that was last used.

Manual OFF

While a timer is active, you can press the **ON/OFF** button to turn **OFF** the connected light or fan without delay.

Changing the selected time

If you decide that you need more or less time than you originally selected, restart the time switch by pressing the button that matches the amount of time you think you'll need.



SPECIFICATIONS

Voltage 120VAC, 60HZ
Load (Single Pole Circuit)
- Incandescent or fluorescent lamp ....0 – 600 Watt
- Fan Motor..... 1/6HP

Time Delay ..... 1, 5, 10, 20, 30, 60 minutes
Environment ..... Indoor use only
Operating Temperature .....32° to 131°F (0° to 55°C)
Humidity .....95% RH, non-condensing
Tools Needed
- Insulated Screwdriver
- Wire Strippers

INSTALLATION

1. **Prepare the switch box.**
   After the power is turned **OFF** at the circuit breaker box, remove the the old switch out from the wall box.

WARNING: TURN THE POWER OFF AT THE CIRCUIT BREAKER BEFORE WIRING.

2. **Identify the type of circuit.**
   In a Single Pole Circuit (see Fig. 1), two single wires connect to two screws on the existing switch. A ground wire may also be present and connected to a ground terminal on the old switch. A neutral wire should also be present in the wall box.

   NOTE: If a proper ground is not available, consult with a qualified electrician before continuing installation.

   Only connect the RT-50 to a Single Pole Circuit. The RT-50 is not suitable for 3-way switching. If the existing wiring does not match the description for a Single Pole Circuit, you should consult with a qualified electrician.

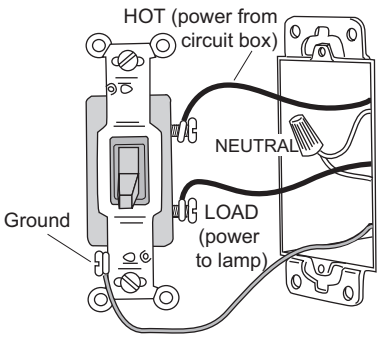


Fig. 1: Typical Single Pole Switch Wiring

3. **Prepare the Wires.**
   Tag the wires currently connected to the existing switch, so that they can be identified later. Disconnect the wires. Make sure the insulation is stripped off the wires to expose their copper cores to the length indicated by the "Strip Gage," in Fig. 2 (approximately 1/2 inch).

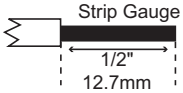


Fig. 2: Wire Stripping

4. **Wire the time switch.**
   Twist the existing wires together with the wire leads on the time switch as indicated in the drawing. Cap them securely using appropriately sized wire nuts. See Fig 3 on the next page.
   - Connect the green or non-insulated (copper) GROUND wire from the circuit to the GROUND terminal on the RT-50.
   - Connect the power wire from the circuit (HOT) to the black wire on the RT-50.
   - Connect the power wire to the lamp or fan (LOAD) to the red wire on the RT-50.
   - Connect the NEUTRAL wires from the circuit to the white wire on the RT-50.
5. **Put the RT-50 in the wall box with the time selection buttons positioned above the ON/OFF button.**
   Secure it to the wall box with the screws provided.
6. **Install cover plates.**
   Install industry standard decorator wall switch cover plate (not included).

WARNING: CONNECTING A PROPER GROUND TO THE TIME SWITCH PROVIDES PROTECTION AGAINST ELECTRICAL SHOCK IN THE EVENT OF CERTAIN FAULT CONDITIONS.

7. **Restore power to the circuit.**
   Turn on the breaker or replace the fuse.
   Twist the existing wires together with the wire leads on the time switch as indicated in the drawing. Cap them securely using the wire nuts provided. See Fig 3.
   - Connect the green or non-insulated (copper) GROUND wire from the circuit to the GROUND terminal on the RT-50.
   - Connect the power wire from the circuit (HOT) to the black wire on the RT-50.
   - Connect the power wire to the lamp or fan (LOAD) to the red wire on the RT-50.
   - Connect the NEUTRAL wires from the circuit to the white wire on the RT-50.
8. **Put the RT-50 in the wall box with the time selection buttons positioned above the ON/OFF button.**
   Secure it to the wall box with the screws provided.
9. **Install cover plates.**
   Install industry standard decorator wall switch cover plate (not included).
10. **Restore power to the circuit.**
    Turn on the breaker or replace the fuse.

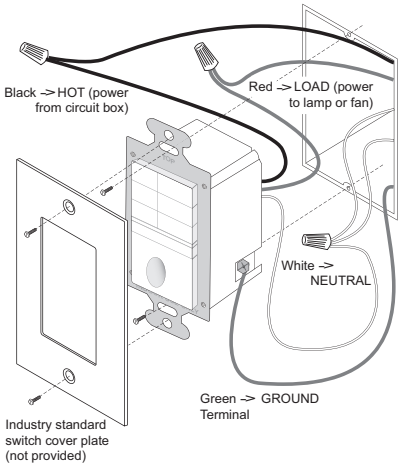


Fig. 3: Switch orientation, wire connections, and wall box assembly

TROUBLESHOOTING

To test the time switch:

The light behind the **ON/OFF** button should be **ON** when the switch is **OFF**. The indicator light on one of the time selection buttons is **ON**.

Press the **ON/OFF** button. The connected light or fan comes **ON**. The connected light or fan should turn **OFF** in the number of minutes indicated by the time selection indicator light. You can turn it OFF sooner by pressing the **ON/OFF** button again.

Light or fan will not turn ON (lighted switch is ON):

Press **ON/OFF** button. The connected light or fan should turn **ON**. If not:

- Check the light bulb and/or motor switch on the fan mechanism.
- Turn **OFF** power to the circuit, then check wire connections.

Light or fan will not turn ON (lighted switch is OFF and no indicator is ON):

- Shade the switch from external light to make sure that none of the indicator lights are **ON**.
- Check the light bulb and/or motor switch on the fan mechanism.
- Make certain that the circuit breaker is **ON** and functioning.
- Turn **OFF** power to the circuit then check wire connections.
- Call 1.888.817.0571 for technical support.

Light or fan will not turn OFF:

- Press the **ON/OFF** button.
- If connected light or fan does not turn **OFF**, turn **OFF** power to the circuit then check wire connections.

COVER PLATES

Wattstopper RT wall switches fit behind industry standard decorator style switch cover plates.

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