

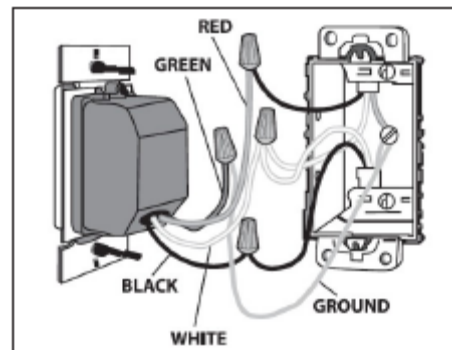
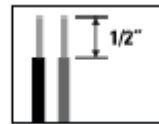
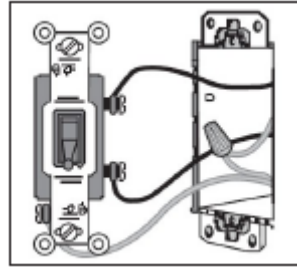
## TM-029 – 7 days in-wall timer with Astro & DST function



### Installation Instructions

**WARNING:** To avoid risk of fire or shock which could result in injury or death, turn off power at circuit breaker and test that power is off before wiring.

1. Remove wall plate and disconnect existing light switch.
2. Make sure both “hot” and neutral wires are present in the junction box. If both wires are not present, additional wiring will be necessary before installation can be completed.
3. Connect red timer wire to wire from fixture using wire connector.
4. Connect black timer wire to the “hot” (usually black or red) wire in junction box using wire connector.
5. Cut white wire in junction box (or open splice) and strip ½” of insulation on both wires.
6. Connect white timer wire to white wires in junction box using wire connector.
7. If the wall switch you are replacing had separate grounding conductors connected to the GREEN screw on the switch, make sure to connect these to the green wire from the timer with a wire connector.
8. Check that all wire connections are secure.
9. Place all wires inside junction box.
10. Fit timer into junction box and install using two (2) mounting screws (furnished).
11. Reconnect the electrical power.



## Button Layout



## LCD Panel Layout



Note: For below image, **PINK** color indicates “flash for setting”, **BLUE** color indicates “show only – not under control”

## Setting the Clock

Press **TIME** button to set current time. Start with YEAR.



Press “+” to increase number. Press “-” to decrease number.  
Year setting range: 2009-2099

Press **TIME** button again to set current month.



Press “+” to increase number. Press “-” to decrease number.  
Month setting range: 01-12

Press **TIME** button again to set current day.




Press “+” to increase number. Press “-” to decrease number.  
Day setting range depends on Month/Year: Max to 31  
Weekday will show at the same time on top: Mo to Su

Press **TIME** button again to set Day-Light-Saving-Time (DST).




Press “+” or “-” to set DST function ON / OFF.  
❖ DST ON: Auto-run current time one hour earlier from 2 a.m. on the Second Sun in March to 2 a.m. on the First Sun of Nov.  
❖ DST OFF: current time no auto-change



Press **TIME** button again to set current hour.

	<p>Press “+” to increase number. Press “-“ to decrease number. Hour setting range: 12-hour clock AM/PM</p>
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Press **TIME** button again to set current minute.

	<p>Press “+” to increase number. Press “-“ to decrease number. Minute setting range: 00-59</p>
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Press **TIME** button again to set current Astro zone.

	<p>Press “+” or “-“ to set Astro zone NORTH: NOR CENTER: CEN SOUTH: SOU</p> 
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Press **TIME** button again to finish current time setting and show current time



**Things you should know about current time setting:**

- ❖ When setting the current time during the Day-Light-Savings Time period, and your DST function is ON, your current time should be the time after DST



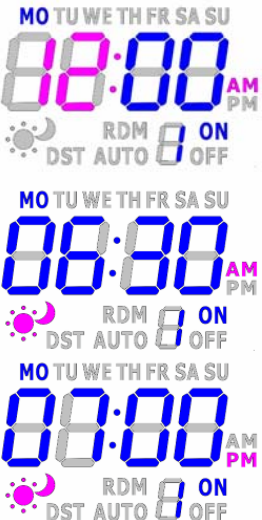
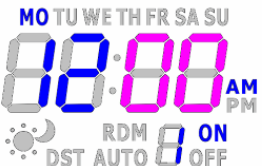
**Setting the Sunrise / Sunset schedule**

This unit’s sunrise/sunset schedule is based on USA astronomic zones. The actual sunrise/sunset schedule may slightly differ from east to west. You can set the actual sunrise/sunset time today. This unit will memorized the difference and auto-adjust for following dates.

<p>Press  button to show current Sunrise time.</p>	
	<p>Press “+” to increase number. Press “-“ to decrease number. Setting range: MAX +/- 1 hour</p>
<p>Press  button again to show current Sunset time.</p>	

	<p>Press “+” to increase number. Press “-” to decrease number. Setting range: MAX +/- 1 hour</p>
<p>Press  button again to finish current Astro setting and show current time</p>	

## Setting Programs

<p>Press <b>PROGRAM</b> button to set program event.</p>	
	<p>If there is no any program event setting before, show display as the image in left</p>
<p>1. Press <b>TIME</b> button to set power ON schedule in program event 1 – Week day</p>	
	<p>Press “+” or “-” to setting week day mode. Week day setting mode:</p> <ol style="list-style-type: none"> <li>Every Monday: MO</li> <li>Every Tuesday: TU</li> <li>Every Wednesday: WE</li> <li>Every Thursday: TH</li> <li>Every Friday: FR</li> <li>Every Saturday: SA</li> <li>Every Sunday: SU</li> <li>Every week: MO TU WE TH FR SA SU</li> <li>Every weekday: MO TU WE TH FR</li> <li>Every weekend: SA SU</li> </ol>
<p>2. Press <b>TIME</b> button again to set power ON schedule in program event 1 – Hour</p>	
	<p>Press “+” or “-” to setting hours. Hours setting mode:</p> <ol style="list-style-type: none"> <li>12-hour clock AM/PM</li> <li>Sunrise</li> <li>Sunset</li> </ol> <p>❖ If you select Sunrise or Sunset as ON event, please press <b>PROGRAM</b> button to continue setting OFF event</p>
<p>3. Press <b>TIME</b> button again to set power ON schedule in program event 1 – Minute</p>	
	<p>Press “+” to increase number. Press “-” to decrease number. Minute setting range: 00-59</p>
<p>4. Press <b>PROGRAM</b> button to finish this setting and go for power OFF schedule setting in</p>	

program event 1

5. Repeat step 1-3 to set the OFF time for Event 1.

6. Press **PROGRAM** button to setting next event

7. When programming is complete, press the **TIME** button for 2 seconds to display the current time

#### **Things you should know about programming events:**

- ❖ Pressing the **TIME** button again can continue setting Week/Hour/Minute in same event
- ❖ You can repeat the ON and OFF programming procedures outlined above for up to 7 events, as needed
- ❖ Do not overlap event times (for example, 8:00 pm ON /12:00pm OFF, and 9:00 pm ON / 11:00 pm OFF). This settings can cause the timer to work in an unexpected way

### **Reviewing Events Programmed**

In the current time display, press the **PROGRAM** button repeatedly to check your settings.

### **Clearing (Deleting) an Event**

1. Press the **PROGRAM** button as many times as necessary to locate the setting you want to clear.

2. Press and hold the **RESUME** button to clear the setting.

3. When finished, keep press the **PROGRAM** button or hold **TIME** button over 2 seconds to return the display to the time of day.

### **Operating the Time Switch**

Press the **MODE** button repeatedly to set the timer to Automatic, Random or Manual mode.

**NOTE:** For the time switch to run programmed events, it must be set to "AUTO" mode



**AUTO** — runs all events automatically, according to the schedule you have set. The word "AUTO" appears in the display



**RDM (Random)** — runs all events in a RANDOM mode. This is a security feature in which ON and OFF times randomly differ  $\pm 15$  minutes from the programmed times, creating a more "lived-in" look. The word "RDM" appears in the display.



**MANUAL** — turns ON and OFF only when the user presses the ON or OFF button. The display is blank, showing neither RDM or AUTO.

### **Overriding Timer Settings**

The **ON / OFF** buttons override the current programmed events.

To override the current program (either ON or OFF), press the **ON/OFF** button.

**NOTE:** If the timer is not in "Manual" mode, it will obey the next programmed event. This allows

*the user to manually turn a light on and allow the program to shut the light back off at a preset time.*

### **Resetting the Timer**

In case of an operational failure of the timer, press the **RESET** button to clear all settings and restart.