

## How to Set and Troubleshoot Intermatic sprinkler timer

### How to wire sprinkler timers

HOW To SET TIMER FOR MONDAY, SO PUMP WILL START ON WEDNESDAY?

- 1) The **107T119 silver pin** goes at 12 midnight on large yellow dial. This pin advances the 14-day skipper wheel each day. Check for silver pin and check that it advances the skipper wheel. If pin is worn down, or missing, then buy new 107T119 pin.
- 2) Yellow dial rotates once each 24 hours. If dial is slow or not turning, check for power to timer, check that wires are connected and tight under screw, and then replace **120volt WG730 or 240volt WG733 clock motor**. To set current time, manually rotate yellow dial clockwise until current time lines up with stationary silver pointer. The stationary silver pointer is set approximately at the 7 o'clock position and does not move. (Silver pin mentioned in #1 is not same as stationary silver pointer in #2).
- 3) Rotate skipper wheel counter-clockwise until today's day (Monday) is in front of 14 arrow. The skipper wheel or day wheel is marked with days of the week. 14 arrow is printed on **124T2098 plastic insulator**. Skipper wheel is smaller wheel located lower right from large yellow dial.
- 4) To skip a day of watering, the **107T73 day wheel pin** or skipper pin is pushed down for that day. So you want to push down Monday and Tuesday pins. Leave skipper pin up for Wednesday for watering that day. To water on a particular day, the skipper pins is up for that day.
- 5) When planning watering times it is important to understand how the timer works. The timer just turns on-and-off, and each time the timer turns off, the sprinkler valve automatically advances to next zone. So the sprinkler valve is doing the mechanical job of advancing through each zone. If sprinkler turns on but zones do not advance, the timer is working correctly. Check sprinkler valve.
- 6) The **156T1950A brass trippers** (12 trippers per pkg) are inserted on yellow wheel. Push tripper all the way down to set ON time. Each brass tripper represents 12 minutes of watering. For example, if you want to water for 1/2 hour, then put two consecutive pins on yellow timer wheel. For 1 hour, put 4 consecutive trippers. If trippers are worn down, buy new trippers. To change zones, leave at least one tripper out so there is a blank slot. This will cause timer to turn off power to sprinkler valve. When timer turns on with next tripper, the next watering zone will begin. Set from 1 to 60 ON operations per 24-hour day.
- 7) Rain sensor can be added to some models if two connection terminals are present. Rain sensor is not supplied with timer. If timer works with rain sensor, then there are two additional terminals located to side of power terminals. Do not apply voltage to these terminals. Simply connect rain sensor wires to terminals, and the rain sensor will send electrical signal to timer.
- 8) Timer comes in NEMA 3R Plastic raintight enclosure case with 1/2" and 3/4" knockouts for electric wiring. Wiring shows in each manual, and at bottom of this pdf. Use romex connector to secure wires to box so there are no loose wires.
- 9) T8845PV timer is different since it has 24 volt **119T86A transformer** with 2 yellow wires. Connect the yellow wires to sprinkler solenoid or sprinkler valve. If sprinkler is not turning on, then test for 24Volts across yellow wires. Test that T8845PV is receiving 120V from breaker box. Replace transformer if it no longer produces 24volts.

### Links to parts and other information about Intermatic timers

<http://waterheatertimer.org/Intermatic-trippers-and-parts.html#sprinkler>

<http://waterheatertimer.org/How-to-troubleshoot-Intermatic-timer.html>

<http://waterheatertimer.org/Intermatic-timers-and-manuals.html>



**120 Volt WG730 & 240 Volt WG733 Clock motor**



**156T1950A tripper**



**119T86A 24Volt Transformer**

T8800/R8800 series





T8845PV with 24Volt transformer  
 Yellow wires connect to sprinkler valve  
 Test yellow wires for 24Volts  
 Test Line and Neutral screw terminals for 120V  
 Line is for black wire and Neutral is for white wire

**Description of Box:** Sprinkler timers are inside NEMA 3R enclosure.  
 NEMA 3R enclosure is raintight  
 NEMA 1 enclosure is indoor only



# R8800 and T8800 Series Sprinkler/Irrigation Timers with 14-Day Skipper™

- 1 to 60 ON operations every 24 hours
- Designed for water metering in increments of 12 minutes to 20 hours and 45 minutes for maximum conservation of water resources
- 14-day skipper feature permits irrigation to be omitted on selected day(s)
- 14-day skipper feature provides for "every other" day operation
- ON/OFF/AUTOMATIC switch allows shutdown during rainy days or extended watering during dry periods without disturbing the automatic cycle set on dial
- Rain sensor enabled

## Applications:

- Multi-Station Hydro Indexing Valves
- Greenhouses
- Lawn Sprinkling
- Pumps
- Irrigation Control
- Feeders
- Drip Irrigation Systems

## Specifications:

Enclosure: NEMA 3R Rated Plastic Indoor/Outdoor Enclosure. See pages 46-47

Switch Rating: See table below

Model #	Switch	Motor Volts AC 60 Hz	Output Volts AC 60 Hz	AMPS (per pole)	HP Rating
T8805P101C	SPST	125	120	15	1/2
R8806P101C	DPST	208-277	240	25	2
R8815P101C*	DPST	120	120	25	1 1/2
R8816P101C*	DPST	208-277	240	25	3
T8845PV**	SPST	125	24	20 VA	—

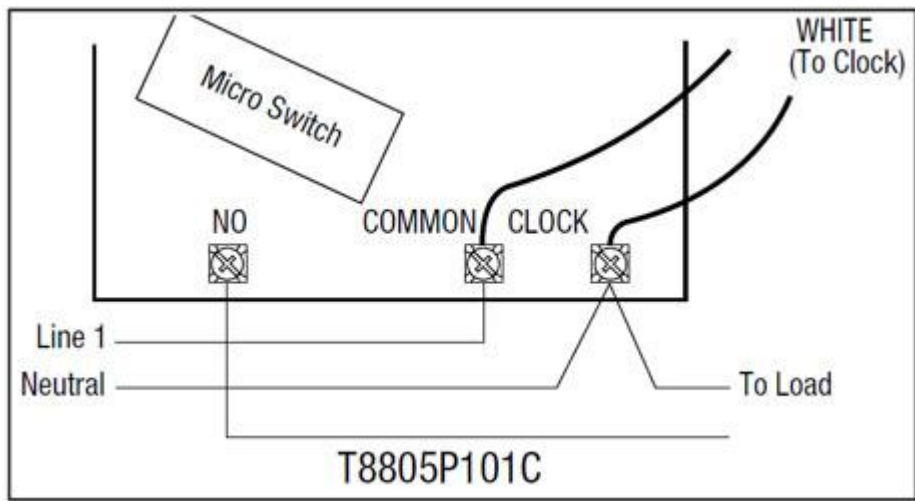
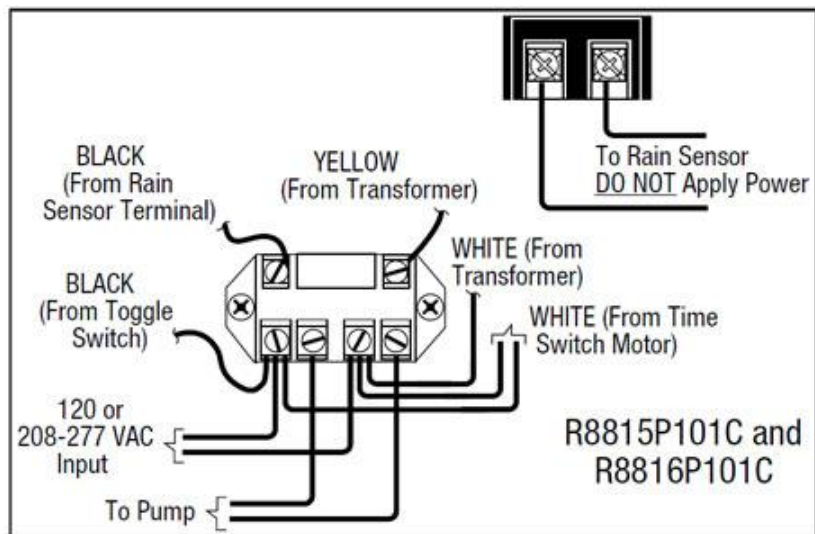
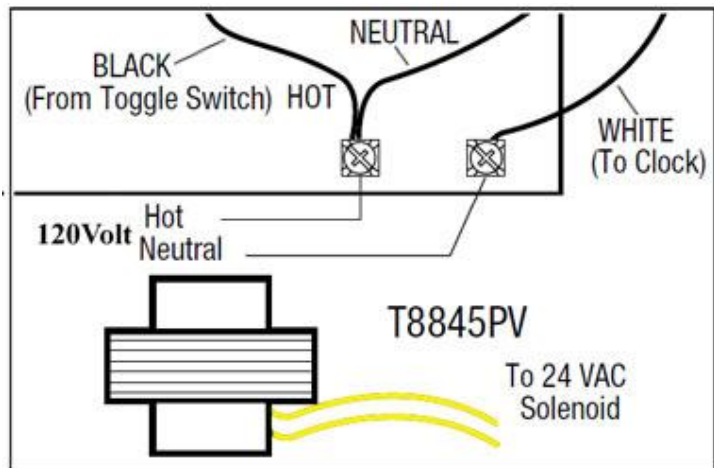
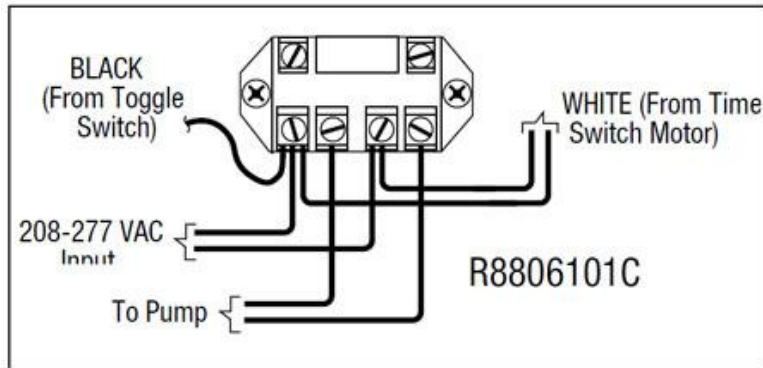
\* Includes rain sensor input terminals — rain sensor not supplied.

\*\* Includes 24 volt – 20 VA transformer.

For replacement Snap Switch order No. 133T700A.

For additional trippers (12 per pack), order No. 156T1950A.

For additional skipper pins (14 per pack), order No. 156T1954A.



More wiring diagrams at following link:

[How to wire sprinkler timers](#)