

Programming Guide

Sunrise Sunset Timer

Model – SST-15



FUNCTION

SimpleWorx products are designed to provide the most simplistic remote control lighting without running ANY new wiring. These products also remote control electrical loads the same way with absolutely no new wiring needed. They connect or what we call "link" to each other by communicating over the existing electrical power wires already in place.

Each transmitter can be linked to as many receivers as you please. Each receiver has the ability to link up to eight transmitters.

The SST Sunrise Sunset Timer (Image 1) is capable of turning 120VAC devices ON and OFF based on one of the ten preset schedules. This product can also be controlled from eight SimpleWorx Transmitters.

Once the SST is "linked" to a SimpleWorx transmitter (refer to "Linking a Transmitter to a Receiver"), it is capable of having its load turned ON or OFF remotely or as if it were its very own load.

FEATURES

- Scheduling:
 - Choice of 10 Different Daily Programs
 - Daylight Savings and Leap Year Compensation
- Remotely controlled from any SWX Transmitter
- Manual override button for local control
- Astronomic Daily Dusk/Dawn calculations for:
 - 0°-60° for Northern and Southern latitudes
 - 65°-125° Eastern to Western longitudes
 - 135° & 165° for Alaska and Hawaii
- Power Outage Backup:
 - 10 Year 125mA Battery
 - Permanent schedule retention
- Simple button press set-up and review of:
 - Schedule /Time Zone/Daylight Saving Time
 - Latitude and Longitude/Clock Time Setting
- Built for Professional Use:
 - Operating Temperature -40° F to +140° F
 - Internal High Temperature Protection
 - -185° F (85° C) – Shut OFF
 - -167° F (75° C) – Reset ON
- 10 YEAR WARRANTY



(Image 1)

IMPORTANT SAFETY INSTRUCTIONS

When using electrical products basic safety precautions should always be followed, such as the following:

1. Do not use this product for other than its intended purpose.
2. Keep away from water. If the product comes in contact with water or other liquid, turn off the circuit breaker and remove the product immediately.
3. Never use products that have been dropped or damaged.

INSTALLATION

To install the SST:

1. Locate the load to be controlled and plug it into the outlet on the bottom of the SST.

Note - The Load current rating (or combined rating of multiple connected devices) must not exceed 15 Amps.

2. Plug the SST into an unswitched wall outlet.
3. Turn the load power switch to its ON position.

CAUTION: Do not insert metal objects into the module while it is connected to power.

BASIC OPERATION

The "LINK" button, below the Status LED on the front of the unit is used for a variety of functions:

- For manual operation, pressing the "Link" button will toggle between turning the outlet ON and OFF.
- The "Link" button is also used to enter programming and setting the values, as well as linking the SST to eight SimpleWorx Transmitters.

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PROGRAMMING

Step	Action	Write your choice here	Response
#1	Press and hold the SST Link button for 6 seconds. (Enters Link Mode)	N/A	The LED will then flash GREEN and flash its load (if a load is connected).
#2	Tap the Link Button (3) times quickly. (Enters Program Mode)	N/A	The lighting load will Blink and the LED will change to blinking RED.
#3	Tap the LINK button from (1-10) times to select the desired Schedule (see Schedule Table)	Schedule	The Status LED pulses GREEN (1-10) times to confirm selection, then the Status LED will return to blinking RED.
#4	Tap the LINK button (1-6) times to select the desired Time Zone (see Time Zone Table)	Time Zone	The Status LED pulses (1-6) times GREEN to confirm selection, then the Status LED will return to blinking RED.
#5	Tap the push button (1) USA ENABLE, (2) MEXICO ENABLE or (3) DISABLE to set if your location uses Daylight Savings Time (DST)	DST	The Status LED pulses (1 or 3) times GREEN to confirm selection, then the Status LED will return to blinking RED.
#6	Tap the push button (1-14) times to select the desired Longitude (East/West, see Longitude table)	Longitude	The Status LED pulses (1-14) times GREEN to confirm selection, then the Status LED will return to blinking RED.
#7	Tap the push button (1-12) times to select the desired Latitude (North/South, see Latitude table)	Latitude	The Status LED pulses (1-12) times GREEN to confirm selection, the load will toggle once to indicate your programming is complete and then the Status LED will return to solid RED.

REVIEW ALL SETTINGS MODE

#1	Tap the Link Button (3) times quickly.	The LED will turn off and then begin to flash GREEN (1-14) times to confirm your selections for Schedule, Time Zone, DST, Longitude and Latitude with a pause between each selection. Once completed, the load will toggle once to indicate this operation is complete and the LED returns to solid RED.
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SCHEDULE TYPE ONLY PROGRAMMING (WITHOUT PROGRAMMING LOCATION AGAIN)

Step	Action	Write your choice here	Response
#1	Press and hold the SST Link button for 6 seconds. (Enters Link Mode)	N/A	The LED will then flash GREEN and flash its load (if a load is connected).
#2	Tap the Link Button (4) times quickly. (Enters program mode)	N/A	The lighting load will Blink and the LED will be blinking Orange.
#3	Tap the LINK button from (1-10) times to select the desired Schedule (see Schedule Table)		The Status LED pulses (1-10) times GREEN to confirm your selection, the load will toggle once to indicate programming is complete and then the Status LED will return to solid RED.



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PROGRAMMING TABLES

Schedule:	ON/OFF #1	ON/OFF #2
1 tap	SUNRISE SUNSET	NOT USED
2 taps	SUNSET-30 Min SUNRISE +30 Min	NOT USED
3 taps	SUNSET MIDNIGHT	NOT USED
4 taps	SUNSET 10:00PM	NOT USED
5 taps	SUNSET 2:00 AM	NOT USED
6 taps	SUNSET MIDNIGHT	SUNRISE -30 Min SUNRISE
7 taps	SUNSET MIDNIGHT	SUNRISE -60 Min SUNRISE
8 taps	SUNSET MIDNIGHT	SUNRISE -30 Min SUNRISE +30 Min
9 taps	SUNSET 10:00 PM	SUNRISE -60 Min SUNRISE +30Min
10 taps	SUNSET 10:00 PM	SUNRISE -30 Min SUNRISE +30 Min

Time Zone:

- 1 tap = Eastern (UTC-5)
- 2 taps = Central (UTC-6)
- 3 taps = Mountain (UTC-7)
- 4 taps = Pacific (UTC-8)
- 5 taps = Alaskan (UTC-9)
- 6 taps = Hawaiian (UTC-10)

Daylight Savings Time (DST):

- 1 tap = Enable DST Adjustment (USA)
- 2 taps = Enable DST Adjustment (MEXICO)
- 3 taps = Disable DST Adjustment

The PMR will automatically perform Daylight Saving Time (DST) adjustments if DST adjustments are enabled:

- If USA DST is enabled:
 - Increment 1 Hour at 2 AM on the 2nd Sunday in March
 - Decrement 1 Hour at 2 AM on the 1st Sunday in November
- If Mexican DST is enabled:
 - Increment 1 Hour at 2AM on the 2nd Sunday in April
 - Decrement 1 Hour at 2AM on the 1st Sunday in October

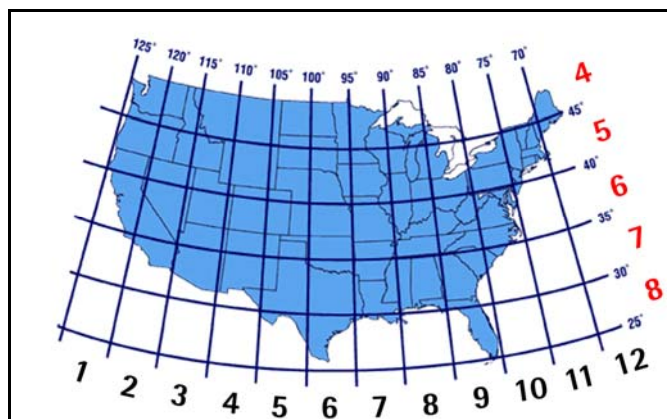
Longitude: (East/West) -

- 1 tap = 121-125 degrees
- 2 taps = 116-120 degrees
- 3 taps = 111-115 degrees
- 4 taps = 106-110 degrees
- 5 taps = 101-105 degrees
- 6 taps = 96-100 degrees
- 7 taps = 91-95 degrees
- 8 taps = 86-90 degrees
- 9 taps = 81-85 degrees
- 10 taps = 76-80 degrees
- 11 taps = 71-75 degrees
- 12 taps = 65-70 degrees
- 13 taps = 155-158 degrees (Hawaii)
- 14 taps = 135 degrees (Juno AK)

Latitude: (North/South)

- 1 taps = 56-60 degrees
- 2 taps = 51-55 degrees
- 3 taps = 46-50 degrees
- 4 taps = 41-45 degree
- 5 taps = 36-40 degrees
- 6 taps = 31-35 degrees
- 7 taps = 26-30 degrees
- 8 taps = 21-25 degrees
- 9 taps = 16-20 degrees
- 10 taps = 11-15 degrees
- 11 taps = 6-10 degrees
- 12 taps = 0-5 degrees

LONGITUDE-LATITUDE MAP



Upon setting the longitude and latitude the sunrise and sunset times will be within 10 minutes of actual time.

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CLOCK REVIEW MODE

The SST clock has been preset at the factory. The time and schedule settings will be maintained for 10 years if/when disconnected from electrical power. Once a schedule has been selected it will run daily. The real time clock will be adjusted to match the local time, based on the selected time zone.

1	Tap the Link Button (8) times quickly.
2	The LED will turn off and then begin to flash GREEN to represent the following four items to confirm the current clock settings. Hour, Minute, Month, Day with a pause between each selection. NOTE: <ul style="list-style-type: none">• The LED flashes 1 time to represent a "1", and flashes 2 times to represent a "2", etc.• The LED flashes 10 times to represent a "0".
	Hour (00-23) displayed in two LED flashings: 10's of Hours (0-2) 1's of Hours (0-9)
	Minute (00-59) displayed in two LED flashings: 10's of Minutes (0-5) 1's of Minutes (0-9)
	Day of-Week (1-7) 1=Sunday, 2=Monday
	Month (01-12) displayed in two LED flashings: 10's of Month (0-1) 1's of Month (0-9)
	Day (00-31) displayed in two LED flashings: 10's of Days (0-3) 1's of Days (0-9)
	Year (00-99) displayed in two LED flashings: 10's of Year (0-9) 1's of Year (0-9)
3	Once completed the LED returns to solid RED and the load will toggle once to indicate this operation has been completed.

STATUS LED INDICATOR

LED Color	Status
Solid RED	Power applied to Module
Blinking GREEN	Device is in LINK Mode
Solid GREEN	Transmitting a SPC™ message
Blinking RED	In Programming Mode
Blinking ORANGE	In Re-Schedule Mode
Slowly Blinking RED	Temperature Protection is Activated

LINKING MODE

All SimpleWorx transmitters can remotely control one or more SimpleWorx Receiver(s). Follow the steps below to "LINK" the two together:

To enter Link Mode:

1	At the SimpleWorx Transmitter: Press and hold its Link button for 6 seconds. The LED will then flash GREEN and flash its load (if a load is connected).
2	At the SimpleWorx Receiver: Press and hold the rocker switch or link button for 6 seconds. The LED will flash GREEN and flash its load (if a load is connected).
3	The Receiver will indicate (within 30 seconds) the two devices have automatically "LINKED" to one another when the LED stops flashing and then flashes its load once.
4	The Transmitter may be taken out of "LINK" mode by tapping its rocker switch or link button once. The LED will stop flashing and flashes its load (if a load is connected). Note: The TX will automatically timeout after 5 min.

FACTORY RESET

1	Press and hold its Link button for 6 seconds. The LED will then flash GREEN and flash its load (if a load is connected).
2	Tap the Link Button (10) Ten times quickly.
3	The LED will blink RED 10 Times; the load will toggle once, and returns to solid RED to indicate this operation is complete. NOTE: This will erase all transmitters the SST was linked to.

CERTIFICATION

This product has been thoroughly tested by Intertek Testing Services, a nationally recognized independent third-party laboratory. The Northern American ETL listed mark signifies that the product has been tested to and has met requirements of a widely recognized consensus of US and Canadian product safety standards.



LIMITED WARRANTY

Seller warrants this product, if used in accordance with all applicable instructions, to be free from original defects in materials and workmanship for a period of five years from the date of purchase. Refer to the warranty information on the PCS website (www.pcslighting.com) for exact details.

