



## Deluxe Misting System - 55 gallon





**CONTENTS:**

- 55 Gallon Deluxe System
- Outdoor Cover
- Remote Control
- Battery Charger

If you should experience any difficulties, issues or problems while assembling or operating your system, please do not return your system to place of purchase.

Contact customer service at info@pynamite.NET or 713-955-2101 or 866-986-5586.

**PROGRAMMING THE TIMER**

**Buttons on Timer**

1. LED: To indicate ON/OFF status
2. CLOCK: To adjust current DAY and TIME
3. TIMER: To Review & Set Programs
4. DAY: To adjust Day of Week
5. HOUR: To adjust Hour
6. MIN: To adjust Minute
7. MANUAL: To select ON, AUTO or OFF  
(see more on MANUAL button below)
8. : Reset Timer's Settings



**NOTE:** Press button to reset Timer before programming

**1. Adjusting CLOCK**

Press and hold CLOCK and then press DAY, HOUR, MIN, respectively to adjust clock of Timer to accurate DAY, HOUR & MINUTE. The 24-Hour Format LCD screen shall indicate 0:00-23:59.

**2. Programming the Timer**

- A. Press TIMER. LCD screen shows 1 --:--<sup>on</sup> --.
- B. Press DAY to select any of the preset 15-combinations. Continuing to press DAY, the LCD alternates between the 15-combinations.
- C. Press HOUR, MIN respectively to set desired Hour and Minute for 1 ON.
- D. After finished setting 1 ON, Press TIMER again, 1<sub>off</sub> --:-- will appear on LCD screen to set 1 OFF.
- E. Press DAY to select the same Day combination as 1 ON.

**NOTE: DAY-combinations chosen in each of ON/OFF program-period must be consistent**

- F. Press HOUR, MIN respectively to set desired Hour and Minute for 1 OFF.

**CAUTION: AN "OFF" SETTING OF 1 MINUTE LATER MUST BE PROGRAMMED FOR EVERY "ON" SETTING. For example, if 8:00 is scheduled for ON, then 8:01 must be scheduled for OFF. IF THIS IS NOT DONE, SCHEDULED MISTING CYCLES WILL NOT INITIATE AND REMOTE WILL NOT WORK. At any time entire clock can be reset by pressing the grey button next to .**

- G. When finished setting 1 ON & 1 OFF, Press TIMER 2<sub>on</sub> --:-- will appear on the LCD screen.
- H. Repeat programming procedure above to complete additional ON/OFF misting cycles if desired.
- I. When finished programming mist cycles, press CLOCK.

**NOTE: To disable a scheduled misting cycle, set the OFF time to the same as the ON time and the system will not mist that cycle.**

**At any time entire clock can be reset by pressing the grey button next to .**



MANUAL Button on Timer – is to select the ON, AUTO or OFF mode of the timer, not to initiate a mist. The recommended mode is AUTO.

- When in AUTO mode, the timer will function as programmed above.
- When in OFF mode, the programmed misting cycles will not initiate. However pressing the START MIST button on the controller while the timer is in OFF mode will initiate a manual misting cycle. Additionally, the Remote Control Start/Stop buttons will initiate/stop a mist cycle while the timer is OFF mode. **NOTE: Hold the remote control stop button down for 2 seconds to stop the current mist.**
- When in ON mode, a mist cycle will initiate after a 2 second delay. Timer must be returned to AUTO mode for the programmed mist cycles to continue. **NOTE: The START MIST button on the controller and remote control are the preferred methods for initiating an unprogrammed mist.**

## CONTROLLER FUNCTIONS

1. POWER TOGGLE - Main power button. The unit will only operate if this is in the ON position.

**NOTE: When charging the system either through the Battery Charger or Solar Panel, power does not need to be on.**

2. SPRAY WAND TOGGLE - This is only utilized with an OPTIONAL Spray Gun. In the absence of the OPTIONAL Spray Gun feature it has no functionality and can be in either the ON or OFF position.

3. AGITATION DURATION - Purges trapped air from the pump head and agitates the solution in the tank prior to a mist cycle. The recommended amount of agitation duration for a 55 gallon tank is 15 seconds. **NOTE: The minimum amount of time to purge trapped air from the pump head is 5 seconds.**

4. MIST DURATION – Is used to set the length of the mist cycle. The suggested length of each mist cycle is between 30-45 seconds. Each nozzle is designed to mist 1.5 ounces of solution per minute.

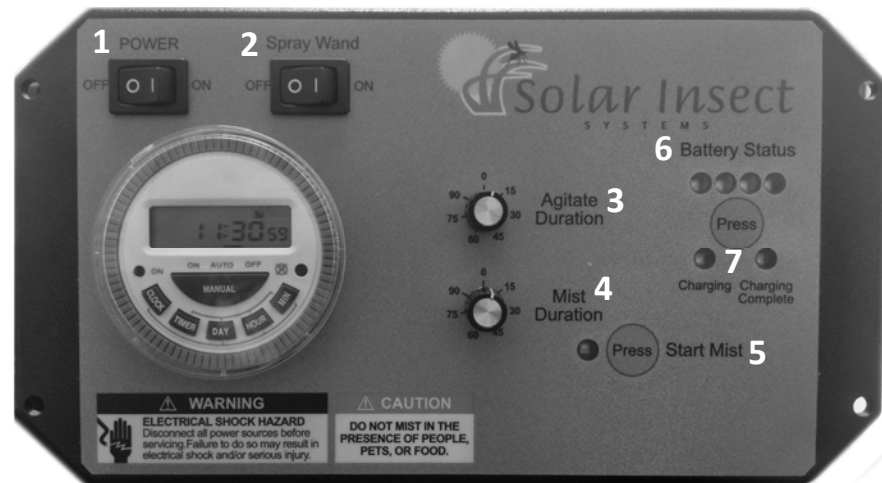
5. START MIST BUTTON – Is used to initiate an unprogrammed (or manual) mist cycle. Pressing the Start Mist Button does not alter any of the programmed mist cycles.

6. BATTERY STATUS BUTTON – Is used to check the battery status when unit is NOT plugged-in and is utilizing stored battery power.

- All four lights lit (2 red, 1 yellow, 1 green) – system is fully functioning. **NOTE: All 4 lights illuminated does not mean that system is fully charged.**
- Three lights lit (2 red, 1 yellow) – battery is getting low and needs to be recharged soon. System will mist up to 2 more times with these lights illuminated, but battery should be recharged soon.
- One light lit (1 red) - low voltage disconnect will initiate causing system to no longer mist until battery is recharged.
- No lights are illuminated – system will not mist. **NOTE: It is important to recharge battery once all lights go out to maintain battery life.**

**BATTERY MAY BE PLUGGED IN CONTINUOUSLY WITHOUT LOSING BATTERY CAPACITY OR HARMING THE BATTERY**

**NOTE: Do not use an extension cord with this system.**





When system is plugged in continuously, see the LED on the plug-in Battery Charger for battery status.

- RED - charger is plugged into a 120v outlet and is charging
- YELLOW - battery is 1/2 charged
- GREEN - battery is fully charged
- NO LED - not plugged into a 120 v outlet, reverse polarity, or blown fuse on positive side of the battery

7. CHARGING/CHARGING COMPLETE LEDs – shows charging status of the battery only when the **OPTIONAL Solar Panel** is being used. If Charging LED is solid, battery is charging. If Charging and Charging Complete LEDs are alternating, battery is fully charged.

- **OPTIONAL Solar Panel** may be used continuously without causing damage to the battery.

**NOTE: When unit is being stored or not in use for periods longer than 6 months, to preserve battery capacity, keep Battery Charger plugged in continuously if not utilizing a solar panel and turn main power toggle to OFF.**

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### BACK OF ENCLOSURE

1. PLUG or SPRAY WAND FITTING - This fitting is used to connect an OPTIONAL Spray Wand. If Spray Wand is not utilized a plug will be used as shown.

2. PLUG or SOLAR PANEL FITTING – This fitting is used to connect an OPTIONAL Solar Panel to charge the battery. If Solar Panel is not utilized a plug will be used as shown.

3. REMOTE CONTROL ANTENNA - Antenna for the supplied remote control.

4. BATTERY CHARGER - Used to charge/maintain the system battery. Plug the included battery charger into the end of this cord. **CAUTION: DO NOT yank on cord.**  
**NOTE: Only use the SLA Battery Charger supplied with the unit to charge the battery.**



The LEDs on the charger show the Charging Status.

- RED - charger is plugged into a 120v outlet and is charging
- YELLOW - battery is 1/2 charged
- GREEN - battery is fully charged
- NO LED - not plugged into a 120v outlet, reverse polarity, or blown fuse on positive side of the battery

**NOTE: Battery Charger may be plugged into 120v outlet continuously without causing damage to the battery.**

**NOTE: Do not use an extension cord with this system.**

5. PRESSURE CONTROL VALVE - Use this to adjust the nozzle circuit pressure up and down. Turn clockwise to increase pressure and counter clockwise to decrease pressure. Operate misting system between 200 - 250 PSI.

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### RIGHT SIDE OF ENCLOSURE

1. PRESSURE GAUGE - Reads the pressure in the nozzle circuit. Pressure is controlled with the Pressure Control Valve on the back of the enclosure. **NOTE: Suggested pressure is between 200 - 250 PSI.**

2. NOZZLE CIRCUIT FITTING – Insert ¼” tubing into this fitting to begin the nozzle circuit.





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## SYSTEM SETUP

Once the nozzle circuit has been installed and connected to the system, the system needs to be purged and tested before filling it with insecticide.

- Fill the tank about half way with tap water. **DO NOT ADD INSECTICIDE**
- Turn the Pressure Control Valve on the back of the enclosure (#5 in photo above) all the way clockwise.
- Go to the last nozzle in the circuit (or nozzles if you Tee'd off into different runs) and remove the nozzle tip(s) by unscrewing it from the adapter.
- To purge the air out of the system, set the Agitate Duration to 15 seconds and the Mist Duration to 90 seconds. Press the Start Mist button. After the agitation period the system will start misting. Water and air will come out of the open nozzle(s). Press the Start Mist button as many times as it takes to get the air out of the lines so that the water runs freely without sputtering.
- Once the water is running without air sputtering and the current mist cycle has ended, screw the nozzle tip(s) back on.
- At the system turn the Pressure Control Valve about halfway between open and closed.
- Press the start mist button and after the agitation cycle ends, begin turning the Pressure Control Valve clockwise to increase pressure.
- Stop when the pressure gets between 200-250 psi.
- If the pressure does not get that high, there could be several reasons:
  - Tubing is loose – check every connection where tubing goes into a fitting and make sure water is not leaking out or air is not being sucked in. It is imperative that the tubing is pushed in and swiftly pulled out to lock it in place.
  - Too many nozzles on a linear run – the most optimum run is a looped run, it starts at the Nozzle Circuit Quick Connect fitting on the enclosure and loops back around to tee into the same connection. A Tee'd circuit works well too, just make sure there is an equal number of nozzles on each of the main runs. A linear run can cause the pressure to go down if there are too many nozzles on too long of run of tubing.
- Once the pressure is set, pour in the insecticide and continue filling the tank with tap water.

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## MISTING TIMES

On a typical installation, set Agitate Duration for 15 seconds and the Mist Duration for 45 seconds. Mist at dusk and at dawn, and then an additional mist around 10 pm. It will take a couple days to get control of your yard initially and sometimes after a big rain and breeding cycle. Use the remote control to mist in between scheduled mists.

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## WARRANTY

Lovett Industries, LLC dba Solar Insect Systems (SIS) warrants this Product, to be free from defects in material and workmanship as follows:

- For a period of three (3) years from the date of purchase (whether or not actual use begins on that date), SIS will repair or replace defective electronic parts, and for a period of one (1) year SIS will repair or replace defective battery and/or battery charger with new or refurbished parts, at its option, at no charge. This warranty does not include labor or other costs incurred for diagnosing, removing, installing, shipping, servicing or handling of either defective parts or replacement parts. Additionally warranty does not apply to nozzle circuit or fittings.
- This warranty applies solely to equipment supplied by SIS and is in lieu of all other warranties, expressed or implied. No person, agent, dealer, or distributor is authorized or empowered to give any other warranty or to assume any other liability on behalf of Solar Insect Systems.



**Warranty Conditions:**

- This warranty is extended only to the original Purchaser and is nontransferable.
- A purchase receipt or other proof of date of purchase will be required before warranty service is rendered.
- Installation, use, care and maintenance must be normal and in accordance with instructions contained in the operating manual and Solar Insect's service information. Failure to do so shall void this warranty.
- All claims for failure to conform to specifications or defects in material or workmanship under this warranty must be made promptly after discovery and, in any event, must be received by Solar Insect Systems not more than one year after the original purchase date.
- SIS reserves the right to inspect the equipment prior to any decision involving a warranty claim.
- SIS reserves the right to make warranted repairs at either the installed site or at SIS's location in Richmond, TX. If SIS opts for repair at its own location, Purchaser is responsible for shipping the item to SIS at its expense.

**Manufacturer's obligation under the warranty shall not apply to:**

- Any equipment, which has been damaged by negligence, misuse, abuse, neglect and/or improper adjustment, accident, vandalism, acts of God, acts of war, whether declared or undeclared, improper application, or any other contingency beyond the control of Solar Insect System
- Cosmetic damage
- Damage in transit
- Failures caused by products not supplied by SIS
- Failures, which result from faulty installation, set-up adjustments, improper operation, power line surge, improper voltage supply or damage from lightning
- Any equipment that has been repaired or altered without authorization from SIS or in a manner inconsistent with such authorization
- Normal wear on any item or piece of equipment
- Lost items

Manufactured by:

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